

**THAILAND**  
**HYDROLOGICAL YEARBOOK**  
**WATER YEAR 2021**  
**VOLUME 64**



**HYDROLOGY DIVISION**  
**OFFICE OF WATER MANAGEMENT AND HYDROLOGY**  
**ROYAL IRRIGATION DEPARTMENT**



Thailand

Hydrological Yearbook

Water Year 2021

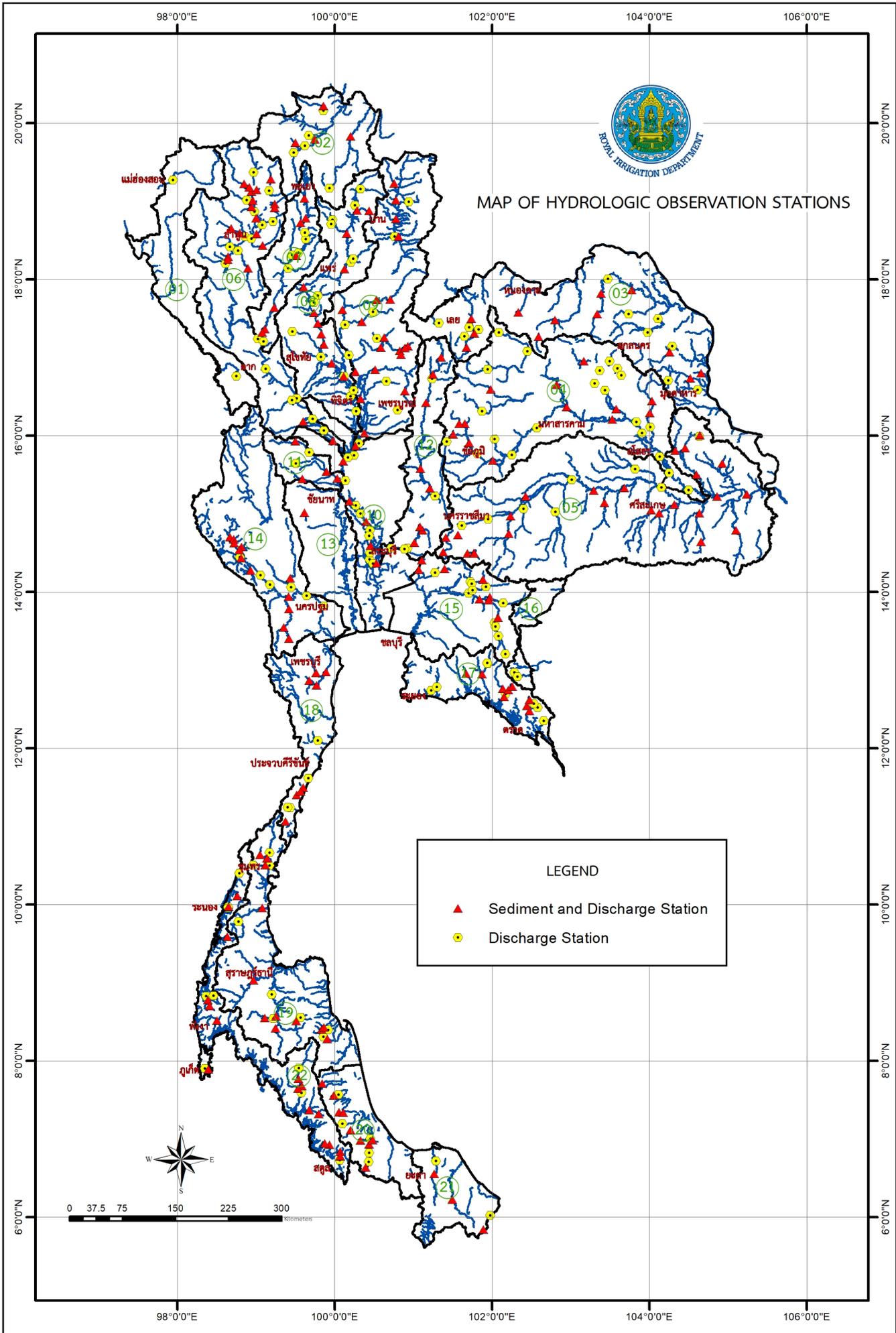
Volume 64

Royal Irrigation Department

Hydrology Division

Office of Water Management and Hydrology

Bangkok



MAP OF HYDROLOGIC OBSERVATION STATIONS

LEGEND

- ▲ Sediment and Discharge Station
- Discharge Station

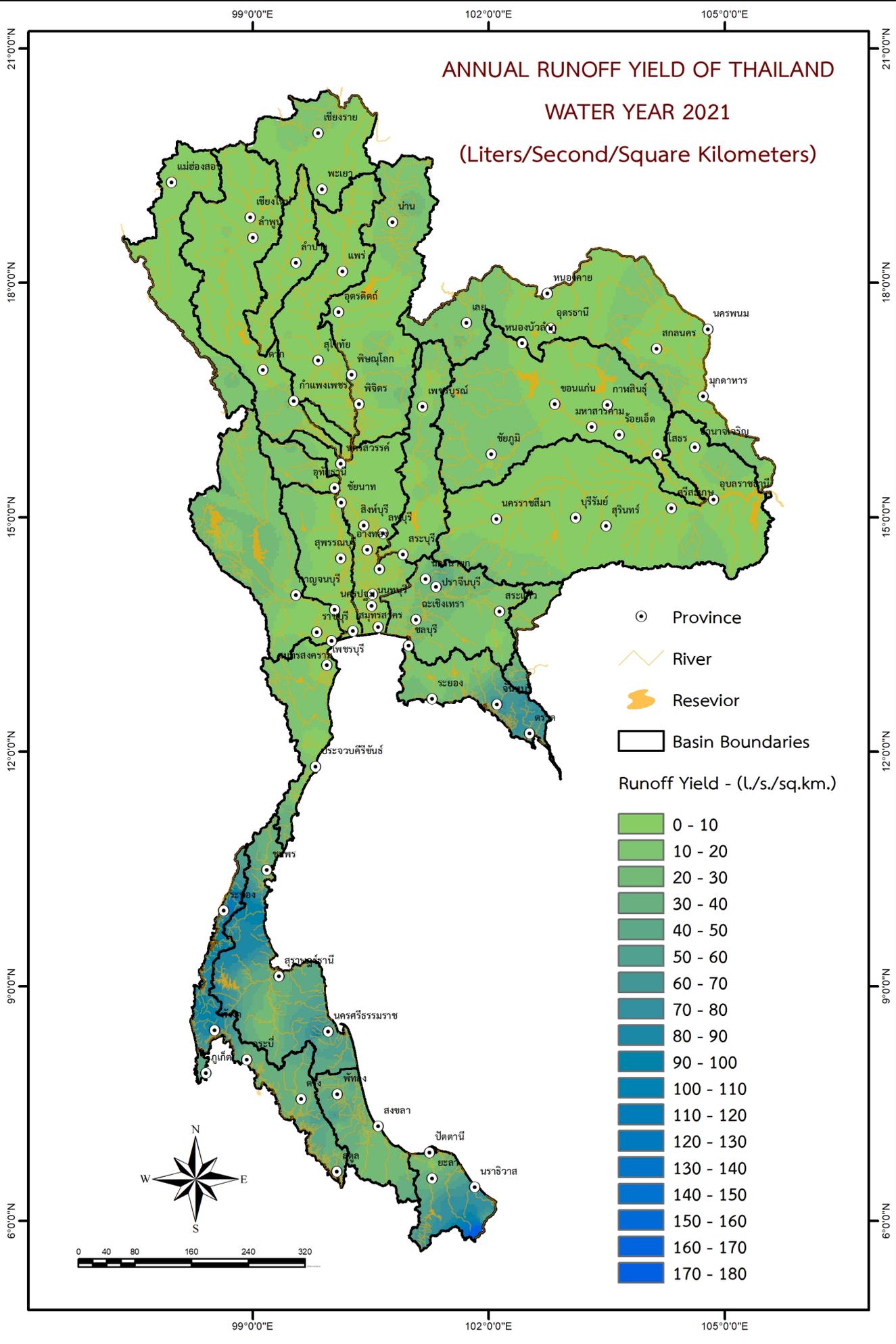
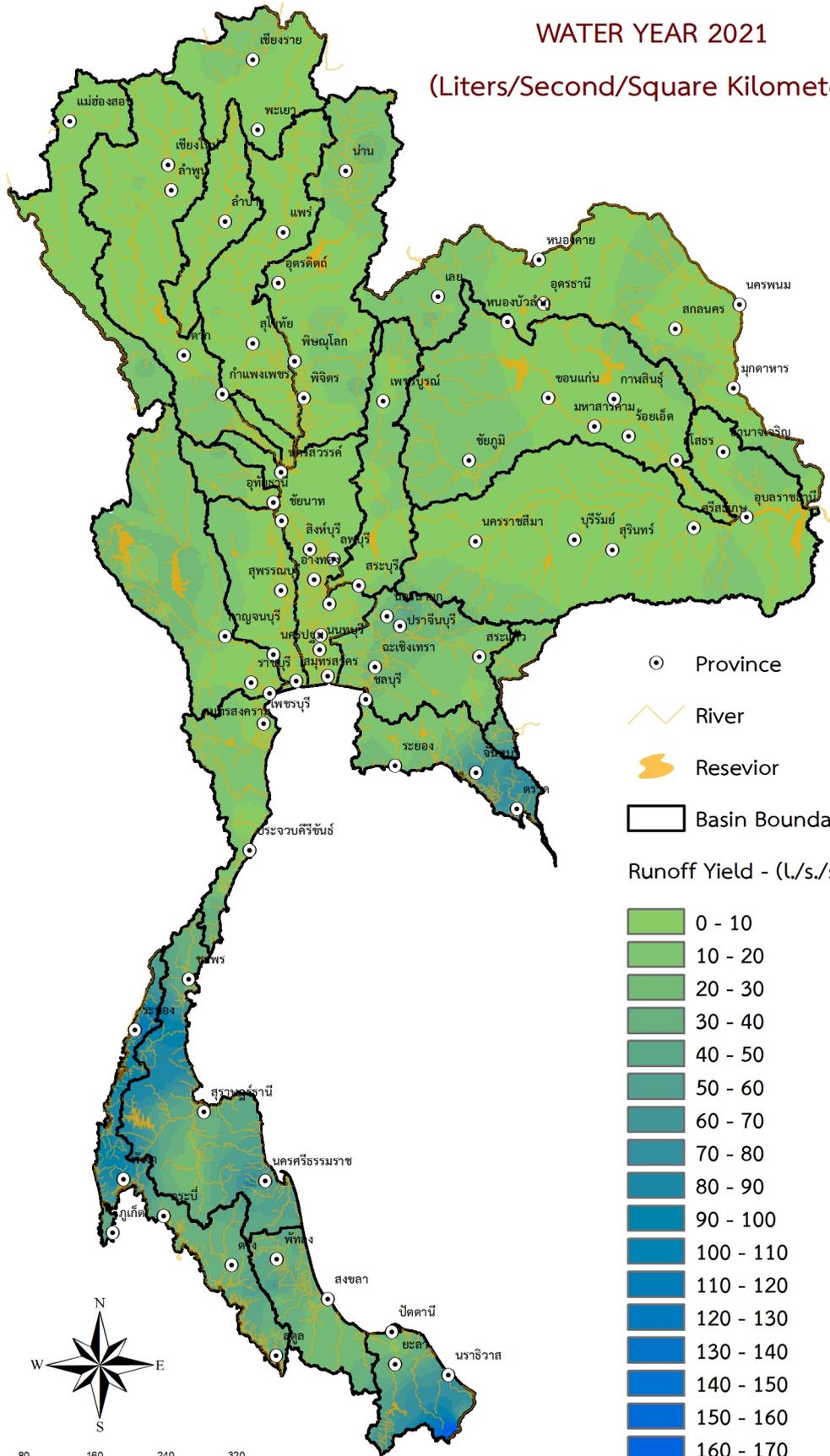
0 37.5 75 150 225 300 kilometers



# ANNUAL RUNOFF YIELD OF THAILAND

## WATER YEAR 2021

(Liters/Second/Square Kilometers)



# CONTENTS

	Page
CONTENTS	III
HYDROLOGY OBSERVATION	XXIII
HYDROLOGICAL YEARBOOK PUBLICATION	XXIII
Introduction	XXIII
Definition of terms and abbreviations	XXIII
Order of listing of gauging data	XXIV
Series of yearbook publications	XXV
STANDARD OF STREAMFLOW DATA PROCUREMENT	XXVII
Network design	XXVII
Field work	XXVII
Office data processing	XXVIII
Future plan for computerization	XXX
Organization	XXX
PARTICIPATION IN STREAM GAUGING WORKS	XXXII
UNITS OF MEASURE AND CONVERSION FACTORS	XXXIII
STREAM GAUGING DATA	1
<u>1. SALAWIN RIVER BASIN</u>	
1 Sw.5A Nam Mae Pai at Ban Tha Pong Daeng, Mae Hong Son	2
2 Sw.6 Huai Mae Lamao at Ban Mae Lamao, Tak	4
<u>2. NORTH KHONG RIVER BASIN</u>	
3 G.4 Nam Mae Kon at Ban Pang Rim Kon, Chiang Rai	6
4 G.8 Nam Mae Lao at Ban Ton Yang, Chiang Rai	8
5 G.9 Nam Mae Suai at Ban Kariang Thung Phrao, Chiang Rai	10
6 G.10 Nam Mae Lao at Ban Pong Poo Fuang, Chiang Rai	12
7 G.11 Nam Mae Lao at Ban Don Salee, Chiang Rai	14
8 I.14 Nam Mae Ing at Ban Nam Ing, Chiang Rai	16
9 I.17 Nam Mae Ing at Ban Jae Dee Ngam, Phayao	18
10 Kh.72 Nam Mae Kham at Ban Mae Kham Lak Chet, Chiang Rai	20
11 Kh.89 Nam Mae Chan at Ban Hua Saphan, Chiang Rai	22

**3. NORTHEAST KHONG BASIN**

12	Kh.9A	Nam Kam at Ban Nong Sala, Sakon Nakhon	24
13	Kh.18	Huai Mong at Ban Na Ang, Udon Thani	26
14	Kh.28A	Loei River at Ban Na Lak, Loei	28
15	Kh.53	Huai Luang at Ban Nong Wua So, Udon Thani	30
16	Kh.54	Nam Un at Ban Na Wa, Nakhon Phanom	32
17	Kh.58A	Loei River at Ban Fak Loei, Loei	34
18	Kh.61	Loei River at Ban Keng Bong, Loei	36
19	Kh.74	Songkhram River at Ban Tha Huai Lua, Sakon Nakhon	38
20	Kh.77A	Nam Thop at Ban Kok So, Loei	40
21	Kh.78	Huai Nam Huai at Ban Nam Huai, Loei	42
22	Kh.90	Lam Nam Phung at Ban Tong Khop, Sakon Nakhon	44
23	Kh.91	Huai Chanot at Ban Khon Sawan, Nakhon Phanom	46
24	Kh.92	Huai Bang Sai at Ban Kan Luang Dong, Muk Dahan	48
25	Kh.93	Songkhram River at Ban Khok Kham Lai, Udon Thani	50
26	Kh.95	Nam San at Ban Kaeng Hai, Loei	52
27	Kh.98	Songkhram River at Ban Tha Kok Daeng, Bueng Kan	54
28	Kh.99A	Huai Bang Sai at Ban Bang Sai , Mukdahan	56
29	Kh.101	Huai Muk at Ban Kaen Tao, Mukdahan	58
30	Kh.103	Huai Luang at Ban Non Toom, Udon Thani	60
31	Kh.105	Nam Puan at Ban Pa Noi, Loei	62
32	Kh.108	Nam Un at Ban Prong Yai, Sakon Nakhon	64
33	Kh.112	Nam Yam at Ban Pho Chai, Sakon Nakhon	66
34	Kh.115	Songkhram River at Ban Lao Sombun, Sakon Nakhon	68

**4. CHI RIVER BASIN**

35	E.5	Chi River at Ban Non Puai, Chaiyaphum	70
36	E.6C	Lam Pa Thao at Ban Tat Ton, Chaiyaphum	72
37	E.9	Chi River at Ban Chot, Khon Kaen	74
38	E.18	Chi River at Ban Tha Sa Bang, Roi Et	76
39	E.20A	Chi River at Maha Chana Chai, Yasothorn	78
40	E.21	Chi River at Ban Kaeng Ko, Chaiyaphum	80
41	E.22B	Lam Nam Phong at Ban Tha Mao, Khon Kaen	82
42	E.23	Chi River at Ban Khai, Chaiyaphum	84
43	E.29A	Lam Nam Phong at Ban Pha Nok Khao , Loei	86

44	E.32A	Chi River at Ban Nong O, Chiyaphum	88
45	E.54	Nam Yang at Ban Kaeng Yao, Kalasin	90
46	E.64	Lam Phaniang at Ban Na Klang, Nong Bua Lamphu	92
47	E.65	Lam Pao at Ban Tha Hai, Udon Thani	94
48	E.66A	Chi River at Ban Muang Lat, Roi Et	96
49	E.67	Lam Phan Chat at Ban Tha Ngam, Kalasin	98
50	E.68A	Lam Phaniang at Ban Khong Po, Nong Bua Lamphu	100
51	E.70	Lam Nam Yang at Ban Kut Kwang, Roi Et	102
52	E.72	Lam Chiang at Ban Chiang, Chaiyaphum	104
53	E.73A	Lam Chao at Ban Lad Chumphon , Chaiyaphum	106
54	E.75	Lam Pao at Ban Nong Muang , Kalasin	108
55	E.76A	Huai Sang Ka at Ban Phon , Kalasin	110
56	E.83	Lam Saphung at Ban Na Charoen, Chaiyaphum	112
57	E.84	Chi River at Ban Nang Dad Khok, Chaiyaphum	114
58	E.85	Lam Nam Choen at Ban Non Han, Khon Kaen	116
59	E.87	Lam Pao at Ban Wang Hin , Kalasin	118
60	E.88	Huai Mun at Ban Khok Sung , Kalasin	120
61	E.89	Lam Nong Sang at Ban Nong Rew Nung , Kalasin	122
62	E.90	Huai Sang Kiab at Ban Nong Yang Tai , Kalasin	124
63	E.91	Chi River at Ban Don Khanuan, Maha Sarakham	126
64	E.92	Lam Nam Yang at Ban Tha Ngam, Roi Et	128
65	E.93	Lam Nam Phrom at Ban Yang , Chaiyaphum	130
66	E.95	Chi River at Ban Wang Charoen, Roi Et	132
67	E.97	Chi River at Yasothon-Phanom Prai Barrage, Yasothon	134
68	E.98	Chi River at That Noi Barrage , Ubon Ratchathani	136

#### **5. MUN RIVER BASIN**

69	M.2A	Mun River at Ban Dan Taka, Nakhon Ratchasima	138
70	M.4	Mun River at Ban Phong Sawai, Surin	140
71	M.5	Mun River at Ban Mueang Kong, Si Sa Ket	142
72	M.6A	Mun River at Ban Satuk, Buri Ram	144
73	M.7	Mun River at Ban Chumchondeengam, Ubon Ratchathani	146
74	M.9	Huai Samran at Ban Saphan Khao Community, Si Sa ket	148
75	M.11B	Mun River at Ban Pho Tak, Ubon Ratchathani	150
76	M.32	Lam Se Bai at Ban Chiang Pheng, Yasothon	152

## VI

77	M.42	Huai Thap Than at Ban Huai Thap Than, Si Sa Ket	154
78	M.43A	Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima	156
79	M.66	Huai Khayung at Ban Wang Chom Pu, Si Sa Ket	158
80	M.89	Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima	160
81	M.95A	Lam Sieo Yai at Ban Ku, Roi Et	162
82	M.104	Mun River at Ban Wang Prat, Buri Ram	164
83	M.127	Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani	166
84	M.145	Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima	168
85	M.155	Huai La - ong at Ban Na Phu, Amnart Charoen	170
86	M.156	Huai Ban at Ban Na Phu, Amnart Charoen	172
87	M.157	Huai Lam Phong at Ban Nikhom, Yasothon	174
88	M.159	Lam Chi at Ban Lum Din, Surin	176
89	M.170	Lam Dom Yai at Ban Kham Samran, Ubon Ratchathani	178
90	M.171	Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima	180
91	M.172	Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima	182
92	M.173	Mun River at Ban Non Sa - at, Nakhon Ratchasima	184
93	M.176	Huai Khayung at Ban Non Si Khlai, Si Sa Ket	186
94	M.177	Lam Ta Khong at Ban Non Sawang, Nakhon Ratchasima	188
95	M.179A	Lam Sa Bai at Ban Pa Kor, Ubon Ratchathani	190
96	M.183B	Huai Hin Lap at Ban Khlong Hin Lap, Nakhon Ratchasima	192
97	M.184	Mun River at Ban Cum, Nakhon Ratchasima	194
98	M.185A	Lam Plai Mat at Ban Hin Cone, Nakhon Ratchasima	196
99	M.186	Lam Chakkarat at Ban Non Koy, Nakhon Ratchasima	198
100	M.190	Huai Samran at Ban Khwaw, Si Sa Ket	200
101	M.191	Lam Ta Khong at Ban Khok Kruad, Nakhon Ratchasima	202

### **6. PING RIVER BASIN**

102	P.1	Ping River at Nawarat Bridge, Chiang Mai	204
103	P.2A	Ping River at Ban Tha Khae, Tak	206
104	P.4A	Nam Mae Taeng at Ban Mae Taeng, Chiang Mai	208
105	P.5	Nam Mae Kuang at Tha Nang Bridge, Lamphun	210
106	P.7A	Ping River at Ban Huai Yang, Kamphaeng Phet	212
107	P.12C	Ping River at Ban Yanree, Tak	214
108	P.14A	Nam Mae Chaem at Tha Kham Bridge, Chiang Mai	216
109	P.15	Ping River at Wat Sri Phirom, Kamphaeng Phet	218

## VII

110	P.16	Ping River at Ban San Tor, Kamphaeng Phet	220
111	P.17	Ping River at Ban Tha Ngiu, Nakhon Sawan	222
112	P.20	Ping River at Ban Chiang Dao, Chiang Mai	224
113	P.21	Nam Mae Rim at Ban Mae Rim Tai, Chiang Mai	226
114	P.24A	Nam Mae Klang at Pracha Uthit Bridge, Chiang Mai	228
115	P.26A	Khlong Suan Mak at Ban Mai, Kamphaeng Phet	230
116	P.56A	Nam Mae Ngat at Ban Sahakorn Romkiao, Chiang Mai	232
117	P.67	Ping River at Ban Mae Tae, Chiang Mai	234
118	P.71A	Nam Mae Khan at Ban Klang, Chiang Mai	236
119	P.73	Ping River at Ban Sop Soi, Chiang Mai	238
120	P.73A	Ping River at Ban Sop Pae , Chiang Mai	240
121	P.75	Ping River at Ban Cho Lae, Chiang Mai	242
122	P.76	Nam Mae Li at Ban Mae E - Hai, Lamphun	244
123	P.77	Nam Mae Tha at Ban Sop Mae Sapuad, Lamphun	246
124	P.78	Khlong Khlung at Ban Sam Ruean, Kamphaeng Phet	248
125	P.79	Nam Mae Kuang at Ban Mae Wan, Chiang Mai	250
126	P.80	Nam Mae Lai at Ban Pong Din, Chiang Mai	252
127	P.81	Nam Mae Kuang at Ban Pong, Chiang Mai	254
128	P.82	Nam Mae Wang at Ban Sop Win, Chiang Mai	256
129	P.84	Nam Mae Wang at Ban Phan Ton, Chiang Mai	258
130	P.85	Nam Mae Li at Ban Lai Khaeo, Lamphun	260
131	P.86	Nam Mae On at Ban Hong, Chiang Mai	262
132	P.87	Nam Mae Tha at Ban Pa Cang Noy, Lamphun	264
133	P.91	Nam Mae Khod at Ban San Pu Loei, Chiang Mai	266
134	P.92	Nam Mae Taeng at Ban Mueang Kud, Chiang Mai	268
135	P.92A	Nam Mae Taeng at Ban Huai Pa Cang, Chiang Mai	270
136	P.93	Nam Mae Rim at Ban Saluang Nok, Chiang Mai	272
137	P.103	Ping River at 3 rd Ring Bridge , Chiang Mai	274

### **7. WANG RIVER BASIN**

138	W.1C	Wang River at Setuwaree Bridge, Lampang	276
139	W.3A	Wang River at Ban Don Chai, Lampang	278
140	W.4A	Wang River at Ban Wang Man, Tak	280
141	W.10A	Wang River at Ban Don Mun, Lampang	282
142	W.16A	Wang River at Ban Hai, Lampang	284

## VIII

143	W.17	Nam Mae Soi at Ban Nong Nao, Lampang	286
144	W.20	Nam Mae Tui at Ban Tha Lo, Lampang	288
145	W.21	Wang River at Ban Tha Dua, Lampang	290
146	W.22	Nam Mae Chang at Ban Wang Phrao, Lampang	292
147	W.23	Wang River at Ban Chiang Rai, Tak	294
148	W.24	Wang River at Ban Tha Phai, Tak	296
149	W.25	Wang River at Ban Rong Kho, Lampang	298
150	W.26	Huai Mae Ta at Ban Muang My, Lampang	300

### **8. YOM RIVER BASIN**

151	Y.1C	Yom River at Ban Nam Khong, Phrae	302
152	Y.3A	Yom River at Ban Wang Mai Khon, Sukhothai	304
153	Y.4	Yom River at Nai Mueang, Sukhothai	306
154	Y.6	Yom River at Ban Kaeng Luang , Sukhothai	308
155	Y.13A	Nam Ngao at Ban Luang Nua , Lampang	310
156	Y.14A	Yom River at Ban Don Rabiang, Sukhothai	312
157	Y.15	Yom River at Ban Kong, Sukhothai	314
158	Y.16	Yom River at Ban Bang Rakam, Phitsanulok	316
159	Y.17	Yom River at Ban Sam Ngam, Phichit	318
160	Y.20	Yom River at Ban Huai Sak, Phrae	320
161	Y.21	Yom River at Ban Na Pla Kang, Sukhothai	322
162	Y.24	Nam Pi at Ban Mang, Phayao	324
163	Y.26	Huai Mae Mok at Ban Mae Phu, Lampang	326
164	Y.29	Huai Mae Hu at Ban Mae Hu , Sukhothai	328
165	Y.30	Huai Pong at Ban Pong, Lampang	330
166	Y.31	Yom River at Ban Thung Nong, Phayao	332
167	Y.33	Yom River at Ban Khlong Tan, Sukhothai	334
168	Y.34	Nam Mae Lai at Ban Mae Lai , Phrae	336
169	Y.36	Nam Khuan at Ban Pa Kha, Phayao	338
170	Y.37	Yom River at Ban Wang Chin, Phrae	340
171	Y.38	Nam Mae Kham Mi at Ban Mae Kham Mi Tamnak Tham, Phrae	342
172	Y.42	Yom River at Ban Tha Tako, Phichit	344
173	Y.64	Yom River at Bang Rakam , Phitsanulok	346
174	Y.65	Nam Pi at Ban Phi Tai , Nan	348

**9. NAN RIVER BASIN**

175	N.1	Nan River at Forestry Office, Nan	350
176	N.2B	Nan River at Nai Mueang, Uttaradit	352
177	N.5A	Nan River at Mueang, Phitsanulok	354
178	N.7A	Nan River at Ban Rat Chang Khwan, Phichit	356
179	N.8	Nan River at Bang Mun Nak , Phichit	358
180	N.12A	Nan River at Ban Hat Phai, Uttaradit	360
181	N.13A	Nan River at Ban Bun Nak, Nan	362
182	N.14A	Nan River at Wat Luang Pho Kaeo, Nakhon Sawan	364
183	N.24A	Khek River at Ban Wang Nok Aen, Phitsanulok	366
184	N.27A	Nan River at Ban Nong Kham, Phitsanulok	368
185	N.28A	Khlong Tron at Ban Na Klam , Uttaradit	370
186	N.36	Nam Khwae Noi at Ban Nong Krathao, Phitsanulok	372
187	N.37	Nan River at Ban Thap Krit, Nakhon Sawan	374
188	N.43A	Khlong Chom Phu at Ban Chom Phu, Phitsanulok	376
189	N.49	Nam Yao at Ban Nam Yao, Nan	378
190	N.54	Khlong Wang Pong at Ban Wang Pong, Phetchabun	380
191	N.55	Nam Phak at Ban Tha Sakae, Phitsanulok	382
192	N.58	Nam Fua at Ban Kok Muang, Phitsanulok	384
193	N.59	Lam Nam Khan at Ban Na Pho Na Chan, Phitsanulok	386
194	N.60	Nan River at Ban Hat Song Khwae, Uttaradit	388
195	N.62	Huai Nam Khlung at Ban Huai Tha Nua, Phitsanulok	390
196	N.64	Nan River at Ban Pha Khwang, Nan	392
197	N.65	Nam Yao at Ban Pang Sa, Nan	394
198	N.66	Huai Om Sing at Ban Noen Phoem, Phitsanulok	396
199	N.67	Nan River at Ban Koei Chai, Nakhon Sawan	398
200	N.72	Khlong Tron at Ban Wang Pla Kod , Uttaradit	400
201	N.73	Khek River at Ban Tan Tawan, Phetchabun	402
202	N.74	Nan River at Bang Krathum, Phitsanulok	404
203	N.75	Nam Wa at Tha Li Bridge, Nan	406
204	N.81	Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok	408
205	N.84	Nam Pat at Ban Suan , Uttaradit	410
206	N.85	Nan River at Ban Saphan Khwae Yai Phatthana, Nakhon Sawan	412

**10. CHAO PHRAYA RIVER BASIN**

207	C.2	Chao Phraya River at Khai Chira Prawat, Nakhon Sawan	414
208	C.3	Chao Phraya River at Ban Bang Phutsa, Sing Buri	416
209	C.7A	Chao Phraya River at Ban Bang Kaeo, Ang Thong	418
210	C.13	Chao Phraya River at Ban Bang Luang, Chai Nat	420
211	C.35	Chao Phraya River at Ban Pom, Phra Nakhon Si Ayutthaya	422
212	C.36	Khlong Bang Luang at Ban Bang Luang Dod, Phra Nakhon Si Ayutthaya	424
213	C.37	Khlong Bang Ban at Ban Bang Ban, Phra Nakhon Si Ayutthaya	426
214	C.44	Chao Phraya River at Ban In Buri, Sing Buri	428
215	C.45	Chao Phraya River at Ban Bang Nam Chieo, Sing Buri	430
216	C.46	Chao Phraya River at Ban Chaiyo, Ang Thong	432
217	C.47	Chao Phraya River at Ban Pa Mok, Ang Thong	434
218	C.56	Chao Phraya River at Ban Tha Nam Ooy, Nakhon Sawan	436
219	C.66	Chao Phraya River at Amphoe Sapphaya ,Chainat	438

**11. SAKAE KRANG RIVER BASIN**

220	Ct.4	Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan	440
221	Ct.5A	Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet	442
222	Ct.7	Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan	444
223	Ct.8	Nam Mae Wong at Ban Khok Mo, Uthai Thani (Ct.8)	446
224	Ct.19	Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)	448
225	Ct.20	Lower Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20)	450

**12. PASAK RIVER BASIN**

226	S.3	Pasak River at Ban Tan Dieo, Phetchabun	452
227	S.4B	Pasak River at Mueang, Phetchabun	454
228	S.7A	Lam Muak Lek at Ban Tharahad, Saraburi	456
229	S.9	Pasak River at Ban Pa, Saraburi	458
230	S.14	Lam Sonthi at Ban Tha Ruak , Lop Buri	460
231	S.26	Pasak River at Ban Tha Rua , Phra Nakhon Si Ayutthaya	462
232	S.28	Pasak River at Ban Nong Bua, Lop Buri	464
233	S.32	Pasak River at Mueang , Saraburi	466
234	S.33	Pasak River at Ban Tha Hi Yong, Phetchabun	468
235	S.36	Pasak River at Ban Non Thong, Phetchabun	470
236	S.42	Pasak River at Ban Bo Rang, Phetchabun	472

237	S.43	Pasak River at Ban Phun Sap , Lop Buri	474
238	S.44	Pasak River at Ban Sao Hai , Saraburi	476

**13. THACHIN RIVER BASIN**

239	T.12A	Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri	478
-----	-------	--	-----

**14. MAE KLONG RIVER BASIN**

240	K.10	Khwae Noi River at Ban Lum Sum, Kanchanaburi	480
241	K.11A	Mae Klong River at Ban Wang Khanai, Kanchanaburi	482
242	K.12	Lam Ta Phoen at Ban Thung Na Nang Rok, Kanchanaburi	484
243	K.17	Lam Phachi at Ban Bo, Ratchaburi	486
244	K.22C	Huai Mae Nam Noi at Ban Mae Nam Noi , Kanchanaburi	488
245	K.25A	Huai Tha Khoei at Ban Kha, Ratchaburi	490
246	K.30	Huai Mae Nam Lo at Ban Sai Yok, Kanchanaburi	492
247	K.31	Huai Mae Nam Noi at Ban Nam Chon, Kanchanaburi	494
248	K.32A	Huai Bong Ti at Ban Bong Ti, Kanchanaburi	496
249	K.35A	Khwae Yai River at Ban Nong Bua, Kanchanaburi	498
250	K.37	Khwae Noi River at Ban Wang Yen, Kanchanaburi	500
251	K.38A	Huai Lin Thin at Ban Nong Bang, Kanchanaburi	502
252	K.39	Huai Ong Thi at Ban Ong Thi, Kanchanaburi	504
253	K.50A	Huai Dinso at Ban Sahakorn Nikom , Kanchanaburi	506
254	K.54	Khwae Noi River at Ban Lin Thin, Kanchanaburi	508
255	K.55A	Mae Klong River at Khai Luang Bridge, Ratchaburi	510
256	K.58	Khwae Noi River at Ban Tha Sao, Kanchanaburi	512
257	K.60	Huai Kui Mang at Ban Kui Mang, Kanchanaburi	514
258	K.62	Lam Phachi at Ban Nong Phai, Kanchanaburi	516

**15. BANG PAKONG RIVER BASIN**

259	Kgt.3	Prachin Buri River at Ban Kabin Buri, Prachin Buri	518
260	Kgt.9	Khlong Phra Sathung at Ban Khao Chakan, Sa Kaeo	520
261	Kgt.12	Khlong Phra Prong at Ban Kaeng, Sa Kaeo	522
262	Kgt.13A	Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri	524
263	Kgt.14	Khlong Yang at Ban Thung Faek, Prachin Buri	526
264	Kgt.15A	Huai Samong at Ban Kaeng Din So, Prachin Buri	528
265	Kgt.33	Khwae Nam Sai at Ban Saphan Hin, Prachin Buri	530
266	Kgt.34	Khwae Hanuman at Ban Wang Man, Prachin Buri	532

## XII

267	Kgt.38	Khlong Phra Phloeng Yai at Ban Phu Ngoen , Sa Kaeo	534
268	Kgt.40	Upper Khlong Phra Sathung at Ban Thung Kabin, Sa Kaeo	536
269	Kgt.42	Khlong Phra Sathung at Ban Tharapha, Sa Kaeo	538
270	Kgt.43A	Khwaee Hanuman at Ban Na Khaem, Prachin Buri	540
271	Kgt.44	Khlong Phra Prong at Ban Kaeng Sai, Sa Kaeo	542
272	Kgt.45	Khlong Phra Sathung at Ban Ta Ruang Lang, Chanthaburi	544
273	Kgt.47	Khlong Phra Sathung at Ban Dan Chai Phatthana, Sa Kaeo	546
274	Ny.1B	Nakhon Nayok River at Ban Khao Nang Buat, Nakhon Nayok	548
275	Ny.3	Lower Khlong Ban Na at Ban Pa Kha, Nakhon Nayok	550
276	Ny.4	Khlong Samo Pun at Ban Noen Hom, Prachin Buri	552
277	Ny.6	Upper Khlong Ban Na at Ban Cha Om, Saraburi	554

### 16. TONLE SAP BASIN

278	TI.3	Khlong Phra Phut at Ban Pang Ngon, Chanthaburi	556
279	TI.4	Khlong Ta Kong at Ban Khlong Ta Kong, Chanthaburi	558

### 17. EAST COAST-GULF BASIN

280	Z.10	Khlong Yai at Ban Si Bua Thong, Trat	560
281	Z.13	Chanthaburi River at Ban Puk, Chanthaburi	562
282	Z.14	Khlong Phayat at Ban Chaman, Chanthaburi	564
283	Z.18	Khlong Phlo at Ban Chamkho , Rayong	566
284	Z.21	Khlong Hin Dat at Ban Pong Rong Sen, Chanthaburi	568
285	Z.28	Upper Khlong Tanot at Ban Khun Song, Chanthaburi	570
286	Z.30	Khlong Sato at Ban Nong Bua, Trat	572
287	Z.38	Khlong Thapma at Ban Khao Bot , Rayong	574
288	Z.45	Khlong Aeng at Ban Kho Lae, Trat	576
289	Z.46	Khlong Sano at Ban Nonthee, Trat	578
290	Z.47A	Khlong Chanthi at Ban Khlong Khwang, Trat	580
291	Z.52	Khlong Pran Bun at Ban Khlong Yai Tai, Chanthaburi	582
292	Z.55	Chanthaburi River at Ban Wang Cha Ai, Chanthaburi	584
293	Z.59	Khlong Nak at Ban Bo Rai, Trat	586
294	Z.62	Khlong Yai at Ban Khai , Rayong	588
295	Z.63	Khlong Wang Suan Luang at Ban Pra Gad , Chanthaburi	590
296	Z.64	Chanthaburi River at Ban Tha Luang , Chanthaburi	592

### 18. PHETCHABURI - PRACHUB KHIRI KHAN RIVER BASIN

297	B.3A	Phetchaburi River at Ban Song Phi Nong, Phetchaburi	594
-----	------	---	-----

### XIII

298	B.6A	Huai Mae Prachan at at Saphan Tha Kewiyn (Ban Wang Chan), Phetchaburi	596
299	B.9	Phetchaburi River at Ban Sarahed, Phetchaburi	598
300	B.10	Phetchaburi River at Ban Tha Yang, Phetchaburi	600
301	Gt.7	Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan	602
302	Gt.7B	Khlong Khanan at Ban Thung Chuak, Prachuap Khiri Khan	604
303	Gt.9	Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan	606
304	Gt.10	Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan	608
305	Gt.11	Khlong Yai at Ban Chang Laek, Prachuap Khiri Khan	610
306	Gt.17	Huai Yang at Ban Huai Yang, Prachuap Khiri Khan	612
307	Gt.18	Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan	614
308	Ky.3	Kui Buri River at Ban Thung Faek, Prachuap Khiri Khan	616

#### 19. UPPER SOUTHERN PENINSULA EAST COAST

309	X.36	Khlong Phum Duang at Ban Tha Khanon, Surat Thani	618
310	X.37A	Tapi River at Ban Yan Din Daeng, Surat Thani	620
311	X.53A	Khlong Chumphon at Ban Wang Phai, Chumphon	622
312	X.55	Khlong Tha Di at Ban Tha Yai, Nakhon Si Thammarat	624
313	X.64	Khlong Tha Sae at Ban Tha Sae, Chumphon	626
314	X.70	Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat	628
315	X.158	Khlong Tha Taphao at Ban Wang Khrok, Chumphon	630
316	X.167	Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat	632
317	X.180	Khlong Tha Taphao at Mueang , Chumphon	634
318	X.195	Tapi River at Ban Tha Pho, Nakhon Si Thammarat	636
319	X.198	Khlong Sin Pun at Ban Bang Rup, Surat Thani	638
320	X.201A	Upper Khlong Chumphon at Ban Tha Mai Lai , Chumphon	640
321	X.203	Khlong Thadee at Ban Na Pa, Nakhon Si Thammarat	642
322	X.212	Lower Khlong Lang Suan at Thanon Luk Suea , Chumphon	644
323	X.213	Upper Khlong Lang Suan at Ban Phato , Chumphon	646
324	X.217	Tapi River at Ban Khian Sa, Surat Thani	648
325	X.243	Tapi River at Ban Khuan Klang (1) , Nakhon Si Thammarat	650
326	X.248	Khlong Rap Ro at Ban Hat Nai, Chumphon	652
327	X.258	Khlong I - Pan at Ban Mai , Surat Thani	654
328	X.260	Lower Khlong I - Pan at Ban Apat, Surat Thani	656
329	X.289	Khlong Sao Thong at Thalung Thong Temple , Nakhon Si Thammarat	658

**20. THALE SAP SONGKHLA BASIN**

330	X.44	Khlong U - Taphao at Ban Hat Yai Nai, Songkhla	660
331	X.67A	Khlong Ratthaphum at Ban Nasithong, Songkhla	662
332	X.68	Khlong Tha Khae at Ban Tha Khae, Phatthalung	664
333	X.90	Khlong U - Taphao at Ban Bang Sala, Songkhla	666
334	X.109	Khlong Bang Kaeo at Ban Khuan In No Mo, Phutthalung	668
335	X.112	Khlong U - Taphao at Ban Takian Pao, Songkhla	670
336	X.113	Khlong La Pang at Ban Thung Prap, Songkhla	672
337	X.170	Khlong Lam at Ban Khlong Lam, Phatthalung	674
338	X.173A	Khlong U - Taphao at Ban Muang Kong, Songkhla	676
339	X.174	Khlong Wa at Ban Khlong Wa, Songkhla	678
340	X.240	Upper Khlong Wat at Ban Hu Rae , Songkhla	680
341	X.266	Khlong Pa Bon at Lo Han, Phatthalung	682
342	X.267	Khlong Tha Cheat at Ban Mae Khree, Phatthalung	684
343	X.276	Upper Khlong Tha Nae at Ban Khao Pu, Phatthalung	686

**21. LOWER SOUTHERN PENINSULA EAST COAST**

344	X.40A	Pattani River at Ban Tha Sap, Yala	688
345	X.119A	Kolok River at Lantu Bridge, Narathiwat	690
346	X.184	Sai Buri River at Ban Sa Ko , Narathiwat	692
347	X.274	Kolok River at Ban Bu Kae Ta, Narathiwat	694
348	X.283	Pattani River at Ban Pree Kee, Pattani	696

**22. SOUTHERN PENINSULA WEST COAST**

349	X.56	Trang River at Ban Tha Pradu , Trang	698
350	X.110	Khlong Lamphu La at Ban Lamphu La , Trang	700
351	X.139A	Khlong Palian at Ban Palian Nai, Trang	702
352	X.148	Khlong Lam Lon at Ban U-Dai Tai , Satun	704
353	X.150	Khlong Langu at Ban Wang Pa Khian, Satun	706
354	X.186	Khlong Ta Kuaw Pa at Ban Talat Kao, Phangnga	708
355	X.187	Khlong Ta Kuaw Pa at Ban Hin Dan, Phangnga	710
356	X.188A	Khlong Rommanee at Ban Rommanee, Phangnga	712
357	X.190A	Khlong Bang Yai at Ban Ket Ho, Phuket	714
358	X.191	Khlong Bang Yai at Satee Phuket school, Phuket	716
359	X.196	Khlong Kapong at Ban Tha Na , Phang Nga	718
360	X.205	Khlong La-Un at Ban La-Un Tai , Ranong	720

XV

361	X.207	Khlong Kra Buri at Ban Bang Nam Chud , Ranong	722
362	X.208A	Upper Khlong Kapoe at Ban Chaew Lueang , Ranong	724
363	X.209	Lower Khlong Hat Sompan at Phetkasam Road , Ranong	726
364	X.228	Trang River at Ban Klang , Trang	728
365	X.233	Lower Trang River at Ban Sai Han , Trang	730
366	X.234	Lower Trang River at Ban Pa Mak, Trang	732
367	X.236	Lower Khlong Palian at Ban Yan Ta Khaow, Trang	734
368	X.239	Khlong Chalung at Ban Chalung Nuea , Satun	736
369	X.245	Khlong Phangnga at Ban Bang Tong, Phangnga	738
370	X.261	Upper Khlong Tha Prae at Ban Karakat, Satun	740
371	X.279	Khlong Duson at Ban Panjor, Satun	742
372	X.290A	Khlong Rong Hut at Ban Jed Tho , Ranong	744

LOCATION MAP OF HYDROLOGIC OBSERVATION STATIONS IN 2021 WATER YEAR

## SUSPENDED SEDIMENT STATIONS

			Page
<b><u>2. NORTH KHONG RIVER BASIN</u></b>			
1	G.8	Nam Mae Lao at Ban Ton Yang, Chiang Rai	748
2	G.9	Nam Mae Suai at Ban Kariang Thung Phrao, Chiang Rai	749
3	I.14	Nam Mae Ing at Ban Nam Ing, Chiang Rai	750
4	Kh.72	Nam Mae Kham at Ban Mae Kham Lak Chet, Chiang Rai	751
<b><u>3. NORTHEAST KHONG BASIN</u></b>			
5	Kh.18	Huai Mong at Ban Na Ang, Udon Thani	752
6	Kh.28A	Loei River at Ban Na Lak, Loei	753
7	Kh.53	Huai Luang at Ban Nong Wua So, Udon Thani	754
8	Kh.58A	Loei River at Ban Fak Loei, Loei	755
9	Kh.61	Loei River at Ban Keng Bong, Loei	756
10	Kh.74	Songkhram River at Ban Tha Huai Lua, Sakon Nakhon	757
11	Kh.90	Lam Nam Phung at Ban Tong Khop, Sakon Nakhon	758
12	Kh.91	Huai Chanot at Ban Khon Sawan, Nakhon Phanom	759
13	Kh.92	Huai Bang Sai at Ban Kan Luang Dong, Muk Dahan	760
14	Kh.93	Songkhram River at Ban Khok Kham Lai, Udon Thani	761
15	Kh.98	Songkhram River at Ban Tha Kok Daeng, Bueng Kan	762
16	Kh.103	Huai Luang at Ban Non Toom, Udon Thani	763
<b><u>4. CHI RIVER BASIN</u></b>			
17	E.22B	Lam Nam Phong at Ban Tha Mao, Khon Kaen	764
18	E.23	Chi River at Ban Khai, Chaiyaphum	765
19	E.32A	Chi River at Ban Nong O, Chiyaphum	766
20	E.54	Nam Yang at Ban Kaeng Yao, Kalasin	767
21	E.65	Lam Pao at Ban Tha Hai, Udon Thani	768
22	E.66A	Chi River at Ban Muang Lat, Roi Et	769
23	E.70	Lam Nam Yang at Ban Kut Kwang, Roi Et	770
24	E.72	Lam Chiang at Ban Chiang, Chaiyaphum	771
25	E.83	Lam Saphung at Ban Na Charoen, Chaiyaphum	772
26	E.84	Chi River at Ban Nang Dad Khok, Chaiyaphum	773
27	E.85	Lam Nam Choen at Ban Non Han, Khon Kaen	774

## XVII

28	E.87	Lam Pao at Ban Wang Hin , Kalasin	775
29	E.91	Chi River at Ban Don Khanuan, Maha Sarakham	776

### **5. MUN RIVER BASIN**

30	M.2A	Mun River at Ban Dan Taka, Nakhon Ratchasima	777
31	M.4	Mun River at Ban Phong Sawai, Surin	778
32	M.6A	Mun River at Ban Satuk, Buri Ram	779
33	M.7	Mun River at Ban Chumchondeengam, Ubon Ratchathani	780
34	M.9	Huai Samran at Ban Saphan Khao Community, Si Sa ket	781
35	M.11B	Mun River at Ban Pho Tak, Ubon Ratchathani	782
36	M.32	Lam Se Bai at Ban Chiang Pheng, Yasothon	783
37	M.42	Huai Thap Than at Ban Huai Thap Than, Si Sa Ket	784
38	M.43A	Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima	785
39	M.66	Huai Khayung at Ban Wang Chom Pu, Si Sa Ket	786
40	M.89	Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima	787
41	M.127	Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani	788
42	M.145	Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima	789
43	M.155	Huai La - ong at Ban Na Phu, Amnart Charoen	790
44	M.157	Huai Lam Phong at Ban Nikhom, Yasothon	791
45	M.159	Lam Chi at Ban Lum Din, Surin	792
46	M.170	Lam Dom Yai at Ban Kham Samran, Ubon Ratchathani	793
47	M.171	Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima	794
48	M.172	Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima	795
49	M.173	Mun River at Ban Non Sa - at, Nakhon Ratchasima	796
50	M.176	Huai Khayung at Ban Non Si Khlai, Si Sa Ket	797
51	M.179A	Lam Sa Bai at Ban Pa Kor, Ubon Ratchathani	798
52	M.183B	Huai Hin Lap at Ban Khlong Hin Lap, Nakhon Ratchasima	799
53	M.184	Mun River at Ban Cum, Nakhon Ratchasima	800
54	M.190	Huai Samran at Ban Khwaw, Si Sa Ket	801

### **6. PING RIVER BASIN**

55	P.1	Ping River at Nawarat Bridge, Chiang Mai	802
56	P.4A	Nam Mae Taeng at Ban Mae Taeng, Chiang Mai	803
57	P.5	Nam Mae Kuang at Tha Nang Bridge, Lamphun	804
58	P.17	Ping River at Ban Tha Ngiu, Nakhon Sawan	805

## XVIII

59	P.21	Nam Mae Rim at Ban Mae Rim Tai, Chiang Mai	806
60	P.56A	Nam Mae Ngat at Ban Sahakorn Romkiao, Chiang Mai	807
61	P.67	Ping River at Ban Mae Tae, Chiang Mai	808
62	P.73	Ping River at Ban Sop Soi, Chiang Mai	809
63	P.73A	Ping River at Ban Sop Pae , Chiang Mai	810
64	P.75	Ping River at Ban Cho Lae, Chiang Mai	811
65	P.76	Nam Mae Li at Ban Mae E - Hai, Lamphun	812
66	P.77	Nam Mae Tha at Ban Sop Mae Sapuad, Lamphun	813
67	P.78	Khlong Khlung at Ban Sam Ruean, Kamphaeng Phet	814
68	P.79	Nam Mae Kuang at Ban Mae Wan, Chiang Mai	815
69	P.80	Nam Mae Lai at Ban Pong Din, Chiang Mai	816
70	P.82	Nam Mae Wang at Ban Sop Win, Chiang Mai	817
71	P.84	Nam Mae Wang at Ban Phan Ton, Chiang Mai	818
72	P.92	Nam Mae Taeng at Ban Mueang Kud, Chiang Mai	819
73	P.92A	Nam Mae Taeng at Ban Huai Pa Cang, Chiang Mai	820

### 7. WANG RIVER BASIN

74	W.1C	Wang River at Setuwaree Bridge, Lampang	821
75	W.3A	Wang River at Ban Don Chai, Lampang	822
76	W.16A	Wang River at Ban Hai, Lampang	823
77	W.17	Nam Mae Soi at Ban Nong Nao, Lampang	824
78	W.23	Wang River at Ban Chiang Rai, Tak	825
79	W.24	Wang River at Ban Tha Phai, Tak	826
80	W.25	Wang River at Ban Rong Kho, Lampang	827

### 8. YOM RIVER BASIN

81	Y.1C	Yom River at Ban Nam Khong, Phrae	828
82	Y.3A	Yom River at Ban Wang Mai Khon, Sukhothai	829
83	Y.6	Yom River at Ban Kaeng Luang , Sukhothai	830
84	Y.14A	Yom River at Ban Don Rabiang, Sukhothai	831
85	Y.15	Yom River at Ban Kong, Sukhothai	832
86	Y.16	Yom River at Ban Bang Rakam, Phitsanulok	833
87	Y.20	Yom River at Ban Huai Sak, Phrae	834
88	Y.24	Nam Pi at Ban Mang, Phayao	835
89	Y.33	Yom River at Ban Khlong Tan, Sukhothai	836

## XIX

90	Y.37	Yom River at Ban Wang Chin, Phrae	837
91	Y.65	Nam Pi at Ban Phi Tai , Nan	838

### 9. NAN RIVER BASIN

92	N.1	Nan River at Forestry Office, Nan	839
93	N.2B	Nan River at Nai Mueang, Uttaradit	840
94	N.5A	Nan River at Mueang, Phitsanulok	841
95	N.7A	Nan River at Ban Rat Chang Khwan, Phichit	842
96	N.8	Nan River at Bang Mun Nak , Phichit	843
97	N.12A	Nan River at Ban Hat Phai, Uttaradit	844
98	N.24A	Khek River at Ban Wang Nok Aen, Phitsanulok	845
99	N.36	Nam Khwae Noi at Ban Nong Krathao, Phitsanulok	846
100	N.55	Nam Phak at Ban Tha Sakae, Phitsanulok	847
101	N.58	Nam Fua at Ban Kok Muang, Phitsanulok	848
102	N.59	Lam Nam Khan at Ban Na Pho Na Chan, Phitsanulok	849
103	N.64	Nan River at Ban Pha Khwang, Nan	850
104	N.65	Nam Yao at Ban Pang Sa, Nan	851
105	N.66	Huai Om Sing at Ban Noen Phoem, Phitsanulok	852
106	N.67	Nan River at Ban Koei Chai, Nakhon Sawan	853
107	N.72	Khlong Tron at Ban Wang Pla Kod , Uttaradit	854
108	N.73	Khek River at Ban Tan Tawan, Phetchabun	855
109	N.75	Nam Wa at Tha Li Bridge, Nan	856
110	N.81	Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok	857
111	N.84	Nam Pat at Ban Suan , Uttaradit	858

### 10. CHAO PHRAYA RIVER BASIN

112	C.2	Chao Phraya River at Khai Chira Prawat, Nakhon Sawan	859
113	C.3	Chao Phraya River at Ban Bang Phutsa, Sing Buri	860
114	C.7A	Chao Phraya River at Ban Bang Kaeo, Ang Thong	861
115	C.13	Chao Phraya River at Ban Bang Luang, Chai Nat	862
116	C.35	Chao Phraya River at Ban Pom, Phra Nakhon Si Ayutthaya	863

### 11. SAKAE KRANG RIVER BASIN

117	Ct.5A	Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet	864
118	Ct.8	Nam Mae Wong at Ban Khok Mo, Uthai Thani (Ct.8)	865
119	Ct.19	Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)	866

120 Ct.20 Lower Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20) 867

## **12. PASAK RIVER BASIN**

121 S.3 Pasak River at Ban Tan Dieo, Phetchabun 868

122 S.4B Pasak River at Mueang, Phetchabun 869

123 S.7A Lam Muak Lek at Ban Tharahad, Saraburi 870

124 S.9 Pasak River at Ban Pa, Saraburi 871

125 S.28 Pasak River at Ban Nong Bua, Lop Buri 872

126 S.33 Pasak River at Ban Tha Hi Yong, Phetchabun 873

127 S.42 Pasak River at Ban Bo Rang, Phetchabun 874

128 S.43 Pasak River at Ban Phun Sap , Lop Buri 875

## **13. THACHIN RIVER BASIN**

129 T.12A Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri 876

## **14. MAE KLONG RIVER BASIN**

130 K.12 Lam Ta Phoen at Ban Thung Na Nang Rok, Kanchanaburi 877

131 K.17 Lam Phachi at Ban Bo, Ratchaburi 878

132 K.25A Huai Tha Khoei at Ban Kha, Ratchaburi 879

133 K.31 Huai Mae Nam Noi at Ban Nam Chon, Kanchanaburi 880

134 K.32A Huai Bong Ti at Ban Bong Ti, Kanchanaburi 881

135 K.37 Khwae Noi River at Ban Wang Yen, Kanchanaburi 882

136 K.38A Huai Lin Thin at Ban Nong Bang, Kanchanaburi 883

137 K.39 Huai Ong Thi at Ban Ong Thi, Kanchanaburi 884

138 K.50A Huai Dinso at Ban Sahakorn Nikom , Kanchanaburi 885

139 K.54 Khwae Noi River at Ban Lin Thin, Kanchanaburi 886

140 K.60 Huai Kui Mang at Ban Kui Mang, Kanchanaburi 887

141 K.62 Lam Phachi at Ban Nong Phai, Kanchanaburi 888

## **15. BANG PAKONG RIVER BASIN**

142 Kgt.9 Khlong Phra Sathung at Ban Khao Chakan, Sa Kaeo 889

143 Kgt.12 Khlong Phra Prong at Ban Kaeng, Sa Kaeo 890

144 Kgt.13A Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri 891

145 Kgt.14 Khlong Yang at Ban Thung Faek, Prachin Buri 892

146 Kgt.42 Khlong Phra Sathung at Ban Tharapha, Sa Kaeo 893

147 Ny.3 Lower Khlong Ban Na at Ban Pa Kha, Nakhon Nayok 894

148 Ny.4 Khlong Samo Pun at Ban Noen Hom, Prachin Buri 895

149 Ny.6 Upper Khlong Ban Na at Ban Cha Om, Saraburi 896

#### **17. EAST COAST-GULF BASIN**

150 Z.10 Khlong Yai at Ban Si Bua Thong, Trat 897

151 Z.13 Chanthaburi River at Ban Puk, Chanthaburi 898

152 Z.14 Khlong Phayat at Ban Chaman, Chanthaburi 899

153 Z.18 Khlong Phlo at Ban Chamkho , Rayong 900

154 Z.21 Khlong Hin Dat at Ban Pong Rong Sen, Chanthaburi 901

155 Z.30 Khlong Sato at Ban Nong Bua, Trat 902

156 Z.45 Khlong Aeng at Ban Kho Lae, Trat 903

157 Z.63 Khlong Wang Suan Luang at Ban Pra Gad , Chanthaburi 904

158 Z.64 Chanthaburi River at Ban Tha Luang , Chanthaburi 905

#### **18. PHETCHABURI - PRACHUB KHIRI KHAN RIVER BASIN**

159 B.3A Phetchaburi River at Ban Song Phi Nong, Phetchaburi 906

160 B.6A Huai Mae Prachan at at Saphan Tha Kewiyn (Ban Wang Chan), Phetchaburi 907

161 B.9 Phetchaburi River at Ban Sarahed, Phetchaburi 908

162 B.10 Phetchaburi River at Ban Tha Yang, Phetchaburi 909

163 Gt.9 Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan 910

164 Gt.10 Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan 911

165 Gt.11 Khlong Yai at Ban Chang Laek, Prachuap Khiri Khan 912

166 Gt.18 Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan 913

#### **19. UPPER SOUTHERN PENINSULA EAST COAST**

167 X.36 Khlong Phum Duang at Ban Tha Khanon, Surat Thani 914

168 X.37A Tapi River at Ban Yan Din Daeng, Surat Thani 915

169 X.53A Khlong Chumphon at Ban Wang Phai, Chumphon 916

170 X.55 Khlong Tha Di at Ban Tha Yai, Nakhon Si Thammarat 917

171 X.70 Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat 918

172 X.158 Khlong Tha Taphao at Ban Wang Khrok, Chumphon 919

173 X.167 Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat 920

174 X.195 Tapi River at Ban Tha Pho, Nakhon Si Thammarat 921

175 X.198 Khlong Sin Pun at Ban Bang Rup, Surat Thani 922

176 X.212 Lower Khlong Lang Suan at Thanon Luk Suea , Chumphon 923

177 X.248 Khlong Rap Ro at Ban Hat Nai, Chumphon 924

178 X.258 Khlong I - Pan at Ban Mai , Surat Thani 925

**20. THALE SAP SONGKHLA BASIN**

179	X.67A	Khlong Rattaphum at Ban Nasithong, Songkhla	926
180	X.90	Khlong U - Taphao at Ban Bang Sala, Songkhla	927
181	X.109	Khlong Bang Kaeo at Ban Khuan In No Mo, Phutthalung	928
182	X.113	Khlong La Pang at Ban Thung Prap, Songkhla	929
183	X.170	Khlong Lam at Ban Khlong Lam, Phatthalung	930
184	X.174	Khlong Wa at Ban Khlong Wa, Songkhla	931
185	X.240	Upper Khlong Wat at Ban Hu Rae , Songkhla	932
186	X.267	Khlong Tha Cheat at Ban Mae Khree, Phatthalung	933
187	X.276	Upper Khlong Tha Nae at Ban Khao Pu, Phatthalung	934

**21. LOWER SOUTHERN PENINSULA EAST COAST**

188	X.40A	Pattani River at Ban Tha Sap, Yala	935
189	X.184	Sai Buri River at Ban Sa Ko , Narathiwat	936
190	X.274	Kolok River at Ban Bu Kae Ta, Narathiwat	937

**22. SOUTHERN PENINSULA WEST COAST**

191	X.56	Trang River at Ban Tha Pradu , Trang	938
192	X.110	Khlong Lamphu La at Ban Lamphu La , Trang	939
193	X.139A	Khlong Palian at Ban Palian Nai, Trang	940
194	X.148	Khlong Lam Lon at Ban U-Dai Tai , Satun	941
195	X.150	Khlong Langu at Ban Wang Pa Khian, Satun	942
196	X.187	Khlong Ta Kuaw Pa at Ban Hin Dan, Phangnga	943
197	X.191	Khlong Bang Yai at Satree Phuket school, Phuket	944
198	X.196	Khlong Kapong at Ban Tha Na , Phang Nga	945
199	X.205	Khlong La-Un at Ban La-Un Tai , Ranong	946
200	X.208A	Upper Khlong Kapoe at Ban Chaew Lueang , Ranong	947
201	X.228	Trang River at Ban Klang , Trang	948
202	X.236	Lower Khlong Palian at Ban Yan Ta Khaow, Trang	949
203	X.245	Khlong Phangnga at Ban Bang Tong, Phangnga	950
204	X.261	Upper Khlong Tha Prae at Ban Karakat, Satun	951
205	X.279	Khlong Duson at Ban Panjor, Satun	952
206	X.290A	Khlong Rong Hut at Ban Jed Tho , Ranong	953

**APPENDIX**

Flow Duration Curve for Daily Discharge ( 2012 - 2021 )

**HYDROLOGY OBSERVATION**



**Fig.1 Typical vertical staff gauge**



**Fig.2 Standard bench mark**



**Fig.3 Discharge Measurement by River Surveyor M9 ...etc.**



**Fig.4 Measuring Line**



**Fig.5 Hydrological Station Camp**



**Fig.6 Meteorological Field**



**Fig.7 Field survey of suspended sediment**



**Fig.8 Sediment Laboratory**

## HYDROLOGICAL YEAR BOOK PUBLICATION

\* \*\*\*\* \*\* \*\*\*\* \*

Introduction

Great Attempt has been made all along to expedite the engineering processing of the stream flow data to be ready for publication, and to translate the publication plan into implementation. Efforts from various working units as well as personnel concerned pulled together to drive this work into reality. Publication of stream flow data has begun since 1966. The first yearbook publication came out as Volume 8 for the 1965 water year. It presents records of stage and discharge of 113 gauging stations in 59 streams.

Definition of terms and abbreviations

Table for converting Metric Units to English Units is on page XXX Terms related to stream flow and other hydrologic data, as used in this report, are defined as follows:

CMS-day is the volume of water represented by a flow of 1 cubic meter per second for 24 hours. It is equivalent to 86,400 cubic meters, 0.0864 million cubic meter, or 3,050,784 cubic feet, or 70.07 acre-feet, and represents a runoff of 86.4 millimeters from 1 square kilometer.

Control designates of feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic meter per second (cms.) is the rate of stream discharge expressed in volume per a unit of time, One cubic meter per second is the rate of discharge representing a volume of 1 cubic meter passing a given point during 1 second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharge during a specific period.

Momentary peak discharge is the peak discharge at a particular instant of time, at least once a year.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from rainfall would normally drains by gravity into the stream above the specified point. Figures of drainage area given herein are determined from Royal Thai Survey Department AMS map with scale of 1 to 50,000, unless otherwise noted. They include all closed basins, or noncontributing areas, with in the area unless otherwise noted.

## XXIV

Gage height (G.H.) is the water surface elevation above some arbitrary gage datum to which, in most cases, referred the Mean Sea Level (M.S.L.) Ko Lak datum, otherwise the arbitrary assumed datum (A.D.) being used.

Gauging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. The term "Staff gauging station" is applied only those gauging stations where only a gage height record is observed at an installed staff gage. If a water stage recorder is also installed, such a gauging station is referred as recording gauging station. In case of discharge measurements being practiced, it is referred as stream flow calibration or rating station.

Million cubic meter (mcm.) is the volume of water expressed in millions of cubic meter.

One million cubic meter is the quantity of water required to cover 1 square kilometer to a depth of 1 meter and is equivalent to 811 acre-feet, or 408.6 cfs.-day, or 264.2 million gallons.

Runoff in mcm. shows the volume of approximately effective runoff from rainfall, passing a given point for a given period of time.

Annual runoff is the volume of approximately effective runoff from rainfall accumulated during the water year.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Rating tables giving the discharge for any gage height are prepared from stage-discharge relation curves or rating curves.

Water year is the 12-month period, April 1 through March 31, related to annual cycle of river flow during which the river begins to rise, reaching its flood stage and subsiding toward its cyclic minimum

The water year is designated by the calendar year in which it begins and which includes 3 of 12 months. Thus, the year began April 1, 1969 is called the "1969 water year".

### Order of listing of gauging data

In this format, gauging data are listed according to their code running number order. It has been found more convenient in locating the required data when the list is arranged in such manner. The station code name contains the letters standing for river name and number in running order according to the age of the station installed in that river. The station code, for example, for the Chao Phraya River at Wat Tha Hat installed in 1905 is C. 1, which is the first stream flow rating station ever built in this river.

Series of yearbook publications

The yearbook series in which the stream flow data had been published was issued as follows :

<u>Volume</u>	<u>Water Years</u>	<u>No. of station – years</u>	<u>Date of Issuance</u>
1	1912 – 1937	112	September 1976
2	1938 – 1947	103	September 1976
3	1948 – 1953	146	September 1976
4	1954 – 1956	178	September 1976
5	1957 – 1959	203	May 1974
6	1960 – 1962	213	October 1973
7	1963 – 1964	182	July 1969
8	1965	113	May 1967
9	1966	129	June 1975
10	1967	172	September 1976
11	1968	187	September 1976
12	1969	182	March 1979
13	1970	182	March 1979
14	1971	182	June 1979
15	1972	184	October 1979
16	1973	187	January 1980
17	1974	191	March 1980
18	1975	182	August 1980
19	1976	184	November 1980
20	1977	192	February 1981
21	1978	210	May 1982
22	1979	237	July 1981
23	1980	231	August 1982
24	1981	213	November 1983
25	1982	224	June 1986
26	1983	235	October 1986
27	1984	242	February 1988
28	1985	232	January 1989
29	1986	245	June 1989
30	1987	271	July 1990
31	1988	267	February 1990
32	1989	224	July 1991
33	1990	225	July 1992

## XXVI

<u>Volume</u>	<u>Water Years</u>	<u>No. of station – years</u>	<u>Date of Issuance</u>
34	1991	227	July 1993
35	1992	220	May 1994
36	1993	228	April 1995
37	1994	224	August 1996
38	1995	232	July 1997
39	1996	244	August 1998
40	1997	269	August 1999
41	1998	258	August 2000
42	1999	291	August 2001
43	2000	316	September 2002
44	2001	330	September 2003
45	2002	316	October 2004
46	2003	334	October 2005
47	2004	338	November 2006
48	2005	340	December 2007
49	2006	362	February 2009
50	2007	361	May 2010
51	2008	372	February 2011
52	2009	368	December 2012
53	2010	347	February 2013
54	2011	360	April 2013
55	2012	348	October 2013
56	2013	369	October 2014
57	2014	359	October 2015
58	2015	351	October 2017
59	2016	356	May 2018
60	2017	361	May 2019
61	2018	367	May 2020
62	2019	352	May 2021
63	2020	354	May 2022
64	2021	372	May 2023

The preparation of the manuscripts of the further Volume is in progress. It is expected that they would be issued in serial order in the very near future.

## STANDARD OF STREAMFLOW DATA PROCUREMENT

\*\*\*\*\* \*\* \*\*\*\*\*

### Network design

The location of stream gauging stations is primarily based upon the urgent need at various dam sites which is accessible. By the time of expansion of the network at later date, the area or basin of "blind spot" is put at first priority backing up by the following conditions:

- (a) Accessibility.
- (b) Geographical location.
- (c) Mean annual rainfall.
- (d) Vegetation cover determined from Army Map Service topographic map with 1:50,000 or 1:250,000 scale.
- (e) Basin soil type.
- (f) Type of surface rock.

### Field work

The minimum standard of basic hydrologic data for observations and measurements are equal to those recommended in the United Nations ECAFE Flood Control series No.6.

Water stage data are obtained by staff gage and by water stage recorder. Normally a vertical section staff gage is installed for manual observation with usual frequency of reading varies from 1 to 5 times of equal interval during the daytime. At some specific station where stream flow measurement camps are situated, the reading of water stage by night is also made, in addition, usually 1 to 3 times of equal interval. The standard bench mark is also established near the gage site. The 1.00 - m standard enameled staff gage section with 1 cm graduation are used with zero reading, in most cases, referred to Mean Sea Level (M.S.L.) Ko Lak datum, otherwise the assumed datum begin used. Few wire - weight gages are also adopted on highway bridges.

In some mountainous headwater area as well as in the estuary, additional installation of water stage recorder is made. A continuous record of water stage is obtained at such station. The German A. Ott type X has so far been adopted as our standard equipment. Some pneumatic recorder is also being used. Weekly visit to the gage for inspection and changing chart paper by the crew or gage observer is under practice.

At the stream flow gauging station, flow measurement by a current meter is periodically performed so that the calibration of stream section related to flow can be made through the development of stage - flow relationship or simply called " rating curve ". Two types of the stream flow gauging station are under operation: with and without crew camp. Those without crew camp are under moving team and are capable for flow measurements of several stations. Those with crew camp are subject to less accessibility.

## XXVIII

At station operated by a moving crew, at least twice a month during the monsoon period and once a month during the low flow period are expected for flow rating performance. The moving crew frequently fails to reach the stations while at their crest stages because of road damage and time available. At station with crew camp, daily rating performance may be expected, at least once whenever change of stage per day is over 30 centimeters. Fixed boat by cable way across the river is one of typical means of flow measurement by current meter for medium river, 100 m wide. Flow wider river, the boat is fixed in position by anchors.

The river cross section is requested to be made simultaneously during flow velocity measurement, so that shifting of the section could be determined. This request is lawful because there had been in the older day fashion of using cross section made during dry season for discharge computation.

The German A. Ott current meter has so far been adopted as standard equipment. The multiple - point method has been used as velocity measurement practice. At present the two - point method is carefully practiced.

### Office data processing

The standard techniques used overseas are adopted in processing the data. In fact the standard methods of U.S. Geological Survey and U.S. Department of Agriculture (for small streams) are adopted as general basis.

Development of rating curve - Yearly mean rating curve is generally used as a tool in determining the daily flow. Periodically developed rating is frequently used when dictated by the conditions, so that the shifting control could be eliminated or reduced. Zero flow elevation of the rating section is determined by trial and error method with logarithmic plotting of the rating curve. Extension of the logarithmic rating line is frequently used to determine the channel flow at the over bank flow stage. The over bank flow is assessed by either direct velocity measurement or slope - area method whenever applicable.

Determination of daily mean flow - Application of the adjusted daily mean gage height to rating table gives the corresponding daily mean discharge from which the monthly and the yearly mean discharges are computed. Shifting adjustment for observed gage height is made when necessary. Shifting design is made basing on flood stages and times, if any. Other adjustments such as back water, rise and fall of flood, etc., which necessitate the use of other parametric factors, are also made, if any.

At some gauging stations where rises and falls of floods are immediate, hourly basis of gage height application to the rating curve is used to determine daily mean discharge.

At stations where rises and falls of streams are gentle, gage height data are usually obtained by manual reading.

It has been found that application of 1 to 5 times average reading (for daytime) gives an error of daily mean flow not more than 15% for mountainous streams, less than 10% for larger valley streams and not more than 5% for lower deltaic streams. Most of mountainous and valley streams are under recording operation, only deltaic streams that daytime reading are still used.

## XXIX

The daily mean gage heights are obtained by arithmetic mean of the observed data available. Adjusted gage heights due to shifting, which are applicable to rating curve for daily mean flow computation, are practically made.

It is noted that the daily mean flow are mostly subject to upstream diversion. Headwater utilization of water by people diversions and state-owned diversions are expected in many river basins in this country. Consequently, the virgin flow is hardly determined. Daily mean values may be replaced by the monthly mean in the case of flow measured at tail waters of existing reservoirs.

Time basis used for daily mean flow is from midnight to midnight.

### Review of procedure for stream flow data processing.

Following are steps used for review the overall data before finalizing the process:

1) Checking of gage height data which are obtained either from staff gage or from water stage recorder, for the following cases:

a) Representability of daytime observation for the daily mean value, if the data are from staff gage reading.

b) Discrepancies of recording charts, if any.

c) Desirability of hourly-basis process for daily mean flow.

d) Datum's of gage observation and of the rating curve used.

e) Location of gage from which data are taken and location of gage at which the rating curve is developed.

2) Checking of availability and goodness of field measurement notes.

3) Checking of differential magnitude of gage height during discharge measurement as to which arithmetic average or weighted average is desirable.

4) Checking stability of rating curve used.

5) Review of shifting control sample and design shifting, if any.

6) Adjustment of backwater, flood wave, etc., by rate of change of falls as index, if any.

7) Overall review of daily mean flow data as an end product.

8) Checking consistency of runoff volume among those observed at the upstream and downstream stations, taking into account intervening diversions of flow, if any.

### Classification of stream flow data

The station description states the degree of accuracy of the records. "Excellent" indicates that, in general, the error in the daily records is believed to be less than 5 percent; "good", less than 10 percent; "fair", less than 15 percent; "poor", probably more than 15 percent.

#### Future plan for computerization

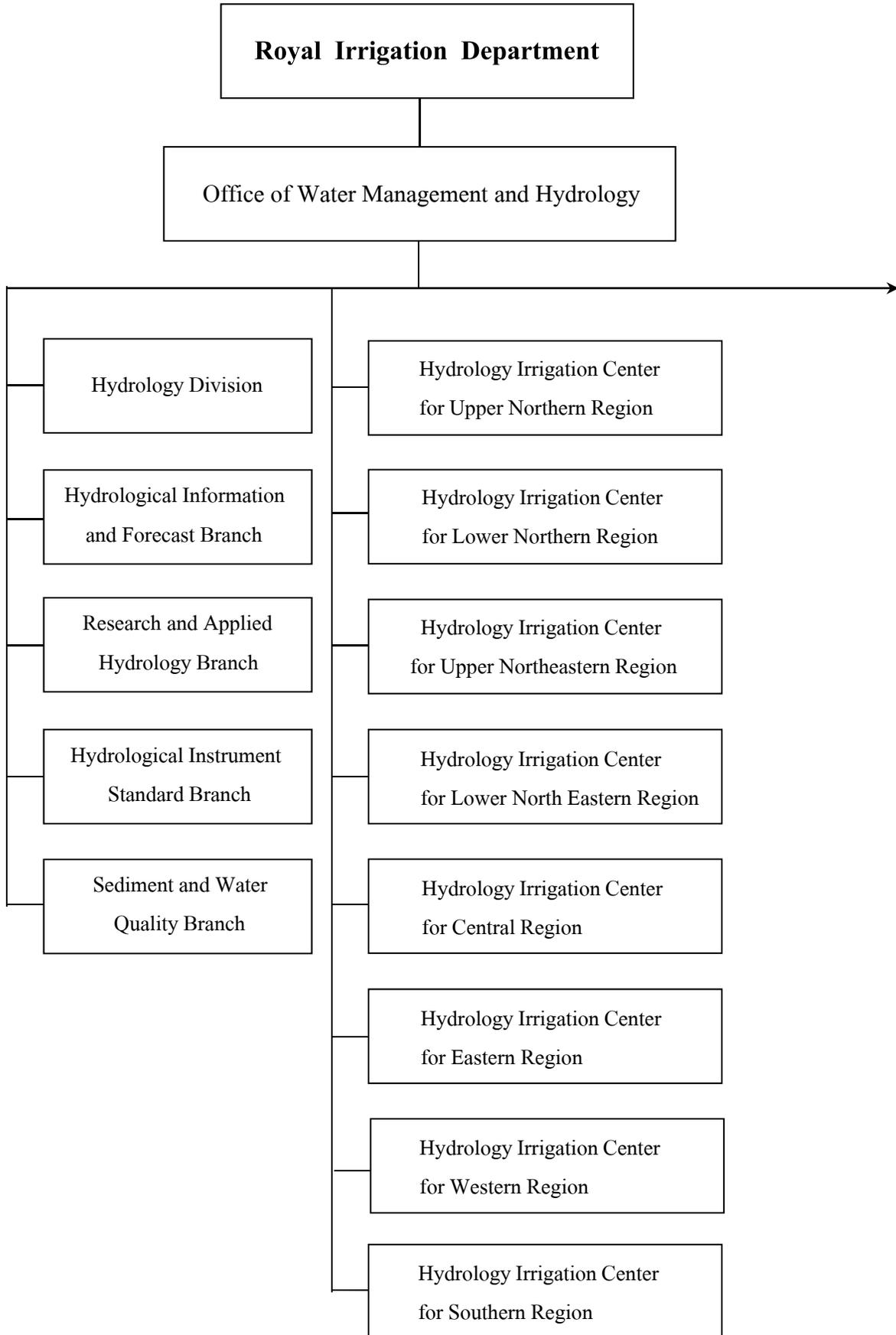
The Royal Irrigation Department (RID) has developed data system which include computerization of storage, Processing and retrieval of rainfall data since 1969. During the stream flow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement with the Asian Institute of Technology (AIT) to study on "Development of Water Resources Information System for Thailand". In the Contract AIT will recommend a standardized procedure to various agencies for collecting and recording hydrometeorological and hydrological data and develop a computer based data storage and retrieval system to process, store, analyze and publish the data furnished by various agencies involved in data collection.

The Water Resources Information System for Thailand (WRIST) package has been designed to provide permanent computer media storage of hydrometeorological and hydrological data in such a form that it can be readily added, to, altered or deleted and also called for analysis and presentation as required. The Indexed Sequential Method has been used for mass storage of the data and the processing and storing system have been designed taking into consideration the data processing schemes followed by the agencies, the probable frequency of retrieval expected and also the order or grouping of data elements differently for different agencies so that the system is best suited and efficient in operation for the current requirements and anticipated uses by the agencies in Thailand. The system will process and store data agency wise. The system is also designed to allow for the inclusion of additional data types if the need arise in the future. IBM 370/145 Computer facility at the AIT Bangkok will be used to develop the WRIST package. Operating programs will be written in ANS COBOL language independent of machine hardware to facilitate machine to machine transferability of the package for medium scale computers. The system has the data retrieval facility in the form of monthly and yearly publication agency wise; raw data and analysis data either in the form of computer printouts or in the direct accessible forms like cards of tapes controlled by basin, Sub-basin, region, station and data type. Data stored can also be available in the form of punched cards or punched card image on magnetic tapes so that they can be accessed by FORTRAN programs.

#### Organization

Stream flow data presented herein are from the hydrologic network operating by the Hydrology Division of the Royal Irrigation Department (RID). Field data collection and office data processing as well as yearbook publication are hydrologic activities undertaken by the Division.

The organization structure of the Division is diagrammatically shown below :-



## PARTICIPATION IN STREAM GAUGING WORKS

\* \* \* \* \*

Among 22 water related government agencies, several of them operate stream flow gauging works according to their own purposes. In early 1949 the Hydrology Section was established in the Survey Division of the Royal Irrigation Department. The Section is responsible for its activity in hydrology as prerequisite for water resources development. The activity includes:

(1) Procurement of basic hydrologic data including precipitation, stream flow, sediment, evaporation, etc.

(2) Analyses and research to produce the facts governing the behavior of water, their occurrences, circulation and distribution in its varied forms, their properties and their interaction with other allied factors.

(3) Application to water resources development and management, utilizing basic data and the facts disclosed by analyses and research.

Just one year after the beginning of water storage work, in 1953 there were only 49 discharge stations and 114 stage stations as operated by the Hydrology Section. In February 1975 the Section was separated from the Survey Division and was raised the status to be the Hydrology Division of the Royal Irrigation Department. The present network of stream gauging works contains 221 discharge stations of which 147 are currently operated and 74 are previously calibrated with continuous stage observation while 145 were abandoned, and 315 stage station are currently operated while 232 were abandoned.

After the onset of the Lower Mekong River Basin Development Scheme, the Hydrology Section was also established in the Investigation and Planning Division of the National Energy Administration which is a representative agency of Thai Government in the Lower Mekong Committee. During the period of November 1958 – May 1962, seven hydrologic stations were installed and operated by the Harza Engineering Company contracted by the Agency for International Development of the United States Government. At present the NEA operates about 90 discharge stations and 140 stage stations. A series of yearbooks has also been published.

The third agency which operates the stream gauging works is the Hydrometeorology Division of the Meteorological Department. With the technical and financial support from the World Meteorological Organization, this agency began the stream gauging works in 1967. Up till now, about 11 discharge stations and 32 stage stations are under operation. The stream gauging data are also included in their yearbook.

The last agency which operates the stream gauging works for the planning purpose is the Electricity Generating Authority of Thailand. They began to operate 15 discharge stations and 4 stage stations in 1971.

In addition, there are other agencies operating the stream gauging works for their own purposes such as watershed management and conservation program of the Royal Forestry Department. The Port Authority of Thailand carries on discharge measurement along the estuary of the Chao Phraya River for studying the sedimentation in the vicinity of the service area.

## UNITS OF MEASURE AND CONVERSION FACTORS

The following factors may be used to convert the metric and Thai unit published here in to the English units.

<u>Multiply metric or Thai units</u>	<u>By</u>	<u>To obtain English Unit</u>
<u>Length</u>		
millimeters (mm.)	.03973	inches (in)
meters (m.)	39.73	inches (in)
	3.2808	feet (ft)
	1.0936	yards (yd)
	.1988	rods
kilometers (km)	.6214	miles (mi)
<u>Area</u>		
square meters (m <sup>2</sup> )	10.76	square feet (ft <sup>2</sup> )
	1.196	square yards (yd <sup>2</sup> )
	2.47 x 10 <sup>-4</sup>	acres
rai (1,600 m <sup>2</sup> - Thai)	.3952	acres
hectares (ha)	2.4709	acres
square hectometers (hm <sup>2</sup> )	2.4709	acres
square kilometers (km <sup>2</sup> )	247.1	acres
	.3861	square miles (mi <sup>2</sup> )
<u>Volume</u>		
liters (l)	.2642	gallons (gal)
Cubic decimeters (dm <sup>3</sup> )	.2642	gallons (gal)
	.03531	cubic feet (ft <sup>3</sup> )
	264.2	gallons (gal)
cubic meters (m <sup>3</sup> )	2.642 x 10 <sup>-4</sup>	million gallons (10 <sup>6</sup> gal)
	35.31	cubic feet (ft <sup>3</sup> )
	4.086 x 10 <sup>-4</sup>	cfs - day (ft <sup>3</sup> / s - day)
	8.11 x 10 <sup>-4</sup>	acre - feet (acre - ft)
	264.2	million gallons (10 <sup>6</sup> gal)
cubic hectometers (hm <sup>3</sup> )	408.6	cfs - day (ft <sup>3</sup> / s - day)
	811	acre - feet (acre - ft)
	811	acre - feet (acre - ft)
million cubic meters (mcm)	811	acre - feet (acre - ft)
cubic kilometers (km <sup>3</sup> )	811 x 10 <sup>3</sup>	acre - feet (acre - ft)

XXXIV

<u>Multiply metric or Thai units</u>	<u>By</u>	<u>To obtain English Unit</u>
	<u>Flow</u>	
liters per second (l/s)	.03531	cubic feet per second (ft <sup>3</sup> / s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm <sup>3</sup> / s)	.03531	cubic feet per second (ft <sup>3</sup> / s)
	15.85	gallons per minute (gpm)
	22.82 x 10 <sup>-3</sup>	million gallons per day (mgd)
cubic meters per second (m <sup>3</sup> / s)	35.31	cubic feet per second (ft <sup>3</sup> / s)
	15,850	gallons per minute (gpm)
	22.82	million gallons per day (mgd)

\* \* \* \* \*

# Stream Gauging Data Water Year 2021

## WATER YEAR : 2021

## SALAWIN RIVER BASIN

Nam Mae Pai at Ban Tha Pong Daeng , Mae Hong Son (Sw.5A)

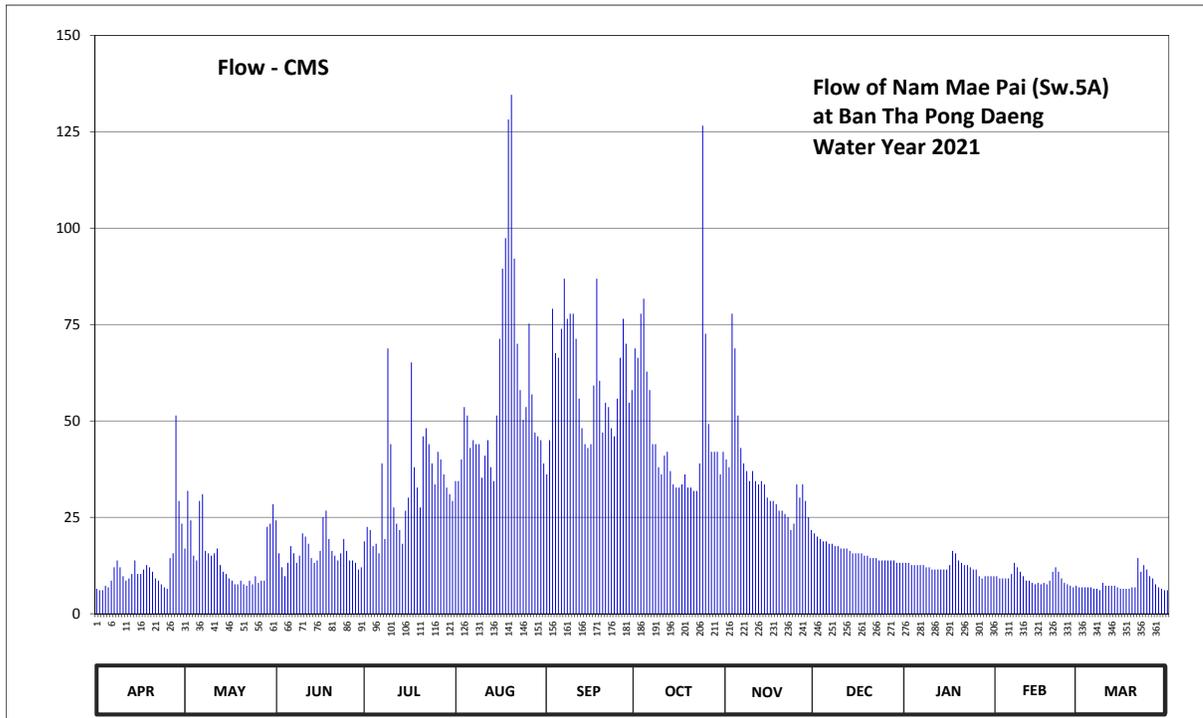
Lat 19 - 16 - 13 N Long 97 - 56 - 43 E

Location : on left bank at Ban Tha Pong Daeng.

	<b>Ban</b>	<b>Tha Pong Daeng</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Mae Hong Son</b>
<b>Drainage Area</b>	4,481	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+175.757 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the station office.				<b>Elevation</b>	+187.423 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1980 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 53 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.46	175.65	175.75	175.68	175.87	175.89	176.19	175.93	175.71	175.59	175.53	175.47	
2	175.45	175.84	175.63	175.73	175.87	175.98	176.17	175.91	175.70	175.59	175.52	175.47	
3	175.45	175.75	175.57	175.72	175.93	176.27	176.26	176.26	175.69	175.58	175.52	175.47	
4	175.48	175.62	175.53	175.66	176.06	176.18	176.29	176.19	175.68	175.58	175.52	175.47	
5	175.47	175.60	175.59	175.67	176.04	176.17	176.14	176.04	175.68	175.58	175.52	175.47	
6	175.51	175.81	175.66	175.63	175.96	176.23	176.10	175.96	175.67	175.58	175.54	175.46	
7	175.57	175.83	175.63	175.92	175.98	176.33	175.97	175.92	175.67	175.58	175.59	175.46	
8	175.60	175.64	175.59	175.69	175.97	176.25	175.97	175.90	175.66	175.57	175.57	175.45	
9	175.57	175.63	175.62	176.19	175.97	176.26	175.91	175.87	175.66	175.57	175.55	175.50	
10	175.53	175.62	175.71	175.97	175.88	176.26	175.89	175.90	175.65	175.56	175.53	175.48	
11	175.51	175.63	175.70	175.79	175.94	176.21	175.94	175.87	175.65	175.56	175.51	175.48	
12	175.52	175.65	175.67	175.74	175.98	176.08	175.95	175.86	175.65	175.56	175.51	175.48	
13	175.54	175.58	175.61	175.72	175.91	176.01	175.90	175.87	175.64	175.56	175.50	175.48	
14	175.60	175.55	175.59	175.67	175.87	175.97	175.86	175.86	175.63	175.56	175.49	175.47	
15	175.54	175.54	175.60	175.78	176.04	175.96	175.85	175.82	175.63	175.56	175.50	175.46	
16	175.54	175.52	175.64	175.82	176.21	175.97	175.85	175.81	175.63	175.58	175.49	175.46	
17	175.56	175.51	175.76	176.16	176.35	176.11	175.86	175.81	175.63	175.64	175.50	175.46	
18	175.58	175.49	175.78	175.91	176.41	176.33	175.89	175.80	175.62	175.63	175.49	175.46	
19	175.57	175.49	175.69	175.85	176.62	176.12	175.85	175.78	175.62	175.60	175.51	175.47	
20	175.55	175.51	175.64	175.79	176.66	176.00	175.85	175.78	175.61	175.59	175.55	175.47	
21	175.52	175.49	175.62	175.99	176.37	176.07	175.84	175.77	175.61	175.58	175.57	175.61	
22	175.51	175.48	175.60	176.01	176.20	176.06	175.84	175.76	175.61	175.58	175.55	175.55	
23	175.49	175.51	175.63	175.97	176.10	176.01	175.92	175.72	175.60	175.57	175.52	175.58	
24	175.47	175.49	175.69	175.92	176.03	175.99	176.61	175.74	175.60	175.56	175.50	175.56	
25	175.46	175.53	175.64	175.86	176.06	176.08	176.22	175.86	175.60	175.56	175.49	175.53	
26	175.61	175.50	175.60	175.95	176.24	176.17	176.02	175.82	175.60	175.53	175.48	175.52	
27	175.63	175.51	175.60	175.93	176.09	176.25	175.95	175.86	175.60	175.52	175.47	175.49	
28	176.04	175.51	175.59	175.89	176.00	176.20	175.95	175.81	175.60	175.53	175.48	175.47	
29	175.81	175.73	175.56	175.85	175.99	176.07	175.95	175.76	175.59	175.53		175.46	
30	175.74	175.74	175.57	175.83	175.98	176.10	175.89	175.72	175.59	175.53		175.45	
31		175.80		175.81	175.92		175.95		175.59	175.53		175.45	
Mean	175.56	175.60	175.64	175.84	176.08	176.12	175.99	175.87	175.63	175.57	175.52	175.49	
Max	176.04	175.84	175.78	176.19	176.66	176.33	176.61	176.26	175.71	175.64	175.59	175.61	176.66
Min	175.45	175.48	175.53	175.63	175.87	175.89	175.84	175.72	175.59	175.52	175.47	175.45	175.45
Annual Max Momentary Gage Height	176.86		m. (MSL.) ,				at 18.00 Hours ,						on Oct 24, 2021
Zero Gage at Bottom Elevation	175.76		m. (MSL.) ,			River Bed	174.82		m. (MSL.)				
Left Bank Elevation		183.88		m. (MSL.) ,									
Right Bank Elevation		181.49		m. (MSL.) ,		Drainage Are	4,481		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.48	16.90	24.20	18.76	34.42	36.14	68.80	40.00	20.84	13.22	9.74	6.86	
2	6.10	31.84	15.66	22.52	34.42	45.00	66.40	38.00	20.00	13.22	9.16	6.86	
3	6.10	24.20	12.06	21.68	40.00	79.10	77.80	77.80	19.38	12.64	9.16	6.86	
4	7.24	15.04	9.74	17.52	53.60	67.60	81.70	68.80	18.76	12.64	9.16	6.86	
5	6.86	13.80	13.22	18.14	51.40	66.40	62.80	51.40	18.76	12.64	9.16	6.86	
6	8.58	29.26	17.52	15.66	43.00	73.90	58.00	43.00	18.14	12.64	10.32	6.48	
7	12.06	30.98	15.66	39.00	45.00	86.90	44.00	39.00	18.14	12.64	13.22	6.48	
8	13.80	16.28	13.22	19.38	44.00	76.50	44.00	37.00	17.52	12.06	12.06	6.10	
9	12.06	15.66	15.04	68.80	44.00	77.80	38.00	34.42	17.52	12.06	10.90	8.00	
10	9.74	15.04	20.84	44.00	35.28	77.80	36.14	37.00	16.90	11.48	9.74	7.24	
11	8.58	15.66	20.00	27.56	41.00	71.30	41.00	34.42	16.90	11.48	8.58	7.24	
12	9.16	16.90	18.14	23.36	45.00	55.80	42.00	33.56	16.90	11.48	8.58	7.24	
13	10.32	12.64	14.42	21.68	38.00	48.10	37.00	34.42	16.28	11.48	8.00	7.24	
14	13.80	10.90	13.22	18.14	34.42	44.00	33.56	33.56	15.66	11.48	7.62	6.86	
15	10.32	10.32	13.80	26.72	51.40	43.00	32.70	30.12	15.66	11.48	8.00	6.48	
16	10.32	9.16	16.28	30.12	71.30	44.00	32.70	29.26	15.66	12.64	7.62	6.48	
17	11.48	8.58	25.04	65.20	89.50	59.20	33.56	29.26	15.66	16.28	8.00	6.48	
18	12.64	7.62	26.72	38.00	97.40	86.90	36.14	28.40	15.04	15.66	7.62	6.48	
19	12.06	7.62	19.38	32.70	128.20	60.40	32.70	26.72	15.04	13.80	8.58	6.86	
20	10.90	8.58	16.28	27.56	134.60	47.00	32.70	26.72	14.42	13.22	10.90	6.86	
21	9.16	7.62	15.04	46.00	92.10	54.70	31.84	25.88	14.42	12.64	12.06	14.42	
22	8.58	7.24	13.80	48.10	70.00	53.60	31.84	25.04	14.42	12.64	10.90	10.90	
23	7.62	8.58	15.66	44.00	58.00	48.10	39.00	21.68	13.80	12.06	9.16	12.64	
24	6.86	7.62	19.38	39.00	50.30	46.00	126.60	23.36	13.80	11.48	8.00	11.48	
25	6.48	9.74	16.28	33.56	53.60	55.80	72.60	33.56	13.80	11.48	7.62	9.74	
26	14.42	8.00	13.80	42.00	75.20	66.40	49.20	30.12	13.80	9.74	7.24	9.16	
27	15.66	8.58	13.80	40.00	56.90	76.50	42.00	33.56	13.80	9.16	6.86	7.62	
28	51.40	8.58	13.22	36.14	47.00	70.00	42.00	29.26	13.80	9.74	7.24	6.86	
29	29.26	22.52	11.48	32.70	46.00	54.70	42.00	25.04	13.22	9.74		6.48	
30	23.36	23.36	12.06	30.98	45.00	58.00	36.14	21.68	13.22	9.74		6.10	
31		28.40		29.26	39.00		42.00		13.22	9.74		6.10	
<b>Total</b>	371.40	457.22	484.96	1018.24	1789.04	1830.64	1486.92	1042.04	494.48	372.40	255.20	238.32	9840.86 CMSDAY
<b>Mean</b>	12.38	14.75	16.17	32.85	57.71	61.02	47.97	34.73	15.95	12.01	9.11	7.69	26.96 CMS
<b>Max</b>	51.40	31.84	26.72	68.80	134.60	86.90	126.60	77.80	20.84	16.28	13.22	14.42	134.60 CMS
<b>Min</b>	6.10	7.24	9.74	15.66	34.42	36.14	31.84	21.68	13.22	9.16	6.86	6.10	6.10 CMS
<b>Runoff</b>	32.09	39.50	41.90	87.98	154.57	158.17	128.47	90.03	42.72	32.18	22.05	20.59	850.25 MCM
<b>Momentary Peak</b>	168.80 CMS. at 176.86 m. (MSL.) at 18.00 Hours , on Oct 24, 2021												
<b>Runoff Yield</b>	6.02 Liters/Second/Square KM.			Momentary Peak Yield				37.67 Liters/Second/Square KM.					

## WATER YEAR : 2021

## SALAWIN RIVER BASIN

Huai Mae Lamao at Ban Mae Lamao , Tak (Sw.6)

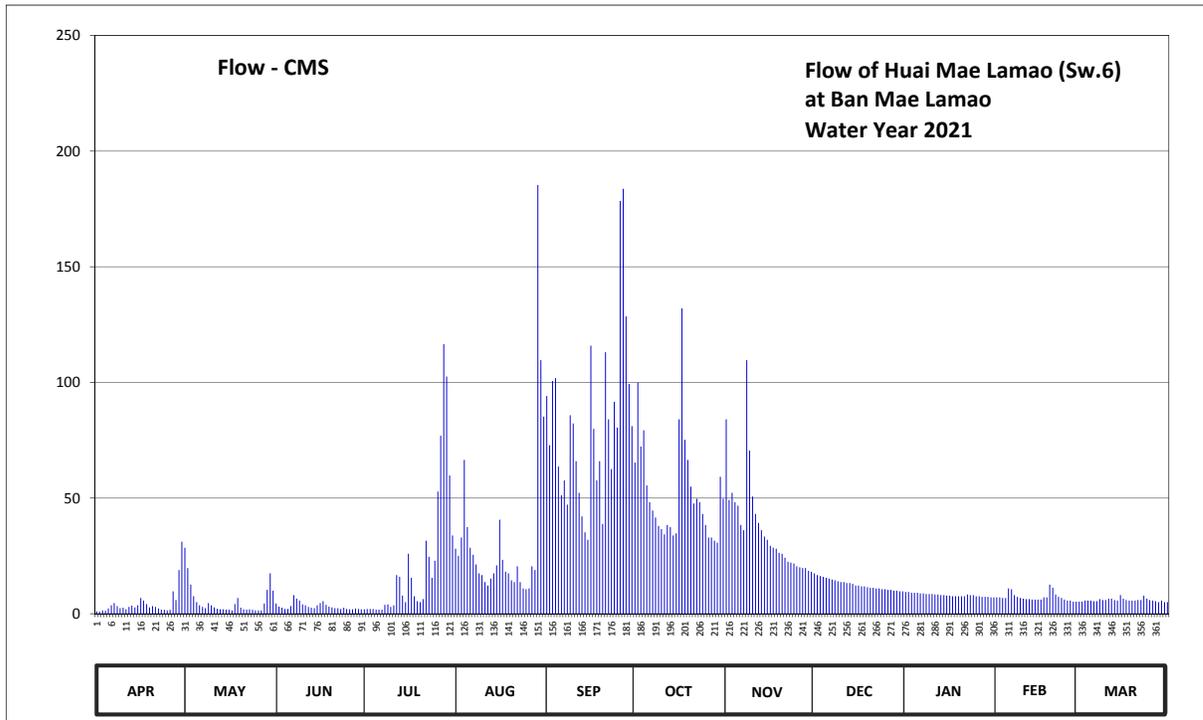
Lat 16 - 45 - 51 N Long 98 - 45 - 06 E

Location : on left bank downstream from the bridge on highway.

	Ban Mae Lamao	Amphoe Mae Sot	Changwat Tak
<b>Drainage Area</b>	994 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+268.470 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 6.25 meters from the automatic gage buiding.	<b>Elevation</b>	+278.846 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1971 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1971 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1971 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 5 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.58	269.52	268.81	268.66	269.51	270.74	270.26	270.58	269.25	269.02	268.93	268.85	
2	268.56	269.31	268.74	268.67	269.44	270.39	270.83	269.96	269.23	269.02	268.93	268.85	
3	268.62	269.12	268.71	268.67	269.62	270.84	270.38	270.02	269.22	269.01	268.92	268.87	
4	268.61	268.95	268.67	268.67	270.28	270.86	270.50	269.94	269.21	269.01	268.92	268.87	
5	268.69	268.84	268.67	268.65	269.72	270.23	270.08	269.91	269.20	269.01	269.07	268.87	
6	268.77	268.77	268.75	268.65	269.52	270.00	269.94	269.74	269.19	269.00	269.06	268.86	
7	268.82	268.73	268.97	268.65	269.45	270.12	269.87	269.69	269.18	269.00	268.97	268.86	
8	268.75	268.70	268.91	268.78	269.35	269.92	269.81	270.98	269.17	268.99	268.94	268.90	
9	268.70	268.82	268.87	268.79	269.25	270.61	269.73	270.35	269.16	268.99	268.92	268.88	
10	268.71	268.77	268.79	268.73	269.23	270.55	269.70	269.99	269.15	268.99	268.91	268.88	
11	268.66	268.72	268.77	268.77	269.15	270.27	269.65	269.84	269.15	268.98	268.90	268.91	
12	268.73	268.68	268.73	269.23	269.11	270.02	269.74	269.76	269.14	268.98	268.90	268.91	
13	268.76	268.66	268.71	269.21	269.19	269.82	269.72	269.69	269.14	268.97	268.89	268.88	
14	268.72	268.66	268.70	268.96	269.25	269.67	269.64	269.63	269.13	268.97	268.89	268.87	
15	268.77	268.65	268.77	268.84	269.34	269.60	269.66	269.60	269.11	268.96	268.89	268.97	
16	268.92	268.65	268.82	269.46	269.79	271.07	270.58	269.54	269.11	268.96	268.89	268.91	
17	268.87	268.62	268.86	269.20	269.40	270.51	271.30	269.52	269.10	268.95	268.93	268.88	
18	268.80	268.80	268.78	268.95	269.27	270.12	270.43	269.51	269.10	268.95	268.93	268.87	
19	268.72	268.92	268.74	268.86	269.25	270.27	270.28	269.47	269.09	268.95	269.12	268.87	
20	268.75	268.71	268.72	268.84	269.17	269.75	270.07	269.46	269.08	268.95	269.08	268.87	
21	268.73	268.66	268.70	268.90	269.15	271.03	269.93	269.42	269.08	268.95	268.98	268.88	
22	268.69	268.65	268.70	269.59	269.33	270.58	269.97	269.38	269.07	268.98	268.94	268.88	
23	268.65	268.66	268.67	269.43	269.15	270.21	269.94	269.37	269.07	268.97	268.92	268.96	
24	268.64	268.64	268.71	269.20	269.07	270.70	269.84	269.36	269.06	268.97	268.89	268.91	
25	268.62	268.62	268.67	269.39	269.06	270.52	269.74	269.33	269.06	268.95	268.87	268.88	
26	268.64	268.62	268.66	270.03	269.07	271.93	269.62	269.32	269.05	268.95	268.87	268.87	
27	269.03	268.62	268.66	270.46	269.33	272.00	269.62	269.31	269.05	268.94	268.85	268.86	
28	268.88	268.81	268.69	271.08	269.29	271.25	269.59	269.31	269.04	268.94	268.85	268.84	
29	269.29	269.05	268.67	270.87	272.02	270.82	269.57	269.28	269.04	268.94		268.87	
30	269.58	269.25	268.66	270.16	270.98	270.53	270.15	269.27	269.03	268.93		268.84	
31		269.04		269.64	270.60		269.97		269.03	268.93		268.84	
Mean	268.78	268.81	268.74	269.23	269.53	270.50	270.00	269.68	269.12	268.97	268.93	268.88	
Max	269.58	269.52	268.97	271.08	272.02	272.00	271.30	270.98	269.25	269.02	269.12	268.97	272.02
Min	268.56	268.62	268.66	268.65	269.06	269.60	269.57	269.27	269.03	268.93	268.85	268.84	268.56
Annual Max Momentary Gage Height	272.97												at 18.00 Hours , on Sep 26, 2021
Zero Gage at Bottom Elevation	268.47						268.40						m. (MSL.)
Left Bank Elevation		281.56											m. (MSL.)
Right Bank Elevation		281.34											m. (MSL.)
Drainage Area	994												Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.04	28.52	4.41	1.92	28.09	94.16	65.35	84.02	17.43	9.40	7.05	5.25		
2	0.88	19.70	3.12	2.04	25.04	72.83	99.94	49.18	16.68	9.40	7.05	5.25		
3	1.44	12.55	2.58	2.04	32.91	100.58	72.25	52.27	16.30	9.10	6.80	5.67		
4	1.32	7.55	2.04	2.04	66.50	101.87	79.30	48.17	15.93	9.10	6.80	5.67		
5	2.28	5.04	2.04	1.80	37.46	63.63	55.48	46.66	15.55	9.10	10.90	5.67		
6	3.66	3.66	3.30	1.80	28.52	51.20	48.17	38.37	15.18	8.80	10.60	5.46		
7	4.62	2.94	8.05	1.80	25.48	57.62	44.64	36.10	14.80	8.80	8.05	5.46		
8	3.30	2.40	6.55	3.84	21.30	47.16	41.61	109.61	14.43	8.55	7.30	6.30		
9	2.40	4.62	5.67	4.02	17.43	85.84	37.92	70.53	14.05	8.55	6.80	5.88		
10	2.58	3.66	4.02	2.94	16.68	82.25	36.55	50.70	13.68	8.55	6.55	5.88		
11	1.92	2.76	3.66	3.66	13.68	65.93	34.28	43.12	13.68	8.30	6.30	6.55		
12	2.94	2.16	2.94	16.68	12.18	52.27	38.37	39.28	13.30	8.30	6.30	6.55		
13	3.48	1.92	2.58	15.93	15.18	42.11	37.46	36.10	13.30	8.05	6.09	5.88		
14	2.76	1.92	2.40	7.80	17.43	35.19	33.82	33.37	12.93	8.05	6.09	5.67		
15	3.66	1.80	3.66	5.04	20.90	32.00	34.73	32.00	12.18	7.80	6.09	8.05		
16	6.80	1.80	4.62	25.91	40.65	115.84	84.02	29.39	12.18	7.80	6.09	6.55		
17	5.67	1.44	5.46	15.55	23.30	79.89	132.05	28.52	11.80	7.55	7.05	5.88		
18	4.20	4.20	3.84	7.55	18.18	57.62	75.17	28.09	11.80	7.55	7.05	5.67		
19	2.76	6.80	3.12	5.46	17.43	65.93	66.50	26.35	11.50	7.55	12.55	5.67		
20	3.30	2.58	2.76	5.04	14.43	38.83	54.95	25.91	11.20	7.55	11.20	5.67		
21	2.94	1.92	2.40	6.30	13.68	113.02	47.67	24.17	11.20	7.55	8.30	5.88		
22	2.28	1.80	2.40	31.57	20.50	84.02	49.69	22.50	10.90	8.30	7.30	5.88		
23	1.80	1.92	2.04	24.61	13.68	62.47	48.17	22.10	10.90	8.05	6.80	7.80		
24	1.68	1.68	2.58	15.55	10.90	91.60	43.12	21.70	10.60	8.05	6.09	6.55		
25	1.44	1.44	2.04	22.90	10.60	80.48	38.37	20.50	10.60	7.55	5.67	5.88		
26	1.68	1.44	1.92	52.81	10.90	178.42	32.91	20.10	10.30	7.55	5.67	5.67		
27	9.70	1.44	1.92	76.94	20.50	183.70	32.91	19.70	10.30	7.30	5.25	5.46		
28	5.88	4.41	2.28	116.54	18.93	128.53	31.57	19.70	10.00	7.30	5.25	5.04		
29	18.93	10.30	2.04	102.52	185.30	99.29	30.70	18.55	10.00	7.30		5.67		
30	31.13	17.43	1.92	59.76	109.61	81.07	59.23	18.18	9.70	7.05		5.04		
31		10.00		33.82	85.20		49.69		9.70	7.05		5.04		
<b>Total</b>	138.47	171.80	98.36	676.18	992.57	2445.35	1636.59	1114.94	392.10	250.90	203.04	182.54	8302.84	CMSDAY
<b>Mean</b>	4.62	5.54	3.28	21.81	32.02	81.51	52.79	37.16	12.65	8.09	7.25	5.89	22.75	CMS
<b>Max</b>	31.13	28.52	8.05	116.54	185.30	183.70	132.05	109.61	17.43	9.40	12.55	8.05	185.30	CMS
<b>Min</b>	0.88	1.44	1.92	1.80	10.60	32.00	30.70	18.18	9.70	7.05	5.25	5.04	0.88	CMS
<b>Runoff</b>	11.96	14.84	8.50	58.42	85.76	211.28	141.40	96.33	33.88	21.68	17.54	15.77	717.37	MCM
<b>Momentary Peak</b>	263.75 CMS. at 272.97 m. (MSL) at 18.00 Hours , on Sep 26, 2021													
<b>Runoff Yield</b>	22.54 Liters/Second/Square KM.			Momentary Peak Yield 261.40 Liters/Second/Square KM.										

## WATER YEAR : 2021

## NAM MAE KOK RIVER BASIN

## Nam Mae Kon at Ban Pang Rim Kon , Chiang Rai (G.4)

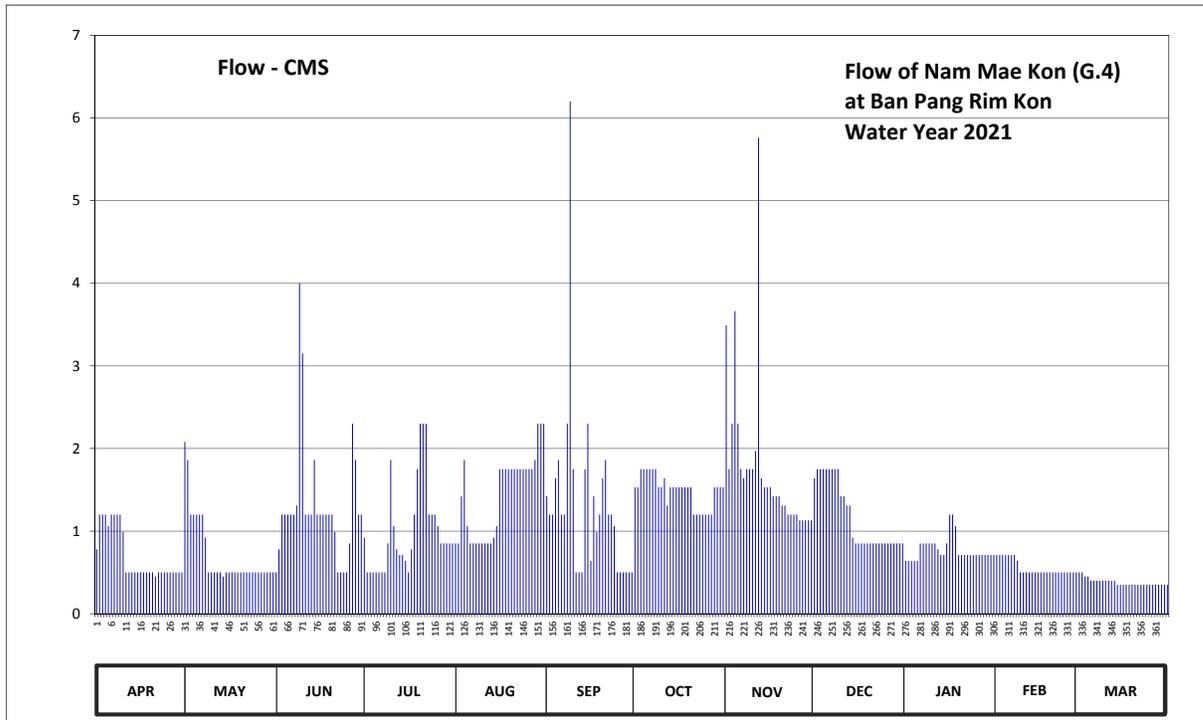
Lat 19 - 50 - 30 N Long 99 - 40 - 10 E

Location : on left bank at Ban Pang Rim Kon.

	Ban Pang Rim Kon	Amphoe Mueang	Changwat Chiang Rai
<b>Drainage Area</b>	49 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+461.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 66.50 meters from the top staff gage.	<b>Elevation</b>	+465.100 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2000 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2000 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.94	463.08	462.90	462.96	462.95	463.02	463.02	463.17	463.05	462.92	462.93	462.90	
2	463.00	463.06	462.94	462.90	462.95	463.00	463.03	463.05	463.05	462.92	462.93	462.90	
3	463.00	463.00	463.00	462.90	463.02	463.00	463.05	463.10	463.05	462.92	462.93	462.89	
4	463.00	463.00	463.00	462.90	463.06	463.04	463.05	463.18	463.05	462.92	462.93	462.89	
5	462.98	463.00	463.00	462.90	462.98	463.06	463.05	463.10	463.05	462.92	462.93	462.88	
6	463.00	463.00	463.00	462.90	462.95	463.00	463.05	463.05	463.05	462.95	462.93	462.88	
7	463.00	463.00	463.00	462.90	462.95	463.00	463.05	463.04	463.05	462.95	462.93	462.88	
8	463.00	462.96	463.01	462.90	462.95	463.10	463.05	463.05	463.05	462.95	462.92	462.88	
9	463.00	462.90	463.20	462.95	462.95	463.30	463.03	463.05	463.05	462.95	462.90	462.88	
10	462.97	462.90	463.15	463.06	462.95	463.05	463.03	463.05	463.02	462.95	462.90	462.88	
11	462.90	462.90	463.00	462.98	462.95	462.90	463.04	463.07	463.02	462.95	462.90	462.88	
12	462.90	462.90	463.00	462.94	462.95	462.90	463.01	463.28	463.01	462.94	462.90	462.88	
13	462.90	462.90	463.00	462.93	462.95	462.90	463.03	463.04	463.01	462.93	462.90	462.88	
14	462.90	462.89	463.06	462.93	462.96	463.05	463.03	463.03	462.96	462.93	462.90	462.87	
15	462.90	462.90	463.00	462.92	462.98	463.10	463.03	463.03	462.95	462.95	462.90	462.87	
16	462.90	462.90	463.00	462.90	463.05	462.92	463.03	463.03	462.95	463.00	462.90	462.87	
17	462.90	462.90	463.00	462.94	463.05	463.02	463.03	463.02	462.95	463.00	462.90	462.87	
18	462.90	462.90	463.00	463.00	463.05	462.97	463.03	463.02	462.95	462.98	462.90	462.87	
19	462.90	462.90	463.00	463.05	463.05	463.00	463.03	463.02	462.95	462.93	462.90	462.87	
20	462.90	462.90	463.00	463.10	463.05	463.04	463.03	463.01	462.95	462.93	462.90	462.87	
21	462.89	462.90	462.97	463.10	463.05	463.06	463.00	463.01	462.95	462.93	462.90	462.87	
22	462.90	462.90	462.90	463.10	463.05	463.00	463.00	463.00	462.95	462.93	462.90	462.87	
23	462.90	462.90	462.90	463.00	463.05	463.00	463.00	463.00	462.95	462.93	462.90	462.87	
24	462.90	462.90	462.90	463.00	463.05	462.98	463.00	463.00	462.95	462.93	462.90	462.87	
25	462.90	462.90	462.90	463.00	463.05	462.90	463.00	463.00	462.95	462.93	462.90	462.87	
26	462.90	462.90	462.95	462.98	463.05	462.90	463.00	462.99	462.95	462.93	462.90	462.87	
27	462.90	462.90	463.10	462.95	463.05	462.90	463.00	462.99	462.95	462.93	462.90	462.87	
28	462.90	462.90	463.06	462.95	463.06	462.90	463.03	462.99	462.95	462.93	462.90	462.87	
29	462.90	462.90	463.00	462.95	463.10	462.90	463.03	462.99	462.95	462.93	462.90	462.87	
30	462.90	462.90	463.00	462.95	463.10	462.90	463.03	462.99	462.95	462.93	462.90	462.87	
31		462.90		462.95	463.10		463.03		462.95	462.93		462.87	
Mean	462.93	462.93	463.00	462.96	463.01	462.99	463.03	463.05	462.99	462.94	462.91	462.88	
Max	463.00	463.08	463.20	463.10	463.10	463.30	463.05	463.28	463.05	463.00	462.93	462.90	463.30
Min	462.89	462.89	462.90	462.90	462.95	462.90	463.00	462.99	462.95	462.92	462.90	462.87	462.87
Annual Max Momentary Gage Height	463.50		m. (MSL.) ,				at 06.00 Hours ,	on Nov 12, 2021					
Zero Gage at Bottom Elevation	461.70		m. (MSL.) ,			River Bed	462.79	m. (MSL.)					
Left Bank Elevation	465.77		m. (MSL.) ,										
Right Bank Elevation	465.77		m. (MSL.) ,			Drainage Are	49	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.78	2.08	0.50	0.92	0.85	1.42	1.53	3.49	1.64	0.64	0.71	0.50	
2	1.20	1.86	0.78	0.50	0.85	1.20	1.53	1.75	1.75	0.64	0.71	0.50	
3	1.20	1.20	1.20	0.50	1.42	1.20	1.75	2.30	1.75	0.64	0.71	0.45	
4	1.20	1.20	1.20	0.50	1.86	1.64	1.75	3.66	1.75	0.64	0.71	0.45	
5	1.06	1.20	1.20	0.50	1.06	1.86	1.75	2.30	1.75	0.64	0.71	0.40	
6	1.20	1.20	1.20	0.50	0.85	1.20	1.75	1.75	1.75	0.85	0.71	0.40	
7	1.20	1.20	1.20	0.50	0.85	1.20	1.75	1.64	1.75	0.85	0.71	0.40	
8	1.20	0.92	1.31	0.50	0.85	2.30	1.75	1.75	1.75	0.85	0.64	0.40	
9	1.20	0.50	4.00	0.85	0.85	6.20	1.53	1.75	1.75	0.85	0.50	0.40	
10	0.99	0.50	3.15	1.86	0.85	1.75	1.53	1.75	1.42	0.85	0.50	0.40	
11	0.50	0.50	1.20	1.06	0.85	0.50	1.64	1.97	1.42	0.85	0.50	0.40	
12	0.50	0.50	1.20	0.78	0.85	0.50	1.31	5.76	1.31	0.78	0.50	0.40	
13	0.50	0.50	1.20	0.71	0.85	0.50	1.53	1.64	1.31	0.71	0.50	0.40	
14	0.50	0.45	1.86	0.71	0.92	1.75	1.53	1.53	0.92	0.71	0.50	0.35	
15	0.50	0.50	1.20	0.64	1.06	2.30	1.53	1.53	0.85	0.85	0.50	0.35	
16	0.50	0.50	1.20	0.50	1.75	0.64	1.53	1.53	0.85	1.20	0.50	0.35	
17	0.50	0.50	1.20	0.78	1.75	1.42	1.53	1.42	0.85	1.20	0.50	0.35	
18	0.50	0.50	1.20	1.20	1.75	0.99	1.53	1.42	0.85	1.06	0.50	0.35	
19	0.50	0.50	1.20	1.75	1.75	1.20	1.53	1.42	0.85	0.71	0.50	0.35	
20	0.50	0.50	1.20	2.30	1.75	1.64	1.53	1.31	0.85	0.71	0.50	0.35	
21	0.45	0.50	0.99	2.30	1.75	1.86	1.20	1.31	0.85	0.71	0.50	0.35	
22	0.50	0.50	0.50	2.30	1.75	1.20	1.20	1.20	0.85	0.71	0.50	0.35	
23	0.50	0.50	0.50	1.20	1.75	1.20	1.20	1.20	0.85	0.71	0.50	0.35	
24	0.50	0.50	0.50	1.20	1.75	1.06	1.20	1.20	0.85	0.71	0.50	0.35	
25	0.50	0.50	0.50	1.20	1.75	0.50	1.20	1.20	0.85	0.71	0.50	0.35	
26	0.50	0.50	0.85	1.06	1.75	0.50	1.20	1.13	0.85	0.71	0.50	0.35	
27	0.50	0.50	2.30	0.85	1.75	0.50	1.20	1.13	0.85	0.71	0.50	0.35	
28	0.50	0.50	1.86	0.85	1.86	0.50	1.53	1.13	0.85	0.71	0.50	0.35	
29	0.50	0.50	1.20	0.85	2.30	0.50	1.53	1.13	0.85	0.71	0.50	0.35	
30	0.50	0.50	1.20	0.85	2.30	0.50	1.53	1.13	0.85	0.71	0.50	0.35	
31	0.50	0.50	1.20	0.85	2.30	0.50	1.53	1.13	0.85	0.71	0.50	0.35	
<b>Total</b>	21.18	22.31	38.80	31.07	44.58	39.73	46.33	53.43	36.47	24.04	15.61	11.80	385.35 CMSDAY
<b>Mean</b>	0.71	0.72	1.29	1.00	1.44	1.32	1.49	1.78	1.18	0.78	0.56	0.38	1.06 CMS
<b>Max</b>	1.20	2.08	4.00	2.30	2.30	6.20	1.75	5.76	1.75	1.20	0.71	0.50	6.20 CMS
<b>Min</b>	0.45	0.45	0.50	0.50	0.85	0.50	1.20	1.13	0.85	0.64	0.50	0.35	0.35 CMS
<b>Runoff</b>	1.83	1.93	3.35	2.68	3.85	3.43	4.00	4.62	3.15	2.08	1.35	1.02	33.29 MCM
<b>Momentary Peak</b>	11.30	CMS. at 463.50 m. (MSL.) at 06.00 Hours , on Nov 12, 2021											
<b>Runoff Yield</b>	21.55	Liters/Second/Square KM.		Momentary Peak Yield		230.61	Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAM MAE KOK RIVER BASIN

Nam Mae Lao at Ban Ton Yang , Chiang Rai (G.8)

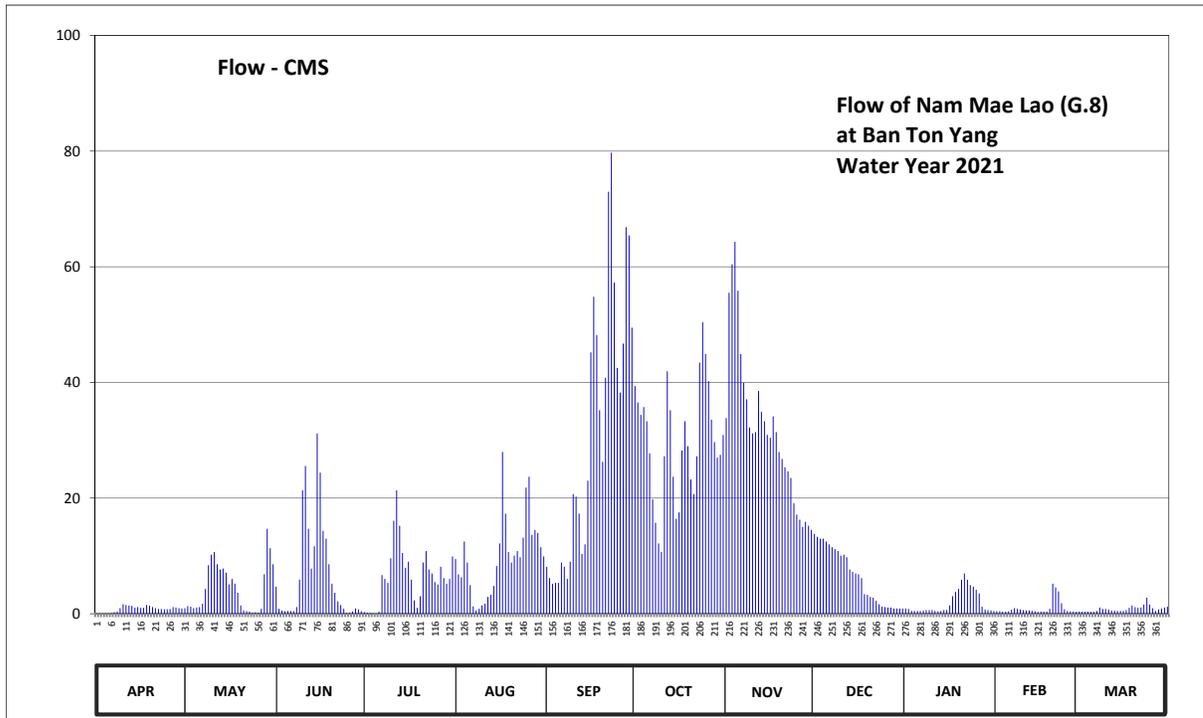
Lat 19 - 47 - 37 N Long 99 - 44 - 59 E

Location : on left bank at the bridge of Chiang Rai - Phayao Highway, Tambon Bua Sali.

	<b>Ban Ton Yang</b>	<b>Amphoe Mae Lao</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	2,943 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+405.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 8 meters from the top staff gage.	<b>Elevation</b>	+410.832 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Mae Lao weir situated about 10 kilometers above gage site. Stage-discharge relation defined by 47 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	404.49	404.81	405.19	404.63	405.53	405.44	406.89	406.69	405.80	404.80	404.68	404.66	
2	404.49	404.87	404.79	404.60	405.35	405.30	406.79	407.42	405.77	404.78	404.68	404.65	
3	404.48	404.85	404.71	404.56	405.31	405.23	406.71	407.56	405.75	404.70	404.65	404.65	
4	404.49	404.81	404.68	404.53	405.72	405.24	406.76	407.67	405.75	404.70	404.65	404.65	
5	404.50	404.83	404.69	404.50	405.49	405.24	406.67	407.43	405.72	404.70	404.67	404.64	
6	404.55	404.84	404.69	404.65	405.21	405.49	406.45	407.08	405.69	404.69	404.75	404.64	
7	404.62	404.93	404.68	405.34	404.86	405.44	406.11	406.91	405.66	404.71	404.81	404.69	
8	404.66	405.16	404.84	405.29	404.72	405.29	405.91	406.81	405.64	404.73	404.79	404.83	
9	404.81	405.46	405.28	405.24	404.79	405.50	405.70	406.63	405.62	404.73	404.75	404.78	
10	404.92	405.58	406.18	405.54	404.89	406.15	405.61	406.59	405.57	404.73	404.73	404.78	
11	404.90	405.61	406.36	405.93	404.93	406.13	406.43	406.60	405.58	404.70	404.72	404.75	
12	404.89	405.47	405.85	406.18	405.05	406.00	406.98	406.86	405.55	404.67	404.72	404.71	
13	404.88	405.41	405.42	405.88	405.08	405.59	406.74	406.73	405.41	404.69	404.70	404.71	
14	404.83	405.42	405.67	405.60	405.20	405.69	406.28	406.67	405.38	404.73	404.67	404.70	
15	404.84	405.37	406.59	405.43	405.45	406.25	405.95	406.58	405.36	404.73	404.64	404.70	
16	404.82	405.22	406.31	405.50	405.70	407.09	406.01	406.56	405.35	404.89	404.66	404.70	
17	404.82	405.29	405.83	405.28	406.46	407.40	406.47	406.70	405.30	405.06	404.66	404.73	
18	404.90	405.23	405.75	405.00	406.00	407.19	406.67	406.60	405.09	405.12	404.66	404.82	
19	404.88	405.11	405.47	404.82	405.61	406.74	406.50	406.46	405.08	405.16	404.79	404.89	
20	404.84	404.89	405.23	405.06	405.49	406.39	406.26	406.41	405.05	405.28	405.23	404.84	
21	404.81	404.72	405.11	405.49	405.57	406.94	406.15	406.35	405.04	405.36	405.18	404.82	
22	404.78	404.69	404.98	405.62	405.62	407.91	406.43	406.32	404.99	405.28	405.13	404.83	
23	404.78	404.66	404.90	405.41	405.55	408.09	407.03	406.27	404.92	405.21	404.94	404.91	
24	404.77	404.61	404.79	405.36	405.76	407.47	407.26	406.08	404.85	405.19	404.77	405.04	
25	404.77	404.62	404.57	405.25	406.20	407.00	407.08	405.99	404.84	405.15	404.70	404.91	
26	404.78	404.60	404.61	405.22	406.28	406.85	406.92	405.94	404.83	405.10	404.67	404.81	
27	404.84	404.79	404.66	405.44	405.79	407.14	406.68	405.87	404.83	404.85	404.67	404.69	
28	404.83	405.35	404.80	405.30	405.84	407.74	406.53	405.92	404.80	404.75	404.65	404.75	
29	404.81	405.85	404.76	405.23	405.81	407.70	406.42	405.88	404.80	404.73		404.80	
30	404.80	405.65	404.68	405.29	405.66	407.23	406.44	405.84	404.80	404.72		404.83	
31		405.47		405.56	405.56		406.58		404.80	404.69		404.85	
Mean	404.75	405.10	405.20	405.25	405.50	406.43	406.50	406.58	405.28	404.88	404.76	404.77	
Max	404.92	405.85	406.59	406.18	406.46	408.09	407.26	407.67	405.80	405.36	405.23	405.04	408.09
Min	404.48	404.60	404.57	404.50	404.72	405.23	405.61	405.84	404.80	404.67	404.64	404.64	404.48
Annual Max Momentary Gage Height	408.20		m. (MSL.) ,			at 06.00 Hours ,	on Sep 23, 2021						
Zero Gage at Bottom Elevation	405.10		m. (MSL.) ,			River Bed	403.78	m. (MSL.)					
Left Bank Elevation	410.61		m. (MSL.) ,										
Right Bank Elevation	410.59		m. (MSL.) ,			Drainage Are	2,943	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.96	4.67	0.29	9.45	8.10	39.37	33.83	13.80	0.90	0.44	0.38	
2	0.05	1.32	0.86	0.20	6.83	6.15	36.53	55.50	13.31	0.82	0.44	0.35	
3	0.04	1.20	0.54	0.14	6.29	5.21	34.37	60.40	12.98	0.50	0.35	0.35	
4	0.05	0.96	0.44	0.10	12.48	5.34	35.72	64.32	12.98	0.50	0.35	0.35	
5	0.05	1.08	0.47	0.05	8.85	5.34	33.29	55.85	12.48	0.50	0.41	0.32	
6	0.13	1.14	0.47	0.35	4.94	8.85	27.73	44.90	11.99	0.47	0.70	0.32	
7	0.26	1.74	0.44	6.69	1.26	8.10	19.78	39.94	11.49	0.54	0.96	0.47	
8	0.38	4.28	1.14	6.02	0.58	6.02	15.73	37.09	11.16	0.62	0.86	1.08	
9	0.96	8.40	5.88	5.34	0.86	9.00	12.15	32.21	10.83	0.62	0.70	0.82	
10	1.66	10.20	21.35	9.60	1.44	20.68	10.67	31.16	10.05	0.62	0.62	0.82	
11	1.50	10.67	25.56	16.08	1.74	20.23	27.24	31.40	10.20	0.50	0.58	0.70	
12	1.44	8.55	14.68	21.35	2.90	17.30	41.93	38.51	9.75	0.41	0.58	0.54	
13	1.38	7.65	7.80	15.20	3.26	10.35	35.18	34.91	7.65	0.47	0.50	0.54	
14	1.08	7.80	11.66	10.50	4.80	11.99	23.68	33.29	7.23	0.62	0.41	0.50	
15	1.14	7.10	31.16	7.95	8.25	22.98	16.43	30.91	6.96	0.62	0.32	0.50	
16	1.02	5.07	24.39	9.00	12.15	45.20	17.53	30.42	6.83	1.44	0.38	0.50	
17	1.02	6.02	14.33	5.88	27.97	54.80	28.22	34.10	6.15	3.02	0.38	0.62	
18	1.50	5.21	12.98	2.30	17.30	48.20	33.29	31.40	3.38	3.76	0.38	1.02	
19	1.38	3.63	8.55	1.02	10.67	35.18	28.95	27.97	3.26	4.28	0.86	1.44	
20	1.14	1.44	5.21	3.02	8.85	26.27	23.21	26.75	2.90	5.88	5.21	1.14	
21	0.96	0.58	3.63	8.85	10.05	40.79	20.68	25.33	2.78	6.96	4.54	1.02	
22	0.82	0.47	2.14	10.83	10.83	72.96	27.24	24.62	2.22	5.88	3.89	1.08	
23	0.82	0.38	1.50	7.65	9.75	79.71	43.40	23.45	1.66	4.94	1.82	1.58	
24	0.78	0.23	0.86	6.96	13.14	57.25	50.39	19.10	1.20	4.67	0.78	2.78	
25	0.78	0.26	0.16	5.48	21.80	42.50	44.90	17.13	1.14	4.15	0.50	1.58	
26	0.82	0.20	0.23	5.07	23.68	38.23	40.22	16.25	1.08	3.50	0.41	0.96	
27	1.14	0.86	0.38	8.10	13.64	46.70	33.56	15.03	1.08	1.20	0.41	0.47	
28	1.08	6.83	0.90	6.15	14.50	66.84	29.69	15.90	0.90	0.70	0.35	0.70	
29	0.96	14.68	0.74	5.21	13.98	65.40	26.99	15.20	0.90	0.62		0.90	
30	0.90	11.33	0.44	6.02	11.49	49.45	27.48	14.50	0.90	0.58		1.08	
31		8.55		9.90	9.90		30.91		0.90	0.47		1.20	
Total	25.29	138.79	203.56	201.30	303.63	935.12	916.46	961.37	200.14	60.76	28.13	26.11	4000.66 CMSDAY
Mean	0.84	4.48	6.79	6.49	9.79	31.17	29.56	32.05	6.46	1.96	1.00	0.84	10.96 CMS
Max	1.66	14.68	31.16	21.35	27.97	79.71	50.39	64.32	13.80	6.96	5.21	2.78	79.71 CMS
Min	0.04	0.20	0.16	0.05	0.58	5.21	10.67	14.50	0.90	0.41	0.32	0.32	0.04 CMS
Runoff	2.19	11.99	17.59	17.39	26.23	80.79	79.18	83.06	17.29	5.25	2.43	2.26	345.66 MCM
Momentary Peak	84.00	CMS. at 408.20 m. (MSL.) at 06.00 Hours , on Sep 23, 2021											
Runoff Yield	3.72	Liters/Second/Square KM.		Momentary Peak Yield		28.54	Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAM MAE KOK RIVER BASIN

## Nam Mae Suai at Ban Kariang Thung Phrao , Chiang Rai (G.9)

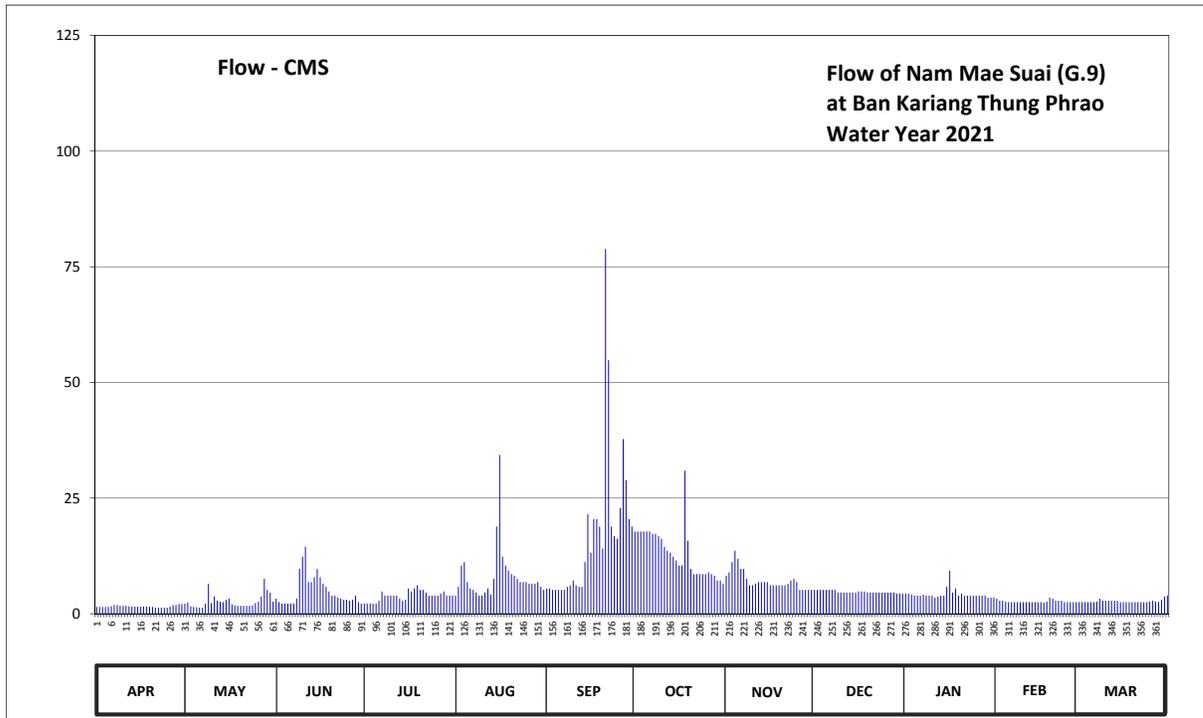
Lat 19 - 44 - 46 N Long 99 - 30 - 03 E

Location : on right bank at the bridge on road.

	<b>Ban</b>	Kariang Thung Phrao	<b>Amphoe</b>	Mae Suai	<b>Changwat</b>	Chiang Rai
<b>Drainage Area</b>	388	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+514.656 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 20 meters from the top staff gage.				<b>Elevation</b>	+522.091 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1998 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	515.48	515.56	515.63	515.56	515.66	515.72	516.03	515.80	515.71	515.68	515.63	515.59	
2	515.48	515.58	515.59	515.56	515.73	515.72	516.03	515.82	515.71	515.68	515.61	515.59	
3	515.48	515.50	515.56	515.56	515.86	515.71	516.03	515.88	515.71	515.67	515.61	515.59	
4	515.48	515.48	515.56	515.56	515.88	515.71	516.03	515.94	515.71	515.66	515.60	515.59	
5	515.48	515.47	515.56	515.56	515.76	515.71	516.03	515.90	515.71	515.66	515.59	515.59	
6	515.50	515.46	515.56	515.61	515.72	515.71	516.03	515.84	515.71	515.66	515.59	515.59	
7	515.53	515.46	515.56	515.70	515.71	515.71	516.02	515.84	515.71	515.67	515.59	515.60	
8	515.53	515.56	515.63	515.66	515.69	515.73	516.02	515.78	515.71	515.66	515.59	515.63	
9	515.51	515.75	515.84	515.66	515.66	515.74	516.01	515.74	515.69	515.66	515.59	515.61	
10	515.51	515.57	515.91	515.66	515.66	515.77	516.00	515.74	515.69	515.66	515.59	515.61	
11	515.51	515.65	515.96	515.66	515.69	515.74	515.96	515.75	515.69	515.64	515.59	515.61	
12	515.50	515.61	515.76	515.66	515.72	515.73	515.94	515.76	515.69	515.65	515.59	515.61	
13	515.49	515.60	515.76	515.63	515.67	515.73	515.93	515.76	515.69	515.66	515.59	515.61	
14	515.49	515.59	515.79	515.61	515.78	515.88	515.91	515.76	515.69	515.66	515.59	515.61	
15	515.49	515.62	515.84	515.62	516.05	516.10	515.89	515.76	515.69	515.73	515.59	515.59	
16	515.49	515.63	515.79	515.72	516.29	515.93	515.86	515.74	515.70	515.83	515.59	515.59	
17	515.49	515.54	515.75	515.70	515.91	516.08	515.86	515.74	515.70	515.69	515.58	515.59	
18	515.49	515.52	515.73	515.72	515.86	516.08	516.24	515.74	515.70	515.72	515.60	515.59	
19	515.49	515.51	515.70	515.74	515.83	516.05	515.99	515.74	515.69	515.66	515.64	515.59	
20	515.48	515.51	515.66	515.71	515.81	515.95	515.84	515.74	515.69	515.68	515.63	515.59	
21	515.46	515.51	515.66	515.71	515.80	516.85	515.81	515.74	515.69	515.66	515.61	515.59	
22	515.46	515.51	515.64	515.69	515.78	516.58	515.81	515.75	515.69	515.66	515.61	515.59	
23	515.46	515.51	515.63	515.66	515.76	516.05	515.81	515.77	515.69	515.66	515.61	515.59	
24	515.46	515.52	515.62	515.66	515.76	516.01	515.81	515.78	515.69	515.66	515.59	515.59	
25	515.46	515.57	515.62	515.66	515.76	516.00	515.81	515.76	515.69	515.66	515.59	515.60	
26	515.49	515.60	515.61	515.66	515.75	516.12	515.82	515.71	515.69	515.66	515.59	515.61	
27	515.53	515.65	515.62	515.68	515.75	516.34	515.81	515.71	515.69	515.66	515.59	515.60	
28	515.53	515.78	515.66	515.70	515.75	516.21	515.80	515.71	515.69	515.66	515.59	515.59	
29	515.55	515.71	515.59	515.66	515.76	516.08	515.77	515.71	515.68	515.64		515.62	
30	515.55	515.69	515.56	515.66	515.73	516.05	515.77	515.71	515.68	515.64		515.65	
31		515.60		515.66	515.71		515.75		515.68	515.64		515.66	
Mean	515.49	515.57	515.68	515.65	515.78	515.96	515.92	515.77	515.70	515.67	515.60	515.60	
Max	515.55	515.78	515.96	515.74	516.29	516.85	516.24	515.94	515.71	515.83	515.64	515.66	516.85
Min	515.46	515.46	515.56	515.56	515.66	515.71	515.75	515.71	515.68	515.64	515.58	515.59	515.46
Annual Max Momentary Gage Height	517.98		m. (MSL.) ,			at 24.00 Hours ,	on Sep 21, 2021						
Zero Gage at Bottom Elevation	514.66		m. (MSL.) ,			River Bed	515.17	m. (MSL.)					
Left Bank Elevation		521.61		m. (MSL.) ,									
Right Bank Elevation		521.61		m. (MSL.) ,		Drainage Are	388	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.46	2.20	3.26	2.20	3.92	5.48	17.79	8.20	5.14	4.36	3.26	2.50	
2	1.46	2.40	2.50	2.20	5.82	5.48	17.79	8.94	5.14	4.36	2.82	2.50	
3	1.46	1.60	2.20	2.20	10.42	5.14	17.79	11.16	5.14	4.14	2.82	2.50	
4	1.46	1.46	2.20	2.20	11.16	5.14	17.79	13.62	5.14	3.92	2.60	2.50	
5	1.46	1.39	2.20	2.20	6.84	5.14	17.79	11.90	5.14	3.92	2.50	2.50	
6	1.60	1.32	2.20	2.82	5.48	5.14	17.79	9.68	5.14	3.92	2.50	2.50	
7	1.90	1.32	2.20	4.80	5.14	5.14	17.26	9.68	5.14	4.14	2.50	2.60	
8	1.90	2.20	3.26	3.92	4.58	5.82	17.26	7.52	5.14	3.92	2.50	3.26	
9	1.70	6.50	9.68	3.92	3.92	6.16	16.73	6.16	4.58	3.92	2.50	2.82	
10	1.70	2.30	12.33	3.92	3.92	7.18	16.20	6.16	4.58	3.92	2.50	2.82	
11	1.70	3.70	14.48	3.92	4.58	6.16	14.48	6.50	4.58	3.48	2.50	2.82	
12	1.60	2.82	6.84	3.92	5.48	5.82	13.62	6.84	4.58	3.70	2.50	2.82	
13	1.53	2.60	6.84	3.26	4.14	5.82	13.19	6.84	4.58	3.92	2.50	2.82	
14	1.53	2.50	7.86	2.82	7.52	11.16	12.33	6.84	4.58	3.92	2.50	2.82	
15	1.53	3.04	9.68	3.04	18.85	21.50	11.53	6.84	4.58	5.82	2.50	2.50	
16	1.53	3.26	7.86	5.48	34.32	13.19	10.42	6.16	4.80	9.31	2.50	2.50	
17	1.53	2.00	6.50	4.80	12.33	20.44	10.42	6.16	4.80	4.58	2.40	2.50	
18	1.53	1.80	5.82	5.48	10.42	20.44	30.92	6.16	4.80	5.48	2.60	2.50	
19	1.53	1.70	4.80	6.16	9.31	18.85	15.77	6.16	4.58	3.92	3.48	2.50	
20	1.46	1.70	3.92	5.14	8.57	14.05	9.68	6.16	4.58	4.36	3.26	2.50	
21	1.32	1.70	3.92	5.14	8.20	78.85	8.57	6.16	4.58	3.92	2.82	2.50	
22	1.32	1.70	3.48	4.58	7.52	54.82	8.57	6.50	4.58	3.92	2.82	2.50	
23	1.32	1.70	3.26	3.92	6.84	18.85	8.57	7.18	4.58	3.92	2.82	2.50	
24	1.32	1.80	3.04	3.92	6.84	16.73	8.57	7.52	4.58	3.92	2.50	2.50	
25	1.32	2.30	3.04	3.92	6.84	16.20	8.57	6.84	4.58	3.92	2.50	2.60	
26	1.53	2.60	2.82	3.92	6.50	22.84	8.94	5.14	4.58	3.92	2.50	2.82	
27	1.90	3.70	3.04	4.36	6.50	37.76	8.57	5.14	4.58	3.92	2.50	2.60	
28	1.90	7.52	3.92	4.80	6.50	28.88	8.20	5.14	4.58	3.92	2.50	2.50	
29	2.10	5.14	2.50	3.92	6.84	20.44	7.18	5.14	4.36	3.48		3.04	
30	2.10	4.58	2.20	3.92	5.82	18.85	7.18	5.14	4.36	3.48		3.70	
31		2.60		3.92	5.14		6.50		4.36	3.48		3.92	
<b>Total</b>	47.70	83.15	147.85	120.72	250.26	507.47	405.97	217.58	146.46	130.81	74.20	83.96	2216.13 CMSDAY
<b>Mean</b>	1.59	2.68	4.93	3.89	8.07	16.92	13.10	7.25	4.72	4.22	2.65	2.71	6.07 CMS
<b>Max</b>	2.10	7.52	14.48	6.16	34.32	78.85	30.92	13.62	5.14	9.31	3.48	3.92	78.85 CMS
<b>Min</b>	1.32	1.32	2.20	2.20	3.92	5.14	6.50	5.14	4.36	3.48	2.40	2.50	1.32 CMS
<b>Runoff</b>	4.12	7.18	12.77	10.43	21.62	43.85	35.08	18.80	12.65	11.30	6.41	7.25	191.47 MCM
<b>Momentary Peak</b>	206.50	CMS. at 517.98 m. (MSL.) at 24.00 Hours , on Sep 21, 2021											
<b>Runoff Yield</b>	15.65	Liters/Second/Square KM. Momentary Peak Yield 532.22 Liters/Second/Square KM.											

## WATER YEAR : 2021

## NAM MAE KOK RIVER BASIN

Nam Mae Lao at Ban Pong Poo Fuang , Chiang Rai (G.10)

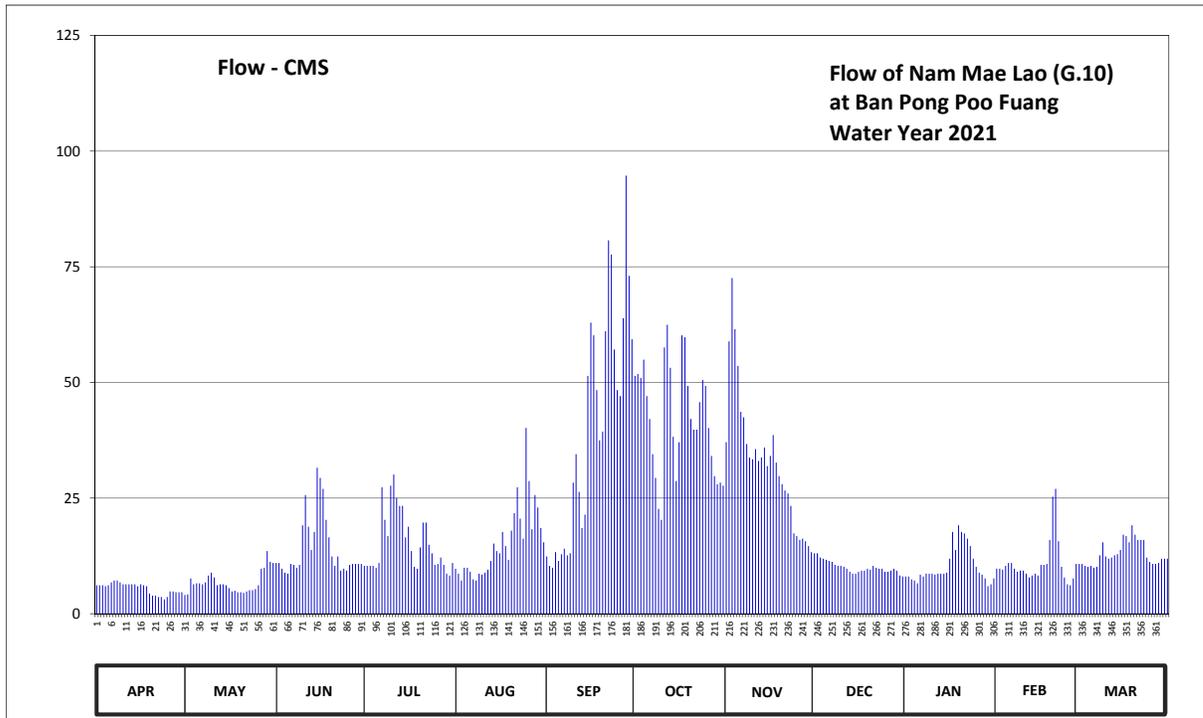
Lat 19 - 42 - 45 N Long 99 - 37 - 15 E

Location : on right bank at Ban Pong Poo Fuang.

	<b>Ban Pong Poo Fuang</b>	<b>Amphoe Mae Suai</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	2,618 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+433.473 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.		<b>Elevation</b> +439.133 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	433.35	433.23	433.58	433.55	433.52	433.64	434.77	434.42	433.67	433.44	433.52	433.57	
2	433.35	433.24	433.58	433.55	433.47	433.55	434.78	434.94	433.67	433.44	433.52	433.57	
3	433.35	433.42	433.52	433.55	433.40	433.53	434.76	435.23	433.63	433.41	433.51	433.55	
4	433.34	433.36	433.48	433.55	433.53	433.68	434.85	435.00	433.62	433.40	433.55	433.54	
5	433.35	433.37	433.47	433.53	433.53	433.60	434.67	434.82	433.61	433.37	433.58	433.55	
6	433.38	433.37	433.57	433.58	433.49	433.66	434.55	434.59	433.60	433.46	433.58	433.53	
7	433.40	433.36	433.56	434.15	433.41	433.71	434.35	434.56	433.59	433.44	433.52	433.54	
8	433.40	433.38	433.53	433.93	433.40	433.65	434.21	434.41	433.56	433.47	433.49	433.65	
9	433.38	433.45	433.56	433.81	433.47	433.67	434.01	434.33	433.55	433.47	433.50	433.76	
10	433.36	433.48	433.89	434.16	433.46	434.18	433.93	434.32	433.55	433.47	433.50	433.64	
11	433.36	433.43	434.10	434.23	433.48	434.35	434.91	434.38	433.54	433.46	433.47	433.62	
12	433.36	433.35	433.88	434.08	433.51	434.12	435.02	434.31	433.52	433.47	433.43	433.63	
13	433.36	433.36	433.70	434.03	433.60	433.87	434.81	434.33	433.49	433.47	433.45	433.65	
14	433.36	433.36	433.84	434.03	433.75	433.97	434.45	434.39	433.47	433.47	433.47	433.66	
15	433.34	433.35	434.27	433.80	433.69	434.77	434.19	434.28	433.47	433.48	433.45	433.70	
16	433.36	433.32	434.21	433.88	433.67	435.03	434.42	434.34	433.49	433.62	433.56	433.82	
17	433.35	433.28	434.14	433.69	433.84	434.97	434.97	434.46	433.50	433.84	433.56	433.81	
18	433.34	433.29	433.93	433.54	433.73	434.70	434.96	434.30	433.50	433.70	433.57	433.76	
19	433.25	433.27	433.80	433.52	433.61	434.43	434.72	434.22	433.52	433.89	433.78	433.89	
20	433.22	433.27	433.64	433.72	433.85	434.48	434.55	434.17	433.51	433.84	434.09	433.82	
21	433.22	433.26	433.55	433.91	433.98	434.99	434.49	434.13	433.55	433.83	434.14	433.78	
22	433.20	433.28	433.64	433.91	434.15	435.39	434.49	434.11	433.53	433.79	433.77	433.78	
23	433.20	433.30	433.50	433.74	433.94	435.33	434.64	434.03	433.52	433.73	433.54	433.78	
24	433.16	433.30	433.52	433.67	433.79	434.90	434.75	433.83	433.52	433.62	433.43	433.63	
25	433.20	433.31	433.50	433.56	434.50	434.70	434.72	433.81	433.49	433.54	433.36	433.59	
26	433.28	433.35	433.56	433.57	434.19	434.67	434.50	433.78	433.49	433.48	433.35	433.57	
27	433.28	433.52	433.57	433.63	433.86	435.05	434.34	433.79	433.50	433.46	433.42	433.57	
28	433.27	433.53	433.57	433.56	434.10	435.65	434.22	433.77	433.52	433.42	433.57	433.58	
29	433.27	433.69	433.57	433.47	434.02	435.24	434.17	433.73	433.50	433.34		433.62	
30	433.27	433.59	433.57	433.45	433.87	434.95	434.18	433.68	433.45	433.36		433.62	
31		433.58		433.58	433.76		434.16		433.44	433.42		433.62	
Mean	433.31	433.38	433.69	433.74	433.73	434.41	434.53	434.28	433.53	433.54	433.56	433.66	
Max	433.40	433.69	434.27	434.23	434.50	435.65	435.02	435.23	433.67	433.89	434.14	433.89	435.65
Min	433.16	433.23	433.47	433.45	433.40	433.53	433.93	433.68	433.44	433.34	433.35	433.53	433.16
Annual Max Momentary Gage Height	435.81		m. (MSL.) ,				at 09.00 Hours ,						on Sep 28, 2021
Zero Gage at Bottom Elevation	433.47		m. (MSL.) ,			River Bed	432.52		m. (MSL.)				
Left Bank Elevation		438.91		m. (MSL.) ,									
Right Bank Elevation		438.92		m. (MSL.) ,		Drainage Are	2,618		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.15	4.05	10.98	10.35	9.72	12.36	51.40	37.07	13.08	8.04	9.72	10.77	
2	6.15	4.20	10.98	10.35	8.67	10.35	51.83	58.86	13.08	8.04	9.72	10.77	
3	6.15	7.62	9.72	10.35	7.20	9.93	50.96	72.53	12.12	7.41	9.51	10.35	
4	5.94	6.36	8.88	10.35	9.93	13.32	54.90	61.50	11.88	7.20	10.35	10.14	
5	6.15	6.57	8.67	9.93	9.93	11.40	47.05	53.58	11.64	6.57	10.98	10.35	
6	6.78	6.57	10.77	10.98	9.09	12.84	42.08	43.62	11.40	8.46	10.98	9.93	
7	7.20	6.36	10.56	27.33	7.41	14.07	34.48	42.46	11.19	8.04	9.72	10.14	
8	7.20	6.78	9.93	20.27	7.20	12.60	29.37	36.69	10.56	8.67	9.09	12.60	
9	6.78	8.25	10.56	16.79	8.67	13.08	22.64	33.75	10.35	8.67	9.30	15.42	
10	6.36	8.88	19.11	27.66	8.46	28.33	20.27	33.38	10.35	8.67	9.30	12.36	
11	6.36	7.83	25.65	30.10	8.88	34.48	57.54	35.57	10.14	8.46	8.67	11.88	
12	6.36	6.15	18.82	24.98	9.51	26.32	62.45	33.02	9.72	8.67	7.83	12.12	
13	6.36	6.36	13.80	23.31	11.40	18.53	53.14	33.75	9.09	8.67	8.25	12.60	
14	6.36	6.36	17.66	23.31	15.15	21.43	38.23	35.94	8.67	8.67	8.67	12.84	
15	5.94	6.15	31.56	16.50	13.56	51.40	28.67	31.92	8.67	8.88	8.25	13.80	
16	6.36	5.52	29.37	18.82	13.08	62.93	37.07	34.11	9.09	11.88	10.56	17.08	
17	6.15	4.80	26.99	13.56	17.66	60.18	60.18	38.61	9.30	17.66	10.56	16.79	
18	5.94	4.95	20.27	10.14	14.61	48.35	59.74	32.65	9.30	13.80	10.77	15.42	
19	4.35	4.65	16.50	9.72	11.64	37.46	49.22	29.73	9.72	19.11	15.96	19.11	
20	3.90	4.65	12.36	14.34	17.95	39.38	42.08	28.00	9.51	17.66	25.32	17.08	
21	3.90	4.50	10.35	19.69	21.72	61.06	39.77	26.66	10.35	17.37	26.99	15.96	
22	3.60	4.80	12.36	19.69	27.33	80.69	39.77	25.99	9.93	16.23	15.69	15.96	
23	3.60	5.10	9.30	14.88	20.56	77.63	45.74	23.31	9.72	14.61	10.14	15.96	
24	3.08	5.10	9.72	13.08	16.23	57.10	50.53	17.37	9.72	11.88	7.83	12.12	
25	3.60	5.31	9.30	10.56	40.15	48.35	49.22	16.79	9.09	10.14	6.36	11.19	
26	4.80	6.15	10.56	10.77	28.67	47.05	40.15	15.96	9.09	8.88	6.15	10.77	
27	4.80	9.72	10.77	12.12	18.24	63.88	34.11	16.23	9.30	8.46	7.62	10.77	
28	4.65	9.93	10.77	10.56	25.65	94.70	29.73	15.69	9.72	7.62	10.77	10.98	
29	4.65	13.56	10.77	8.67	22.97	73.04	28.00	14.61	9.30	5.94		11.88	
30	4.65	11.19	10.77	8.25	18.53	59.30	28.33	13.32	8.25	6.36		11.88	
31		10.98		10.98	15.42		27.66		8.04	7.62		11.88	
Total	164.27	209.40	427.81	478.39	475.19	1201.54	1306.31	992.67	311.37	318.34	305.06	400.90	6591.25 CMSDAY
Mean	5.48	6.75	14.26	15.43	15.33	40.05	42.14	33.09	10.04	10.27	10.89	12.93	18.06 CMS
Max	7.20	13.56	31.56	30.10	40.15	94.70	62.45	72.53	13.08	19.11	26.99	19.11	94.70 CMS
Min	3.08	4.05	8.67	8.25	7.20	9.93	20.27	13.32	8.04	5.94	6.15	9.93	3.08 CMS
Runoff	14.19	18.09	36.96	41.33	41.06	103.81	112.87	85.77	26.90	27.50	26.36	34.64	569.48 MCM
Momentary Peak		103.36 CMS.		at 435.81 m. (MSL.)		at 09.00 Hours ,		on Sep 28, 2021					
Runoff Yield		6.90		Liters/Second/Square KM.		Momentary Peak Yield	39.48		Liters/Second/Square KM.				

## WATER YEAR : 2021

## NAM MAE KOK RIVER BASIN

Nam Mae Lao at Ban Don Salee , Chiang Rai (G.11)

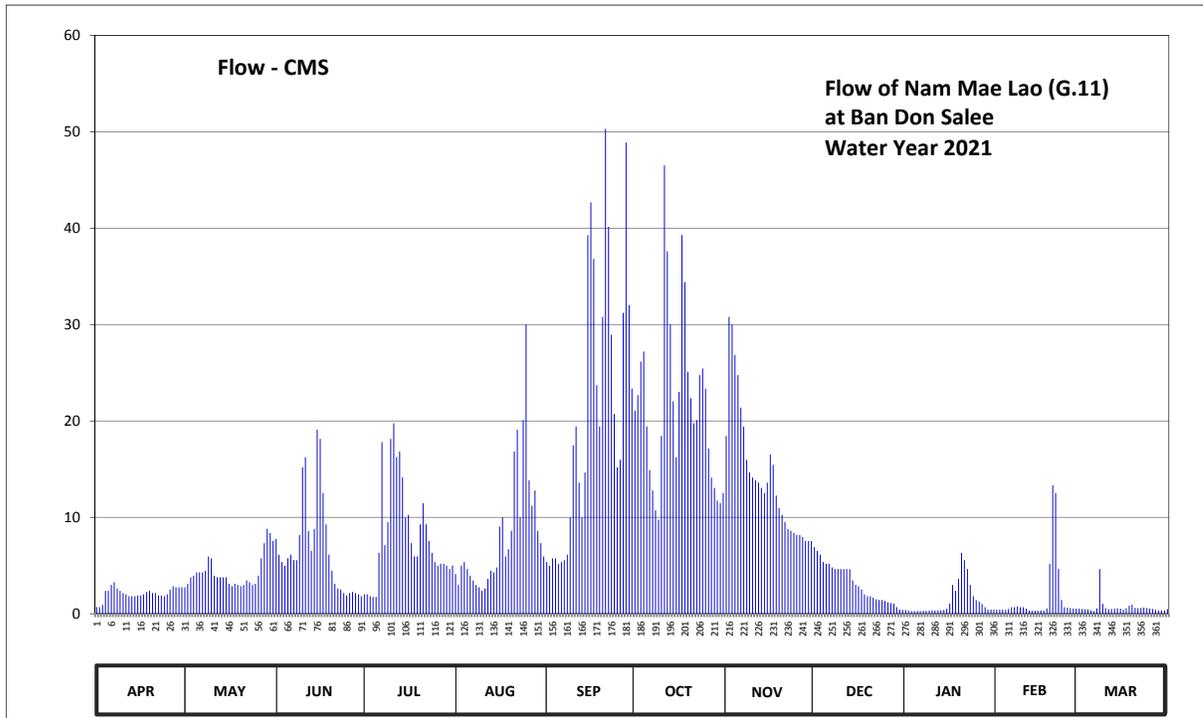
Lat 19 - 37 - 21 N Long 99 - 28 - 37 E

Location : on left bank at Ban Salee.

	<b>Ban</b>	<b>Don Salee</b>	<b>Amphoe</b>	<b>Mae Suai</b>	<b>Changwat</b>	<b>Chiang Rai</b>
<b>Drainage Area</b>	1,912	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+462.835 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage site.				<b>Elevation</b>	+468.695 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2004 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2004 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2004 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.30	462.57	462.85	462.51	462.66	462.73	463.34	463.26	462.81	462.12	462.14	462.20	
2	462.30	462.60	462.77	462.51	462.59	462.71	463.39	463.62	462.79	462.09	462.14	462.18	
3	462.35	462.64	462.73	462.49	462.71	462.75	463.49	463.60	462.77	462.05	462.14	462.16	
4	462.54	462.65	462.71	462.48	462.73	462.75	463.52	463.51	462.73	462.06	462.13	462.15	
5	462.54	462.67	462.75	462.48	462.69	462.72	463.29	463.45	462.72	462.07	462.18	462.10	
6	462.59	462.67	462.77	462.78	462.65	462.73	463.14	463.35	462.72	462.06	462.29	462.05	
7	462.61	462.67	462.74	463.24	462.62	462.74	463.06	463.29	462.70	462.08	462.28	462.21	
8	462.56	462.68	462.74	462.82	462.59	462.77	462.98	463.18	462.69	462.08	462.32	462.69	
9	462.54	462.76	462.87	462.93	462.57	462.95	462.94	463.13	462.69	462.09	462.29	462.38	
10	462.52	462.75	463.15	463.25	462.54	463.23	463.26	463.11	462.69	462.11	462.28	462.23	
11	462.51	462.65	463.19	463.30	462.56	463.29	464.00	463.10	462.69	462.09	462.20	462.16	
12	462.49	462.64	462.89	463.19	462.63	463.09	463.79	463.09	462.69	462.11	462.09	462.18	
13	462.49	462.64	462.79	463.21	462.68	462.95	463.60	463.07	462.69	462.11	462.08	462.21	
14	462.49	462.64	462.90	463.11	462.67	463.13	463.37	463.05	462.62	462.12	462.08	462.23	
15	462.50	462.64	463.28	462.95	462.70	463.83	463.19	463.09	462.59	462.19	462.08	462.20	
16	462.50	462.60	463.25	462.96	462.91	463.91	463.40	463.20	462.58	462.39	462.10	462.15	
17	462.51	462.58	463.05	462.83	462.95	463.77	463.83	463.16	462.55	462.59	462.09	462.22	
18	462.53	462.60	462.92	462.76	462.76	463.42	463.71	463.04	462.51	462.54	462.22	462.33	
19	462.54	462.59	462.77	462.76	462.80	463.29	463.46	462.99	462.49	462.63	462.72	462.36	
20	462.52	462.58	462.68	462.92	462.89	463.62	463.38	462.96	462.49	462.78	463.08	462.25	
21	462.52	462.59	462.60	463.01	463.21	464.08	463.30	462.93	462.47	462.74	463.05	462.23	
22	462.50	462.62	462.56	462.92	463.28	463.85	463.31	462.90	462.45	462.69	462.69	462.25	
23	462.50	462.61	462.55	462.84	462.95	463.57	463.45	462.89	462.44	462.59	462.44	462.27	
24	462.49	462.59	462.52	462.78	463.31	463.33	463.47	462.88	462.44	462.49	462.29	462.24	
25	462.51	462.60	462.50	462.73	463.60	463.15	463.41	462.87	462.43	462.44	462.26	462.20	
26	462.55	462.65	462.52	462.71	463.10	463.18	463.22	462.87	462.41	462.42	462.23	462.18	
27	462.58	462.75	462.53	462.72	463.00	463.63	463.11	462.86	462.40	462.38	462.21	462.12	
28	462.57	462.83	462.52	462.72	463.06	464.05	463.07	462.84	462.39	462.29	462.20	462.09	
29	462.57	462.90	462.51	462.71	462.89	463.65	463.02	462.84	462.30	462.14	462.09	462.09	
30	462.57	462.88	462.49	462.69	462.83	463.41	463.01	462.84	462.14	462.14	462.10	462.10	
31		462.84		462.71	462.76		463.05		462.12	462.14	462.17		
Mean	462.51	462.67	462.77	462.84	462.84	463.28	463.34	463.10	462.55	462.28	462.30	462.21	
Max	462.61	462.90	463.28	463.30	463.60	464.08	464.00	463.62	462.81	462.78	463.08	462.69	464.08
Min	462.30	462.57	462.49	462.48	462.54	462.71	462.94	462.84	462.12	462.05	462.08	462.05	462.05
Annual Max Momentary Gage Height	464.24		m. (MSL.) ,			at 06.00 Hours ,	on Sep 28, 2021						
Zero Gage at Bottom Elevation	462.83		m. (MSL.) ,			River Bed	461.89	m. (MSL.)					
Left Bank Elevation	468.84		m. (MSL.) ,										
Right Bank Elevation	468.90		m. (MSL.) ,			Drainage Are	1,912	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	2.74	7.75	2.02	4.12	5.37	21.05	18.45	6.91	0.39	0.42	0.53	
2	0.70	3.10	6.13	2.02	2.98	4.99	22.68	30.80	6.51	0.33	0.42	0.49	
3	0.90	3.78	5.37	1.82	4.99	5.75	26.15	30.00	6.13	0.26	0.42	0.46	
4	2.38	3.95	4.99	1.74	5.37	5.75	27.20	26.85	5.37	0.28	0.40	0.44	
5	2.38	4.29	5.75	1.74	4.63	5.18	19.43	24.75	5.18	0.30	0.49	0.35	
6	2.98	4.29	6.13	6.32	3.95	5.37	14.91	21.38	5.18	0.28	0.68	0.26	
7	3.27	4.29	5.56	17.80	3.44	5.56	12.79	19.43	4.80	0.32	0.67	0.54	
8	2.62	4.46	5.56	7.12	2.98	6.13	10.72	15.97	4.63	0.32	0.78	4.63	
9	2.38	5.94	8.17	9.52	2.74	10.00	9.76	14.65	4.63	0.33	0.68	1.02	
10	2.14	5.75	15.18	18.13	2.38	17.48	18.45	14.12	4.63	0.37	0.67	0.58	
11	2.02	3.95	16.24	19.75	2.62	19.43	46.50	13.85	4.63	0.33	0.53	0.46	
12	1.82	3.78	8.59	16.24	3.61	13.59	37.60	13.59	4.63	0.37	0.33	0.49	
13	1.82	3.78	6.51	16.83	4.46	10.00	30.00	13.06	4.63	0.37	0.32	0.54	
14	1.82	3.78	8.80	14.12	4.29	14.65	22.03	12.53	3.44	0.39	0.32	0.58	
15	1.90	3.78	19.10	10.00	4.80	39.28	16.24	13.59	2.98	0.51	0.32	0.53	
16	1.90	3.10	18.13	10.24	9.04	42.68	23.00	16.50	2.86	1.06	0.35	0.44	
17	2.02	2.86	12.53	7.33	10.00	36.80	39.28	15.44	2.50	2.98	0.33	0.56	
18	2.26	3.10	9.28	5.94	5.94	23.70	34.40	12.26	2.02	2.38	0.56	0.82	
19	2.38	2.98	6.13	5.94	6.70	19.43	25.10	10.96	1.82	3.61	5.18	0.94	
20	2.14	2.86	4.46	9.28	8.59	30.80	22.35	10.24	1.82	6.32	13.32	0.61	
21	2.14	2.98	3.10	11.47	16.83	50.30	19.75	9.52	1.66	5.56	12.53	0.58	
22	1.90	3.44	2.62	9.28	19.10	40.13	20.08	8.80	1.50	4.63	4.63	0.61	
23	1.90	3.27	2.50	7.54	10.00	28.95	24.75	8.59	1.42	2.98	1.42	0.65	
24	1.82	2.98	2.14	6.32	20.08	20.73	25.45	8.38	1.42	1.82	0.68	0.60	
25	2.02	3.10	1.90	5.37	30.00	15.18	23.35	8.17	1.34	1.42	0.63	0.53	
26	2.50	3.95	2.14	4.99	13.85	15.97	17.15	8.17	1.18	1.26	0.58	0.49	
27	2.86	5.75	2.26	5.18	11.20	31.20	14.12	7.96	1.10	1.02	0.54	0.39	
28	2.74	7.33	2.14	5.18	12.79	48.88	13.06	7.54	1.06	0.68	0.53	0.33	
29	2.74	8.80	2.02	4.99	8.59	32.00	11.73	7.54	0.70	0.42		0.33	
30	2.74	8.38	1.82	4.63	7.33	23.35	11.47	7.54	0.42	0.42		0.35	
31		7.54		4.99	5.94		12.53		0.39	0.42		0.47	
Total	63.89	134.08	203.00	253.84	253.34	628.63	673.08	430.63	97.49	42.13	48.73	20.60	2849.44 CMSDAY
Mean	2.13	4.33	6.77	8.19	8.17	20.95	21.71	14.35	3.14	1.36	1.74	0.66	7.81 CMS
Max	3.27	8.80	19.10	19.75	30.00	50.30	46.50	30.80	6.91	6.32	13.32	4.63	50.30 CMS
Min	0.70	2.74	1.82	1.74	2.38	4.99	9.76	7.54	0.39	0.26	0.32	0.26	0.26 CMS
Runoff	5.52	11.58	17.54	21.93	21.89	54.31	58.15	37.21	8.42	3.64	4.21	1.78	246.19 MCM
Momentary Peak	58.00	CMS. at 464.24 m. (MSL.) at 06.00 Hours , on Sep 28, 2021											
Runoff Yield	4.08	Liters/Second/Square KM. Momentary Peak Yield 30.33 Liters/Second/Square KM.											

## WATER YEAR : 2021

## NAM MAE ING RIVER BASIN

## Nam Mae Ing at Ban Nam Ing , Chiang Rai (I.14)

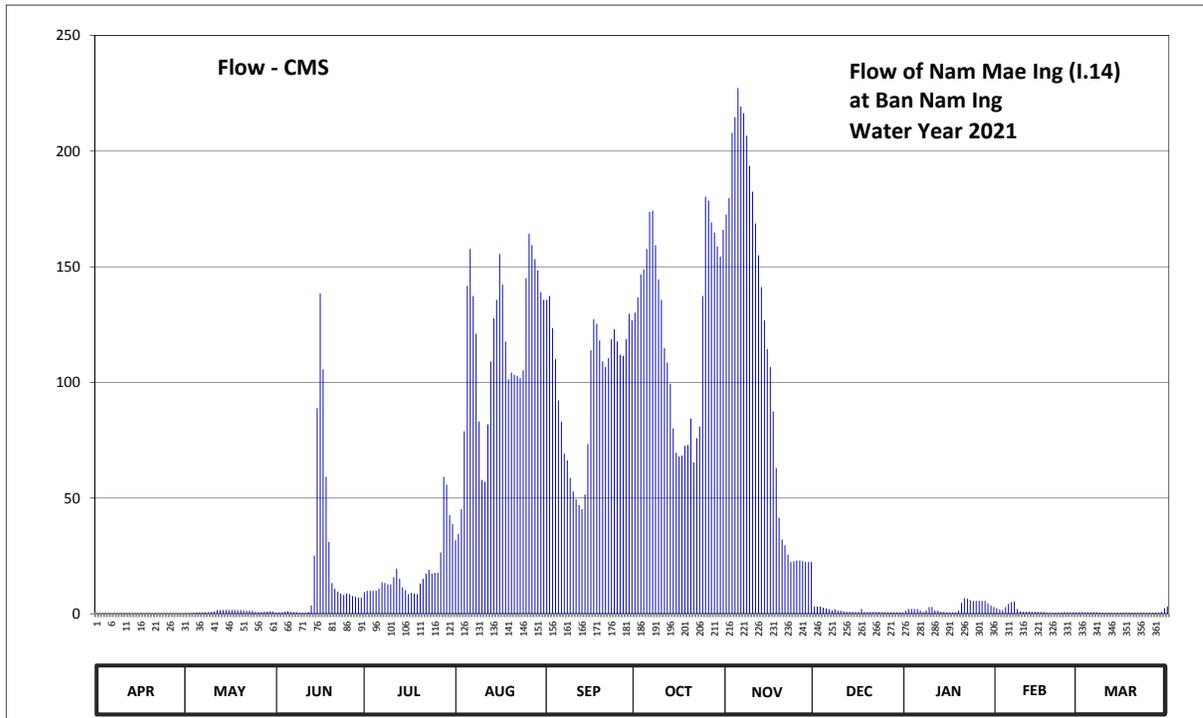
Lat 19 - 50 - 00 N Long 100 - 12 - 03 E

Location : on right bank at the bridge on the road about 2 kilometers from Amphoe Khun Tan.

	<b>Ban Nam Ing</b>	<b>Amphoe Khun Tan</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	6,220 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+351.430 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank downstream side at the approach of the bridge.	<b>Elevation</b>	+361.805 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow effected by the local weir about 100 meters downstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	351.98	351.97	352.53	352.96	353.65	356.03	355.92	356.70	352.73	352.63	352.70	352.56	
2	352.00	352.00	352.53	352.98	353.73	356.06	356.05	356.83	352.73	352.68	352.66	352.56	
3	352.00	352.13	352.54	352.98	354.03	355.78	356.23	357.33	352.73	352.68	352.65	352.56	
4	352.00	352.35	352.60	352.98	354.83	355.50	356.27	357.45	352.71	352.68	352.72	352.56	
5	352.00	352.51	352.62	352.98	356.14	355.13	356.43	357.67	352.69	352.68	352.78	352.56	
6	352.01	352.54	352.58	353.01	356.43	354.93	356.72	357.53	352.67	352.64	352.81	352.56	
7	352.00	352.54	352.57	353.10	356.06	354.60	356.73	357.48	352.64	352.57	352.82	352.56	
8	352.01	352.55	352.57	353.09	355.73	354.53	356.46	357.31	352.67	352.64	352.68	352.52	
9	352.01	352.57	352.49	353.07	354.93	354.35	356.19	357.08	352.63	352.72	352.61	352.51	
10	352.01	352.59	352.48	353.07	354.33	354.21	356.03	356.88	352.63	352.72	352.60	352.51	
11	352.01	352.61	352.50	353.17	354.31	354.13	355.60	356.63	352.61	352.64	352.60	352.51	
12	352.01	352.65	352.58	353.29	354.90	354.07	355.47	356.38	352.60	352.63	352.60	352.51	
13	352.01	352.65	352.75	353.15	355.48	354.03	355.28	356.13	352.60	352.60	352.60	352.51	
14	352.01	352.65	353.46	353.03	355.87	354.18	354.86	355.85	352.59	352.58	352.60	352.51	
15	352.01	352.65	355.06	352.99	356.03	354.70	354.61	355.59	352.59	352.56	352.60	352.51	
16	351.99	352.65	356.08	352.93	356.39	355.58	354.57	355.43	352.59	352.54	352.59	352.50	
17	351.98	352.65	355.41	352.95	356.15	355.86	354.58	355.03	352.68	352.53	352.58	352.50	
18	351.98	352.65	354.36	352.94	355.66	355.82	354.68	354.45	352.58	352.53	352.52	352.50	
19	351.98	352.65	353.63	352.93	355.32	355.67	354.69	353.93	352.58	352.63	352.49	352.50	
20	351.98	352.65	353.09	353.08	355.38	355.48	354.96	353.66	352.58	352.80	352.49	352.50	
21	351.98	352.64	353.01	353.15	355.36	355.43	354.51	353.59	352.58	352.87	352.48	352.50	
22	351.98	352.63	352.97	353.22	355.35	355.51	354.76	353.47	352.58	352.86	352.49	352.49	
23	351.98	352.63	352.94	353.27	355.33	355.68	354.88	353.38	352.57	352.84	352.49	352.48	
24	351.98	352.63	352.92	353.22	355.40	355.77	356.06	353.39	352.57	352.83	352.58	352.48	
25	351.97	352.58	352.94	353.23	356.20	355.66	356.84	353.40	352.56	352.83	352.57	352.48	
26	351.92	352.57	352.93	353.23	356.55	355.54	356.81	353.40	352.56	352.83	352.56	352.48	
27	351.88	352.59	352.90	353.50	356.46	355.53	356.64	353.39	352.56	352.83	352.56	352.48	
28	351.88	352.60	352.89	354.36	356.35	355.68	356.56	353.38	352.56	352.83	352.56	352.49	
29	351.88	352.61	352.88	354.28	356.26	355.91	356.45	353.38	352.56	352.79	352.58	352.58	
30	351.88	352.62	352.88	353.96	356.09	355.85	356.37	353.38	352.56	352.75	352.57	352.70	
31		352.61		353.85	356.03		356.58		352.56	352.72		352.73	
Mean	351.98	352.55	353.12	353.22	355.51	355.24	355.77	355.32	352.61	352.70	352.61	352.53	
Max	352.01	352.65	356.08	354.36	356.55	356.06	356.84	357.67	352.73	352.87	352.82	352.73	357.67
Min	351.88	351.97	352.48	352.93	353.65	354.03	354.51	353.38	352.56	352.53	352.48	352.48	351.88
Annual Max Momentary Gage Height	357.73		m. (MSL.) ,						at 06.00 Hours ,				on Nov 5, 2021
Zero Gage at Bottom Elevation	351.43		m. (MSL.) ,				River Bed	350.67	m. (MSL.)				
Left Bank Elevation		362.11		m. (MSL.) ,									
Right Bank Elevation		362.07		m. (MSL.) ,		Drainage Are	6,220	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.04	0.52	9.34	31.75	135.65	130.16	172.50	3.09	1.28	2.40	0.64	
2	0.05	0.05	0.52	9.92	34.55	137.30	136.75	179.65	3.09	2.08	1.76	0.64	
3	0.05	0.12	0.56	9.92	45.26	123.44	146.65	207.81	3.09	2.08	1.60	0.64	
4	0.05	0.25	0.80	9.92	78.86	110.00	148.85	214.65	2.63	2.08	2.86	0.64	
5	0.05	0.44	1.12	9.92	141.70	92.24	157.65	227.19	2.24	2.08	4.24	0.64	
6	0.06	0.56	0.72	10.81	157.65	83.06	173.60	219.21	1.92	1.44	4.99	0.64	
7	0.05	0.56	0.68	13.60	137.30	69.20	174.15	216.36	1.44	0.68	5.28	0.64	
8	0.06	0.60	0.68	13.29	121.04	66.26	159.30	206.67	1.92	1.44	2.08	0.48	
9	0.06	0.68	0.39	12.67	83.06	58.70	144.45	193.56	1.28	2.86	0.96	0.44	
10	0.06	0.76	0.38	12.67	57.86	52.82	135.65	182.40	1.28	2.86	0.80	0.44	
11	0.06	0.96	0.40	15.77	57.02	49.46	114.80	168.65	0.96	1.44	0.80	0.44	
12	0.06	1.60	0.72	19.54	81.80	46.94	108.56	154.90	0.80	1.28	0.80	0.44	
13	0.06	1.60	3.55	15.15	109.04	45.26	99.44	141.15	0.80	0.80	0.80	0.44	
14	0.06	1.60	25.10	11.43	127.76	51.56	80.12	126.80	0.76	0.72	0.80	0.44	
15	0.06	1.60	88.88	10.21	135.65	73.40	69.62	114.32	0.76	0.64	0.80	0.44	
16	0.05	1.60	138.40	8.47	155.45	113.84	67.94	106.64	0.76	0.56	0.76	0.40	
17	0.04	1.60	105.68	9.05	142.25	127.28	68.36	87.44	2.08	0.52	0.72	0.40	
18	0.04	1.60	59.12	8.76	117.68	125.36	72.56	62.90	0.72	0.52	0.48	0.40	
19	0.04	1.60	31.05	8.47	101.36	118.16	72.98	41.55	0.72	1.28	0.39	0.40	
20	0.04	1.60	13.29	12.98	104.24	109.04	84.32	32.10	0.72	4.70	0.39	0.40	
21	0.04	1.44	10.81	15.15	103.28	106.64	65.42	29.65	0.72	6.73	0.38	0.40	
22	0.04	1.28	9.63	17.33	102.80	110.48	75.92	25.45	0.72	6.44	0.39	0.39	
23	0.04	1.28	8.76	18.91	101.84	118.64	80.96	22.37	0.68	5.86	0.39	0.38	
24	0.04	1.28	8.18	17.33	105.20	122.96	137.30	22.69	0.68	5.57	0.72	0.38	
25	0.04	0.72	8.76	17.65	145.00	117.68	180.20	23.00	0.64	5.57	0.68	0.38	
26	0.03	0.68	8.47	17.65	164.25	111.92	178.55	23.00	0.64	5.57	0.64	0.38	
27	0.02	0.76	7.60	26.50	159.30	111.44	169.20	22.69	0.64	5.57	0.64	0.38	
28	0.02	0.80	7.31	59.12	153.25	118.64	164.80	22.37	0.64	5.57	0.64	0.39	
29	0.02	0.96	7.02	55.76	148.30	129.68	158.75	22.37	0.64	4.47		0.72	
30	0.02	1.12	7.02	42.60	138.95	126.80	154.35	22.37	0.64	3.55		2.40	
31		0.96		38.75	135.65		165.90		0.64	2.86		3.09	
<b>Total</b>	1.35	30.70	556.12	558.64	3479.10	2963.85	3877.26	3292.41	38.34	89.10	38.19	19.33	14944.39 CMSDAY
<b>Mean</b>	0.05	0.99	18.54	18.02	112.23	98.80	125.07	109.75	1.24	2.87	1.36	0.62	40.94 CMS
<b>Max</b>	0.06	1.60	138.40	59.12	164.25	137.30	180.20	227.19	3.09	6.73	5.28	3.09	227.19 CMS
<b>Min</b>	0.02	0.04	0.38	8.47	31.75	45.26	65.42	22.37	0.64	0.52	0.38	0.38	0.02 CMS
<b>Runoff</b>	0.12	2.65	48.05	48.27	300.59	256.08	335.00	284.46	3.31	7.70	3.30	1.67	1291.20 MCM
<b>Momentary Peak</b>	230.61	CMS.	at 357.73 m. (MSL.)	at 06.00 Hours	on Nov 5, 2021								
<b>Runoff Yield</b>	6.58	Liters/Second/Square KM.			Momentary Peak Yield	37.08	Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAM MAE ING RIVER BASIN

Nam Mae Ing at Ban Jae Dee Ngam , Phayao (I.17)

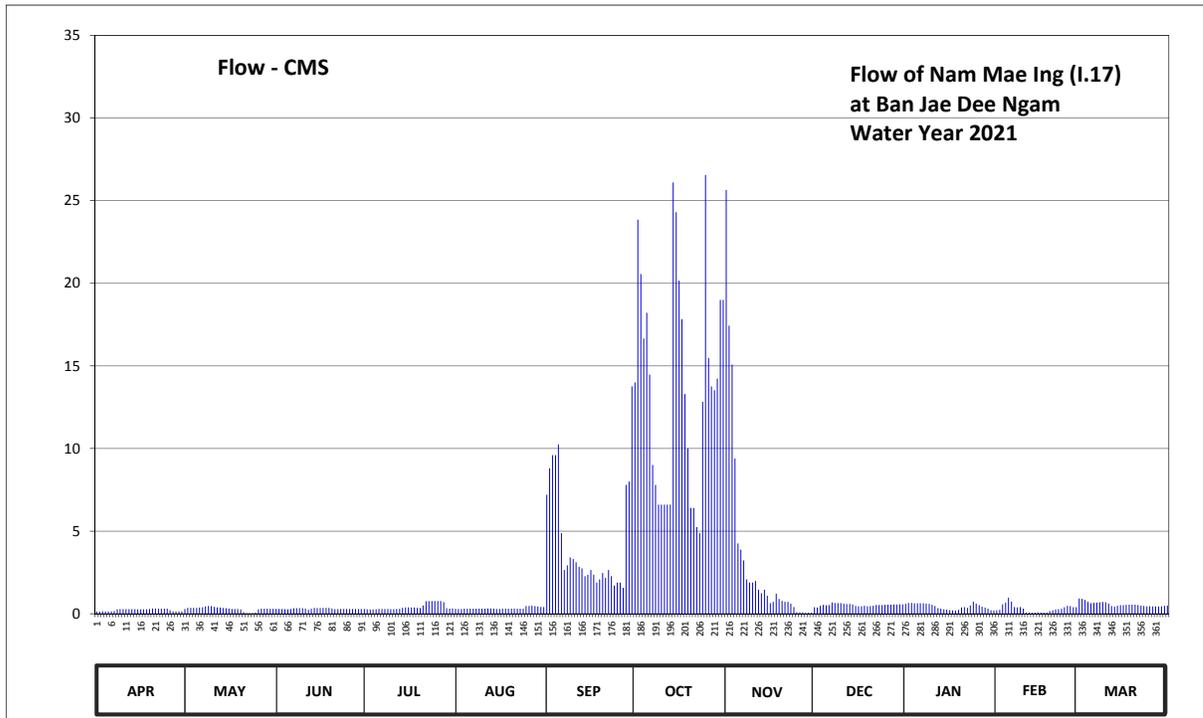
Lat 19 - 09 - 57 N Long 99 - 56 - 04 E

Location : on left bank at Ban Jae Dee Ngam.

	<b>Ban</b>	<b>Jae Dee Ngam</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phayao</b>
<b>Drainage Area</b>	1,303	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+386.266 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.				<b>Elevation</b>	+390.690 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2003 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2003 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2003 to date					
<b>Stability of Channel Regimes</b>	Fairly Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.84	387.17	387.19	387.17	387.19	387.66	387.97	388.27	387.38	387.60	387.01	387.92	
2	386.86	387.32	387.17	387.13	387.17	387.74	388.23	388.07	387.34	387.65	387.08	387.90	
3	386.89	387.31	387.17	387.11	387.18	387.78	388.15	388.01	387.48	387.65	387.57	387.84	
4	386.88	387.31	387.15	387.11	387.22	387.78	388.05	387.77	387.54	387.63	387.67	387.72	
5	386.87	387.31	387.13	387.13	387.22	387.81	388.09	387.46	387.51	387.63	387.97	387.63	
6	386.87	387.33	387.17	387.20	387.22	387.51	387.99	387.43	387.53	387.63	387.73	387.66	
7	386.92	387.38	387.27	387.17	387.22	387.31	387.75	387.37	387.68	387.63	387.39	387.67	
8	387.13	387.44	387.27	387.17	387.22	387.34	387.69	387.25	387.64	387.62	387.35	387.69	
9	387.16	387.47	387.27	387.17	387.22	387.39	387.63	387.23	387.64	387.60	387.40	387.71	
10	387.16	387.46	387.28	387.15	387.22	387.38	387.63	387.23	387.64	387.54	387.21	387.69	
11	387.15	387.41	387.23	387.16	387.22	387.36	387.63	387.24	387.61	387.47	386.48	387.62	
12	387.15	387.35	387.08	387.17	387.23	387.33	387.63	387.15	387.59	387.28	386.47	387.47	
13	387.15	387.34	387.20	387.20	387.23	387.32	387.63	387.08	387.60	387.21	386.47	387.42	
14	387.15	387.29	387.31	387.31	387.21	387.27	388.28	387.15	387.56	387.14	386.50	387.48	
15	387.13	387.27	387.30	387.35	387.17	387.28	388.24	387.03	387.47	387.10	386.67	387.52	
16	387.13	387.24	387.29	387.35	387.18	387.31	388.14	386.64	387.45	387.03	386.48	387.52	
17	387.13	387.17	387.31	387.34	387.22	387.28	388.08	386.72	387.45	386.99	386.47	387.54	
18	387.13	387.17	387.31	387.33	387.22	387.23	387.94	387.07	387.48	386.98	386.57	387.55	
19	387.17	387.17	387.31	387.32	387.22	387.25	387.80	386.89	387.45	387.07	386.91	387.55	
20	387.23	387.12	387.23	387.29	387.22	387.29	387.62	386.78	387.46	387.35	387.02	387.55	
21	387.23	386.77	387.15	387.50	387.23	387.26	387.62	386.72	387.48	387.40	387.12	387.53	
22	387.22	386.22	387.16	387.76	387.22	387.31	387.54	386.72	387.53	387.32	387.14	387.49	
23	387.21	386.22	387.17	387.77	387.21	387.27	387.51	386.62	387.53	387.50	387.19	387.47	
24	387.21	386.23	387.17	387.77	387.21	387.21	387.92	386.40	387.52	387.73	387.37	387.45	
25	387.21	386.50	387.17	387.77	387.46	387.23	388.29	386.07	387.54	387.62	387.48	387.45	
26	387.01	387.14	387.17	387.77	387.47	387.23	388.02	386.07	387.55	387.52	387.46	387.44	
27	386.87	387.21	387.17	387.77	387.49	387.19	387.96	386.07	387.55	387.42	387.37	387.44	
28	386.88	387.21	387.17	387.70	387.46	387.69	387.95	386.25	387.56	387.33	387.37	387.44	
29	386.87	387.21	387.17	387.28	387.44	387.70	387.98	386.46	387.56	387.22		387.45	
30	386.87	387.19	387.17	387.22	387.41	387.96	388.11	386.47	387.57	387.02		387.47	
31		387.19		387.26	387.39		388.11		387.57	387.00		387.49	
Mean	387.06	387.13	387.21	387.35	387.26	387.42	387.91	386.99	387.53	387.38	387.10	387.57	
Max	387.23	387.47	387.31	387.77	387.49	387.96	388.29	388.27	387.68	387.73	387.97	387.92	388.29
Min	386.84	386.22	387.08	387.11	387.17	387.19	387.51	386.07	387.34	386.98	386.47	387.42	386.07
Annual Max Momentary Gage Height	388.50		m. (MSL.) ,				at 06.00 Hours ,		on Oct 25, 2021				
Zero Gage at Bottom Elevation	386.27		m. (MSL.) ,			River Bed	384.75		m. (MSL.)				
Left Bank Elevation		390.57		m. (MSL.) ,									
Right Bank Elevation		390.58		m. (MSL.) ,		Drainage Are	1,303		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.29	0.30	0.29	0.30	7.20	14.00	25.65	0.39	0.60	0.21	0.92	
2	0.13	0.36	0.29	0.27	0.29	8.80	23.85	17.43	0.37	0.65	0.24	0.90	
3	0.15	0.36	0.29	0.26	0.29	9.60	20.55	15.09	0.48	0.65	0.57	0.84	
4	0.14	0.36	0.28	0.26	0.31	9.60	16.65	9.40	0.54	0.63	0.67	0.72	
5	0.14	0.36	0.27	0.27	0.31	10.24	18.21	4.25	0.51	0.63	0.97	0.63	
6	0.14	0.37	0.29	0.30	0.31	4.88	14.47	3.88	0.53	0.63	0.73	0.66	
7	0.16	0.39	0.34	0.29	0.31	2.65	9.00	3.22	0.68	0.63	0.40	0.67	
8	0.27	0.44	0.34	0.29	0.31	2.93	7.80	2.08	0.64	0.62	0.38	0.69	
9	0.28	0.47	0.34	0.29	0.31	3.41	6.60	1.89	0.64	0.60	0.40	0.71	
10	0.28	0.46	0.34	0.28	0.31	3.31	6.60	1.89	0.64	0.54	0.31	0.69	
11	0.28	0.41	0.32	0.28	0.31	3.12	6.60	1.98	0.61	0.47	0.07	0.62	
12	0.28	0.38	0.24	0.29	0.32	2.84	6.60	1.45	0.59	0.34	0.07	0.47	
13	0.28	0.37	0.30	0.30	0.32	2.74	6.60	1.24	0.60	0.31	0.07	0.42	
14	0.28	0.35	0.36	0.36	0.31	2.27	26.10	1.45	0.56	0.27	0.07	0.48	
15	0.27	0.34	0.35	0.38	0.29	2.36	24.30	1.09	0.47	0.25	0.09	0.52	
16	0.27	0.32	0.35	0.38	0.29	2.65	20.16	0.64	0.45	0.22	0.07	0.52	
17	0.27	0.29	0.36	0.37	0.31	2.36	17.82	0.72	0.45	0.20	0.07	0.54	
18	0.27	0.29	0.36	0.37	0.31	1.89	13.29	1.21	0.48	0.19	0.08	0.55	
19	0.29	0.29	0.36	0.36	0.31	2.08	10.00	0.89	0.45	0.24	0.16	0.55	
20	0.32	0.26	0.32	0.35	0.31	2.46	6.40	0.78	0.46	0.38	0.21	0.55	
21	0.32	0.10	0.28	0.50	0.32	2.17	6.40	0.72	0.48	0.40	0.26	0.53	
22	0.31	0.04	0.28	0.76	0.31	2.65	5.25	0.72	0.53	0.36	0.27	0.49	
23	0.31	0.04	0.29	0.77	0.31	2.27	4.88	0.62	0.53	0.50	0.30	0.47	
24	0.31	0.04	0.29	0.77	0.31	1.70	12.82	0.40	0.52	0.73	0.39	0.45	
25	0.31	0.07	0.29	0.77	0.46	1.89	26.55	0.09	0.54	0.62	0.48	0.45	
26	0.21	0.27	0.29	0.77	0.47	1.89	15.48	0.09	0.55	0.52	0.46	0.44	
27	0.14	0.31	0.29	0.77	0.49	1.57	13.76	0.09	0.55	0.42	0.39	0.44	
28	0.14	0.31	0.29	0.70	0.46	7.80	13.53	0.05	0.56	0.37	0.39	0.44	
29	0.14	0.31	0.29	0.34	0.44	8.00	14.23	0.07	0.56	0.31		0.45	
30	0.14	0.30	0.29	0.31	0.41	13.76	18.99	0.07	0.57	0.21		0.47	
31		0.30		0.33	0.40		18.99		0.57	0.20		0.49	
Total	6.95	9.25	9.28	13.03	10.51	131.09	426.48	99.15	16.50	13.69	8.78	17.77	762.48 CMSDAY
Mean	0.23	0.30	0.31	0.42	0.34	4.37	13.76	3.31	0.53	0.44	0.31	0.57	2.09 CMS
Max	0.32	0.47	0.36	0.77	0.49	13.76	26.55	25.65	0.68	0.73	0.97	0.92	26.55 CMS
Min	0.12	0.04	0.24	0.26	0.29	1.57	4.88	0.05	0.37	0.19	0.07	0.42	0.04 CMS
Runoff	0.60	0.80	0.80	1.13	0.91	11.33	36.85	8.57	1.43	1.18	0.76	1.54	65.88 MCM
Momentary Peak	36.50	CMS. at 388.50 m. (MSL.) at 06.00 Hours , on Oct 25, 2021											
Runoff Yield	1.60	Liters/Second/Square KM. Momentary Peak Yield 28.01 Liters/Second/Square KM.											

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Nam Mae Kham at Ban Mae Kham Lak Chet , Chiang Rai (Kh.72)

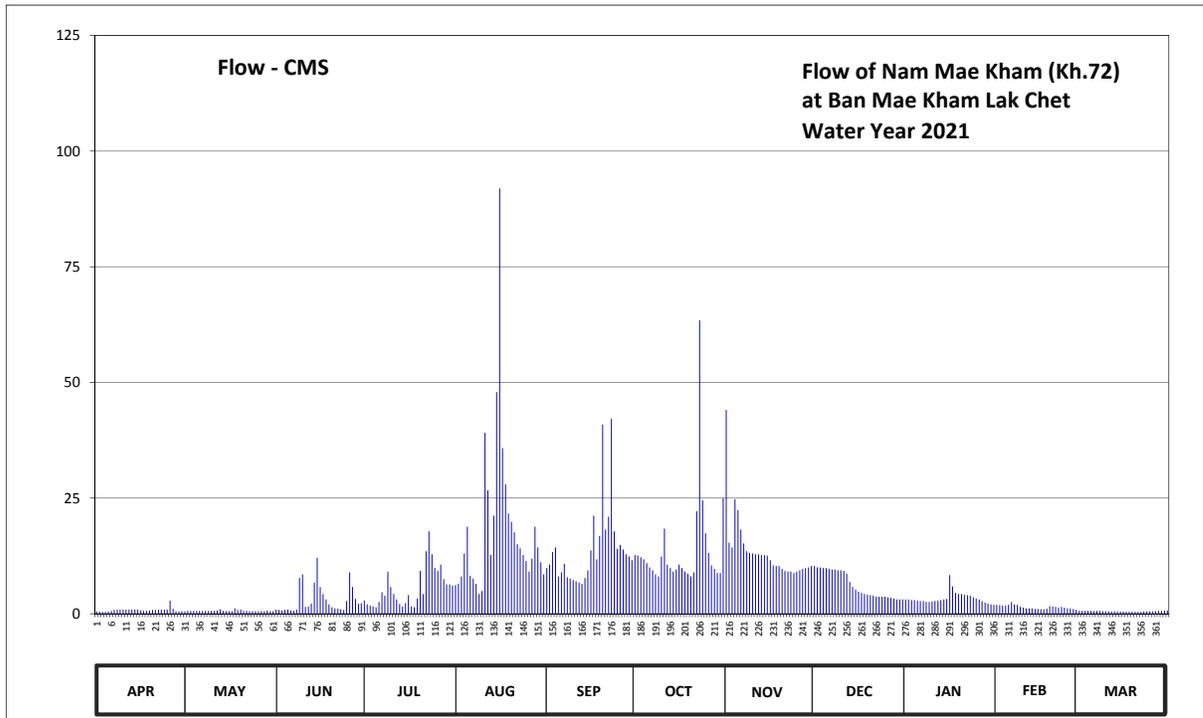
Lat 20 - 13 - 07 N Long 99 - 51 - 25 E

Location : on right bank at the bridge of Mae Chan - Mae Sai Highway from Tambon Mae Kham.

	Ban Mae Kham Lak Chet	Amphoe Mae Chan	Changwat Chiang Rai
<b>Drainage Area</b>	652 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+393.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank about 20 meters from the top staff gage.	<b>Elevation</b>	+399.176 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1982 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the bridge of Chiang Rai - Mae Sai Highway construction. Stage-discharge relation defined by 36 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	393.58	393.58	393.64	393.86	394.12	394.37	394.55	395.83	394.40	393.88	393.77	393.60	
2	393.57	393.60	393.63	393.78	394.14	394.42	394.54	394.71	394.38	393.88	393.76	393.60	
3	393.55	393.60	393.61	393.75	394.25	394.59	394.52	394.65	394.38	393.87	393.75	393.60	
4	393.55	393.60	393.63	393.73	394.57	394.65	394.49	395.15	394.37	393.87	393.75	393.60	
5	393.57	393.60	393.64	393.71	394.89	394.25	394.44	395.05	394.37	393.86	393.77	393.60	
6	393.60	393.60	393.61	393.83	394.26	394.31	394.38	394.86	394.36	393.85	393.83	393.59	
7	393.63	393.60	393.60	394.01	394.22	394.43	394.34	394.70	394.35	393.85	393.78	393.60	
8	393.64	393.60	393.64	393.95	394.14	394.24	394.28	394.60	394.35	393.83	393.77	393.60	
9	393.64	393.60	394.23	394.32	393.98	394.22	394.25	394.58	394.34	393.83	393.72	393.59	
10	393.64	393.60	394.28	394.09	394.03	394.20	394.53	394.57	394.34	393.84	393.70	393.59	
11	393.64	393.60	393.72	393.98	395.67	394.18	394.87	394.56	394.33	393.85	393.68	393.58	
12	393.64	393.61	393.73	393.88	395.23	394.16	394.42	394.56	394.29	393.86	393.68	393.58	
13	393.64	393.65	393.80	393.79	394.55	394.14	394.37	394.55	394.17	393.87	393.68	393.58	
14	393.64	393.60	394.16	393.73	395.00	394.23	394.32	394.55	394.09	393.88	393.66	393.58	
15	393.64	393.59	394.51	393.81	395.94	394.34	394.35	394.54	394.05	393.89	393.66	393.57	
16	393.62	393.59	394.09	393.96	396.89	394.61	394.42	394.48	394.02	394.27	393.65	393.57	
17	393.60	393.59	393.98	393.73	395.56	395.00	394.37	394.41	394.00	394.10	393.65	393.56	
18	393.60	393.68	393.88	393.71	395.28	394.49	394.32	394.40	393.98	394.00	393.67	393.56	
19	393.61	393.63	393.78	393.90	395.02	394.79	394.29	394.40	393.97	393.98	393.74	393.56	
20	393.63	393.64	393.71	394.33	394.94	395.73	394.25	394.36	393.96	393.98	393.73	393.55	
21	393.63	393.60	393.68	393.98	394.83	394.86	394.31	394.33	393.95	393.97	393.72	393.55	
22	393.64	393.60	393.67	394.60	394.69	394.99	395.04	394.32	393.93	393.96	393.70	393.55	
23	393.64	393.59	393.65	394.84	394.64	395.77	396.32	394.32	393.93	393.95	393.72	393.58	
24	393.64	393.59	393.63	394.56	394.55	394.84	395.14	394.30	393.93	393.92	393.70	393.58	
25	393.64	393.59	393.85	394.37	394.47	394.63	394.82	394.32	393.93	393.90	393.68	393.58	
26	393.86	393.59	394.31	394.33	394.32	394.68	394.58	394.34	393.92	393.88	393.68	393.58	
27	393.67	393.59	394.09	394.42	394.50	394.62	394.41	394.36	393.91	393.85	393.66	393.59	
28	393.59	393.59	393.89	394.21	394.89	394.56	394.36	394.37	393.90	393.82	393.64	393.60	
29	393.58	393.61	393.80	394.13	394.65	394.53	394.30	394.38	393.88	393.80		393.60	
30	393.59	393.59	393.81	394.13	394.45	394.48	394.30	394.40	393.88	393.78		393.61	
31		393.59		394.11	394.28		395.16		393.88	393.77		393.61	
Mean	393.62	393.60	393.84	394.05	394.74	394.58	394.55	394.56	394.11	393.90	393.71	393.58	
Max	393.86	393.68	394.51	394.84	396.89	395.77	396.32	395.83	394.40	394.27	393.83	393.61	396.89
Min	393.55	393.58	393.60	393.71	393.98	394.14	394.25	394.30	393.88	393.77	393.64	393.55	393.55
Annual Max Momentary Gage Height	397.60		m. (MSL.) ,			at 09.00 Hours ,	on Aug 16, 2021						
Zero Gage at Bottom Elevation	393.40		m. (MSL.) ,			River Bed	393.30	m. (MSL.)					
Left Bank Elevation		399.79		m. (MSL.) ,									
Right Bank Elevation		399.73		m. (MSL.) ,		Drainage Are	652	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.52	0.88	2.86	6.18	9.85	12.70	44.05	10.30	3.08	1.93	0.60	
2	0.48	0.60	0.81	2.02	6.46	10.62	12.54	15.38	10.00	3.08	1.84	0.60	
3	0.40	0.60	0.67	1.75	8.05	13.34	12.22	14.35	10.00	2.97	1.75	0.60	
4	0.40	0.60	0.81	1.57	13.02	14.35	11.74	24.73	9.85	2.97	1.75	0.60	
5	0.48	0.60	0.88	1.39	18.80	8.05	10.94	22.38	9.85	2.86	1.93	0.60	
6	0.60	0.60	0.67	2.53	8.20	8.95	10.00	18.20	9.70	2.75	2.53	0.56	
7	0.81	0.60	0.60	4.64	7.60	10.78	9.40	15.20	9.55	2.75	2.02	0.60	
8	0.88	0.60	0.88	3.90	6.46	7.90	8.50	13.50	9.55	2.53	1.93	0.60	
9	0.88	0.60	7.75	9.10	4.26	7.60	8.05	13.18	9.40	2.53	1.48	0.56	
10	0.88	0.60	8.50	5.76	4.92	7.30	12.38	13.02	9.40	2.64	1.30	0.56	
11	0.88	0.60	1.48	4.26	39.10	7.02	18.40	12.86	9.25	2.75	1.16	0.52	
12	0.88	0.67	1.57	3.08	26.67	6.74	10.62	12.86	8.65	2.86	1.16	0.52	
13	0.88	0.95	2.20	2.11	12.70	6.46	9.85	12.70	6.88	2.97	1.16	0.52	
14	0.88	0.60	6.74	1.57	21.20	7.75	9.10	12.70	5.76	3.08	1.02	0.52	
15	0.88	0.56	12.06	2.31	47.90	9.40	9.55	12.54	5.20	3.19	1.02	0.48	
16	0.74	0.56	5.76	4.02	91.95	13.67	10.62	11.58	4.78	8.35	0.95	0.48	
17	0.60	0.56	4.26	1.57	35.80	21.20	9.85	10.46	4.50	5.90	0.95	0.44	
18	0.60	1.16	3.08	1.39	27.94	11.74	9.10	10.30	4.26	4.50	1.09	0.44	
19	0.67	0.81	2.02	3.30	21.67	16.82	8.65	10.30	4.14	4.26	1.66	0.44	
20	0.81	0.88	1.39	9.25	19.88	40.90	8.05	9.70	4.02	4.26	1.57	0.40	
21	0.81	0.60	1.16	4.26	17.60	18.20	8.95	9.25	3.90	4.14	1.48	0.40	
22	0.88	0.60	1.09	13.50	15.03	20.98	22.14	9.10	3.66	4.02	1.30	0.40	
23	0.88	0.56	0.95	17.80	14.18	42.10	63.40	9.10	3.66	3.90	1.48	0.52	
24	0.88	0.56	0.81	12.86	12.70	17.80	24.49	8.80	3.66	3.54	1.30	0.52	
25	0.88	0.56	2.75	9.85	11.42	14.01	17.40	9.10	3.66	3.30	1.16	0.52	
26	2.86	0.56	8.95	9.25	9.10	14.86	13.18	9.40	3.54	3.08	1.16	0.52	
27	1.09	0.56	5.76	10.62	11.90	13.84	10.46	9.70	3.42	2.75	1.02	0.56	
28	0.56	0.56	3.19	7.45	18.80	12.86	9.70	9.85	3.30	2.42	0.88	0.60	
29	0.52	0.67	2.20	6.32	14.35	12.38	8.80	10.00	3.08	2.20		0.60	
30	0.56	0.56	2.31	6.32	11.10	11.58	8.80	10.30	3.08	2.02		0.67	
31		0.56		6.04	8.50		24.96		3.08	1.93		0.67	
<b>Total</b>	24.07	19.62	92.18	172.65	573.44	419.05	424.54	404.59	193.08	103.58	39.98	16.62	2483.40 CMSDAY
<b>Mean</b>	0.80	0.63	3.07	5.57	18.50	13.97	13.69	13.49	6.23	3.34	1.43	0.54	6.80 CMS
<b>Max</b>	2.86	1.16	12.06	17.80	91.95	42.10	63.40	44.05	10.30	8.35	2.53	0.67	91.95 CMS
<b>Min</b>	0.40	0.52	0.60	1.39	4.26	6.46	8.05	8.80	3.08	1.93	0.88	0.40	0.40 CMS
<b>Runoff</b>	2.08	1.70	7.96	14.92	49.55	36.21	36.68	34.96	16.68	8.95	3.45	1.44	214.57 MCM
<b>Momentary Peak</b>	134.50	CMS.	at 397.60 m. (MSL.)	at 09.00 Hours	on Aug 16, 2021								
<b>Runoff Yield</b>	10.44	Liters/Second/Square KM.		Momentary Peak Yield	206.29	Liters/Second/Square KM.							

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Nam Mae Chan at Ban Hua Saphan , Chiang Rai (Kh.89)

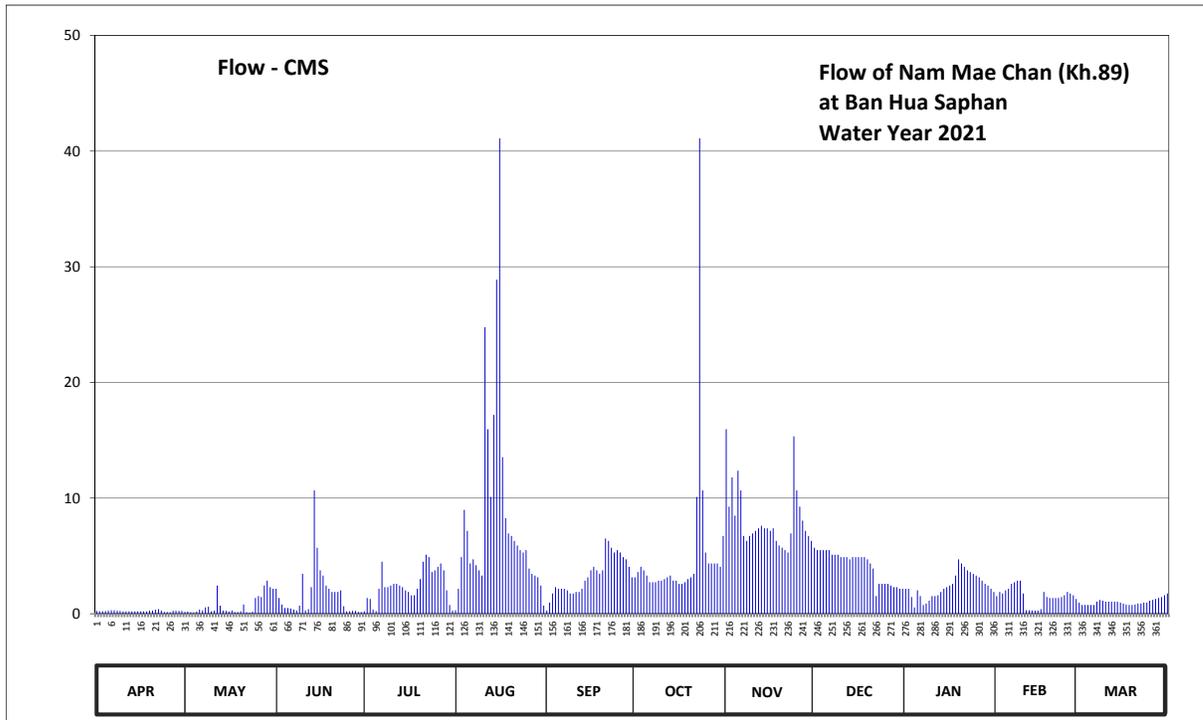
Lat 20 - 09 - 27 N Long 99 - 51 - 35 E

Location : on right bank at the bridge of Mae Chan - Mae Sai Highway from Tambon Pa Sang.

	Ban Hua Saphan	Amphoe Mae Chan	Changwat Chiang Rai
<b>Drainage Area</b>	254 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+406.385 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Temporary.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+408.840 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

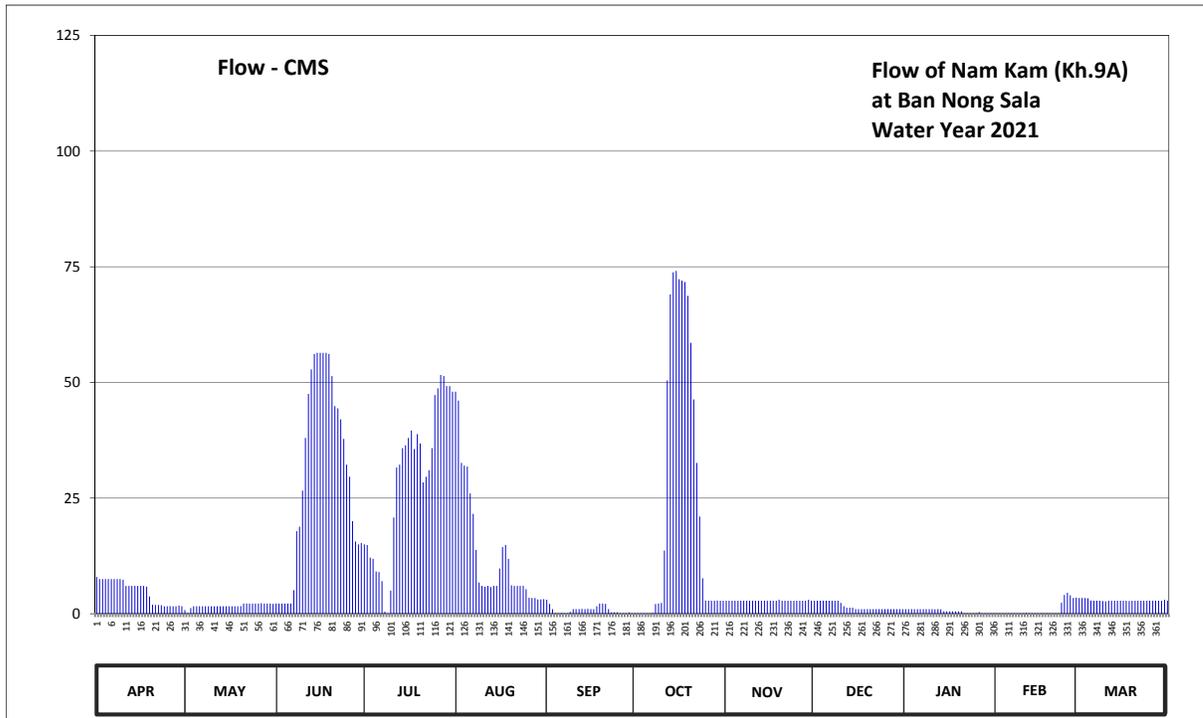
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	406.59	406.42	406.94	406.53	406.69	406.66	407.01	407.55	407.16	406.94	406.89	406.82	
2	406.54	406.47	406.87	406.87	406.94	406.82	407.04	407.32	407.15	406.94	406.92	406.79	
3	406.54	406.37	406.80	406.86	407.12	406.91	407.07	407.41	407.15	406.88	406.91	406.79	
4	406.56	406.34	406.74	406.71	407.31	406.95	407.05	407.29	407.15	406.75	406.93	406.79	
5	406.63	406.47	406.74	406.55	407.23	406.94	407.02	407.43	407.15	406.93	406.94	406.79	
6	406.69	406.71	406.73	406.94	407.09	406.94	406.98	407.37	407.15	406.89	406.97	406.79	
7	406.69	406.68	406.71	407.10	407.11	406.94	406.98	407.21	407.13	406.79	406.98	406.83	
8	406.66	406.75	406.66	406.95	407.08	406.93	406.98	407.19	407.13	406.81	406.99	406.85	
9	406.58	406.76	406.78	406.95	407.05	406.91	406.99	407.21	407.13	406.84	406.99	406.84	
10	406.49	406.49	407.03	406.96	407.02	406.91	406.99	407.22	407.12	406.89	406.91	406.83	
11	406.49	406.64	406.68	406.97	407.81	406.92	407.00	407.23	407.12	406.89	406.70	406.83	
12	406.49	406.96	406.72	406.97	407.55	406.92	407.01	407.24	407.12	406.90	406.69	406.83	
13	406.49	406.78	406.95	406.96	407.35	406.94	407.02	407.25	407.11	406.92	406.67	406.83	
14	406.49	406.64	407.37	406.95	407.59	406.99	406.99	407.24	407.12	406.94	406.64	406.83	
15	406.49	406.58	407.16	406.93	407.92	407.01	406.99	407.24	407.12	406.95	406.64	406.82	
16	406.49	406.47	407.05	406.92	408.21	407.05	406.97	407.23	407.12	406.96	406.72	406.81	
17	406.49	406.66	407.02	406.90	407.47	407.07	406.97	407.24	407.12	406.97	406.92	406.80	
18	406.52	406.40	406.96	406.90	407.28	407.05	406.98	407.19	407.12	407.02	406.88	406.79	
19	406.61	406.39	406.94	406.94	407.22	407.03	407.00	407.17	407.11	407.11	406.87	406.79	
20	406.65	406.54	406.92	407.00	407.21	407.05	407.01	407.16	407.09	407.09	406.87	406.80	
21	406.71	406.80	406.92	407.10	407.19	407.20	407.03	407.15	407.06	407.07	406.87	406.81	
22	406.72	406.35	406.92	407.13	407.17	407.19	407.35	407.14	406.89	407.05	406.87	406.81	
23	406.64	406.31	406.93	407.12	407.15	407.16	408.21	407.22	406.97	407.04	406.88	406.82	
24	406.40	406.48	406.77	407.04	407.14	407.14	407.37	407.53	406.97	407.03	406.90	406.82	
25	406.39	406.87	406.50	407.05	407.15	407.15	407.14	407.37	406.97	407.02	406.92	406.84	
26	406.38	406.89	406.54	407.07	407.06	407.14	407.09	407.32	406.97	407.01	406.91	406.85	
27	406.61	406.88	406.60	407.09	407.03	407.12	407.09	407.27	406.96	406.99	406.90	406.86	
28	406.61	406.96	406.60	407.05	407.02	407.11	407.09	407.23	406.95	406.97	406.86	406.87	
29	406.59	406.99	406.39	406.93	407.01	407.07	407.09	407.21	406.95	406.96		406.88	
30	406.57	406.95	406.39	406.79	406.96	407.01	407.07	407.19	406.94	406.94		406.90	
31		406.94		406.63	406.78		407.21		406.94	406.92		406.91	
Mean	406.56	406.64	406.81	406.93	407.22	407.01	407.09	407.27	407.07	406.95	406.86	406.83	
Max	406.72	406.99	407.37	407.13	408.21	407.20	408.21	407.55	407.16	407.11	406.99	406.91	408.21
Min	406.38	406.31	406.39	406.53	406.69	406.66	406.97	407.14	406.89	406.75	406.64	406.79	406.31
Annual Max Momentary Gage Height	408.69		m. (MSL.) ,				at 19.00 Hours ,						
Zero Gage at Bottom Elevation	406.38		m. (MSL.) ,			River Bed	406.02	m. (MSL.)					
Left Bank Elevation		411.66		m. (MSL.) ,									
Right Bank Elevation		411.70		m. (MSL.) ,		Drainage Are	254	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.16	2.16	0.22	0.30	0.28	3.15	15.95	5.70	2.16	1.52	0.96	
2	0.22	0.19	1.36	1.36	2.16	0.96	3.60	9.26	5.50	2.16	1.88	0.75	
3	0.22	0.14	0.80	1.28	4.90	1.74	4.05	11.79	5.50	1.44	1.74	0.75	
4	0.23	0.12	0.50	0.35	8.98	2.30	3.75	8.48	5.50	0.55	2.02	0.75	
5	0.27	0.19	0.50	0.23	7.16	2.16	3.30	12.37	5.50	2.02	2.16	0.75	
6	0.30	0.35	0.45	2.16	4.35	2.16	2.72	10.66	5.50	1.52	2.58	0.75	
7	0.30	0.29	0.35	4.50	4.70	2.16	2.72	6.72	5.10	0.75	2.72	1.04	
8	0.28	0.55	0.28	2.30	4.20	2.02	2.72	6.30	5.10	0.88	2.86	1.20	
9	0.24	0.60	0.70	2.30	3.75	1.74	2.86	6.72	5.10	1.12	2.86	1.12	
10	0.20	0.20	3.45	2.44	3.30	1.74	2.86	6.94	4.90	1.52	1.74	1.04	
11	0.20	0.27	0.29	2.58	24.77	1.88	3.00	7.16	4.90	1.52	0.30	1.04	
12	0.20	2.44	0.40	2.58	15.95	1.88	3.15	7.38	4.90	1.60	0.30	1.04	
13	0.20	0.70	2.30	2.44	10.10	2.16	3.30	7.60	4.70	1.88	0.29	1.04	
14	0.20	0.27	10.66	2.30	17.19	2.86	2.86	7.38	4.90	2.16	0.27	1.04	
15	0.20	0.24	5.70	2.02	28.88	3.15	2.86	7.38	4.90	2.30	0.27	0.96	
16	0.20	0.19	3.75	1.88	41.10	3.75	2.58	7.16	4.90	2.44	0.40	0.88	
17	0.20	0.28	3.30	1.60	13.53	4.05	2.58	7.38	4.90	2.58	1.88	0.80	
18	0.21	0.15	2.44	1.60	8.26	3.75	2.72	6.30	4.90	3.30	1.44	0.75	
19	0.26	0.15	2.16	2.16	6.94	3.45	3.00	5.90	4.70	4.70	1.36	0.75	
20	0.28	0.22	1.88	3.00	6.72	3.75	3.15	5.70	4.35	4.35	1.36	0.80	
21	0.35	0.80	1.88	4.50	6.30	6.50	3.45	5.50	3.90	4.05	1.36	0.88	
22	0.40	0.13	1.88	5.10	5.90	6.30	10.10	5.30	1.52	3.75	1.36	0.88	
23	0.27	0.11	2.02	4.90	5.50	5.70	41.10	6.94	2.58	3.60	1.44	0.96	
24	0.15	0.19	0.65	3.60	5.30	5.30	10.66	15.33	2.58	3.45	1.60	0.96	
25	0.15	1.36	0.20	3.75	5.50	5.50	5.30	10.66	2.58	3.30	1.88	1.12	
26	0.14	1.52	0.22	4.05	3.90	5.30	4.35	9.26	2.58	3.15	1.74	1.20	
27	0.26	1.44	0.25	4.35	3.45	4.90	4.35	8.04	2.44	2.86	1.60	1.28	
28	0.26	2.44	0.25	3.75	3.30	4.70	4.35	7.16	2.30	2.58	1.28	1.36	
29	0.25	2.86	0.15	2.02	3.15	4.05	4.35	6.72	2.30	2.44		1.44	
30	0.24	2.30	0.15	0.75	2.44	3.15	4.05	6.30	2.16	2.16		1.60	
31		2.16		0.27	0.70		6.72		2.16	1.88		1.74	
<b>Total</b>	7.13	23.01	51.08	76.34	262.68	99.34	159.71	245.74	128.55	74.17	42.21	31.63	1201.59 CMSDAY
<b>Mean</b>	0.24	0.74	1.70	2.46	8.47	3.31	5.15	8.19	4.15	2.39	1.51	1.02	3.29 CMS
<b>Max</b>	0.40	2.86	10.66	5.10	41.10	6.50	41.10	15.95	5.70	4.70	2.86	1.74	41.10 CMS
<b>Min</b>	0.14	0.11	0.15	0.22	0.30	0.28	2.58	5.30	1.52	0.55	0.27	0.75	0.11 CMS
<b>Runoff</b>	0.62	1.99	4.41	6.60	22.70	8.58	13.80	21.23	11.11	6.41	3.65	2.73	103.82 MCM
<b>Momentary Peak</b>	66.77 CMS. at 408.69 m. (MSL.) at 19.00 Hours , on Aug 11, 2021												
<b>Runoff Yield</b>	12.96 Liters/Second/Square KM.			Momentary Peak Yield			262.87 Liters/Second/Square KM.						





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.95	0.80	2.20	15.00	48.00	3.04	0.10	2.80	2.80	1.00	0.10	3.40		
2	7.50	0.22	2.20	14.85	46.08	2.14	0.10	2.80	2.80	1.00	0.10	3.40		
3	7.50	1.24	2.20	12.15	32.60	1.00	0.10	2.80	2.80	1.00	0.10	3.40		
4	7.50	1.60	2.20	11.85	32.00	0.14	0.10	2.80	2.80	1.00	0.10	3.34		
5	7.50	1.60	2.20	9.15	31.80	0.10	0.10	2.80	2.80	1.00	0.10	2.86		
6	7.50	1.60	2.20	9.00	26.00	0.18	0.10	2.80	2.80	1.00	0.10	2.80		
7	7.50	1.60	5.08	7.05	21.60	0.10	0.22	2.80	2.80	1.00	0.10	2.80		
8	7.50	1.60	17.85	0.46	13.80	0.10	2.08	2.80	2.80	1.00	0.10	2.80		
9	7.50	1.60	18.80	0.10	6.75	0.42	2.20	2.80	2.80	1.00	0.10	2.74		
10	7.35	1.60	26.60	5.02	6.00	1.00	2.32	2.80	2.32	1.00	0.10	2.68		
11	6.00	1.60	38.00	20.80	5.84	1.00	13.65	2.80	1.60	0.95	0.22	2.80		
12	6.00	1.60	47.52	31.60	6.00	1.00	50.40	2.80	1.30	1.00	0.10	2.80		
13	6.00	1.60	52.80	32.20	5.76	1.06	69.00	2.80	1.30	0.95	0.10	2.80		
14	6.00	1.60	56.16	35.80	6.00	1.00	73.80	2.80	1.30	0.55	0.10	2.80		
15	6.00	1.60	56.40	36.40	6.00	1.06	74.10	2.80	1.00	0.50	0.10	2.80		
16	6.00	1.60	56.40	38.00	9.75	1.00	72.30	2.80	1.00	0.50	0.10	2.80		
17	6.00	1.60	56.40	39.60	14.40	1.00	72.00	2.80	1.00	0.50	0.10	2.80		
18	5.84	1.60	56.40	35.60	14.85	1.60	71.70	2.80	1.00	0.50	0.10	2.74		
19	3.76	1.60	56.16	38.80	11.85	2.20	68.70	3.04	1.00	0.50	0.10	2.80		
20	1.96	1.66	51.36	36.80	6.15	2.20	58.56	2.80	1.00	0.50	0.10	2.80		
21	1.90	2.20	44.88	28.40	6.00	2.14	46.32	2.80	1.00	0.10	0.10	2.80		
22	1.90	2.20	44.40	29.60	6.00	1.00	32.60	2.80	1.00	0.10	0.10	2.80		
23	1.84	2.20	42.00	31.00	6.00	0.30	21.00	2.80	1.00	0.10	2.38	2.80		
24	1.60	2.20	37.80	35.80	6.00	0.30	7.65	2.80	1.00	0.10	4.06	2.80		
25	1.60	2.20	32.20	47.28	5.28	0.30	2.86	2.80	1.00	0.14	4.54	2.80		
26	1.66	2.20	29.60	48.72	3.46	0.10	2.80	2.80	1.00	0.34	4.00	2.80		
27	1.60	2.26	20.00	51.60	3.40	0.10	2.80	2.80	1.00	0.10	3.40	2.80		
28	1.60	2.20	15.60	51.36	3.40	0.10	2.80	2.80	1.00	0.10	3.46	2.80		
29	1.78	2.20	15.00	49.20	3.10	0.26	2.86	3.04	1.00	0.10		2.80		
30	1.60	2.20	15.30	49.20	3.10	0.10	2.80	2.80	1.00	0.10		3.04		
31		2.14		48.00	3.16		2.80		1.00	0.10		2.80		
Total	145.94	53.72	905.91	900.39	400.13	26.04	758.92	84.48	50.02	17.83	24.16	89.20	3456.74 CMSDAY	
Mean	4.86	1.73	30.20	29.04	12.91	0.87	24.48	2.82	1.61	0.58	0.86	2.88	9.47 CMS	
Max	7.95	2.26	56.40	51.60	48.00	3.04	74.10	3.04	2.80	1.00	4.54	3.40	74.10 CMS	
Min	1.60	0.22	2.20	0.10	3.10	0.10	0.10	2.80	1.00	0.10	0.10	2.68	0.10 CMS	
Runoff	12.61	4.64	78.27	77.79	34.57	2.25	65.57	7.30	4.32	1.54	2.09	7.71	298.66 MCM	
Momentary Peak		75.00	CMS.	at 155.30 m. (MSL.)	at 11.00 Hours		on Oct 14, 2021							
Runoff Yield		5.74	Liters/Second/Square KM.		Momentary Peak Yield	45.43	Liters/Second/Square KM.							

## WATER YEAR : 2021

## KHONG RIVER BASIN

Huai Mong at Ban Na Ang , Udon Thani (Kh.18)

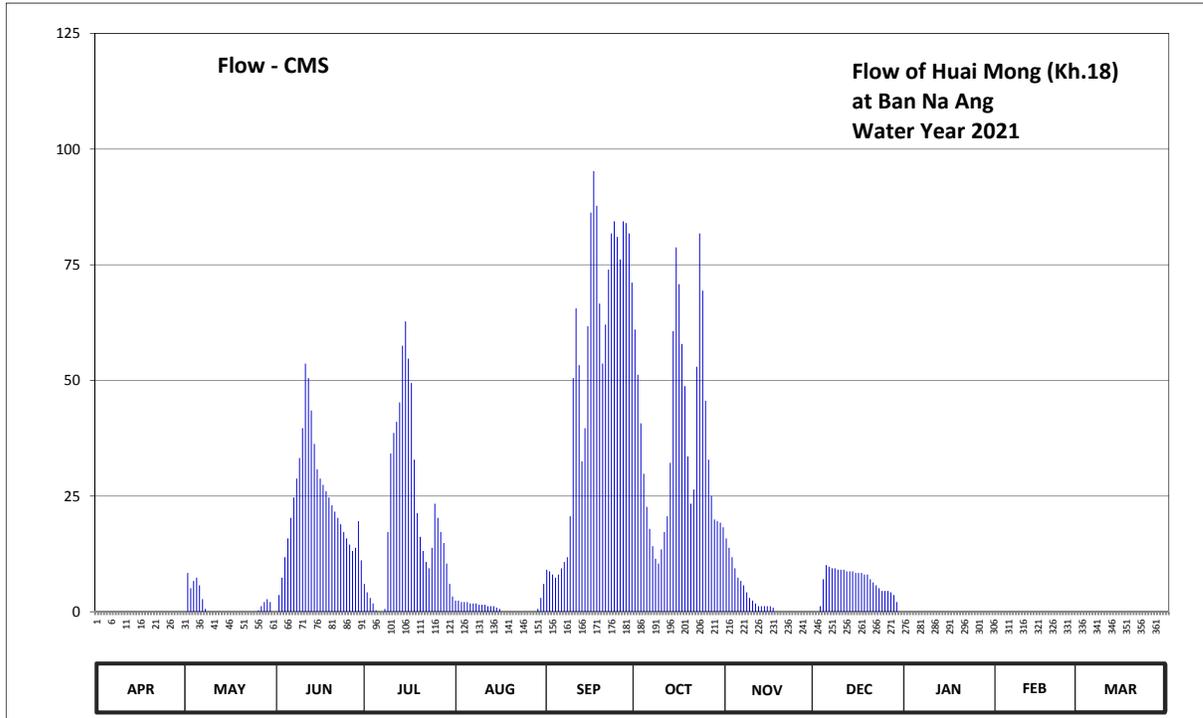
Lat 17 - 34 - 44 N Long 102 - 20 - 04 E

Location : on right bank between Phu Pha Dang and Phu Phan about 2 kilometers from Ban Na Ang.

	<b>Ban Na Ang</b>	<b>Amphoe Ban Phu</b>	<b>Changwat Udon Thani</b>
<b>Drainage Area</b>	1,313 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+183.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b>	+189.872 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1957 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.40	184.54	185.79	186.00	185.88	186.09	187.60	186.29	185.70	185.69	185.01	184.80	
2	183.42	186.07	185.92	185.94	185.88	186.08	187.32	186.23	185.77	185.66	185.00	184.78	
3	183.43	185.97	186.04	185.90	185.87	186.06	187.02	186.17	185.84	185.64	185.00	184.77	
4	183.44	186.02	186.17	185.86	185.87	186.04	186.70	186.10	186.03	185.60	184.99	184.76	
5	183.45	186.04	186.29	185.81	185.87	186.06	186.49	186.04	186.12	185.57	184.98	184.75	
6	183.46	185.99	186.42	185.77	185.86	186.10	186.35	186.02	186.11	185.54	184.97	184.73	
7	183.47	185.89	186.55	185.73	185.86	186.14	186.24	185.99	186.10	185.51	184.96	184.72	
8	183.48	185.82	186.67	185.82	185.86	186.17	186.16	185.94	186.10	185.48	184.94	184.71	
9	183.49	185.77	186.80	186.33	185.85	186.43	186.13	185.90	186.09	185.45	184.92	184.70	
10	183.50	185.75	186.99	186.83	185.85	187.30	186.22	185.88	186.09	185.42	184.90	184.69	
11	183.50	185.74	187.39	186.96	185.85	187.73	186.33	185.86	186.09	185.39	184.88	184.67	
12	183.50	185.73	187.30	187.03	185.84	187.38	186.43	185.84	186.08	185.36	184.86	184.66	
13	183.50	185.73	187.10	187.15	185.84	186.78	186.77	185.84	186.08	185.31	184.84	184.65	
14	183.50	185.72	186.89	187.50	185.84	186.99	187.59	185.84	186.08	185.27	184.80	184.64	
15	183.50	185.71	186.73	187.65	185.83	187.62	188.10	185.84	186.07	185.26	184.79	184.63	
16	183.50	185.70	186.67	187.42	185.82	188.30	187.88	185.84	186.07	185.25	184.79	184.62	
17	183.50	185.70	186.63	187.27	185.80	188.54	187.51	185.83	186.07	185.23	184.79	184.62	
18	183.50	185.69	186.59	186.79	185.78	188.34	187.25	185.80	186.06	185.21	184.80	184.61	
19	183.50	185.69	186.55	186.45	185.77	187.76	186.81	185.79	186.06	185.19	184.80	184.60	
20	183.50	185.68	186.50	186.30	185.76	187.39	186.51	185.78	186.03	185.17	184.80	184.60	
21	183.51	185.67	186.46	186.21	185.74	187.63	186.60	185.77	186.01	185.15	184.81	184.59	
22	183.51	185.69	186.42	186.14	185.73	187.97	187.37	185.76	185.99	185.13	184.81	184.59	
23	183.51	185.72	186.38	186.10	185.71	188.18	188.18	185.75	185.97	185.11	184.81	184.58	
24	183.51	185.75	186.33	186.23	185.70	188.25	187.84	185.74	185.95	185.10	184.81	184.57	
25	183.51	185.79	186.29	186.51	185.69	188.16	187.16	185.73	185.95	185.09	184.81	184.56	
26	183.51	185.81	186.25	186.42	185.68	188.03	186.79	185.71	185.95	185.08	184.80	184.56	
27	183.51	185.84	186.21	186.33	185.68	188.25	186.56	185.71	185.94	185.07	184.80	184.55	
28	183.52	185.87	186.23	186.26	185.76	188.24	186.41	185.70	185.92	185.06	184.80	184.54	
29	183.52	185.89	186.40	186.13	185.82	188.18	186.40	185.70	185.87	185.06		184.74	
30	183.53	185.87	186.15	186.00	185.90	187.89	186.39	185.69	185.80	185.05		185.10	
31		185.79		185.91	186.00		186.36		185.74	185.04		185.45	
Mean	183.49	185.76	186.50	186.41	185.81	187.34	186.89	185.87	185.99	185.29	184.87	184.69	
Max	183.53	186.07	187.39	187.65	186.00	188.54	188.18	186.29	186.12	185.69	185.01	185.45	188.54
Min	183.40	184.54	185.79	185.73	185.68	186.04	186.13	185.69	185.70	185.04	184.79	184.54	183.40
Annual Max Momentary Gage Height	188.58	m. (MSL.) ,		at 16.00 Hours , on Sep 17, 2021									
Zero Gage at Bottom Elevation	183.40	m. (MSL.) ,		River Bed 183.93 m. (MSL.)									
Left Bank Elevation	188.70	m. (MSL.) ,											
Right Bank Elevation	188.86	m. (MSL.) ,		Drainage Area 1,313 Square Kilometers									



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	6.00	2.40	9.06	61.00	15.86	0.00	0.00	0.00	0.00	
2	0.00	8.38	3.60	4.20	2.40	8.72	51.20	13.82	0.00	0.00	0.00	0.00	
3	0.00	5.10	7.36	3.00	2.10	8.04	40.70	11.78	1.20	0.00	0.00	0.00	
4	0.00	6.68	11.78	1.80	2.10	7.36	29.80	9.40	7.02	0.00	0.00	0.00	
5	0.00	7.36	15.86	0.30	2.10	8.04	22.66	7.36	10.08	0.00	0.00	0.00	
6	0.00	5.70	20.28	0.00	1.80	9.40	17.90	6.68	9.74	0.00	0.00	0.00	
7	0.00	2.70	24.70	0.00	1.80	10.76	14.16	5.70	9.40	0.00	0.00	0.00	
8	0.00	0.60	28.78	0.60	1.80	11.78	11.44	4.20	9.40	0.00	0.00	0.00	
9	0.00	0.00	33.20	17.22	1.50	20.62	10.42	3.00	9.06	0.00	0.00	0.00	
10	0.00	0.00	39.66	34.22	1.50	50.50	13.48	2.40	9.06	0.00	0.00	0.00	
11	0.00	0.00	53.65	38.64	1.50	65.55	17.22	1.80	9.06	0.00	0.00	0.00	
12	0.00	0.00	50.50	41.05	1.20	53.30	20.62	1.20	8.72	0.00	0.00	0.00	
13	0.00	0.00	43.50	45.25	1.20	32.52	32.18	1.20	8.72	0.00	0.00	0.00	
14	0.00	0.00	36.26	57.50	1.20	39.66	60.65	1.20	8.72	0.00	0.00	0.00	
15	0.00	0.00	30.82	62.75	0.90	61.70	78.75	1.20	8.38	0.00	0.00	0.00	
16	0.00	0.00	28.78	54.70	0.60	86.25	70.80	1.20	8.38	0.00	0.00	0.00	
17	0.00	0.00	27.42	49.45	0.00	95.25	57.85	0.90	8.38	0.00	0.00	0.00	
18	0.00	0.00	26.06	32.86	0.00	87.75	48.75	0.00	8.04	0.00	0.00	0.00	
19	0.00	0.00	24.70	21.30	0.00	66.60	33.54	0.00	8.04	0.00	0.00	0.00	
20	0.00	0.00	23.00	16.20	0.00	53.65	23.34	0.00	7.02	0.00	0.00	0.00	
21	0.00	0.00	21.64	13.14	0.00	62.05	26.40	0.00	6.34	0.00	0.00	0.00	
22	0.00	0.00	20.28	10.76	0.00	73.95	52.95	0.00	5.70	0.00	0.00	0.00	
23	0.00	0.00	18.92	9.40	0.00	81.75	81.75	0.00	5.10	0.00	0.00	0.00	
24	0.00	0.00	17.22	13.82	0.00	84.38	69.40	0.00	4.50	0.00	0.00	0.00	
25	0.00	0.00	15.86	23.34	0.00	81.00	45.60	0.00	4.50	0.00	0.00	0.00	
26	0.00	0.30	14.50	20.28	0.00	76.13	32.86	0.00	4.50	0.00	0.00	0.00	
27	0.00	1.20	13.14	17.22	0.00	84.38	25.04	0.00	4.20	0.00	0.00	0.00	
28	0.00	2.10	13.82	14.84	0.00	84.00	19.94	0.00	3.60	0.00	0.00	0.00	
29	0.00	2.70	19.60	10.42	0.60	81.75	19.60	0.00	2.10	0.00	0.00	0.00	
30	0.00	2.10	11.10	6.00	3.00	71.15	19.26	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00		3.30	6.00		18.24		0.00	0.00		0.00	
<b>Total</b>	0.00	44.92	695.99	629.56	35.70	1567.05	1127.50	88.90	188.96	0.00	0.00	0.00	4378.58 CMSDAY
<b>Mean</b>	0.00	1.45	23.20	20.31	1.15	52.24	36.37	2.96	6.10	0.00	0.00	0.00	12.00 CMS
<b>Max</b>	0.00	8.38	53.65	62.75	6.00	95.25	81.75	15.86	10.08	0.00	0.00	0.00	95.25 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	7.36	10.42	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	3.88	60.13	54.39	3.08	135.39	97.42	7.68	16.33	0.00	0.00	0.00	378.31 MCM
<b>Momentary Peak</b>	96.75	CMS. at 188.58 m. (MSL.) at 16.00 Hours , on Sep 17, 2021											
<b>Runoff Yield</b>	9.14	Liters/Second/Square KM.		Momentary Peak Yield		73.69	Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

Loei River at Ban Na Lak , Loei (Kh.28A)

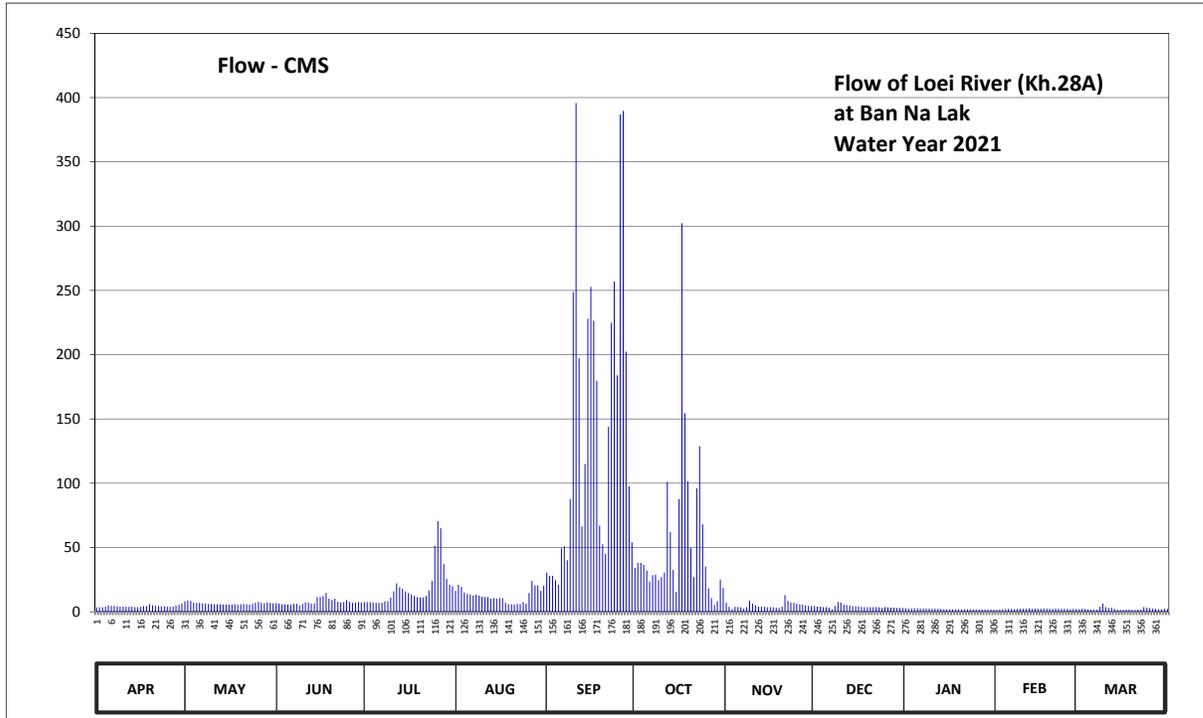
Lat 17 - 18 - 44 N Long 101 - 46 - 21 E

Location : on right bank at the bridge of Wang Saphung - Loei Highway.

	<b>Ban Na Lak</b>	<b>Amphoe Wang Saphung</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	1,289 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+239.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank upstream at the footpath of the bridge.	<b>Elevation</b>	+253.724 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +247.320 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	241.27	241.47	241.42	241.45	241.68	241.99	242.06	241.43	241.32	241.24	241.19	241.20	
2	241.27	241.49	241.41	241.45	241.80	241.94	242.14	241.29	241.30	241.23	241.19	241.21	
3	241.27	241.48	241.39	241.45	241.76	241.94	242.14	241.20	241.29	241.23	241.20	241.21	
4	241.30	241.44	241.39	241.44	241.65	241.87	242.11	241.29	241.28	241.24	241.21	241.17	
5	241.35	241.43	241.38	241.43	241.62	241.80	242.02	241.28	241.28	241.23	241.21	241.16	
6	241.32	241.43	241.37	241.43	241.61	242.37	241.85	241.27	241.26	241.23	241.21	241.15	
7	241.33	241.42	241.40	241.44	241.59	242.40	241.95	241.22	241.19	241.23	241.20	241.15	
8	241.32	241.41	241.41	241.47	241.61	242.18	241.96	241.28	241.33	241.23	241.21	241.29	
9	241.30	241.40	241.35	241.47	241.59	243.13	241.87	241.49	241.45	241.23	241.21	241.41	
10	241.30	241.40	241.40	241.55	241.57	245.51	241.92	241.41	241.44	241.22	241.21	241.28	
11	241.30	241.39	241.44	241.67	241.56	247.21	241.99	241.35	241.38	241.22	241.21	241.24	
12	241.29	241.39	241.44	241.82	241.56	244.86	243.40	241.30	241.36	241.22	241.23	241.26	
13	241.29	241.39	241.41	241.75	241.53	242.71	242.62	241.30	241.34	241.21	241.21	241.21	
14	241.28	241.38	241.42	241.72	241.54	243.65	242.03	241.29	241.32	241.19	241.22	241.17	
15	241.28	241.38	241.56	241.67	241.53	245.25	241.66	241.28	241.31	241.19	241.22	241.15	
16	241.29	241.38	241.56	241.64	241.54	245.56	243.13	241.28	241.31	241.19	241.22	241.15	
17	241.32	241.38	241.58	241.61	241.54	245.23	246.17	241.27	241.29	241.19	241.23	241.17	
18	241.32	241.39	241.64	241.58	241.43	244.61	244.25	241.26	241.28	241.19	241.22	241.19	
19	241.39	241.38	241.53	241.56	241.39	242.72	243.41	241.25	241.28	241.19	241.22	241.15	
20	241.35	241.39	241.50	241.55	241.39	242.43	242.37	241.30	241.28	241.19	241.22	241.13	
21	241.33	241.40	241.53	241.55	241.38	242.28	241.92	241.60	241.28	241.20	241.23	241.17	
22	241.32	241.39	241.46	241.58	241.40	244.10	243.30	241.48	241.28	241.20	241.22	241.17	
23	241.31	241.38	241.44	241.69	241.40	245.21	243.88	241.44	241.27	241.20	241.22	241.28	
24	241.31	241.40	241.45	241.86	241.45	245.61	242.74	241.43	241.25	241.19	241.21	241.26	
25	241.30	241.43	241.50	242.41	241.41	244.67	242.08	241.41	241.28	241.19	241.21	241.24	
26	241.29	241.46	241.46	242.79	241.64	247.11	241.73	241.39	241.27	241.19	241.19	241.22	
27	241.30	241.43	241.43	242.68	241.86	247.14	241.54	241.37	241.26	241.19	241.21	241.21	
28	241.34	241.42	241.44	242.12	241.79	244.93	241.36	241.35	241.26	241.19	241.21	241.19	
29	241.37	241.44	241.45	241.89	241.79	243.33	241.47	241.33	241.25	241.19		241.19	
30	241.42	241.43	241.44	241.80	241.68	242.46	241.88	241.32	241.25	241.19		241.21	
31		241.42		241.77	241.78		241.74		241.25	241.19		241.21	
Mean	241.31	241.41	241.45	241.72	241.58	243.87	242.41	241.34	241.30	241.21	241.21	241.21	
Max	241.42	241.49	241.64	242.79	241.86	247.21	246.17	241.60	241.45	241.24	241.23	241.41	247.21
Min	241.27	241.38	241.35	241.43	241.38	241.80	241.36	241.20	241.19	241.19	241.19	241.13	241.13
Annual Max Momentary Gage Height	247.79		m. (MSL.) ,			at 23.00 Hours ,	on Sep 26 , 2021						
Zero Gage at Bottom Elevation	239.60		m. (MSL.) ,			River Bed	238.08	m. (MSL.)					
Left Bank Elevation	247.31		m. (MSL.) ,										
Right Bank Elevation	247.57		m. (MSL.) ,			Drainage Are	1,289	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.40	8.10	6.60	7.50	16.20	30.50	34.00	6.90	4.40	2.80	1.90	2.00		
2	3.40	8.70	6.30	7.50	21.00	28.00	38.00	3.80	4.00	2.60	1.90	2.20		
3	3.40	8.40	5.80	7.50	19.40	28.00	38.00	2.00	3.80	2.60	2.00	2.20		
4	4.00	7.20	5.80	7.20	15.00	24.50	36.50	3.80	3.60	2.80	2.20	1.70		
5	5.00	6.90	5.60	6.90	13.80	21.00	32.00	3.60	3.60	2.60	2.20	1.60		
6	4.40	6.90	5.40	6.90	13.40	49.50	23.50	3.40	3.20	2.60	2.20	1.50		
7	4.60	6.60	6.00	7.20	12.60	51.00	28.50	2.40	1.90	2.60	2.00	1.50		
8	4.40	6.30	6.30	8.10	13.40	40.00	29.00	3.60	4.60	2.60	2.20	3.80		
9	4.00	6.00	5.00	8.10	12.60	87.50	24.50	8.70	7.50	2.60	2.20	6.30		
10	4.00	6.00	6.00	11.00	11.80	248.80	27.00	6.30	7.20	2.40	2.20	3.60		
11	4.00	5.80	7.20	15.80	11.40	395.90	30.50	5.00	5.60	2.40	2.20	2.80		
12	3.80	5.80	7.20	22.00	11.40	197.20	101.00	4.00	5.20	2.40	2.60	3.20		
13	3.80	5.80	6.30	19.00	10.20	66.50	62.00	4.00	4.80	2.20	2.20	2.20		
14	3.60	5.60	6.60	17.80	10.60	115.00	32.50	3.80	4.40	1.90	2.40	1.70		
15	3.60	5.60	11.40	15.80	10.20	228.00	15.40	3.60	4.20	1.90	2.40	1.50		
16	3.80	5.60	11.40	14.60	10.60	252.80	87.50	3.60	4.20	1.90	2.40	1.50		
17	4.40	5.60	12.20	13.40	10.60	226.40	302.30	3.40	3.80	1.90	2.60	1.70		
18	4.40	5.80	14.60	12.20	6.90	179.70	154.50	3.20	3.60	1.90	2.40	1.90		
19	5.80	5.60	10.20	11.40	5.80	67.00	101.50	3.00	3.60	1.90	2.40	1.50		
20	5.00	5.80	9.00	11.00	5.80	52.50	49.50	4.00	3.60	1.90	2.40	1.30		
21	4.60	6.00	10.20	11.00	5.60	45.00	27.00	13.00	3.60	2.00	2.60	1.70		
22	4.40	5.80	7.80	12.20	6.00	144.00	96.00	8.40	3.60	2.00	2.40	1.70		
23	4.20	5.60	7.20	16.60	6.00	224.80	128.80	7.20	3.40	2.00	2.40	3.60		
24	4.20	6.00	7.50	24.00	7.50	256.80	68.00	6.90	3.00	1.90	2.20	3.20		
25	4.00	6.90	9.00	51.50	6.30	183.90	35.00	6.30	3.60	1.90	2.20	2.80		
26	3.80	7.80	7.80	70.50	14.60	386.90	18.20	5.80	3.40	1.90	1.90	2.40		
27	4.00	6.90	6.90	65.00	24.00	389.60	10.60	5.40	3.20	1.90	2.20	2.20		
28	4.80	6.60	7.20	37.00	20.60	202.40	5.20	5.00	3.20	1.90	2.20	1.90		
29	5.40	7.20	7.50	25.50	20.60	97.50	8.10	4.60	3.00	1.90		1.90		
30	6.60	6.90	7.20	21.00	16.20	54.00	25.00	4.40	3.00	1.90		2.20		
31		6.60		19.80	20.20		18.60		3.00	1.90		2.20		
<b>Total</b>	128.80	200.40	233.20	585.00	390.30	4374.70	1688.20	149.10	122.80	67.70	63.10	71.50	8074.80	CMSDAY
<b>Mean</b>	4.29	6.46	7.77	18.87	12.59	145.82	54.46	4.97	3.96	2.18	2.25	2.31	22.12	CMS
<b>Max</b>	6.60	8.70	14.60	70.50	24.00	395.90	302.30	13.00	7.50	2.80	2.60	6.30	395.90	CMS
<b>Min</b>	3.40	5.60	5.00	6.90	5.60	21.00	5.20	2.00	1.90	1.90	1.90	1.30	1.30	CMS
<b>Runoff</b>	11.13	17.31	20.15	50.54	33.72	377.97	145.86	12.88	10.61	5.85	5.45	6.18	697.66	MCM
<b>Momentary Peak</b>	449.00	CMS.	at 247.79 m. (MSL.)	at 23.00 Hours , on Sep 26, 2021										
<b>Runoff Yield</b>	17.16	Liters/Second/Square KM.		Momentary Peak Yield		348.33	Liters/Second/Square KM.							

**WATER YEAR : 2021****KHONG RIVER BASIN****Huai Luang at Ban Nong Wua So , Udon Thani (Kh.53)**

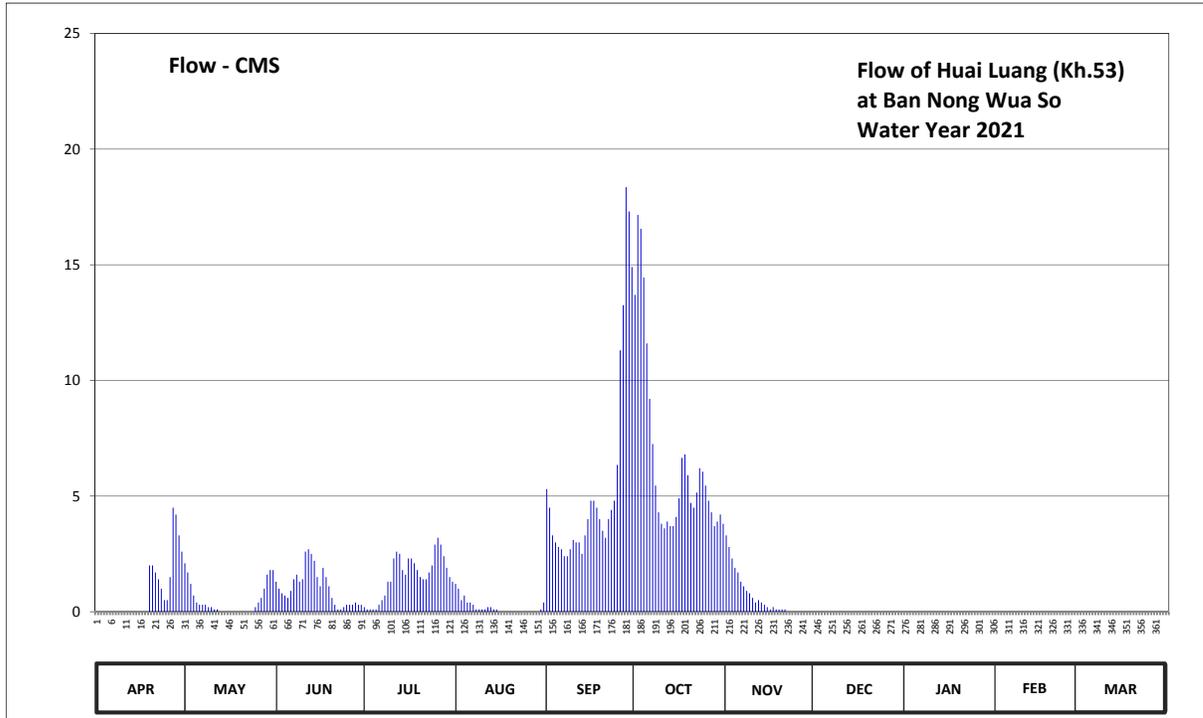
Lat 17 - 15 - 57 N Long 102 - 35 - 33 E

Location : on right bank at the bridge of Udon Thani - Nong Bua Lamphu Highway at guidepost 26.5

	<b>Ban Nong Wua So</b>	<b>Amphoe Nong Wua So</b>	<b>Changwat Udon Thani</b>
<b>Drainage Area</b>	419 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+201.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+206.018 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1970 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1975 - 1986 , 1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1975 - 1986 , 1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Huai Luang barrage. Stage-discharge relation defined by 37 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	203.49	204.31	204.23	204.12	204.22	204.62	205.18	204.43	204.07	204.00	203.86	203.79	
2	203.49	204.27	204.20	204.11	204.20	204.55	205.41	204.38	204.07	203.99	203.86	203.79	
3	203.50	204.22	204.18	204.11	204.15	204.43	205.37	204.33	204.07	203.99	203.85	203.78	
4	203.50	204.17	204.17	204.11	204.17	204.40	205.23	204.29	204.06	203.98	203.84	203.77	
5	203.51	204.14	204.16	204.11	204.14	204.38	205.04	204.27	204.07	203.98	203.83	203.76	
6	203.52	204.13	204.19	204.13	204.14	204.37	204.88	204.23	204.07	203.97	203.82	203.75	
7	203.53	204.13	204.24	204.15	204.13	204.34	204.75	204.21	204.07	203.97	203.82	203.74	
8	203.54	204.13	204.26	204.17	204.11	204.34	204.63	204.19	204.07	203.96	203.81	203.74	
9	203.55	204.12	204.23	204.23	204.11	204.37	204.53	204.18	204.07	203.96	203.81	203.73	
10	203.54	204.12	204.24	204.23	204.11	204.41	204.48	204.16	204.07	203.95	203.80	203.73	
11	203.54	204.11	204.36	204.33	204.11	204.40	204.46	204.14	204.07	203.95	203.80	203.72	
12	203.53	204.11	204.37	204.36	204.12	204.40	204.49	204.15	204.06	203.94	203.80	203.72	
13	203.53	204.10	204.35	204.35	204.12	204.35	204.47	204.14	204.05	203.94	203.79	203.71	
14	203.52	204.10	204.32	204.28	204.11	204.43	204.47	204.13	204.05	203.94	203.79	203.71	
15	203.52	204.09	204.25	204.26	204.11	204.50	204.51	204.12	204.06	203.93	203.79	203.71	
16	203.58	204.09	204.21	204.33	204.10	204.58	204.59	204.11	204.05	203.93	203.79	203.71	
17	203.75	204.08	204.29	204.33	204.09	204.58	204.71	204.12	204.05	203.92	203.79	203.72	
18	203.94	204.08	204.25	204.31	204.08	204.55	204.72	204.11	204.05	203.92	203.79	203.72	
19	204.30	204.07	204.21	204.28	204.07	204.50	204.66	204.11	204.04	203.91	203.79	203.72	
20	204.30	204.07	204.16	204.25	204.08	204.45	204.57	204.11	204.04	203.91	203.79	203.73	
21	204.27	204.06	204.13	204.24	204.07	204.42	204.55	204.11	204.04	203.90	203.80	203.73	
22	204.24	204.07	204.11	204.24	204.02	204.50	204.61	204.10	204.04	203.89	203.80	203.73	
23	204.20	204.08	204.11	204.27	203.97	204.54	204.68	204.09	204.03	203.88	203.80	203.74	
24	204.15	204.10	204.12	204.30	203.95	204.58	204.67	204.09	204.03	203.88	203.80	203.74	
25	204.15	204.12	204.13	204.39	203.94	204.69	204.63	204.08	204.04	203.87	203.80	203.74	
26	204.25	204.14	204.13	204.42	203.92	205.02	204.58	204.08	204.02	203.87	203.80	203.75	
27	204.55	204.16	204.13	204.39	203.95	205.15	204.53	204.08	204.01	203.86	203.79	203.75	
28	204.52	204.20	204.14	204.34	204.07	205.49	204.47	204.08	204.01	203.86	203.79	203.75	
29	204.43	204.26	204.13	204.29	204.10	205.42	204.49	204.08	204.01	203.86	203.79	203.75	
30	204.36	204.28	204.13	204.25	204.11	205.26	204.52	204.07	204.01	203.86	203.79	203.75	
31		204.28		204.23	204.14		204.48		204.01	203.86	203.79	203.71	
Mean	203.86	204.14	204.20	204.26	204.09	204.60	204.69	204.16	204.05	203.92	203.81	203.74	
Max	204.55	204.31	204.37	204.42	204.22	205.49	205.41	204.43	204.07	204.00	203.86	203.79	205.49
Min	203.49	204.06	204.11	204.11	203.92	204.34	204.46	204.07	204.01	203.86	203.79	203.71	203.49
Annual Max Momentary Gage Height	205.51		m. (MSL.) ,			at 09.00 Hours ,	on Sep 28, 2021						
Zero Gage at Bottom Elevation	201.30		m. (MSL.) ,			River Bed	203.22	m. (MSL.)					
Left Bank Elevation		206.21		m. (MSL.) ,									
Right Bank Elevation		207.53		m. (MSL.) ,		Drainage Are	419	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.10	1.30	0.20	1.20	5.30	13.70	3.30	0.00	0.00	0.00	0.00	
2	0.00	1.70	1.00	0.10	1.00	4.50	17.15	2.80	0.00	0.00	0.00	0.00	
3	0.00	1.20	0.80	0.10	0.50	3.30	16.55	2.30	0.00	0.00	0.00	0.00	
4	0.00	0.70	0.70	0.10	0.70	3.00	14.45	1.90	0.00	0.00	0.00	0.00	
5	0.00	0.40	0.60	0.10	0.40	2.80	11.60	1.70	0.00	0.00	0.00	0.00	
6	0.00	0.30	0.90	0.30	0.40	2.70	9.20	1.30	0.00	0.00	0.00	0.00	
7	0.00	0.30	1.40	0.50	0.30	2.40	7.25	1.10	0.00	0.00	0.00	0.00	
8	0.00	0.30	1.60	0.70	0.10	2.40	5.45	0.90	0.00	0.00	0.00	0.00	
9	0.00	0.20	1.30	1.30	0.10	2.70	4.30	0.80	0.00	0.00	0.00	0.00	
10	0.00	0.20	1.40	1.30	0.10	3.10	3.80	0.60	0.00	0.00	0.00	0.00	
11	0.00	0.10	2.60	2.30	0.10	3.00	3.60	0.40	0.00	0.00	0.00	0.00	
12	0.00	0.10	2.70	2.60	0.20	3.00	3.90	0.50	0.00	0.00	0.00	0.00	
13	0.00	0.00	2.50	2.50	0.20	2.50	3.70	0.40	0.00	0.00	0.00	0.00	
14	0.00	0.00	2.20	1.80	0.10	3.30	3.70	0.30	0.00	0.00	0.00	0.00	
15	0.00	0.00	1.50	1.60	0.10	4.00	4.10	0.20	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.10	2.30	0.00	4.80	4.90	0.10	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.90	2.30	0.00	4.80	6.65	0.20	0.00	0.00	0.00	0.00	
18	0.00	0.00	1.50	2.10	0.00	4.50	6.80	0.10	0.00	0.00	0.00	0.00	
19	2.00	0.00	1.10	1.80	0.00	4.00	5.90	0.10	0.00	0.00	0.00	0.00	
20	2.00	0.00	0.60	1.50	0.00	3.50	4.70	0.10	0.00	0.00	0.00	0.00	
21	1.70	0.00	0.30	1.40	0.00	3.20	4.50	0.10	0.00	0.00	0.00	0.00	
22	1.40	0.00	0.10	1.40	0.00	4.00	5.15	0.00	0.00	0.00	0.00	0.00	
23	1.00	0.00	0.10	1.70	0.00	4.40	6.20	0.00	0.00	0.00	0.00	0.00	
24	0.50	0.00	0.20	2.00	0.00	4.80	6.05	0.00	0.00	0.00	0.00	0.00	
25	0.50	0.20	0.30	2.90	0.00	6.35	5.45	0.00	0.00	0.00	0.00	0.00	
26	1.50	0.40	0.30	3.20	0.00	11.30	4.80	0.00	0.00	0.00	0.00	0.00	
27	4.50	0.60	0.30	2.90	0.00	13.25	4.30	0.00	0.00	0.00	0.00	0.00	
28	4.20	1.00	0.40	2.40	0.00	18.35	3.70	0.00	0.00	0.00	0.00	0.00	
29	3.30	1.60	0.30	1.90	0.00	17.30	3.90	0.00	0.00	0.00	0.00	0.00	
30	2.60	1.80	0.30	1.50	0.10	14.90	4.20	0.00	0.00	0.00	0.00	0.00	
31		1.80		1.30	0.40		3.80		0.00	0.00		0.00	
<b>Total</b>	25.20	15.00	31.30	48.10	6.00	167.45	203.45	19.20	0.00	0.00	0.00	0.00	515.70 CMSDAY
<b>Mean</b>	0.84	0.48	1.04	1.55	0.19	5.58	6.56	0.64	0.00	0.00	0.00	0.00	1.41 CMS
<b>Max</b>	4.50	2.10	2.70	3.20	1.20	18.35	17.15	3.30	0.00	0.00	0.00	0.00	18.35 CMS
<b>Min</b>	0.00	0.00	0.10	0.10	0.00	2.40	3.60	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	2.18	1.30	2.70	4.16	0.52	14.47	17.58	1.66	0.00	0.00	0.00	0.00	44.56 MCM
<b>Momentary Peak</b>		18.65 CMS.		at 205.51 m. (MSL.)		at 09.00 Hours		on Sep 28, 2021					
<b>Runoff Yield</b>		3.37		Liters/Second/Square KM.		Momentary Peak Yield	44.51		Liters/Second/Square KM.				

## WATER YEAR : 2021

## KHONG RIVER BASIN

Nam Un at Ban Na Wa , Nakhon Phanom (Kh.54)

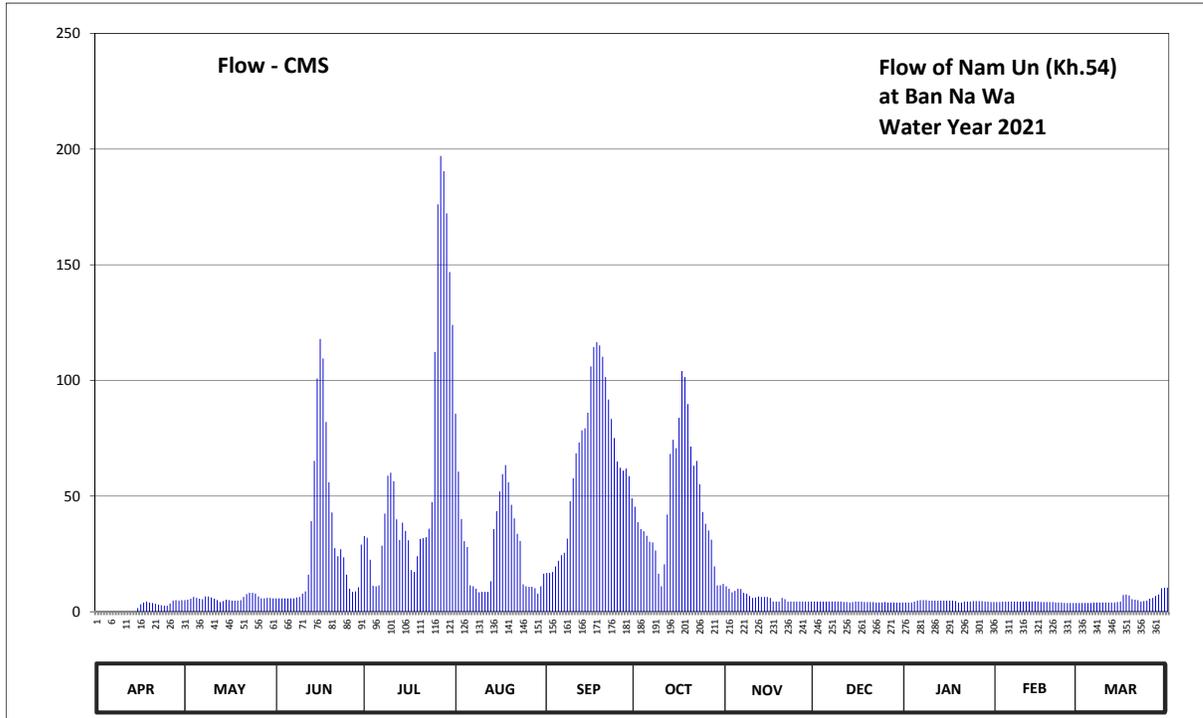
Lat 17 - 29 - 39 N Long 104 - 06 - 37 E

Location : on left bank at Ban Na Wa.

	<b>Ban Na Wa</b>	<b>Amphoe Na Wa</b>	<b>Changwat Nakhon Phanom</b>
<b>Drainage Area</b>	3,113 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+136.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the footpath of the bridge.		<b>Elevation</b> +149.635 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1970 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1970 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1970 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.16	140.45	140.49	141.59	144.38	140.92	142.95	140.75	140.42	140.40	140.41	140.39	
2	140.12	140.46	140.49	141.50	143.68	140.92	142.34	140.70	140.42	140.40	140.41	140.39	
3	140.11	140.48	140.49	141.05	142.51	140.93	141.96	140.62	140.42	140.40	140.42	140.39	
4	140.07	140.52	140.49	140.76	141.29	140.99	141.85	140.65	140.42	140.42	140.42	140.39	
5	140.03	140.50	140.49	140.75	141.16	141.04	141.60	140.70	140.42	140.44	140.42	140.39	
6	140.01	140.48	140.49	140.77	140.77	141.09	141.24	140.69	140.42	140.45	140.42	140.40	
7	139.99	140.47	140.49	141.17	140.75	141.11	141.20	140.61	140.42	140.45	140.42	140.40	
8	139.94	140.53	140.51	142.70	140.70	141.45	141.13	140.59	140.42	140.45	140.42	140.40	
9	139.89	140.53	140.52	143.60	140.62	143.09	140.91	140.54	140.42	140.44	140.42	140.40	
10	139.92	140.51	140.59	143.66	140.63	143.55	140.75	140.50	140.42	140.44	140.42	140.40	
11	139.97	140.48	140.64	143.49	140.63	143.95	141.01	140.51	140.41	140.44	140.42	140.40	
12	140.08	140.45	140.90	142.49	140.63	144.09	142.67	140.53	140.41	140.44	140.42	140.40	
13	140.14	140.41	142.40	141.37	140.83	144.22	143.94	140.52	140.40	140.44	140.42	140.40	
14	140.20	140.43	143.84	142.31	141.97	144.24	144.12	140.52	140.41	140.44	140.42	140.41	
15	140.28	140.46	144.62	141.87	142.79	144.39	144.02	140.52	140.42	140.44	140.42	140.42	
16	140.36	140.45	144.87	141.34	143.29	144.70	144.34	140.50	140.42	140.44	140.41	140.56	
17	140.40	140.44	144.75	140.95	143.63	144.82	144.67	140.42	140.42	140.44	140.41	140.57	
18	140.42	140.44	144.30	140.93	143.78	144.85	144.63	140.42	140.41	140.43	140.41	140.55	
19	140.40	140.44	143.47	141.08	143.47	144.83	144.45	140.42	140.41	140.40	140.41	140.47	
20	140.39	140.45	142.74	141.44	143.01	144.76	144.04	140.50	140.41	140.40	140.41	140.46	
21	140.37	140.52	141.15	141.48	142.53	144.63	143.77	140.47	140.41	140.42	140.40	140.45	
22	140.35	140.58	141.08	141.53	141.71	144.48	143.84	140.42	140.40	140.42	140.40	140.42	
23	140.34	140.61	141.14	141.99	141.30	144.33	143.43	140.42	140.40	140.42	140.40	140.43	
24	140.33	140.61	141.07	143.07	140.79	144.14	142.76	140.42	140.40	140.43	140.39	140.44	
25	140.33	140.59	140.90	144.79	140.75	143.83	142.25	140.42	140.41	140.43	140.39	140.48	
26	140.38	140.53	140.70	145.51	140.74	143.74	141.89	140.42	140.40	140.43	140.39	140.50	
27	140.44	140.49	140.63	145.70	140.74	143.70	141.39	140.42	140.40	140.43	140.39	140.54	
28	140.45	140.49	140.64	145.64	140.71	143.73	140.99	140.42	140.40	140.42	140.39	140.57	
29	140.44	140.50	140.73	145.47	140.59	143.59	140.77	140.42	140.40	140.42	140.41	140.71	
30	140.45	140.50	141.18	145.20	140.75	143.15	140.77	140.42	140.40	140.40	140.41	140.72	
31		140.49		144.95	140.91		140.80		140.40	140.41		140.72	
Mean	140.23	140.49	141.56	142.59	141.68	143.31	142.47	140.52	140.41	140.43	140.41	140.47	
Max	140.45	140.61	144.87	145.70	144.38	144.85	144.67	140.75	140.42	140.45	140.42	140.72	145.70
Min	139.89	140.41	140.49	140.75	140.59	140.92	140.75	140.42	140.40	140.39	140.39	140.39	139.89
Annual Max Momentary Gage Height	145.71		m. (MSL.) ,				at 06.00 Hours , on Jul 27, 2021						
Zero Gage at Bottom Elevation	136.20		m. (MSL.) ,			River Bed	138.57	m. (MSL.)					
Left Bank Elevation	149.21		m. (MSL.) ,										
Right Bank Elevation	148.27		m. (MSL.) ,			Drainage Are	3,113	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	5.00	5.80	32.72	85.60	16.80	45.40	11.00	4.40	4.00	4.20	3.80	
2	0.00	5.20	5.80	32.00	60.56	16.80	38.72	10.00	4.40	4.00	4.20	3.80	
3	0.00	5.60	5.80	22.50	40.12	17.20	35.68	8.40	4.40	4.00	4.40	3.80	
4	0.00	6.40	5.80	11.20	30.54	19.60	34.80	9.00	4.40	4.40	4.40	3.80	
5	0.00	6.00	5.80	11.00	28.00	22.00	32.80	10.00	4.40	4.80	4.40	3.80	
6	0.00	5.60	5.80	11.40	11.40	24.50	30.24	9.80	4.40	5.00	4.40	4.00	
7	0.00	5.40	5.80	28.50	11.00	25.50	30.00	8.20	4.40	5.00	4.40	4.00	
8	0.00	6.60	6.20	42.40	10.00	31.60	26.50	7.80	4.40	5.00	4.40	4.00	
9	0.00	6.60	6.40	58.80	8.40	47.80	16.40	6.80	4.40	4.80	4.40	4.00	
10	0.00	6.20	7.80	60.12	8.60	57.70	11.00	6.00	4.40	4.80	4.40	4.00	
11	0.00	5.60	8.80	56.38	8.60	68.50	20.50	6.20	4.20	4.80	4.40	4.00	
12	0.00	5.00	16.00	39.92	8.60	73.15	42.04	6.60	4.20	4.80	4.40	4.00	
13	0.00	4.20	39.20	31.02	13.20	78.40	68.20	6.40	4.00	4.80	4.40	4.00	
14	0.00	4.60	65.20	38.48	35.76	79.30	74.30	6.40	4.20	4.80	4.40	4.20	
15	1.60	5.20	100.80	34.96	43.48	86.05	70.70	6.40	4.40	4.80	4.40	4.40	
16	3.20	5.00	117.90	30.84	51.98	106.00	83.80	6.00	4.40	4.80	4.20	7.20	
17	4.00	4.80	109.50	18.00	59.46	114.40	104.05	4.40	4.40	4.80	4.20	7.40	
18	4.40	4.80	82.00	17.20	63.40	116.50	101.45	4.40	4.20	4.60	4.20	7.00	
19	4.00	4.80	55.94	24.00	55.94	115.10	89.75	4.40	4.20	4.00	4.20	5.40	
20	3.80	5.00	42.88	31.52	46.20	110.20	71.40	6.00	4.20	4.00	4.20	5.20	
21	3.40	6.40	27.50	31.84	40.36	101.45	63.10	5.40	4.20	4.40	4.00	5.00	
22	3.00	7.60	24.00	32.24	33.68	91.70	65.20	4.40	4.00	4.40	4.00	4.40	
23	2.80	8.20	27.00	35.92	30.60	83.35	55.06	4.40	4.00	4.40	4.00	4.60	
24	2.60	8.20	23.50	47.40	11.80	75.10	43.12	4.40	4.00	4.60	3.80	4.80	
25	2.60	7.80	16.00	112.30	11.00	64.90	38.00	4.40	4.20	4.60	3.80	5.60	
26	3.60	6.60	10.00	176.10	10.80	62.20	35.12	4.40	4.00	4.60	3.80	6.00	
27	4.80	5.80	8.60	197.00	10.80	61.00	31.14	4.40	4.00	4.60	3.80	6.80	
28	5.00	5.80	8.80	190.40	10.20	61.90	19.60	4.40	4.00	4.40	3.80	7.40	
29	4.80	6.00	10.60	172.18	7.80	58.58	11.40	4.40	4.00	4.40		10.20	
30	5.00	6.00	29.00	146.80	11.00	49.00	11.40	4.40	4.00	4.20		10.40	
31		5.80		124.00	16.40		12.00		4.00	4.20		10.40	
Total	58.60	181.80	884.22	1899.14	875.28	1936.28	1412.87	189.20	130.80	140.80	117.60	167.40	7993.99 CMSDAY
Mean	1.95	5.86	29.47	61.26	28.23	64.54	45.58	6.31	4.22	4.54	4.20	5.40	21.90 CMS
Max	5.00	8.20	117.90	197.00	85.60	116.50	104.05	11.00	4.40	5.00	4.40	10.40	197.00 CMS
Min	0.00	4.20	5.80	11.00	7.80	16.80	11.00	4.40	4.00	4.00	3.80	3.80	0.00 CMS
Runoff	5.06	15.71	76.40	164.09	75.62	167.29	122.07	16.35	11.30	12.17	10.16	14.46	690.68 MCM
Momentary Peak		198.10 CMS.		at 145.71 m. (MSL).		at 06.00 Hours		on Jul 27, 2021					
Runoff Yield		7.04		Liters/Second/Square KM.		Momentary Peak Yield	63.64						Liters/Second/Square KM.

**WATER YEAR : 2021****KHONG RIVER BASIN**

Loei River at Ban Fak Loei , Loei (Kh.58A)

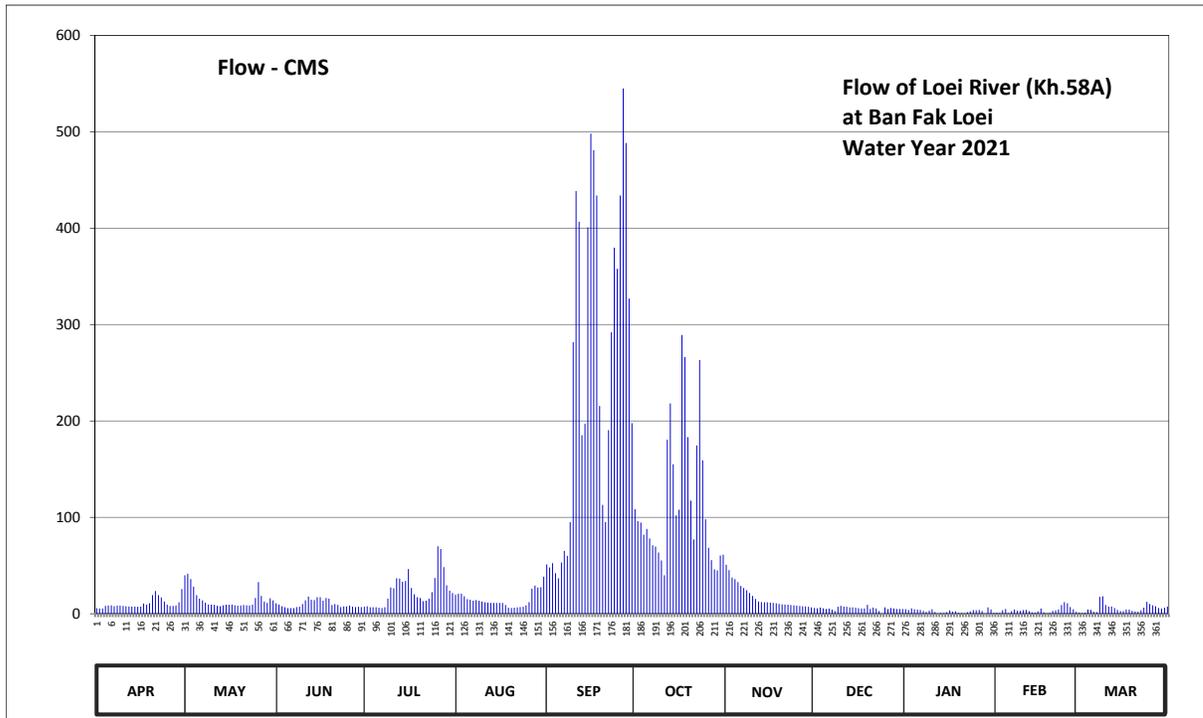
Lat 17 - 29 - 42 N Long 101 - 44 - 04 E

Location : on left bank at the bridge on road.

	<b>Ban Fak Loei</b>	<b>Amphoe Mueang</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	3,230 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+228.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank upstream side at the abutment of the bridge.	<b>Elevation</b>	+240.499 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 54 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.29	231.35	230.53	230.36	230.82	231.63	232.87	231.62	230.30	230.24	230.06	230.06	
2	230.27	231.39	230.48	230.39	230.86	231.55	232.62	231.48	230.28	230.20	230.05	230.04	
3	230.27	231.25	230.39	230.34	230.86	231.66	232.59	231.29	230.32	230.28	230.18	230.06	
4	230.40	231.05	230.34	230.34	230.77	231.40	232.34	231.25	230.28	230.23	230.25	230.22	
5	230.43	230.81	230.29	230.34	230.67	231.27	232.46	231.17	230.25	230.21	230.03	230.20	
6	230.44	230.69	230.29	230.31	230.65	231.68	232.26	231.07	230.27	230.20	230.13	230.10	
7	230.39	230.63	230.29	230.30	230.62	231.98	232.12	231.02	230.21	230.15	230.22	230.08	
8	230.42	230.55	230.35	230.34	230.64	231.85	232.09	230.96	230.14	230.10	230.16	230.75	
9	230.42	230.48	230.36	230.69	230.62	232.60	231.94	230.88	230.36	230.16	230.15	230.77	
10	230.40	230.47	230.50	231.03	230.59	235.59	231.73	230.78	230.41	230.23	230.19	230.45	
11	230.39	230.46	230.63	231.01	230.56	237.41	231.35	230.68	230.37	230.09	230.20	230.37	
12	230.38	230.41	230.76	231.27	230.55	237.07	234.13	230.59	230.36	229.99	230.13	230.37	
13	230.37	230.39	230.65	231.26	230.54	234.20	234.70	230.57	230.33	230.04	230.07	230.30	
14	230.37	230.44	230.64	231.18	230.54	234.38	233.70	230.56	230.33	230.04	230.06	230.20	
15	230.36	230.47	230.74	231.20	230.54	237.01	232.74	230.56	230.31	230.08	230.12	230.14	
16	230.37	230.46	230.74	231.51	230.54	238.04	232.86	230.55	230.29	230.17	230.27	230.14	
17	230.52	230.47	230.62	231.02	230.54	237.86	235.69	230.54	230.27	230.11	230.07	230.22	
18	230.47	230.44	230.71	230.84	230.45	237.36	235.38	230.53	230.27	230.12	230.02	230.21	
19	230.53	230.42	230.69	230.74	230.31	234.66	234.17	230.51	230.46	230.05	230.05	230.15	
20	230.81	230.43	230.45	230.71	230.30	232.95	233.03	230.49	230.25	230.04	230.15	230.12	
21	230.94	230.45	230.50	230.60	230.31	232.60	232.24	230.48	230.32	230.02	230.17	230.11	
22	230.81	230.44	230.46	230.62	230.33	234.28	234.04	230.47	230.27	230.08	230.22	230.18	
23	230.73	230.43	230.35	230.69	230.35	235.73	235.34	230.45	230.14	230.12	230.45	230.31	
24	230.59	230.47	230.38	230.91	230.36	236.77	233.77	230.44	229.99	230.19	230.57	230.58	
25	230.47	230.71	230.38	231.28	230.44	236.52	232.66	230.42	230.33	230.18	230.53	230.51	
26	230.40	231.17	230.42	232.10	230.57	237.36	232.06	230.40	230.24	230.20	230.35	230.44	
27	230.40	230.78	230.36	232.03	231.00	238.51	231.74	230.39	230.30	230.14	230.23	230.39	
28	230.43	230.59	230.35	231.56	231.08	237.94	231.50	230.38	230.27	229.97	230.10	230.30	
29	230.56	230.54	230.36	231.09	231.03	236.17	231.47	230.36	230.25	230.33		230.27	
30	230.99	230.70	230.35	230.95	231.04	234.39	231.86	230.33	230.25	230.22		230.31	
31		230.63		230.88	231.31		231.88		230.25	230.04		230.37	
Mean	230.49	230.64	230.48	230.90	230.64	234.75	232.88	230.71	230.28	230.14	230.19	230.28	
Max	230.99	231.39	230.76	232.10	231.31	238.51	235.69	231.62	230.46	230.33	230.57	230.77	238.51
Min	230.27	230.39	230.29	230.30	230.30	231.27	231.35	230.33	229.99	229.97	230.02	230.04	229.97
Annual Max Momentary Gage Height	238.63		m. (MSL.) ,			at 14.00 Hours ,	on Sep 27, 2021						
Zero Gage at Bottom Elevation	228.90		m. (MSL.) ,			River Bed	229.43	m. (MSL.)					
Left Bank Elevation	240.55		m. (MSL.) ,										
Right Bank Elevation	240.46		m. (MSL.) ,			Drainage Are	3,230	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.80	40.00	10.90	7.20	19.60	51.20	108.50	50.80	6.00	4.80	1.20	1.20	
2	5.40	41.60	9.60	7.80	20.80	48.00	96.00	45.20	5.60	4.00	1.00	0.80	
3	5.40	36.00	7.80	6.80	20.80	52.40	94.50	37.60	6.40	5.60	3.60	1.20	
4	8.00	28.00	6.80	6.80	18.10	42.00	82.00	36.00	5.60	4.60	5.00	4.40	
5	8.60	19.30	5.80	6.80	15.10	36.80	88.00	32.80	5.00	4.20	0.60	4.00	
6	8.80	15.70	5.80	6.20	14.50	53.20	78.00	28.80	5.40	4.00	2.60	2.00	
7	7.80	13.90	5.80	6.00	13.60	65.20	71.00	26.80	4.20	3.00	4.40	1.60	
8	8.40	11.50	7.00	6.80	14.20	60.00	69.60	24.40	2.80	2.00	3.20	17.50	
9	8.40	9.60	7.20	15.70	13.60	95.00	63.60	21.40	7.20	3.20	3.00	18.10	
10	8.00	9.40	10.00	27.20	12.70	281.66	55.20	18.40	8.20	4.60	3.80	9.00	
11	7.80	9.20	13.90	26.40	11.80	438.54	40.00	15.40	7.40	1.80	4.00	7.40	
12	7.60	8.20	17.80	36.80	11.50	406.58	180.58	12.70	7.20	0.00	2.60	7.40	
13	7.40	7.80	14.50	36.40	11.20	185.20	218.20	12.10	6.60	0.80	1.40	6.00	
14	7.40	8.80	14.20	33.20	11.20	197.08	155.09	11.80	6.60	0.80	1.20	4.00	
15	7.20	9.40	17.20	34.00	11.20	400.94	102.00	11.80	6.20	1.60	2.40	2.80	
16	7.40	9.20	17.20	46.40	11.20	498.00	108.00	11.50	5.80	3.40	5.40	2.80	
17	10.60	9.40	13.60	26.80	11.20	480.84	289.06	11.20	5.40	2.20	1.40	4.40	
18	9.40	8.80	16.30	20.20	9.00	433.84	266.12	10.90	5.40	2.40	0.40	4.20	
19	10.90	8.40	15.70	17.20	6.20	215.56	183.22	10.30	9.20	1.00	1.00	3.00	
20	19.30	8.60	9.00	16.30	6.00	112.82	117.33	9.80	5.00	0.80	3.00	2.40	
21	23.60	9.00	10.00	13.00	6.20	95.00	77.00	9.60	6.40	0.40	3.40	2.20	
22	19.30	8.80	9.20	13.60	6.60	190.48	174.64	9.40	5.40	1.60	4.40	3.60	
23	16.90	8.60	7.00	15.70	7.00	292.02	263.16	9.00	2.80	2.40	9.00	6.20	
24	12.70	9.40	7.60	22.40	7.20	379.76	159.04	8.80	0.00	3.80	12.10	12.40	
25	9.40	16.30	7.60	37.20	8.80	357.76	98.00	8.40	6.60	3.60	10.90	10.30	
26	8.00	32.80	8.40	70.00	12.10	433.84	68.40	8.00	4.80	4.00	7.00	8.80	
27	8.00	18.40	7.20	67.20	26.00	545.00	55.60	7.80	6.00	2.80	4.60	7.80	
28	8.60	12.70	7.00	48.40	29.20	488.36	46.00	7.60	5.40	0.00	2.00	6.00	
29	11.80	11.20	7.20	29.60	27.20	326.96	44.80	7.20	5.00	6.60		5.40	
30	25.60	16.00	7.00	24.00	27.60	197.74	60.40	6.60	5.00	4.40		6.20	
31		13.90		21.40	38.40		61.20		5.00	0.80		7.40	
Total	313.50	469.90	304.30	753.50	459.80	7461.78	3574.24	522.10	173.60	85.20	104.60	180.50	14403.02 CMSDAY
Mean	10.45	15.16	10.14	24.31	14.83	248.73	115.30	17.40	5.60	2.75	3.74	5.82	39.46 CMS
Max	25.60	41.60	17.80	70.00	38.40	545.00	289.06	50.80	9.20	6.60	12.10	18.10	545.00 CMS
Min	5.40	7.80	5.80	6.00	6.00	36.80	40.00	6.60	0.00	0.00	0.40	0.80	0.00 CMS
Runoff	27.09	40.60	26.29	65.10	39.73	644.70	308.81	45.11	15.00	7.36	9.04	15.60	1244.42 MCM
Momentary Peak	557.00 CMS. at 238.63 m. (MSL.) at 14.00 Hours , on Sep 27, 2021												
Runoff Yield	12.22 Liters/Second/Square KM.			Momentary Peak Yield				172.45 Liters/Second/Square KM.					

## WATER YEAR : 2021

## KHONG RIVER BASIN

Loei River at Ban Keng Bong , Loei (Kh.61)

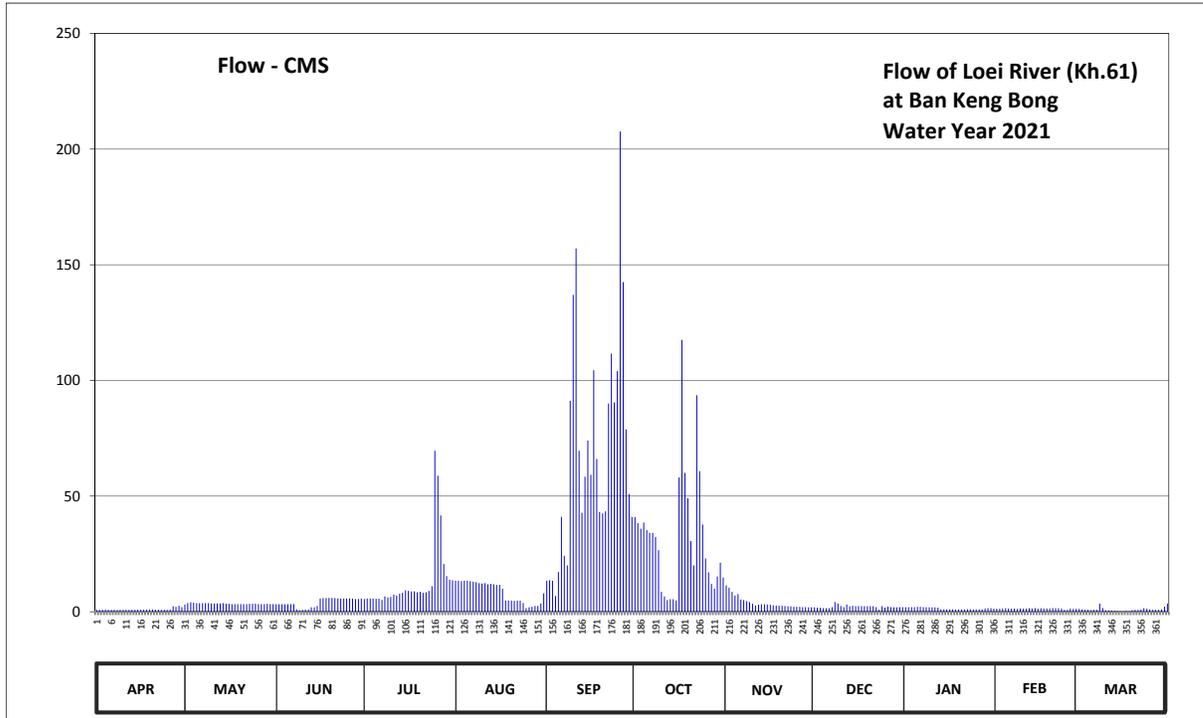
Lat 17 - 07 - 52 N Long 101 - 40 - 44 E

Location : on right bank at the bridge of Amphoe Wang Saphung - Ban Nong Khan Road.

	Ban Keng Bong	Amphoe Phu Luang	Changwat Loei
<b>Drainage Area</b>	595 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+258.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+271.976 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1982 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.76	259.01	259.02	259.25	259.67	259.67	260.70	259.57	258.89	258.90	258.83	258.82	
2	258.76	259.08	259.02	259.27	259.67	259.68	260.61	259.52	258.87	258.90	258.83	258.80	
3	258.76	259.11	259.02	259.27	259.66	259.67	260.53	259.43	258.87	258.90	258.84	258.76	
4	258.80	259.09	259.02	259.27	259.67	259.34	260.62	259.35	258.85	258.90	258.85	258.76	
5	258.78	259.07	259.02	259.26	259.67	259.86	260.51	259.38	258.85	258.91	258.84	258.73	
6	258.77	259.07	259.03	259.26	259.66	260.70	260.47	259.23	258.85	258.91	258.84	258.76	
7	258.78	259.07	259.03	259.21	259.65	260.14	260.47	259.20	258.90	258.90	258.84	258.76	
8	258.76	259.07	258.80	259.33	259.64	260.00	260.41	259.16	259.12	258.90	258.82	259.05	
9	258.77	259.07	258.74	259.31	259.62	262.08	260.22	259.12	259.05	258.89	258.84	258.86	
10	258.77	259.06	258.77	259.32	259.61	263.10	259.43	259.04	258.95	258.89	258.83	258.73	
11	258.77	259.06	258.79	259.37	259.62	263.50	259.33	258.97	258.90	258.89	258.83	258.71	
12	258.76	259.06	258.80	259.35	259.59	261.54	259.20	259.01	259.01	258.88	258.85	258.71	
13	258.76	259.06	258.89	259.39	259.60	260.76	259.24	259.02	258.93	258.80	258.84	258.68	
14	258.77	259.07	258.89	259.41	259.59	261.26	259.24	259.02	258.96	258.80	258.86	258.66	
15	258.76	259.04	258.95	259.46	259.58	261.65	259.19	259.01	258.94	258.80	258.83	258.64	
16	258.76	259.04	259.27	259.45	259.58	261.28	261.25	259.00	258.95	258.80	258.85	258.62	
17	258.76	259.02	259.29	259.44	259.50	262.41	262.71	258.98	258.94	258.80	258.84	258.68	
18	258.78	259.03	259.29	259.44	259.19	261.45	261.30	258.97	258.94	258.79	258.84	258.64	
19	258.79	259.03	259.30	259.42	259.19	260.77	260.97	258.96	258.94	258.80	258.84	258.73	
20	258.79	259.03	259.30	259.43	259.18	260.75	260.35	258.96	258.94	258.80	258.86	258.77	
21	258.78	259.03	259.29	259.41	259.17	260.78	260.00	258.95	258.94	258.80	258.85	258.75	
22	258.78	259.03	259.28	259.42	259.18	262.05	262.14	258.93	258.90	258.81	258.85	258.78	
23	258.77	259.04	259.27	259.45	259.18	262.59	261.32	258.93	258.76	258.81	258.84	258.85	
24	258.77	259.04	259.27	259.55	259.08	262.06	260.59	258.91	258.94	258.80	258.77	258.83	
25	258.77	259.05	259.27	261.54	258.85	262.40	260.10	258.91	258.88	258.80	258.76	258.80	
26	258.79	259.03	259.28	261.27	258.89	264.46	259.85	258.91	258.92	258.80	258.84	258.77	
27	258.94	259.03	259.27	260.72	258.91	263.21	259.60	258.90	258.90	258.80	258.82	258.76	
28	258.91	259.03	259.25	260.02	258.95	261.77	259.50	258.90	258.89	258.84	258.82	258.76	
29	258.96	259.04	259.25	259.77	258.95	261.03	259.76	258.89	258.89	258.85		258.80	
30	258.90	259.03	259.27	259.69	259.06	260.70	260.04	258.89	258.90	258.85		258.92	
31		259.03		259.68	259.40		259.74		258.90	258.83		259.05	
Mean	258.79	259.05	259.10	259.59	259.38	261.36	260.30	259.07	258.92	258.84	258.83	258.77	
Max	258.96	259.11	259.30	261.54	259.67	264.46	262.71	259.57	259.12	258.91	258.86	259.05	264.46
Min	258.76	259.01	258.74	259.21	258.85	259.34	259.19	258.89	258.76	258.79	258.76	258.62	258.62
Annual Max Momentary Gage Height	264.82		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	258.40		m. (MSL.) ,			River Bed	258.02	m. (MSL.)					
Left Bank Elevation		271.87		m. (MSL.) ,									
Right Bank Elevation		271.81		m. (MSL.) ,		Drainage Are	595	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	3.10	3.20	5.50	13.40	13.40	41.00	11.40	1.90	2.00	1.30	1.20	
2	0.80	3.80	3.20	5.70	13.40	13.60	38.30	10.40	1.70	2.00	1.30	1.00	
3	0.80	4.10	3.20	5.70	13.20	13.40	35.90	8.60	1.70	2.00	1.40	0.80	
4	1.00	3.90	3.20	5.70	13.40	6.80	38.60	7.00	1.50	2.00	1.50	0.80	
5	0.90	3.70	3.20	5.60	13.40	17.20	35.30	7.60	1.50	2.10	1.40	0.65	
6	0.85	3.70	3.30	5.60	13.20	41.00	34.10	5.30	1.50	2.10	1.40	0.80	
7	0.90	3.70	3.30	5.10	13.00	24.20	34.10	5.00	2.00	2.00	1.40	0.80	
8	0.80	3.70	1.00	6.60	12.80	20.00	32.30	4.60	4.20	2.00	1.20	3.50	
9	0.85	3.70	0.70	6.20	12.40	91.20	26.60	4.20	3.50	1.90	1.40	1.60	
10	0.85	3.60	0.85	6.40	12.20	137.00	8.60	3.40	2.50	1.90	1.30	0.65	
11	0.85	3.60	0.95	7.40	12.40	157.00	6.60	2.70	2.00	1.90	1.30	0.55	
12	0.80	3.60	1.00	7.00	11.80	69.60	5.00	3.10	3.10	1.80	1.50	0.55	
13	0.80	3.60	1.90	7.80	12.00	42.80	5.40	3.20	2.30	1.00	1.40	0.40	
14	0.85	3.70	1.90	8.20	11.80	58.40	5.40	3.20	2.60	1.00	1.60	0.30	
15	0.80	3.40	2.50	9.20	11.60	74.00	4.90	3.10	2.40	1.00	1.30	0.20	
16	0.80	3.40	5.70	9.00	11.60	59.20	58.00	3.00	2.50	1.00	1.50	0.10	
17	0.80	3.20	5.90	8.80	10.00	104.40	117.50	2.80	2.40	1.00	1.40	0.40	
18	0.90	3.30	5.90	8.80	4.90	66.00	60.00	2.70	2.40	0.95	1.40	0.20	
19	0.95	3.30	6.00	8.40	4.90	43.10	49.10	2.60	2.40	1.00	1.40	0.65	
20	0.95	3.30	6.00	8.60	4.80	42.50	30.50	2.60	2.40	1.00	1.60	0.85	
21	0.90	3.30	5.90	8.20	4.70	43.40	20.00	2.50	2.40	1.00	1.50	0.75	
22	0.90	3.30	5.80	8.40	4.80	90.00	93.60	2.30	2.00	1.10	1.50	0.90	
23	0.85	3.40	5.70	9.00	4.80	111.60	60.80	2.30	0.80	1.10	1.40	1.50	
24	0.85	3.40	5.70	11.00	3.80	90.40	37.70	2.10	2.40	1.00	0.85	1.30	
25	0.85	3.50	5.70	69.60	1.50	104.00	23.00	2.10	1.80	1.00	0.80	1.00	
26	0.95	3.30	5.80	58.80	1.90	207.60	17.00	2.10	2.20	1.00	1.40	0.85	
27	2.40	3.30	5.70	41.60	2.10	142.50	12.00	2.00	2.00	1.00	1.20	0.80	
28	2.10	3.30	5.50	20.60	2.50	78.80	10.00	2.00	1.90	1.40	1.20	0.80	
29	2.60	3.40	5.50	15.40	2.50	50.90	15.20	1.90	1.90	1.50		1.00	
30	2.00	3.30	5.70	13.80	3.60	41.00	21.20	1.90	2.00	1.50		2.20	
31		3.30		13.60	8.00		14.80		2.00	1.30		3.50	
<b>Total</b>	<b>31.45</b>	<b>108.20</b>	<b>119.90</b>	<b>411.30</b>	<b>266.40</b>	<b>2055.00</b>	<b>992.50</b>	<b>117.70</b>	<b>67.90</b>	<b>44.55</b>	<b>37.85</b>	<b>30.60</b>	<b>4283.35</b> CMSDAY
<b>Mean</b>	<b>1.05</b>	<b>3.49</b>	<b>4.00</b>	<b>13.27</b>	<b>8.59</b>	<b>68.50</b>	<b>32.02</b>	<b>3.92</b>	<b>2.19</b>	<b>1.44</b>	<b>1.35</b>	<b>0.99</b>	<b>11.74</b> CMS
<b>Max</b>	<b>2.60</b>	<b>4.10</b>	<b>6.00</b>	<b>69.60</b>	<b>13.40</b>	<b>207.60</b>	<b>117.50</b>	<b>11.40</b>	<b>4.20</b>	<b>2.10</b>	<b>1.60</b>	<b>3.50</b>	<b>207.60</b> CMS
<b>Min</b>	<b>0.80</b>	<b>3.10</b>	<b>0.70</b>	<b>5.10</b>	<b>1.50</b>	<b>6.80</b>	<b>4.90</b>	<b>1.90</b>	<b>0.80</b>	<b>0.95</b>	<b>0.80</b>	<b>0.10</b>	<b>0.10</b> CMS
<b>Runoff</b>	<b>2.72</b>	<b>9.35</b>	<b>10.36</b>	<b>35.54</b>	<b>23.02</b>	<b>177.55</b>	<b>85.75</b>	<b>10.17</b>	<b>5.87</b>	<b>3.85</b>	<b>3.27</b>	<b>2.64</b>	<b>370.08</b> MCM
<b>Momentary Peak</b>	<b>229.20</b>	<b>CMS.</b>	<b>at 264.82 m. (MSL.) at 09.00 Hours , on Sep 26, 2021</b>										
<b>Runoff Yield</b>	<b>19.72</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>		<b>385.21</b>	<b>Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Songkhram River at Ban Tha Huai Lua , Sakon Nakhon (Kh.74)

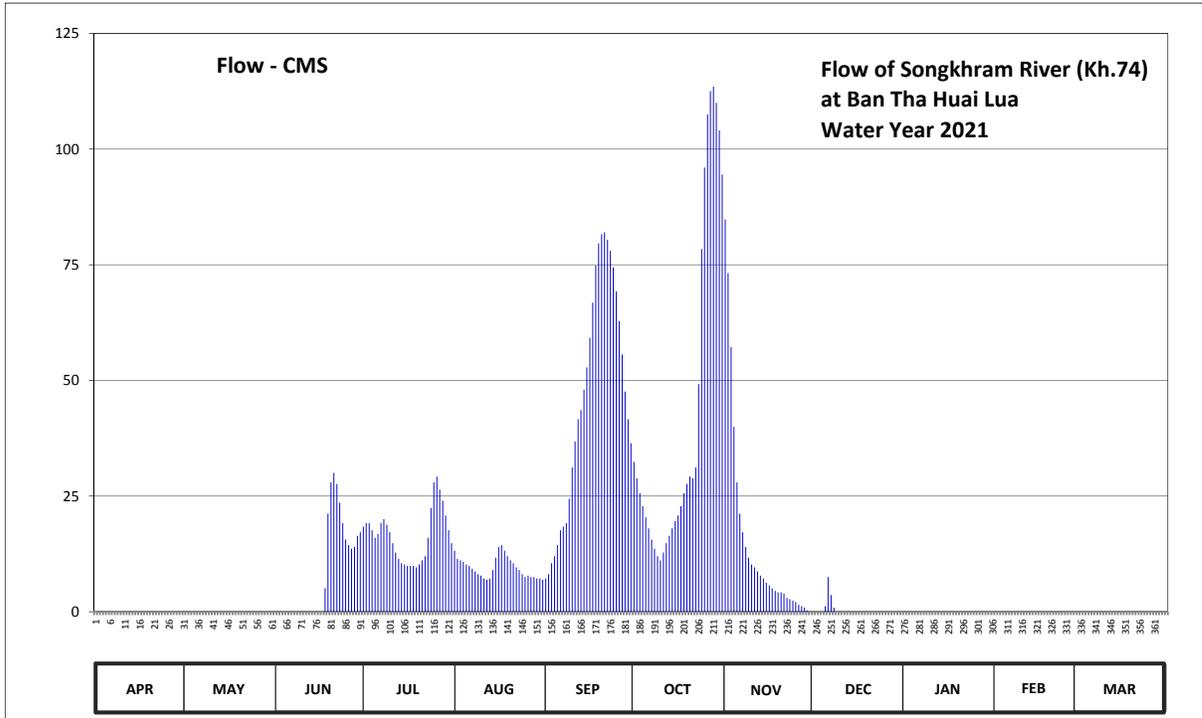
Lat 17 - 49 - 18 N Long 103 - 23 - 13 E

Location : on left bank at Ban Tha Huai Lua.

	<b>Ban</b>	<b>Tha Huai Lua</b>	<b>Amphoe</b>	<b>Ban Muang</b>	<b>Changwat</b>	<b>Sakon Nakhon</b>
<b>Drainage Area</b>	2,176	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+145.300 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+157.031 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.02	148.13	148.16	150.66	150.53	150.34	151.01	152.32	150.10	149.77	149.17	148.87	
2	148.00	148.15	148.16	150.68	150.48	150.37	150.92	152.03	150.09	149.76	149.16	148.85	
3	147.99	148.16	148.16	150.68	150.47	150.45	150.84	151.63	150.09	149.74	149.15	148.84	
4	147.97	148.16	148.16	150.64	150.46	150.50	150.77	151.20	150.08	149.72	149.13	148.82	
5	147.99	148.16	148.16	150.60	150.44	150.56	150.71	150.90	150.14	149.70	149.11	148.81	
6	147.99	148.19	148.20	150.62	150.43	150.64	150.65	150.73	150.35	149.68	149.08	148.81	
7	147.98	148.20	148.22	150.68	150.41	150.66	150.59	150.63	150.22	149.66	149.06	148.80	
8	147.97	148.19	148.31	150.70	150.39	150.68	150.54	150.55	150.13	149.64	149.04	148.78	
9	147.97	148.19	148.39	150.67	150.37	150.81	150.50	150.49	150.08	149.63	149.03	148.77	
10	147.96	148.19	148.41	150.63	150.36	150.98	150.47	150.44	150.05	149.61	149.01	148.76	
11	147.96	148.19	148.44	150.57	150.34	151.12	150.52	150.42	150.02	149.59	148.99	148.75	
12	147.96	148.19	148.47	150.52	150.33	151.24	150.57	150.39	150.01	149.58	148.97	148.74	
13	147.96	148.19	148.57	150.48	150.34	151.29	150.61	150.36	149.99	149.56	148.95	148.73	
14	147.96	148.17	148.80	150.45	150.40	151.40	150.65	150.34	149.97	149.55	148.93	148.71	
15	147.96	148.16	149.03	150.44	150.49	151.52	150.69	150.31	149.95	149.53	148.93	148.70	
16	147.96	148.15	149.27	150.43	150.55	151.68	150.72	150.29	149.93	149.51	148.91	148.72	
17	147.96	148.15	149.59	150.43	150.56	151.87	150.77	150.27	149.94	149.50	148.89	148.76	
18	147.96	148.14	150.27	150.43	150.53	152.07	150.84	150.25	150.01	149.48	148.88	148.77	
19	147.98	148.14	150.73	150.42	150.50	152.19	150.89	150.24	149.99	149.46	148.88	148.77	
20	147.99	148.13	150.90	150.44	150.47	152.24	150.93	150.24	149.97	149.44	148.91	148.77	
21	147.99	148.13	150.95	150.47	150.45	152.25	150.92	150.23	149.95	149.43	148.93	148.76	
22	147.99	148.13	150.89	150.50	150.42	152.21	150.98	150.20	149.94	149.41	148.93	148.76	
23	147.99	148.12	150.79	150.60	150.40	152.15	151.43	150.19	149.92	149.40	148.92	148.75	
24	147.98	148.12	150.68	150.76	150.37	152.06	152.16	150.18	149.90	149.29	148.92	148.77	
25	147.98	148.13	150.59	150.90	150.35	151.93	152.56	150.17	149.88	149.27	148.91	148.79	
26	147.99	148.13	150.56	150.93	150.36	151.77	152.79	150.15	149.86	149.25	148.90	148.80	
27	148.01	148.14	150.54	150.86	150.35	151.59	152.89	150.14	149.84	149.25	148.89	148.80	
28	148.02	148.14	150.55	150.80	150.35	151.39	152.91	150.13	149.83	149.23	148.88	148.81	
29	148.04	148.17	150.61	150.72	150.34	151.24	152.84	150.11	149.81	149.21	148.81	148.82	
30	148.07	148.17	150.63	150.64	150.34	151.11	152.72	150.10	149.80	149.19	148.81	148.83	
31		148.17		150.57	150.33		152.53		149.79	149.18	148.83	148.83	
Mean	147.99	148.16	149.44	150.61	150.42	151.34	151.26	150.52	149.99	149.49	148.98	148.78	
Max	148.07	148.20	150.95	150.93	150.56	152.25	152.91	152.32	150.35	149.77	149.17	148.87	152.91
Min	147.96	148.12	148.16	150.42	150.33	150.34	150.47	150.10	149.79	149.18	148.88	148.70	147.96
Annual Max Momentary Gage Height	152.92		m. (MSL.) ,				at 01.00 Hours ,						on Oct 28, 2021
Zero Gage at Bottom Elevation	145.30		m. (MSL.) ,			River Bed	144.76		m. (MSL.)				
Left Bank Elevation		156.75		m. (MSL.) ,									
Right Bank Elevation		157.35		m. (MSL.) ,		Drainage Are	2,176		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	18.40	13.20	7.20	32.40	84.80	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	19.20	11.40	8.10	28.80	73.20	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	19.20	11.10	10.50	25.60	57.20	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	17.60	10.80	12.00	22.80	40.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	16.00	10.20	14.40	20.40	28.00	1.20	0.00	0.00	0.00	
6	0.00	0.00	0.00	16.80	9.90	17.60	18.00	21.20	7.50	0.00	0.00	0.00	
7	0.00	0.00	0.00	19.20	9.30	18.40	15.60	17.20	3.60	0.00	0.00	0.00	
8	0.00	0.00	0.00	20.00	8.70	19.20	13.60	14.00	0.90	0.00	0.00	0.00	
9	0.00	0.00	0.00	18.80	8.10	24.40	12.00	11.70	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	17.20	7.80	31.20	11.10	10.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	14.80	7.20	36.80	12.80	9.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	12.80	6.90	41.60	14.80	8.70	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	11.40	7.20	43.60	16.40	7.80	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	10.50	9.00	48.00	18.00	7.20	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	10.20	11.70	52.80	19.60	6.30	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	9.90	14.00	59.20	20.80	5.70	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	9.90	14.40	66.80	22.80	5.10	0.00	0.00	0.00	0.00	
18	0.00	0.00	5.10	9.90	13.20	74.80	25.60	4.50	0.00	0.00	0.00	0.00	
19	0.00	0.00	21.20	9.60	12.00	79.60	27.60	4.20	0.00	0.00	0.00	0.00	
20	0.00	0.00	28.00	10.20	11.10	81.60	29.20	4.20	0.00	0.00	0.00	0.00	
21	0.00	0.00	30.00	11.10	10.50	82.00	28.80	3.90	0.00	0.00	0.00	0.00	
22	0.00	0.00	27.60	12.00	9.60	80.40	31.20	3.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	23.60	16.00	9.00	78.00	49.20	2.70	0.00	0.00	0.00	0.00	
24	0.00	0.00	19.20	22.40	8.10	74.40	78.40	2.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	15.60	28.00	7.50	69.20	96.00	2.10	0.00	0.00	0.00	0.00	
26	0.00	0.00	14.40	29.20	7.80	62.80	107.50	1.50	0.00	0.00	0.00	0.00	
27	0.00	0.00	13.60	26.40	7.50	55.60	112.50	1.20	0.00	0.00	0.00	0.00	
28	0.00	0.00	14.00	24.00	7.50	47.60	113.50	0.90	0.00	0.00	0.00	0.00	
29	0.00	0.00	16.40	20.80	7.20	41.60	110.00	0.30	0.00	0.00	0.00	0.00	
30	0.00	0.00	17.20	17.60	7.20	36.40	104.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00		14.80	6.90		94.50		0.00	0.00			
<b>Total</b>	0.00	0.00	245.90	513.90	296.00	1375.80	1333.50	438.80	13.20	0.00	0.00	0.00	4217.10 CMSDAY
<b>Mean</b>	0.00	0.00	8.20	16.58	9.55	45.86	43.02	14.63	0.43	0.00	0.00	0.00	11.55 CMS
<b>Max</b>	0.00	0.00	30.00	29.20	14.40	82.00	113.50	84.80	7.50	0.00	0.00	0.00	113.50 CMS
<b>Min</b>	0.00	0.00	0.00	9.60	6.90	7.20	11.10	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	21.25	44.40	25.57	118.87	115.21	37.91	1.14	0.00	0.00	0.00	364.36 MCM
<b>Momentary Peak</b>	114.00	CMS.	at 152.92 m. (MSL.) at 01.00 Hours , on Oct 28, 2021										
<b>Runoff Yield</b>	5.31	Liters/Second/Square KM.		Momentary Peak Yield		52.39	Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

Nam Thop at Ban Kok So , Loei (Kh.77A)

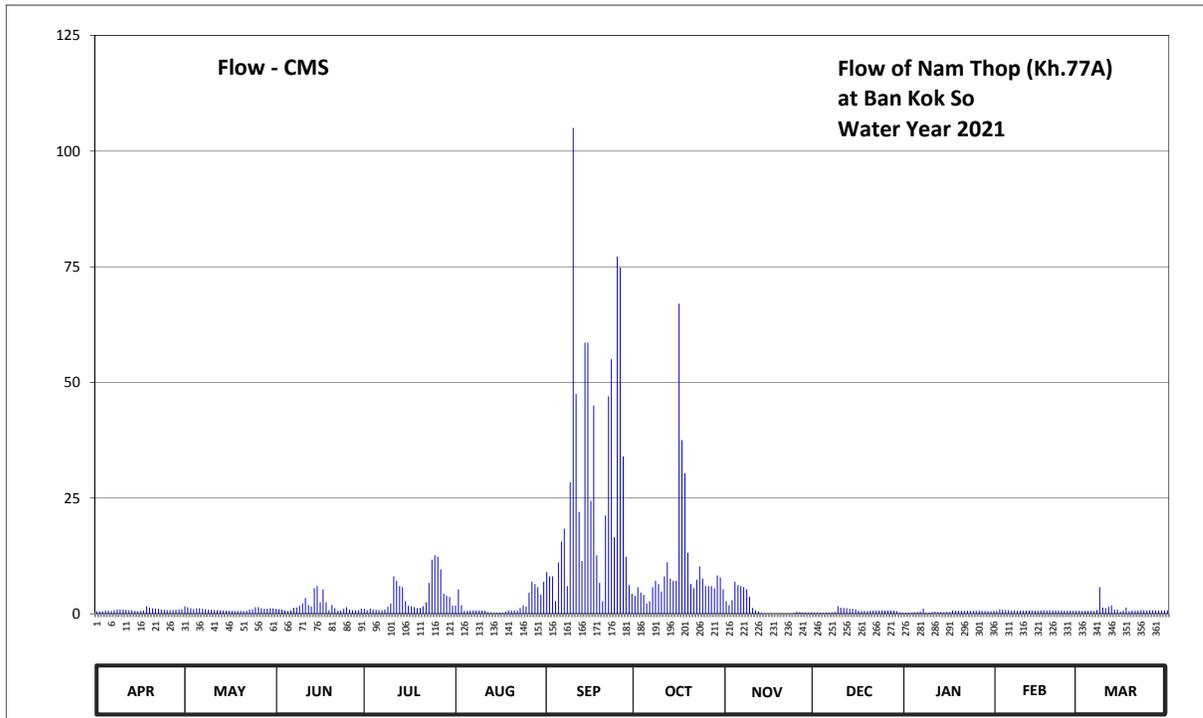
Lat 17 - 16 - 16 N Long 101 - 38 - 56 E

Location : on left bank at Ban Kok So.

	<b>Ban Kok So</b>	<b>Amphoe Wang Saphung</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	157 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+261.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+268.630 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The cataract situated downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.48	261.72	261.61	261.61	261.75	262.10	261.88	261.83	261.38	261.37	261.50	261.51	
2	261.48	261.68	261.59	261.54	261.94	262.06	261.96	261.77	261.38	261.37	261.59	261.50	
3	261.47	261.63	261.57	261.62	261.77	262.06	261.91	261.84	261.38	261.37	261.56	261.50	
4	261.53	261.60	261.53	261.58	261.50	261.83	261.89	262.01	261.37	261.41	261.55	261.50	
5	261.53	261.63	261.49	261.56	261.51	262.17	261.81	261.98	261.37	261.42	261.54	261.50	
6	261.50	261.63	261.54	261.55	261.52	262.32	261.83	261.97	261.39	261.46	261.52	261.49	
7	261.54	261.61	261.66	261.55	261.53	262.41	261.96	261.96	261.39	261.62	261.52	261.55	
8	261.58	261.59	261.67	261.58	261.53	261.97	262.02	261.94	261.43	261.37	261.51	261.96	
9	261.58	261.57	261.74	261.70	261.52	262.66	261.99	261.87	261.72	261.38	261.51	261.67	
10	261.57	261.56	261.81	261.81	261.52	263.95	261.92	261.65	261.66	261.42	261.51	261.65	
11	261.56	261.55	261.86	262.06	261.51	263.07	262.06	261.54	261.65	261.45	261.52	261.70	
12	261.55	261.54	261.78	262.02	261.41	262.50	262.17	261.47	261.64	261.42	261.52	261.76	
13	261.54	261.53	261.71	261.97	261.38	262.18	262.04	261.35	261.62	261.43	261.52	261.57	
14	261.50	261.52	261.95	261.96	261.36	263.26	262.02	261.27	261.61	261.41	261.51	261.57	
15	261.48	261.52	261.97	261.83	261.37	263.26	262.02	261.26	261.59	261.42	261.51	261.45	
16	261.50	261.51	261.82	261.74	261.38	262.56	263.40	261.26	261.52	261.43	261.53	261.52	
17	261.52	261.50	261.94	261.72	261.37	263.02	262.87	261.25	261.50	261.52	261.54	261.67	
18	261.72	261.50	261.82	261.69	261.45	262.22	262.71	261.24	261.50	261.51	261.53	261.49	
19	261.67	261.50	261.54	261.65	261.53	262.00	262.24	261.21	261.49	261.51	261.54	261.53	
20	261.63	261.50	261.78	261.65	261.53	261.83	261.99	261.22	261.52	261.51	261.53	261.51	
21	261.62	261.50	261.64	261.72	261.53	262.48	261.95	261.21	261.52	261.51	261.53	261.53	
22	261.61	261.51	261.52	261.82	261.53	263.06	262.03	261.18	261.52	261.51	261.53	261.55	
23	261.58	261.58	261.52	262.00	261.65	263.20	262.14	261.20	261.52	261.51	261.53	261.54	
24	261.56	261.59	261.61	262.19	261.75	262.35	262.04	261.34	261.52	261.51	261.52	261.53	
25	261.55	261.68	261.68	262.22	261.71	263.57	261.97	261.45	261.52	261.52	261.52	261.54	
26	261.54	261.69	261.57	262.21	261.91	263.53	261.97	261.41	261.52	261.52	261.52	261.54	
27	261.55	261.64	261.54	262.12	262.01	262.80	261.97	261.40	261.52	261.51	261.52	261.53	
28	261.57	261.61	261.53	261.90	261.99	262.21	261.95	261.39	261.52	261.50	261.51	261.53	
29	261.58	261.62	261.55	261.88	261.96	261.98	262.07	261.38	261.49	261.49	261.48	261.53	
30	261.60	261.64	261.62	261.87	261.89	261.90	262.05	261.38	261.39	261.39	261.48	261.53	
31		261.63		261.74	262.01		261.94		261.38	261.51		261.53	
Mean	261.56	261.58	261.67	261.81	261.62	262.55	262.09	261.51	261.50	261.46	261.53	261.56	
Max	261.72	261.72	261.97	262.22	262.01	263.95	263.40	262.01	261.72	261.62	261.59	261.96	263.95
Min	261.47	261.50	261.49	261.54	261.36	261.83	261.81	261.18	261.37	261.37	261.50	261.45	261.18
Annual Max Momentary Gage Height	264.50		m. (MSL.) ,				at 11.00 Hours ,						
Zero Gage at Bottom Elevation	261.00		m. (MSL.) ,			River Bed	260.85	m. (MSL.)					
Left Bank Elevation	268.67		m. (MSL.) ,										
Right Bank Elevation	268.65		m. (MSL.) ,			Drainage Are	157	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	1.60	1.05	1.05	1.75	9.00	3.87	2.70	0.24	0.21	0.60	0.64	
2	0.54	1.40	0.96	0.76	5.27	8.07	5.73	1.85	0.24	0.21	0.96	0.60	
3	0.51	1.15	0.88	1.10	1.85	8.07	4.57	2.93	0.24	0.21	0.84	0.60	
4	0.72	1.00	0.72	0.92	0.60	2.70	4.10	6.90	0.21	0.33	0.80	0.60	
5	0.72	1.15	0.57	0.84	0.64	11.10	2.23	6.20	0.21	0.36	0.76	0.60	
6	0.60	1.15	0.76	0.80	0.68	15.60	2.70	5.97	0.27	0.48	0.68	0.57	
7	0.76	1.05	1.30	0.80	0.72	18.40	5.73	5.73	0.27	1.10	0.68	0.80	
8	0.92	0.96	1.35	0.92	0.72	5.97	7.13	5.27	0.39	0.21	0.64	5.73	
9	0.92	0.88	1.70	1.50	0.68	28.40	6.43	3.63	1.60	0.24	0.64	1.35	
10	0.88	0.84	2.23	2.23	0.68	105.00	4.80	1.25	1.30	0.36	0.64	1.25	
11	0.84	0.80	3.40	8.07	0.64	47.50	8.07	0.76	1.25	0.45	0.68	1.50	
12	0.80	0.76	1.90	7.13	0.33	22.00	11.10	0.51	1.20	0.36	0.68	1.80	
13	0.76	0.72	1.55	5.97	0.24	11.40	7.60	0.15	1.10	0.39	0.68	0.88	
14	0.60	0.68	5.50	5.73	0.18	58.60	7.13	0.00	1.05	0.33	0.64	0.88	
15	0.54	0.68	5.97	2.70	0.21	58.60	7.13	0.00	0.96	0.36	0.64	0.45	
16	0.60	0.64	2.47	1.70	0.24	24.40	67.00	0.00	0.68	0.39	0.72	0.68	
17	0.68	0.60	5.27	1.60	0.21	45.00	37.50	0.00	0.60	0.68	0.76	1.35	
18	1.60	0.60	2.47	1.45	0.45	12.60	30.40	0.00	0.60	0.64	0.72	0.57	
19	1.35	0.60	0.76	1.25	0.72	6.67	13.20	0.00	0.57	0.64	0.76	0.72	
20	1.15	0.60	1.90	1.25	0.72	2.70	6.43	0.00	0.68	0.64	0.72	0.64	
21	1.10	0.60	1.20	1.60	0.72	21.20	5.50	0.00	0.68	0.64	0.72	0.72	
22	1.05	0.64	0.68	2.47	0.72	47.00	7.37	0.00	0.68	0.64	0.72	0.80	
23	0.92	0.92	0.68	6.67	1.25	55.00	10.20	0.00	0.68	0.64	0.72	0.76	
24	0.84	0.96	1.05	11.70	1.75	16.50	7.60	0.12	0.68	0.64	0.68	0.72	
25	0.80	1.40	1.40	12.60	1.55	77.20	5.97	0.45	0.68	0.68	0.68	0.76	
26	0.76	1.45	0.88	12.30	4.57	74.80	5.97	0.33	0.68	0.68	0.68	0.76	
27	0.80	1.20	0.76	9.60	6.90	34.00	5.97	0.30	0.68	0.64	0.68	0.72	
28	0.88	1.05	0.72	4.33	6.43	12.30	5.50	0.27	0.68	0.60	0.64	0.72	
29	0.92	1.10	0.80	3.87	5.73	6.20	8.30	0.24	0.57	0.57		0.72	
30	1.00	1.20	1.10	3.63	4.10	4.33	7.83	0.24	0.27	0.54		0.72	
31		1.15		1.70	6.90		5.27		0.24	0.64		0.72	
<b>Total</b>	25.10	29.53	51.98	118.24	58.15	850.31	318.33	45.80	20.18	15.50	19.76	30.33	1583.21 CMSDAY
<b>Mean</b>	0.84	0.95	1.73	3.81	1.88	28.34	10.27	1.53	0.65	0.50	0.71	0.98	4.34 CMS
<b>Max</b>	1.60	1.60	5.97	12.60	6.90	105.00	67.00	6.90	1.60	1.10	0.96	5.73	105.00 CMS
<b>Min</b>	0.51	0.60	0.57	0.76	0.18	2.70	2.23	0.00	0.21	0.21	0.60	0.45	0.00 CMS
<b>Runoff</b>	2.17	2.55	4.49	10.22	5.02	73.47	27.50	3.96	1.74	1.34	1.71	2.62	136.79 MCM
<b>Momentary Peak</b>	152.00	CMS.	at 264.50 m. (MSL.)	at 11.00 Hours	on Sep 10, 2021								
<b>Runoff Yield</b>	27.63	Liters/Second/Square KM.			Momentary Peak Yield	968.15	Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

Huai Nam Huai at Ban Nam Huai , Loei (Kh.78)

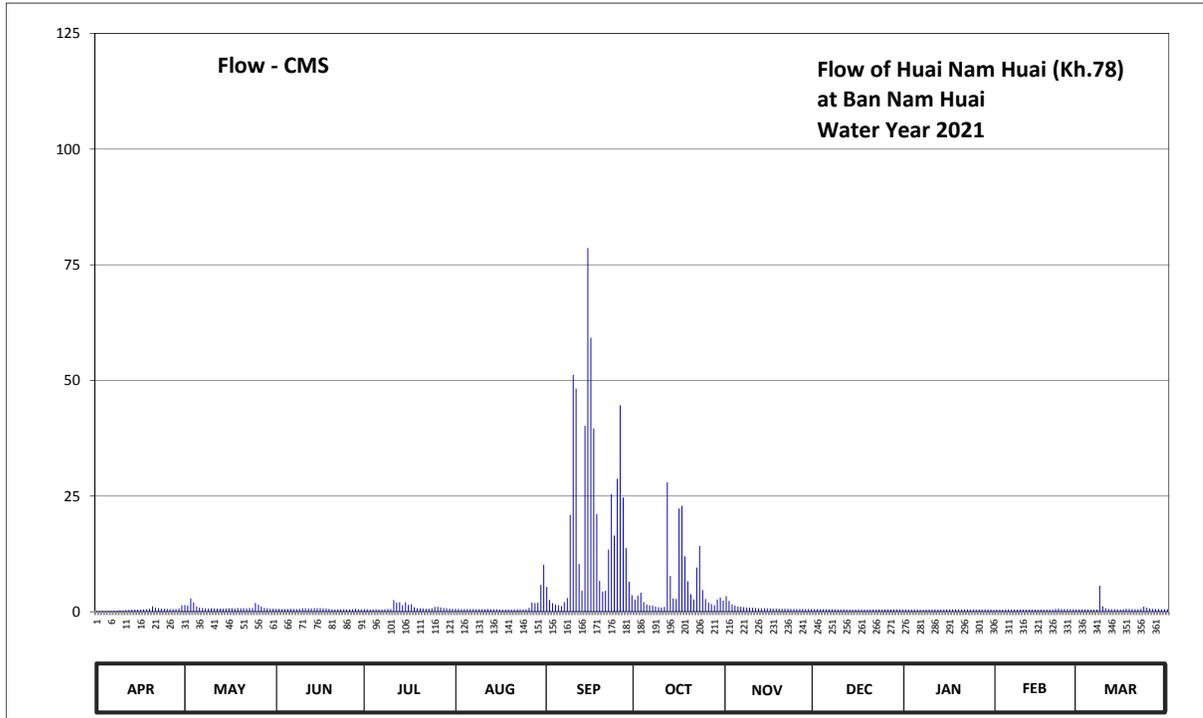
Lat 17 - 23 - 08 N Long 101 - 42 - 28 E

Location : on left bank at the bridge of Amphoe Wang Saphung - Amphoe Mueang Highway.

	<b>Ban</b>	<b>Nam Huai</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Loei</b>
<b>Drainage Area</b>	217	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+246.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.				<b>Elevation</b>	+256.495 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1993 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1993 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. The concrete weir situated about 700 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	247.57	248.38	248.02	247.98	248.03	249.04	248.65	248.78	247.98	247.90	247.91	247.93	
2	247.58	248.35	248.00	247.95	248.01	248.63	248.80	248.59	247.97	247.90	247.89	247.92	
3	247.58	248.70	247.98	247.90	247.99	248.49	248.89	248.43	247.96	247.90	247.89	247.90	
4	247.58	248.52	247.97	247.91	247.99	248.41	248.53	248.35	247.96	247.90	247.90	247.87	
5	247.59	248.28	247.99	247.94	247.98	248.37	248.41	248.29	247.95	247.90	247.90	247.85	
6	247.61	248.17	248.01	247.92	247.97	248.30	248.36	248.25	247.95	247.89	247.90	247.85	
7	247.63	248.14	247.99	247.91	247.97	248.54	248.34	248.22	247.95	247.89	247.89	247.88	
8	247.65	248.08	247.99	247.94	247.96	248.71	248.26	248.19	247.94	247.90	247.89	249.07	
9	247.69	248.06	248.04	248.01	247.95	250.13	248.21	248.17	247.93	247.90	247.89	248.29	
10	247.72	248.09	248.11	247.99	247.94	251.81	248.17	248.15	247.92	247.91	247.88	248.09	
11	247.78	248.08	248.11	248.62	247.96	251.66	248.23	248.13	247.94	247.91	247.86	248.01	
12	247.81	248.05	248.08	248.51	247.97	249.42	250.60	248.11	247.93	247.91	247.87	247.98	
13	247.83	248.04	248.07	248.53	247.96	248.94	249.25	248.10	247.92	247.92	247.88	247.97	
14	247.84	248.04	248.09	248.37	247.95	251.26	248.70	248.09	247.92	247.91	247.88	247.95	
15	247.85	248.05	248.11	248.53	247.95	253.18	248.67	248.08	247.92	247.90	247.88	247.93	
16	247.88	248.09	248.12	248.39	247.92	252.21	250.22	248.07	247.92	247.91	247.89	247.96	
17	247.91	248.09	248.08	248.43	247.92	251.23	250.26	248.06	247.92	247.91	247.89	248.03	
18	247.92	248.06	248.05	248.20	247.92	250.14	249.53	248.06	247.91	247.90	247.89	248.01	
19	248.02	248.13	248.01	248.11	247.92	249.17	249.16	248.05	247.91	247.90	247.88	247.97	
20	248.28	248.10	247.94	248.07	247.93	248.92	248.84	248.04	247.90	247.90	247.89	247.95	
21	248.16	248.09	247.93	248.06	247.93	248.94	248.65	248.04	247.90	247.90	248.01	247.94	
22	248.09	248.08	247.94	248.04	247.95	249.63	249.37	248.03	247.91	247.91	248.05	248.02	
23	248.05	248.14	247.94	248.04	247.95	250.43	249.68	248.02	247.92	247.91	248.02	248.26	
24	248.04	248.12	247.95	248.10	247.94	249.83	248.96	248.01	247.93	247.90	247.99	248.15	
25	248.01	248.50	247.93	248.24	247.95	250.65	248.67	248.01	247.93	247.91	247.97	248.05	
26	247.98	248.40	247.94	248.25	248.14	251.48	248.52	248.01	247.93	247.91	247.96	248.01	
27	247.97	248.26	247.96	248.19	248.52	250.38	248.44	248.00	247.91	247.91	247.95	247.99	
28	247.97	248.14	248.00	248.14	248.49	249.65	248.37	247.99	247.91	247.91	247.94	247.97	
29	248.07	248.10	247.96	248.09	248.52	249.15	248.65	247.97	247.92	247.90	247.88	247.96	
30	248.36	248.06	247.94	248.05	249.09	248.81	248.73	247.99	247.92	247.92	247.88	247.96	
31		248.03		248.04	249.41		248.60		247.91	247.86		247.96	
Mean	247.87	248.17	248.01	248.14	248.10	249.85	248.86	248.14	247.93	247.90	247.92	248.02	
Max	248.36	248.70	248.12	248.62	249.41	253.18	250.60	248.78	247.98	247.92	248.05	249.07	253.18
Min	247.57	248.03	247.93	247.90	247.92	248.30	248.17	247.97	247.90	247.86	247.86	247.85	247.57
Annual Max Momentary Gage Height	254.07		m. (MSL.) ,			at 23.00 Hours ,		on Sep 15, 2021					
Zero Gage at Bottom Elevation	246.20		m. (MSL.) ,			River Bed	247.12	m. (MSL.)					
Left Bank Elevation		255.82		m. (MSL.) ,									
Right Bank Elevation		254.26		m. (MSL.) ,		Drainage Are	217	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual			
1	0.17	1.44	0.63	0.58	0.65	5.36	2.65	3.38	0.58	0.50	0.51	0.53				
2	0.18	1.35	0.60	0.55	0.62	2.55	3.50	2.35	0.57	0.50	0.49	0.52				
3	0.18	2.90	0.58	0.50	0.59	1.86	4.13	1.62	0.56	0.50	0.49	0.50				
4	0.18	2.00	0.57	0.51	0.59	1.54	2.05	1.35	0.56	0.50	0.50	0.47				
5	0.19	1.15	0.59	0.54	0.58	1.41	1.54	1.18	0.55	0.50	0.50	0.45				
6	0.21	0.89	0.62	0.52	0.57	1.20	1.38	1.08	0.55	0.49	0.50	0.45				
7	0.23	0.83	0.59	0.51	0.57	2.10	1.32	1.00	0.55	0.49	0.49	0.48				
8	0.25	0.72	0.59	0.54	0.56	2.96	1.10	0.93	0.54	0.50	0.49	5.63				
9	0.29	0.69	0.66	0.62	0.55	20.95	0.98	0.89	0.53	0.50	0.49	1.18				
10	0.32	0.74	0.77	0.59	0.54	51.20	0.89	0.85	0.52	0.51	0.48	0.74				
11	0.38	0.72	0.77	2.50	0.56	48.20	1.03	0.81	0.54	0.51	0.46	0.62				
12	0.41	0.68	0.72	1.95	0.57	10.30	28.00	0.77	0.53	0.51	0.47	0.58				
13	0.43	0.66	0.71	2.05	0.56	4.52	7.75	0.75	0.52	0.52	0.48	0.57				
14	0.44	0.66	0.74	1.41	0.55	40.20	2.90	0.74	0.52	0.51	0.48	0.55				
15	0.45	0.68	0.77	2.05	0.55	78.60	2.75	0.72	0.52	0.50	0.48	0.53				
16	0.48	0.74	0.79	1.47	0.52	59.20	22.30	0.71	0.52	0.51	0.49	0.56				
17	0.51	0.74	0.72	1.62	0.52	39.60	22.90	0.69	0.52	0.51	0.49	0.65				
18	0.52	0.69	0.68	0.95	0.52	21.10	11.95	0.69	0.51	0.50	0.49	0.62				
19	0.63	0.81	0.62	0.77	0.52	6.67	6.56	0.68	0.51	0.50	0.48	0.57				
20	1.15	0.75	0.54	0.71	0.53	4.36	3.78	0.66	0.50	0.50	0.49	0.55				
21	0.87	0.74	0.53	0.69	0.53	4.52	2.65	0.66	0.50	0.50	0.62	0.54				
22	0.74	0.72	0.54	0.66	0.55	13.45	9.55	0.65	0.51	0.51	0.68	0.63				
23	0.68	0.83	0.54	0.66	0.55	25.45	14.20	0.63	0.52	0.51	0.63	1.10				
24	0.66	0.79	0.55	0.75	0.54	16.45	4.68	0.62	0.53	0.50	0.59	0.85				
25	0.62	1.90	0.53	1.05	0.55	28.75	2.75	0.62	0.53	0.51	0.57	0.68				
26	0.58	1.50	0.54	1.08	0.83	44.60	2.00	0.62	0.53	0.51	0.56	0.62				
27	0.57	1.10	0.56	0.93	2.00	24.70	1.66	0.60	0.51	0.51	0.55	0.59				
28	0.57	0.83	0.60	0.83	1.86	13.75	1.41	0.59	0.51	0.51	0.54	0.57				
29	0.71	0.75	0.56	0.74	2.00	6.45	2.65	0.57	0.52	0.50		0.56				
30	1.38	0.69	0.54	0.68	5.81	3.57	3.08	0.59	0.52	0.48		0.56				
31		0.65		0.66	10.15		2.40		0.51	0.46		0.56				
<b>Total</b>	14.98	30.34	18.75	29.67	36.59	585.57	176.49	28.00	16.39	15.56	14.49	24.01	990.84 CMSDAY			
<b>Mean</b>	0.50	0.98	0.62	0.96	1.18	19.52	5.69	0.93	0.53	0.50	0.52	0.77	2.71 CMS			
<b>Max</b>	1.38	2.90	0.79	2.50	10.15	78.60	28.00	3.38	0.58	0.52	0.68	5.63	78.60 CMS			
<b>Min</b>	0.17	0.65	0.53	0.50	0.52	1.20	0.89	0.57	0.50	0.46	0.46	0.45	0.17 CMS			
<b>Runoff</b>	1.29	2.62	1.62	2.56	3.16	50.59	15.25	2.42	1.42	1.34	1.25	2.07	85.61 MCM			
<b>Momentary Peak</b>	96.40	CMS. at 254.07 m. (MSL.) at 23.00 Hours , on Sep 15 , 2021														
<b>Runoff Yield</b>	12.51	Liters/Second/Square KM.											<b>Momentary Peak Yield</b>	444.24	Liters/Second/Square KM.	

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Lam Nam Phung at Ban Tong Khop , Sakon Nakhon (Kh.90)

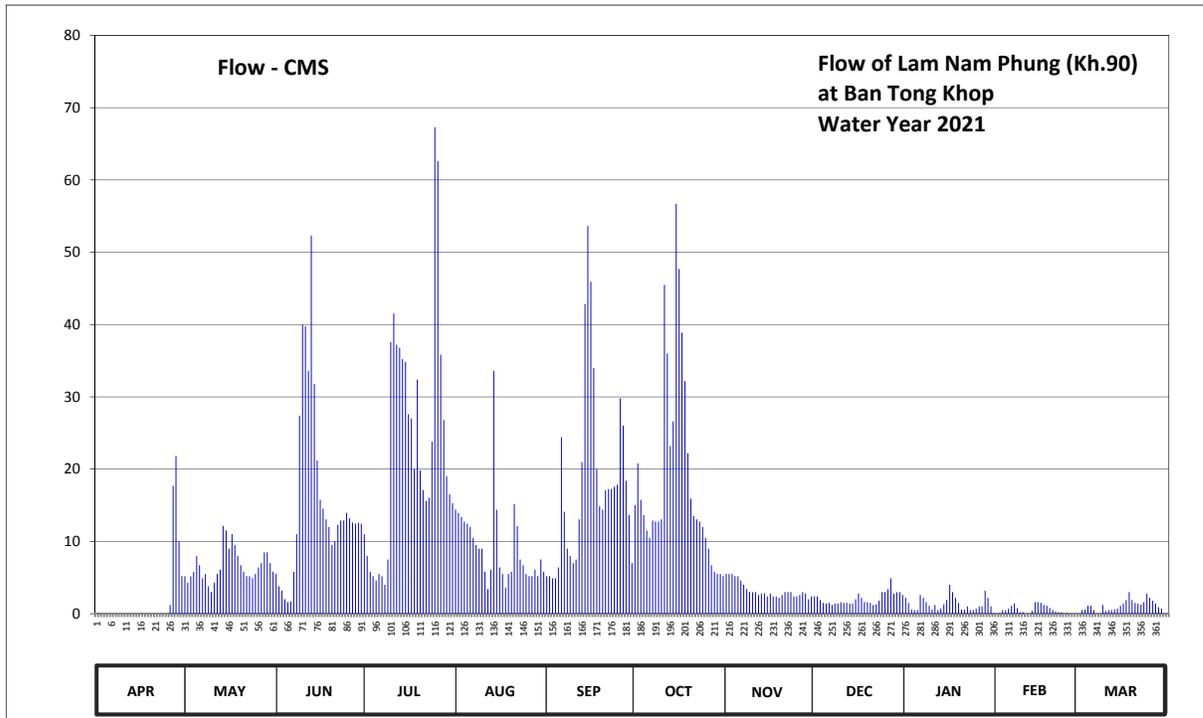
Lat 17 - 03 - 10 N Long 104 - 15 - 19 E

Location : on right bank at the bridge on highway.

	<b>Ban</b>	<b>Tong Khop</b>	<b>Amphoe</b>	<b>Khok Si Suphan</b>	<b>Changwat</b>	<b>Sakon Nakhon</b>
<b>Drainage Area</b>	842	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+157.400 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the footpath of the bridge.				<b>Elevation</b>	+167.908 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1996 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +164.130 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 40 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.90	160.44	160.45	160.58	160.76	160.44	160.80	160.45	160.32	160.31	160.06	160.10	
2	159.86	160.41	160.39	160.52	160.73	160.44	161.14	160.45	160.32	160.25	160.11	160.15	
3	159.86	160.44	160.36	160.46	160.69	160.43	160.85	160.45	160.29	160.16	160.15	160.16	
4	159.87	160.46	160.30	160.44	160.65	160.43	160.71	160.44	160.25	160.15	160.15	160.21	
5	159.89	160.52	160.26	160.42	160.63	160.48	160.59	160.44	160.24	160.15	160.17	160.21	
6	159.92	160.49	160.27	160.45	160.60	161.32	160.57	160.42	160.25	160.33	160.21	160.15	
7	159.90	160.43	160.46	160.44	160.57	160.74	160.66	160.40	160.22	160.31	160.24	160.10	
8	159.88	160.45	160.58	160.40	160.55	160.54	160.65	160.37	160.24	160.26	160.18	160.10	
9	159.86	160.39	161.47	160.51	160.54	160.52	160.65	160.35	160.24	160.21	160.12	160.22	
10	159.85	160.35	162.09	161.98	160.54	160.50	160.67	160.35	160.26	160.16	160.12	160.14	
11	159.85	160.41	162.08	162.16	160.46	160.51	162.34	160.35	160.25	160.22	160.07	160.15	
12	159.85	160.45	161.78	161.96	160.37	160.67	161.90	160.33	160.25	160.15	160.06	160.15	
13	159.86	160.47	162.65	161.94	160.47	161.15	161.26	160.34	160.24	160.17	160.14	160.16	
14	159.86	160.61	161.69	161.86	161.78	162.22	161.43	160.34	160.24	160.23	160.26	160.17	
15	159.85	160.59	161.16	161.84	160.76	162.71	162.85	160.32	160.30	160.29	160.26	160.21	
16	159.85	160.54	160.85	161.48	160.48	162.36	162.44	160.34	160.34	160.40	160.25	160.24	
17	159.86	160.58	160.77	161.45	160.45	161.80	162.04	160.32	160.31	160.35	160.22	160.29	
18	159.89	160.55	160.67	161.10	160.38	161.10	161.71	160.32	160.26	160.31	160.21	160.35	
19	159.90	160.52	160.60	161.72	160.45	160.79	161.21	160.31	160.26	160.25	160.18	160.29	
20	159.94	160.49	160.55	161.09	160.46	160.76	160.86	160.33	160.25	160.16	160.15	160.25	
21	159.92	160.46	160.56	160.94	160.81	160.94	160.70	160.35	160.22	160.16	160.13	160.24	
22	159.94	160.44	160.62	160.84	160.61	160.95	160.67	160.35	160.23	160.20	160.12	160.23	
23	159.89	160.44	160.66	160.87	160.51	160.95	160.65	160.35	160.28	160.15	160.12	160.26	
24	159.87	160.43	160.66	161.29	160.49	160.97	160.60	160.32	160.35	160.15	160.10	160.34	
25	159.89	160.45	160.73	163.28	160.45	160.99	160.57	160.32	160.35	160.17	160.11	160.31	
26	160.22	160.48	160.68	163.10	160.44	161.59	160.54	160.33	160.37	160.20	160.08	160.28	
27	160.98	160.50	160.64	161.89	160.44	161.40	160.49	160.35	160.43	160.20	160.06	160.24	
28	161.19	160.53	160.63	161.44	160.47	161.02	160.46	160.34	160.34	160.36	160.06	160.19	
29	160.56	160.53	160.64	161.05	160.44	160.71	160.45	160.30	160.35	160.31		160.17	
30	160.44	160.50	160.63	160.90	160.51	160.50	160.45	160.32	160.35	160.20		160.03	
31		160.46		160.82	160.46		160.44		160.33	160.11		160.06	
Mean	160.01	160.48	160.86	161.27	160.58	161.00	161.01	160.36	160.29	160.23	160.15	160.20	
Max	161.19	160.61	162.65	163.28	161.78	162.71	162.85	160.45	160.43	160.40	160.26	160.35	163.28
Min	159.85	160.35	160.26	160.40	160.37	160.43	160.44	160.30	160.22	160.11	160.06	160.03	159.85
Annual Max Momentary Gage Height	164.25		m. (MSL.) ,										at 03.00 Hours , on Jul 26, 2021
Zero Gage at Bottom Elevation	157.40		m. (MSL.) ,			River Bed	158.83		m. (MSL.)				
Left Bank Elevation		164.12		m. (MSL.) ,									
Right Bank Elevation		166.06		m. (MSL.) ,		Drainage Are	842		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	5.20	5.50	11.00	14.40	5.20	15.00	5.50	2.40	2.20	0.00	0.00	
2	0.00	4.30	3.80	8.00	13.95	5.20	20.80	5.50	2.40	1.50	0.10	0.50	
3	0.00	5.20	3.20	5.80	13.35	4.90	15.75	5.50	1.90	0.60	0.50	0.60	
4	0.00	5.80	2.00	5.20	12.75	4.90	13.65	5.20	1.50	0.50	0.50	1.10	
5	0.00	8.00	1.60	4.60	12.45	6.40	11.50	5.20	1.40	0.50	0.70	1.10	
6	0.00	6.70	1.70	5.50	12.00	24.40	10.50	4.60	1.50	2.60	1.10	0.50	
7	0.00	4.90	5.80	5.20	10.50	14.10	12.90	4.00	1.20	2.20	1.40	0.00	
8	0.00	5.50	11.00	4.00	9.50	9.00	12.75	3.40	1.40	1.60	0.80	0.00	
9	0.00	3.80	27.40	7.50	9.00	8.00	12.75	3.00	1.40	1.10	0.20	1.20	
10	0.00	3.00	39.98	37.60	9.00	7.00	13.05	3.00	1.60	0.60	0.20	0.40	
11	0.00	4.30	39.76	41.52	5.80	7.50	45.48	3.00	1.50	1.20	0.00	0.50	
12	0.00	5.50	33.60	37.20	3.40	13.05	36.00	2.60	1.50	0.50	0.00	0.50	
13	0.00	6.10	52.30	36.80	6.10	21.00	23.20	2.80	1.40	0.70	0.40	0.60	
14	0.00	12.15	31.80	35.20	33.60	42.84	26.60	2.80	1.40	1.30	1.60	0.70	
15	0.00	11.50	21.20	34.80	14.40	53.62	56.70	2.40	2.00	1.90	1.60	1.10	
16	0.00	9.00	15.75	27.60	6.40	45.92	47.68	2.80	2.80	4.00	1.50	1.40	
17	0.00	11.00	14.55	27.00	5.50	34.00	38.88	2.40	2.20	3.00	1.20	1.90	
18	0.00	9.50	13.05	20.00	3.60	20.00	32.20	2.40	1.60	2.20	1.10	3.00	
19	0.00	8.00	12.00	32.40	5.50	14.85	22.20	2.20	1.60	1.50	0.80	1.90	
20	0.00	6.70	9.50	19.80	5.80	14.40	15.90	2.60	1.50	0.60	0.50	1.50	
21	0.00	5.80	10.00	17.10	15.15	17.10	13.50	3.00	1.20	0.60	0.30	1.40	
22	0.00	5.20	12.30	15.60	12.15	17.25	13.05	3.00	1.30	1.00	0.20	1.30	
23	0.00	5.20	12.90	16.05	7.50	17.25	12.75	3.00	1.80	0.50	0.20	1.60	
24	0.00	4.90	12.90	23.80	6.70	17.55	12.00	2.40	3.00	0.50	0.00	2.80	
25	0.00	5.50	13.95	67.28	5.50	17.85	10.50	2.40	3.00	0.70	0.10	2.20	
26	1.20	6.40	13.20	62.60	5.20	29.80	9.00	2.60	3.40	1.00	0.00	1.80	
27	17.70	7.00	12.60	35.80	5.20	26.00	6.70	3.00	4.90	1.00	0.00	1.40	
28	21.80	8.50	12.45	26.80	6.10	18.40	5.80	2.80	2.80	3.20	0.00	0.90	
29	10.00	8.50	12.60	19.00	5.20	13.65	5.50	2.00	3.00	2.20		0.70	
30	5.20	7.00	12.45	16.50	7.50	7.00	5.50	2.40	3.00	1.00		0.00	
31		5.80		15.30	5.80		5.20		2.60	0.10		0.00	
Total	55.90	205.95	470.84	722.55	289.00	538.13	582.99	97.50	64.20	42.10	15.00	32.60	3116.76 CMSDAY
Mean	1.86	6.64	15.69	23.31	9.32	17.94	18.81	3.25	2.07	1.36	0.54	1.05	8.54 CMS
Max	21.80	12.15	52.30	67.28	33.60	53.62	56.70	5.50	4.90	4.00	1.60	3.00	67.28 CMS
Min	0.00	3.00	1.60	4.00	3.40	4.90	5.20	2.00	1.20	0.10	0.00	0.00	0.00 CMS
Runoff	4.83	17.79	40.68	62.43	24.97	46.49	50.37	8.42	5.55	3.64	1.30	2.82	269.29 MCM
Momentary Peak	93.00 CMS. at 164.25 m. (MSL.) at 03.00 Hours , on Jun 26, 2021												
Runoff Yield	10.14 Liters/Second/Square KM.			Momentary Peak Yield			110.45 Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

Huai Chanot at Ban Khon Sawan , Nakhon Phanom (Kh.91)

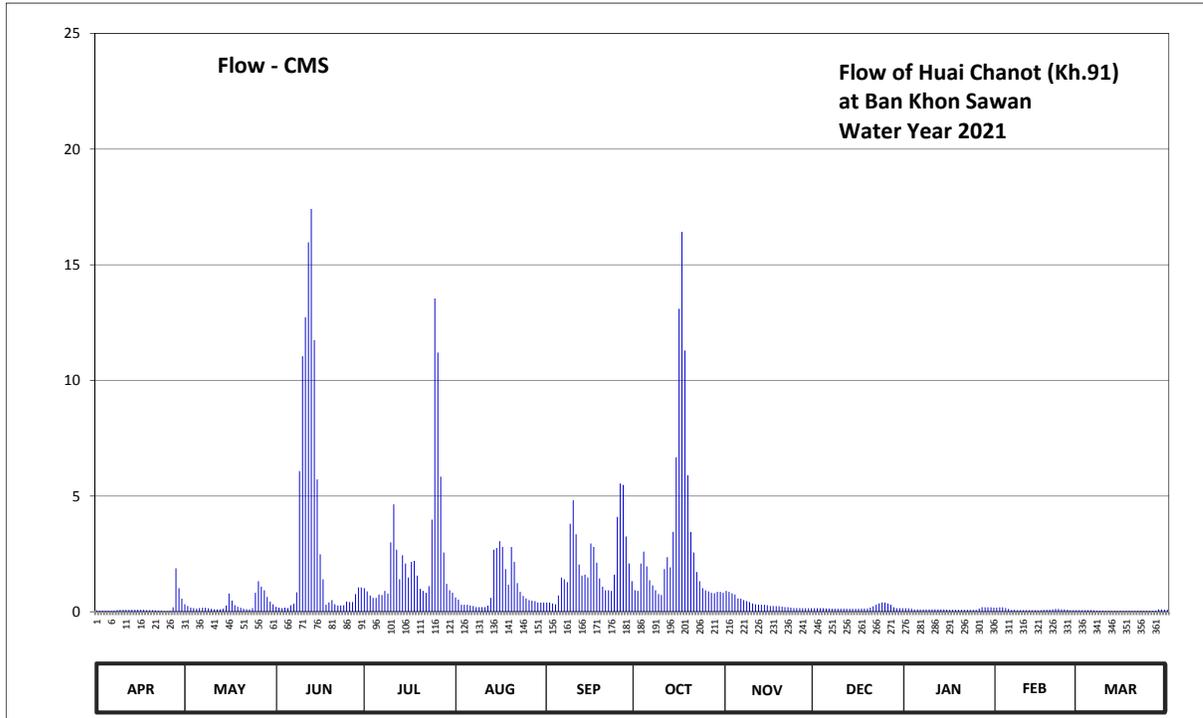
Lat 16 - 47 - 54 N Long 104 - 39 - 31 E

Location : on left bank at the bridge on highway.

	Ban Khon Sawan	Amphoe That Phanom	Changwat Nakhon Phanom
<b>Drainage Area</b>	169 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+149.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank at the footpath of the bridge.	<b>Elevation</b>	+158.775 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.91	150.21	150.11	150.54	150.36	150.25	150.51	150.50	150.05	150.05	150.08	149.94	
2	149.90	150.15	150.08	150.49	150.31	150.25	150.50	150.48	150.05	150.05	150.09	149.94	
3	149.90	150.08	150.05	150.40	150.20	150.23	150.82	150.45	150.05	150.03	150.09	149.94	
4	149.89	150.06	150.08	150.35	150.20	150.21	150.95	150.42	150.05	150.00	150.06	149.94	
5	149.89	150.04	150.06	150.35	150.20	150.40	150.79	150.34	150.04	150.00	150.02	149.93	
6	149.88	150.06	150.18	150.42	150.17	150.67	150.64	150.33	150.04	150.00	149.95	149.92	
7	149.89	150.07	150.22	150.41	150.15	150.65	150.58	150.30	150.03	150.00	149.95	149.89	
8	149.94	150.07	150.47	150.50	150.10	150.62	150.51	150.28	150.03	150.00	149.94	149.89	
9	149.95	150.05	151.58	150.44	150.10	151.20	150.43	150.26	150.03	150.00	149.94	149.89	
10	149.96	150.02	152.28	151.04	150.10	151.37	150.41	150.23	150.03	150.00	149.94	149.88	
11	149.95	150.00	152.47	151.34	150.10	151.11	150.76	150.21	150.03	150.00	149.93	149.88	
12	149.95	150.00	152.83	150.97	150.16	150.81	150.89	150.20	150.03	149.99	149.93	149.88	
13	149.95	150.00	152.99	150.65	150.35	150.69	150.78	150.20	150.03	150.00	149.93	149.88	
14	149.95	150.03	152.36	150.91	150.97	150.70	151.13	150.20	150.03	150.00	149.93	149.88	
15	149.95	150.17	151.52	150.82	150.99	150.67	151.68	150.18	150.03	149.98	149.92	149.88	
16	149.95	150.44	150.92	150.67	151.05	151.03	152.51	150.15	150.03	149.96	149.94	149.88	
17	149.95	150.29	150.65	150.84	151.00	151.00	152.88	150.15	150.04	149.95	149.95	149.88	
18	149.93	150.18	150.20	150.85	150.76	150.83	152.31	150.14	150.04	149.95	149.96	149.88	
19	149.93	150.11	150.25	150.69	150.59	150.66	151.55	150.14	150.04	149.95	149.98	149.88	
20	149.93	150.07	150.30	150.53	151.00	150.56	151.13	150.12	150.08	149.95	150.00	149.88	
21	149.92	150.03	150.21	150.50	150.84	150.51	150.94	150.10	150.13	149.95	150.02	149.89	
22	149.90	150.01	150.17	150.46	150.61	150.51	150.73	150.10	150.20	149.95	150.02	149.90	
23	149.87	150.00	150.17	150.57	150.48	150.50	150.63	150.08	150.23	149.95	150.00	149.88	
24	149.86	150.06	150.18	151.23	150.39	150.70	150.54	150.06	150.25	149.95	150.00	149.88	
25	149.86	150.46	150.27	152.56	150.34	151.25	150.51	150.06	150.25	149.95	149.97	149.88	
26	149.87	150.63	150.26	152.30	150.30	151.49	150.49	150.06	150.23	150.04	149.94	149.88	
27	150.09	150.56	150.26	151.54	150.29	151.48	150.46	150.05	150.20	150.10	149.94	149.90	
28	150.77	150.51	150.43	150.94	150.28	151.09	150.45	150.05	150.09	150.09	149.94	150.00	
29	150.54	150.37	150.55	150.60	150.25	150.82	150.48	150.05	150.05	150.09	150.09	150.00	
30	150.33	150.27	150.55	150.51	150.25	150.63	150.48	150.05	150.05	150.09	150.09	149.97	
31		150.21		150.46	150.25		150.46		150.05	150.08		149.95	
Mean	149.99	150.17	150.76	150.80	150.42	150.76	150.90	150.20	150.08	150.00	149.98	149.91	
Max	150.77	150.63	152.99	152.56	151.05	151.49	152.88	150.50	150.25	150.10	150.09	150.00	152.99
Min	149.86	150.00	150.05	150.35	150.10	150.21	150.41	150.05	150.03	149.95	149.92	149.88	149.86
Annual Max Momentary Gage Height	153.08		m. (MSL.) ,			at 11.00 Hours ,		on Jun 13, 2021					
Zero Gage at Bottom Elevation	149.00		m. (MSL.) ,			River Bed	149.58	m. (MSL.)					
Left Bank Elevation		154.66		m. (MSL.) ,									
Right Bank Elevation		154.91		m. (MSL.) ,		Drainage Are	169	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.32	0.21	1.02	0.62	0.40	0.93	0.90	0.15	0.15	0.18	0.07	
2	0.05	0.25	0.18	0.88	0.52	0.40	0.90	0.86	0.15	0.15	0.19	0.07	
3	0.05	0.18	0.15	0.70	0.30	0.36	2.08	0.80	0.15	0.13	0.19	0.07	
4	0.05	0.16	0.18	0.60	0.30	0.32	2.60	0.74	0.15	0.10	0.16	0.07	
5	0.05	0.14	0.16	0.60	0.30	0.70	1.96	0.58	0.14	0.10	0.12	0.07	
6	0.04	0.16	0.28	0.74	0.27	1.48	1.36	0.56	0.14	0.10	0.08	0.06	
7	0.05	0.17	0.34	0.72	0.25	1.40	1.14	0.50	0.13	0.10	0.08	0.05	
8	0.07	0.17	0.84	0.90	0.20	1.28	0.93	0.46	0.13	0.10	0.07	0.05	
9	0.08	0.15	6.08	0.78	0.20	3.80	0.76	0.42	0.13	0.10	0.07	0.05	
10	0.08	0.12	11.04	3.00	0.20	4.82	0.72	0.36	0.13	0.10	0.07	0.04	
11	0.08	0.10	12.73	4.64	0.20	3.35	1.84	0.32	0.13	0.10	0.07	0.04	
12	0.08	0.10	15.97	2.68	0.26	2.04	2.36	0.30	0.13	0.10	0.07	0.04	
13	0.08	0.10	17.41	1.40	0.60	1.56	1.92	0.30	0.13	0.10	0.07	0.04	
14	0.08	0.13	11.74	2.44	2.68	1.60	3.45	0.30	0.13	0.10	0.07	0.04	
15	0.08	0.27	5.72	2.08	2.76	1.48	6.68	0.28	0.13	0.09	0.06	0.04	
16	0.08	0.78	2.48	1.48	3.05	2.95	13.09	0.25	0.13	0.08	0.07	0.04	
17	0.08	0.48	1.40	2.16	2.80	2.80	16.42	0.25	0.14	0.08	0.08	0.04	
18	0.07	0.28	0.30	2.20	1.84	2.12	11.29	0.24	0.14	0.08	0.08	0.04	
19	0.07	0.21	0.40	1.56	1.17	1.44	5.90	0.24	0.14	0.08	0.09	0.04	
20	0.07	0.17	0.50	0.99	2.80	1.08	3.45	0.22	0.18	0.08	0.10	0.04	
21	0.06	0.13	0.32	0.90	2.16	0.93	2.56	0.20	0.23	0.08	0.12	0.05	
22	0.05	0.11	0.27	0.82	1.24	0.93	1.72	0.20	0.30	0.08	0.12	0.05	
23	0.04	0.10	0.27	1.11	0.86	0.90	1.32	0.18	0.36	0.08	0.10	0.04	
24	0.03	0.16	0.28	3.98	0.68	1.60	1.02	0.16	0.40	0.08	0.10	0.04	
25	0.03	0.82	0.44	13.54	0.58	4.10	0.93	0.16	0.40	0.08	0.09	0.04	
26	0.04	1.32	0.42	11.20	0.50	5.54	0.88	0.16	0.36	0.14	0.07	0.04	
27	0.19	1.08	0.42	5.84	0.48	5.48	0.82	0.15	0.30	0.20	0.07	0.05	
28	1.88	0.93	0.76	2.56	0.46	3.25	0.80	0.15	0.19	0.19	0.07	0.10	
29	1.02	0.64	1.05	1.20	0.40	2.08	0.86	0.15	0.15	0.19	0.10	0.10	
30	0.56	0.44	1.05	0.93	0.40	1.32	0.86	0.15	0.15	0.19	0.09	0.09	
31	0.32			0.82	0.40		0.82		0.15	0.18		0.08	
<b>Total</b>	<b>5.25</b>	<b>10.49</b>	<b>93.39</b>	<b>74.47</b>	<b>29.48</b>	<b>61.51</b>	<b>92.37</b>	<b>10.54</b>	<b>5.77</b>	<b>3.51</b>	<b>2.71</b>	<b>1.68</b>	<b>391.17</b> CMSDAY
<b>Mean</b>	<b>0.17</b>	<b>0.34</b>	<b>3.11</b>	<b>2.40</b>	<b>0.95</b>	<b>2.05</b>	<b>2.98</b>	<b>0.35</b>	<b>0.19</b>	<b>0.11</b>	<b>0.10</b>	<b>0.05</b>	<b>1.07</b> CMS
<b>Max</b>	<b>1.88</b>	<b>1.32</b>	<b>17.41</b>	<b>13.54</b>	<b>3.05</b>	<b>5.54</b>	<b>16.42</b>	<b>0.90</b>	<b>0.40</b>	<b>0.20</b>	<b>0.19</b>	<b>0.10</b>	<b>17.41</b> CMS
<b>Min</b>	<b>0.03</b>	<b>0.10</b>	<b>0.15</b>	<b>0.60</b>	<b>0.20</b>	<b>0.32</b>	<b>0.72</b>	<b>0.15</b>	<b>0.13</b>	<b>0.08</b>	<b>0.06</b>	<b>0.04</b>	<b>0.03</b> CMS
<b>Runoff</b>	<b>0.45</b>	<b>0.91</b>	<b>8.07</b>	<b>6.43</b>	<b>2.55</b>	<b>5.31</b>	<b>7.98</b>	<b>0.91</b>	<b>0.50</b>	<b>0.30</b>	<b>0.23</b>	<b>0.15</b>	<b>33.80</b> MCM
<b>Momentary Peak</b>	<b>18.22 CMS. at 153.08 m. (MSL.) at 11.00 Hours , on Jun 13, 2021</b>												
<b>Runoff Yield</b>	<b>6.34 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 107.81 Liters/Second/Square KM.</b>									

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Huai Bang Sai at Ban Kan Luang Dong , Muk Dahan (Kh.92)

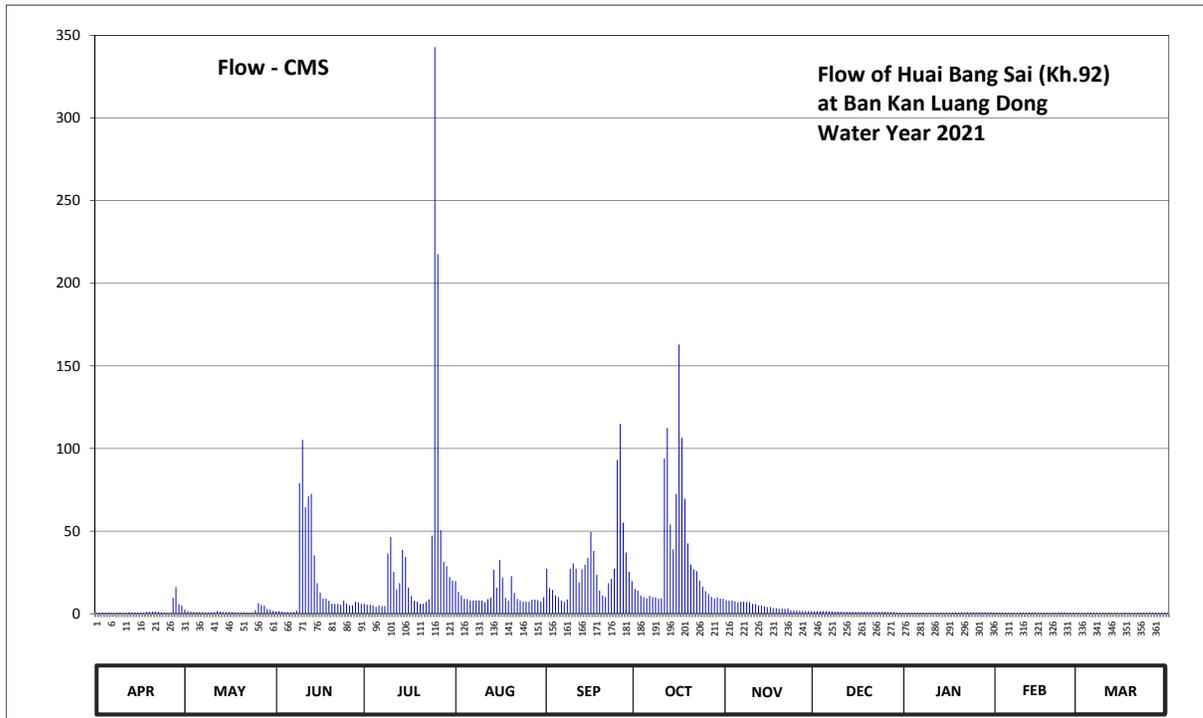
Lat 16 - 44 - 12 N Long 104 - 31 - 10 E

Location : on left bank at the bridge on highway.

	<b>Ban Kan Luang Dong</b>	<b>Amphoe Dong Luang</b>	<b>Changwat Muk Dahan</b>
<b>Drainage Area</b>	1,122 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+148.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank at the footpath of the bridge.		<b>Elevation</b> +159.233 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +154.740 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. The local weir situated downstream from the gage site. Stage-discharge relation defined by 43 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.70	149.05	148.90	149.40	150.09	150.34	149.93	149.61	148.90	148.70	148.73	148.70	
2	148.73	148.90	148.90	149.35	149.88	149.95	149.90	149.60	148.90	148.70	148.73	148.70	
3	148.75	148.85	148.85	149.35	149.80	149.91	149.80	149.60	148.90	148.70	148.73	148.70	
4	148.75	148.82	148.80	149.30	149.70	149.80	149.75	149.55	148.90	148.70	148.70	148.70	
5	148.75	148.80	148.80	149.21	149.69	149.75	149.71	149.50	148.90	148.73	148.70	148.73	
6	148.73	148.80	148.80	149.29	149.60	149.60	149.79	149.53	148.90	148.73	148.70	148.73	
7	148.70	148.80	148.81	149.25	149.60	149.51	149.75	149.53	148.88	148.73	148.70	148.71	
8	148.73	148.75	149.00	149.26	149.60	149.67	149.75	149.50	148.85	148.70	148.70	148.70	
9	148.73	148.73	151.72	150.65	149.60	150.34	149.70	149.49	148.85	148.70	148.73	148.70	
10	148.70	148.75	152.22	150.98	149.60	150.45	149.72	149.40	148.85	148.70	148.73	148.70	
11	148.71	148.80	151.43	150.28	149.49	150.34	152.02	149.39	148.83	148.70	148.73	148.70	
12	148.78	148.93	151.56	149.92	149.68	150.07	152.34	149.30	148.83	148.70	148.73	148.70	
13	148.75	148.83	151.59	150.05	149.74	150.33	151.20	149.30	148.83	148.70	148.75	148.70	
14	148.73	148.80	150.61	150.72	150.32	150.42	150.73	149.25	148.83	148.70	148.75	148.68	
15	148.73	148.80	150.05	150.58	149.96	150.56	151.59	149.20	148.83	148.70	148.72	148.68	
16	148.71	148.80	149.86	149.96	150.52	151.08	153.17	149.20	148.83	148.73	148.73	148.68	
17	148.71	148.80	149.71	149.79	150.16	150.70	152.24	149.15	148.83	148.73	148.73	148.69	
18	148.84	148.75	149.70	149.58	149.73	150.22	151.53	149.15	148.83	148.77	148.70	148.70	
19	148.81	148.75	149.59	149.52	149.60	149.90	150.85	149.10	148.83	148.74	148.70	148.70	
20	148.84	148.75	149.41	149.40	150.19	149.80	150.42	149.10	148.82	148.75	148.70	148.71	
21	148.84	148.77	149.40	149.41	149.85	149.75	150.33	149.10	148.82	148.75	148.70	148.72	
22	148.81	148.75	149.40	149.52	149.69	150.05	150.29	149.13	148.82	148.75	148.74	148.73	
23	148.78	148.75	149.34	149.68	149.60	150.14	150.10	149.01	148.81	148.75	148.78	148.73	
24	148.75	148.76	149.60	151.01	149.53	150.34	149.98	149.00	148.81	148.75	148.77	148.75	
25	148.70	149.01	149.41	155.29	149.52	152.00	149.89	149.00	148.81	148.75	148.70	148.75	
26	148.72	149.44	149.31	153.87	149.51	152.38	149.83	148.97	148.80	148.75	148.70	148.75	
27	149.73	149.33	149.31	151.11	149.65	151.23	149.76	148.95	148.80	148.77	148.70	148.73	
28	149.97	149.29	149.52	150.48	149.66	150.67	149.71	148.93	148.79	148.77	148.70	148.73	
29	149.37	149.09	149.49	150.39	149.62	150.28	149.74	148.93	148.73	148.75		148.73	
30	149.30	149.04	149.40	150.17	149.53	150.09	149.71	148.90	148.73	148.75		148.70	
31		148.95		150.10	149.75		149.70		148.70	148.75		148.70	
Mean	148.86	148.89	149.75	150.22	149.76	150.32	150.42	149.25	148.83	148.73	148.72	148.71	
Max	149.97	149.44	152.22	155.29	150.52	152.38	153.17	149.61	148.90	148.77	148.78	148.75	155.29
Min	148.70	148.73	148.80	149.21	149.49	149.51	149.70	148.90	148.70	148.70	148.70	148.68	148.68
Annual Max Momentary Gage Height	155.60		m. (MSL.) ,				at 18.00 Hours ,						on Jul 25, 2021
Zero Gage at Bottom Elevation	148.10		m. (MSL.) ,			River Bed	147.68	m. (MSL.)					
Left Bank Elevation		154.73		m. (MSL.) ,									
Right Bank Elevation		158.70		m. (MSL.) ,		Drainage Are	1,122	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	2.50	1.50	6.00	19.70	27.20	14.90	8.10	1.50	0.50	0.65	0.50	
2	0.65	1.50	1.50	5.50	13.40	15.50	14.00	8.00	1.50	0.50	0.65	0.50	
3	0.75	1.25	1.25	5.50	11.00	14.30	11.00	8.00	1.50	0.50	0.65	0.50	
4	0.75	1.10	1.00	5.00	9.00	11.00	10.00	7.50	1.50	0.50	0.50	0.50	
5	0.75	1.00	1.00	4.10	8.90	10.00	9.20	7.00	1.50	0.65	0.50	0.65	
6	0.65	1.00	1.00	4.90	8.00	8.00	10.80	7.30	1.50	0.65	0.50	0.65	
7	0.50	1.00	1.05	4.50	8.00	7.10	10.00	7.30	1.40	0.65	0.50	0.55	
8	0.65	0.75	2.00	4.60	8.00	8.70	10.00	7.00	1.25	0.50	0.50	0.50	
9	0.65	0.65	79.00	36.50	8.00	27.20	9.00	6.90	1.25	0.50	0.65	0.50	
10	0.50	0.75	105.20	46.40	8.00	30.50	9.40	6.00	1.25	0.50	0.65	0.50	
11	0.55	1.00	64.50	25.40	6.90	27.20	94.00	5.90	1.15	0.50	0.65	0.50	
12	0.90	1.65	71.00	14.60	8.80	19.10	112.40	5.00	1.15	0.50	0.65	0.50	
13	0.75	1.15	72.50	18.50	9.80	26.90	54.00	5.00	1.15	0.50	0.75	0.50	
14	0.65	1.00	35.30	38.60	26.60	29.60	38.90	4.50	1.15	0.50	0.75	0.40	
15	0.65	1.00	18.50	34.40	15.80	33.80	72.50	4.00	1.15	0.50	0.60	0.40	
16	0.55	1.00	12.80	15.80	32.60	49.40	162.90	4.00	1.15	0.65	0.65	0.40	
17	0.55	1.00	9.20	10.80	21.80	38.00	106.40	3.50	1.15	0.65	0.65	0.45	
18	1.20	0.75	9.00	7.80	9.60	23.60	69.50	3.50	1.15	0.85	0.50	0.50	
19	1.05	0.75	7.90	7.20	8.00	14.00	42.50	3.00	1.15	0.70	0.50	0.50	
20	1.20	0.75	6.10	6.00	22.70	11.00	29.60	3.00	1.10	0.75	0.50	0.55	
21	1.20	0.85	6.00	6.10	12.50	10.00	26.90	3.00	1.10	0.75	0.50	0.60	
22	1.05	0.75	6.00	7.20	8.90	18.50	25.70	3.30	1.10	0.75	0.70	0.65	
23	0.90	0.75	5.40	8.80	8.00	21.20	20.00	2.10	1.05	0.75	0.90	0.65	
24	0.75	0.80	8.00	47.30	7.30	27.20	16.40	2.00	1.05	0.75	0.85	0.75	
25	0.50	2.10	6.10	342.78	7.20	93.00	13.70	2.00	1.05	0.75	0.50	0.75	
26	0.60	6.40	5.10	217.60	7.10	114.80	11.90	1.85	1.00	0.75	0.50	0.75	
27	9.60	5.30	5.10	50.40	8.50	55.20	10.20	1.75	1.00	0.85	0.50	0.65	
28	16.10	4.90	7.20	31.40	8.60	37.10	9.20	1.65	0.95	0.85	0.50	0.65	
29	5.70	2.90	6.90	28.70	8.20	25.40	9.80	1.65	0.65	0.75		0.65	
30	5.00	2.40	6.00	22.10	7.30	19.70	9.20	1.50	0.65	0.75		0.50	
31		1.75		20.00	10.00		9.00		0.50	0.75		0.50	
Total	55.80	50.45	563.10	1084.48	358.20	854.20	1053.00	135.30	35.70	20.00	16.90	17.15	4244.28 CMSDAY
Mean	1.86	1.63	18.77	34.98	11.55	28.47	33.97	4.51	1.15	0.65	0.60	0.55	11.63 CMS
Max	16.10	6.40	105.20	342.78	32.60	114.80	162.90	8.10	1.50	0.85	0.90	0.75	342.78 CMS
Min	0.50	0.65	1.00	4.10	6.90	7.10	9.00	1.50	0.50	0.50	0.50	0.40	0.40 CMS
Runoff	4.82	4.36	48.65	93.70	30.95	73.80	90.98	11.69	3.08	1.73	1.46	1.48	366.71 MCM
Momentary Peak		370.88 CMS.											at 155.60 m. (MSL.) at 18.00 Hours , on Jul 25, 2021
Runoff Yield		10.36											Liters/Second/Square KM. Momentary Peak Yield 330.55 Liters/Second/Square KM.

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Songkhram River at Ban Khok Kham Lai, Udon Thani (Kh.93)

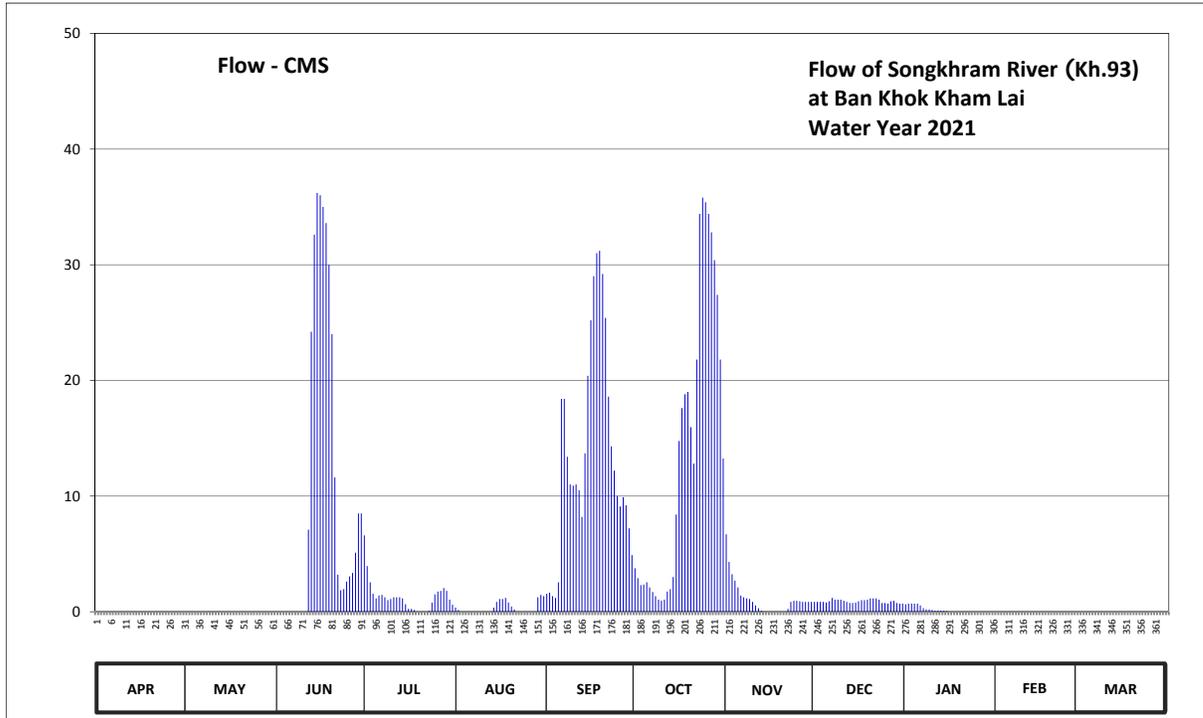
Lat 17 - 33 - 27 N Long 103 - 20 - 07 E

Location : on left bank at the bridge of Amphoe Ban Duang - Amphoe Sawang Daen Din Highway.

	<b>Ban</b>	<b>Khok Kham Lai</b>	<b>Amphoe</b>	<b>Ban Dung</b>	<b>Changwat</b>	<b>Udon Thani</b>
<b>Drainage Area</b>	752	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+153.100 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.				<b>Elevation</b>	+161.354 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1997 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1997 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1997 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. The weir situated downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	154.29	154.47	154.59	155.96	154.97	155.21	155.65	155.97	155.07	155.03	154.79	154.80	
2	154.29	154.47	154.57	155.69	154.93	155.23	155.48	155.73	155.07	155.04	154.79	154.80	
3	154.30	154.49	154.55	155.41	154.86	155.17	155.36	155.55	155.07	155.04	154.79	154.80	
4	154.30	154.49	154.55	155.21	154.83	155.14	155.37	155.44	155.07	155.04	154.79	154.80	
5	154.32	154.49	154.55	155.13	154.81	155.41	155.41	155.32	155.06	155.04	154.78	154.80	
6	154.32	154.48	154.55	155.18	154.82	156.87	155.32	155.18	155.08	155.01	154.78	154.80	
7	154.31	154.48	154.55	155.19	154.84	156.87	155.24	155.15	155.14	154.96	154.78	154.80	
8	154.31	154.48	154.58	155.15	154.82	156.56	155.17	155.13	155.11	154.94	154.78	154.79	
9	154.29	154.48	154.64	155.10	154.80	156.40	155.11	155.12	155.11	154.94	154.78	154.78	
10	154.28	154.47	154.66	155.12	154.78	156.39	155.09	155.07	155.11	154.93	154.75	154.77	
11	154.29	154.47	154.90	155.15	154.75	156.40	155.11	155.01	155.09	154.92	154.73	154.77	
12	154.30	154.47	156.01	155.15	154.80	156.35	155.25	154.96	155.07	154.92	154.73	154.75	
13	154.30	154.47	157.16	155.15	154.90	156.12	155.29	154.92	155.05	154.92	154.73	154.74	
14	154.32	154.46	157.58	155.13	154.97	156.58	155.50	154.87	155.05	154.92	154.73	154.74	
15	154.31	154.46	157.76	155.03	155.07	156.97	156.14	154.80	155.06	154.91	154.72	154.74	
16	154.31	154.46	157.75	154.95	155.12	157.21	156.65	154.80	155.08	154.88	154.70	154.74	
17	154.32	154.46	157.70	154.95	155.12	157.40	156.83	154.77	155.10	154.88	154.69	154.79	
18	154.32	154.46	157.63	154.93	155.14	157.50	156.89	154.75	155.10	154.86	154.71	154.80	
19	154.33	154.45	157.45	154.84	155.06	157.51	156.90	154.75	155.11	154.85	154.71	154.81	
20	154.33	154.45	157.15	154.83	154.99	157.41	156.73	154.72	155.13	154.85	154.71	154.80	
21	154.32	154.46	156.44	154.83	154.94	157.22	156.52	154.79	155.13	154.84	154.71	154.79	
22	154.31	154.46	155.54	154.81	154.88	156.88	157.04	154.95	155.13	154.82	154.70	154.80	
23	154.31	154.46	155.27	154.92	154.83	156.62	157.67	155.07	155.11	154.82	154.70	154.80	
24	154.31	154.48	155.29	155.06	154.79	156.48	157.74	155.09	155.05	154.81	154.70	154.83	
25	154.31	154.49	155.42	155.20	154.76	156.30	157.72	155.09	155.05	154.81	154.74	154.83	
26	154.32	154.52	155.51	155.25	154.75	156.21	157.67	155.08	155.04	154.81	154.77	154.83	
27	154.33	154.56	155.57	155.26	154.78	156.29	157.59	155.07	155.08	154.83	154.79	154.83	
28	154.35	154.60	155.81	155.31	154.89	156.22	157.47	155.07	155.09	154.83	154.79	154.85	
29	154.45	154.64	156.15	155.26	155.15	156.02	157.32	155.07	155.05	154.83		154.85	
30	154.46	154.64	156.15	155.11	155.19	155.79	157.04	155.07	155.04	154.82		154.85	
31		154.61		155.02	155.17		156.55		155.04	154.81		154.85	
Mean	154.32	154.49	155.80	155.14	154.92	156.42	156.28	155.08	155.08	154.90	154.75	154.80	
Max	154.46	154.64	157.76	155.96	155.19	157.51	157.74	155.97	155.14	155.04	154.79	154.85	157.76
Min	154.28	154.45	154.55	154.81	154.75	155.14	155.09	154.72	155.04	154.81	154.69	154.74	154.28
Annual Max Momentary Gage Height	157.79		m. (MSL.) ,			at 18.00 Hours ,							
Zero Gage at Bottom Elevation	153.10		m. (MSL.) ,			River Bed	152.32	m. (MSL.)					
Left Bank Elevation		160.74		m. (MSL.) ,									
Right Bank Elevation		157.81		m. (MSL.) ,		Drainage Are	752	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	6.60	0.35	1.55	3.75	6.70	0.85	0.65	0.00	0.00	
2	0.00	0.00	0.00	3.95	0.15	1.65	2.90	4.30	0.85	0.70	0.00	0.00	
3	0.00	0.00	0.00	2.55	0.00	1.35	2.30	3.25	0.85	0.70	0.00	0.00	
4	0.00	0.00	0.00	1.55	0.00	1.20	2.35	2.70	0.85	0.70	0.00	0.00	
5	0.00	0.00	0.00	1.15	0.00	2.55	2.55	2.10	0.80	0.70	0.00	0.00	
6	0.00	0.00	0.00	1.40	0.00	18.40	2.10	1.40	0.90	0.55	0.00	0.00	
7	0.00	0.00	0.00	1.45	0.00	18.40	1.70	1.25	1.20	0.30	0.00	0.00	
8	0.00	0.00	0.00	1.25	0.00	13.40	1.35	1.15	1.05	0.20	0.00	0.00	
9	0.00	0.00	0.00	1.00	0.00	11.00	1.05	1.10	1.05	0.20	0.00	0.00	
10	0.00	0.00	0.00	1.10	0.00	10.90	0.95	0.85	1.05	0.15	0.00	0.00	
11	0.00	0.00	0.00	1.25	0.00	11.00	1.05	0.55	0.95	0.10	0.00	0.00	
12	0.00	0.00	7.10	1.25	0.00	10.50	1.75	0.30	0.85	0.10	0.00	0.00	
13	0.00	0.00	24.20	1.25	0.00	8.20	1.95	0.10	0.75	0.10	0.00	0.00	
14	0.00	0.00	32.60	1.15	0.35	13.70	3.00	0.00	0.75	0.10	0.00	0.00	
15	0.00	0.00	36.20	0.65	0.85	20.40	8.40	0.00	0.80	0.05	0.00	0.00	
16	0.00	0.00	36.00	0.25	1.10	25.20	14.75	0.00	0.90	0.00	0.00	0.00	
17	0.00	0.00	35.00	0.25	1.10	29.00	17.60	0.00	1.00	0.00	0.00	0.00	
18	0.00	0.00	33.60	0.15	1.20	31.00	18.80	0.00	1.00	0.00	0.00	0.00	
19	0.00	0.00	30.00	0.00	0.80	31.20	19.00	0.00	1.05	0.00	0.00	0.00	
20	0.00	0.00	24.00	0.00	0.45	29.20	15.95	0.00	1.15	0.00	0.00	0.00	
21	0.00	0.00	11.60	0.00	0.20	25.40	12.80	0.00	1.15	0.00	0.00	0.00	
22	0.00	0.00	3.20	0.00	0.00	18.60	21.80	0.25	1.15	0.00	0.00	0.00	
23	0.00	0.00	1.85	0.10	0.00	14.30	34.40	0.85	1.05	0.00	0.00	0.00	
24	0.00	0.00	1.95	0.80	0.00	12.20	35.80	0.95	0.75	0.00	0.00	0.00	
25	0.00	0.00	2.60	1.50	0.00	10.00	35.40	0.95	0.75	0.00	0.00	0.00	
26	0.00	0.00	3.05	1.75	0.00	9.10	34.40	0.90	0.70	0.00	0.00	0.00	
27	0.00	0.00	3.35	1.80	0.00	9.90	32.80	0.85	0.90	0.00	0.00	0.00	
28	0.00	0.00	5.10	2.05	0.00	9.20	30.40	0.85	0.95	0.00	0.00	0.00	
29	0.00	0.00	8.50	1.80	1.25	7.20	27.40	0.85	0.75	0.00	0.00	0.00	
30	0.00	0.00	8.50	1.05	1.45	4.90	21.80	0.85	0.70	0.00	0.00	0.00	
31	0.00	0.00	0.60	1.35			13.25		0.70	0.00		0.00	
Total	0.00	0.00	308.40	39.65	10.60	410.60	423.50	33.05	28.20	5.30	0.00	0.00	1259.30 CMSDAY
Mean	0.00	0.00	10.28	1.28	0.34	13.69	13.66	1.10	0.91	0.17	0.00	0.00	3.45 CMS
Max	0.00	0.00	36.20	6.60	1.45	31.20	35.80	6.70	1.20	0.70	0.00	0.00	36.20 CMS
Min	0.00	0.00	0.00	0.00	0.00	1.20	0.95	0.00	0.70	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	26.65	3.43	0.92	35.48	36.59	2.86	2.44	0.46	0.00	0.00	108.80 MCM
Momentary Peak	36.80	CMS.	at 157.79 m. (MSL.)	at 18.00 Hours	, on Jun 15, 2021								
Runoff Yield	4.59	Liters/Second/Square KM.		Momentary Peak Yield	48.94	Liters/Second/Square KM.							

## WATER YEAR : 2021

## KHONG RIVER BASIN

Nam San at Ban Kaeng Hai , Loei (Kh.95)

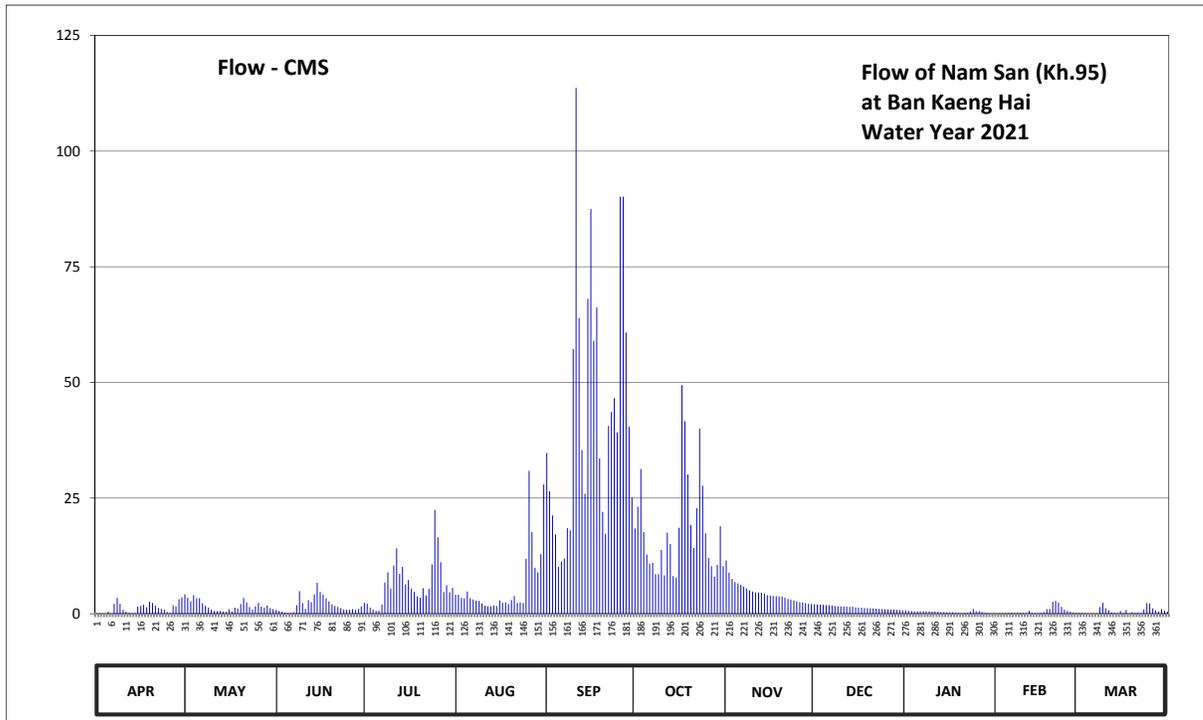
Lat 17 - 26 - 26 N Long 101 - 19 - 37 E

Location : on left bank at the bridge of Amphoe Phu Rua - Amphoe Dan Sai Highway.

	<b>Ban</b>	<b>Kaeng Hai</b>	<b>Amphoe</b>	<b>Phu Rua</b>	<b>Changwat</b>	<b>Loei</b>
<b>Drainage Area</b>	353	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+593.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank upstream side at the footpath of the bridge.				<b>Elevation</b>	+605.713 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1999 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	595.68	597.05	596.16	596.57	597.02	600.85	599.45	598.49	596.48	596.15	595.92	595.98	
2	595.68	596.86	596.11	596.53	597.03	600.26	600.01	598.12	596.47	596.12	595.94	596.00	
3	595.68	596.64	596.06	596.30	596.85	599.79	600.62	597.88	596.46	596.10	595.94	595.95	
4	595.75	597.00	596.01	596.19	596.82	599.28	599.35	597.71	596.45	596.09	595.96	595.92	
5	596.06	596.82	595.99	596.12	597.20	598.30	598.67	597.64	596.44	596.09	595.98	595.90	
6	595.92	596.83	595.99	596.13	596.83	598.46	598.39	597.56	596.44	596.09	596.00	595.88	
7	596.51	596.54	596.03	596.47	596.76	598.55	598.42	597.46	596.42	596.09	595.99	595.92	
8	596.85	596.40	596.44	597.69	596.70	599.46	598.08	597.37	596.39	596.08	595.98	596.33	
9	596.52	596.30	597.22	598.13	596.68	599.40	598.08	597.26	596.37	596.08	595.98	596.58	
10	596.17	596.17	596.55	597.37	596.53	601.84	598.81	597.20	596.36	596.07	595.98	596.26	
11	596.07	596.10	596.23	598.34	596.40	603.31	598.04	597.16	596.36	596.07	595.97	596.15	
12	595.99	596.10	596.73	598.86	596.37	602.05	599.33	597.15	596.35	596.06	596.11	596.03	
13	595.93	596.10	596.61	598.09	596.37	600.89	598.99	597.13	596.34	596.04	595.99	595.99	
14	595.96	596.07	597.05	598.30	596.41	600.22	598.02	597.08	596.35	596.04	595.96	595.93	
15	596.35	596.05	597.67	597.58	596.38	602.16	597.95	597.00	596.30	596.03	595.95	596.10	
16	596.39	596.20	597.18	597.82	596.71	602.67	599.47	596.98	596.29	596.03	595.98	595.98	
17	596.45	596.07	597.03	597.35	596.57	601.90	601.58	596.96	596.29	596.03	596.04	596.16	
18	596.32	596.29	596.82	597.18	596.59	602.11	601.23	596.95	596.27	596.00	596.21	595.90	
19	596.62	596.24	596.65	596.94	596.49	600.77	600.53	596.93	596.26	595.98	596.22	596.03	
20	596.55	596.50	596.48	596.86	596.73	599.88	599.54	596.91	596.25	595.97	596.62	595.98	
21	596.41	596.84	596.39	597.38	596.95	599.30	598.87	596.86	596.25	595.96	596.68	596.00	
22	596.27	596.59	596.34	596.99	596.56	601.18	599.98	596.79	596.24	595.99	596.57	595.96	
23	596.22	596.33	596.26	597.35	596.59	601.33	601.15	596.75	596.22	596.07	596.34	596.19	
24	596.18	596.19	596.19	598.37	596.56	601.48	600.35	596.71	596.21	596.21	596.17	596.55	
25	596.05	596.37	596.17	599.93	598.54	601.11	599.31	596.65	596.20	596.09	596.11	596.53	
26	596.00	596.57	596.17	599.19	600.59	602.74	598.57	596.61	596.19	596.10	596.06	596.25	
27	596.43	596.35	596.21	598.44	599.35	602.74	598.32	596.59	596.18	596.05	596.00	596.13	
28	596.37	596.29	596.16	597.17	598.27	601.96	598.00	596.55	596.18	596.00	596.00	596.07	
29	596.77	596.41	596.22	597.54	598.13	601.17	598.36	596.52	596.17	595.97		596.21	
30	596.87	596.27	596.36	597.16	598.68	600.16	599.51	596.50	596.16	595.89		596.12	
31		596.21		597.40	600.37		598.32		596.15	595.93		596.06	
Mean	596.23	596.41	596.45	597.48	597.23	600.84	599.20	597.12	596.31	596.05	596.09	596.10	
Max	596.87	597.05	597.67	599.93	600.59	603.31	601.58	598.49	596.48	596.21	596.68	596.58	603.31
Min	595.68	596.05	595.99	596.12	596.37	598.30	597.95	596.50	596.15	595.89	595.92	595.88	595.68
Annual Max Momentary Gage Height	603.50		m. (MSL.) ,			at 06.00 Hours ,	on Sep 11, 2021						
Zero Gage at Bottom Elevation	593.90		m. (MSL.) ,			River Bed	595.17	m. (MSL.)					
Left Bank Elevation	605.19		m. (MSL.) ,										
Right Bank Elevation	604.68		m. (MSL.) ,			Drainage Are	353	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	4.20	0.81	2.37	4.08	34.75	18.42	11.50	2.02	0.77	0.04	0.16	
2	0.00	3.47	0.62	2.21	4.12	26.47	23.13	8.86	1.99	0.66	0.08	0.20	
3	0.00	2.63	0.43	1.34	3.43	21.25	31.30	7.52	1.95	0.58	0.08	0.10	
4	0.00	4.00	0.24	0.92	3.32	17.14	17.64	6.84	1.91	0.54	0.12	0.04	
5	0.43	3.32	0.18	0.66	4.80	10.14	12.79	6.56	1.87	0.54	0.16	0.00	
6	0.04	3.35	0.18	0.69	3.35	11.29	10.79	6.24	1.87	0.54	0.20	0.00	
7	2.14	2.25	0.31	1.99	3.09	11.93	11.00	5.84	1.80	0.54	0.18	0.04	
8	3.43	1.72	1.87	6.76	2.86	18.50	8.57	5.48	1.68	0.50	0.16	1.45	
9	2.18	1.34	4.88	8.93	2.78	18.00	8.57	5.04	1.61	0.50	0.16	2.40	
10	0.85	0.85	2.29	5.48	2.21	57.20	13.79	4.80	1.57	0.47	0.16	1.19	
11	0.47	0.58	1.07	10.43	1.72	113.64	8.29	4.64	1.57	0.47	0.14	0.77	
12	0.18	0.58	2.97	14.14	1.61	63.90	17.50	4.60	1.53	0.43	0.62	0.31	
13	0.06	0.58	2.52	8.64	1.61	35.35	15.07	4.52	1.49	0.35	0.18	0.18	
14	0.12	0.47	4.20	10.14	1.76	25.93	8.14	4.32	1.53	0.35	0.12	0.06	
15	1.53	0.39	6.68	6.32	1.64	68.08	7.80	4.00	1.34	0.31	0.10	0.58	
16	1.68	0.96	4.72	7.28	2.90	87.46	18.58	3.92	1.30	0.31	0.16	0.16	
17	1.91	0.47	4.12	5.40	2.37	59.00	49.40	3.85	1.30	0.31	0.35	0.81	
18	1.42	1.30	3.32	4.72	2.44	66.18	41.60	3.81	1.23	0.20	1.00	0.00	
19	2.56	1.11	2.67	3.77	2.06	33.55	30.07	3.73	1.19	0.16	1.04	0.31	
20	2.29	2.10	2.02	3.47	2.97	22.00	19.17	3.66	1.15	0.14	2.56	0.16	
21	1.76	3.39	1.68	5.52	3.81	17.29	14.21	3.47	1.15	0.12	2.78	0.20	
22	1.23	2.44	1.49	3.96	2.33	40.60	22.83	3.20	1.11	0.18	2.37	0.12	
23	1.04	1.45	1.19	5.40	2.44	43.60	40.00	3.05	1.04	0.47	1.49	0.92	
24	0.88	0.92	0.92	10.64	2.33	46.60	27.67	2.90	1.00	1.00	0.85	2.29	
25	0.39	1.61	0.85	22.42	11.86	39.20	17.36	2.67	0.96	0.54	0.62	2.21	
26	0.20	2.37	0.85	16.50	30.87	90.12	12.07	2.52	0.92	0.58	0.43	1.15	
27	1.83	1.53	1.00	11.14	17.64	90.12	10.29	2.44	0.88	0.39	0.20	0.69	
28	1.61	1.30	0.81	4.68	9.93	60.80	8.00	2.29	0.88	0.20	0.20	0.47	
29	3.13	1.76	1.04	6.16	8.93	40.40	10.57	2.18	0.85	0.14		1.00	
30	3.51	1.23	1.57	4.64	12.86	25.13	18.92	2.10	0.81	0.00		0.66	
31		1.00		5.60	27.93		10.29		0.77	0.06		0.43	
<b>Total</b>	36.87	54.67	57.50	202.32	186.05	1295.62	563.83	136.55	42.27	12.35	16.55	19.06	2623.64 CMSDAY
<b>Mean</b>	1.23	1.76	1.92	6.53	6.00	43.19	18.19	4.55	1.36	0.40	0.59	0.61	7.19 CMS
<b>Max</b>	3.51	4.20	6.68	22.42	30.87	113.64	49.40	11.50	2.02	1.00	2.78	2.40	113.64 CMS
<b>Min</b>	0.00	0.39	0.18	0.66	1.61	10.14	7.80	2.10	0.77	0.00	0.04	0.00	0.00 CMS
<b>Runoff</b>	3.19	4.72	4.97	17.48	16.07	111.94	48.71	11.80	3.65	1.07	1.43	1.65	226.68 MCM
<b>Momentary Peak</b>	122.00 CMS. at 603.50 m. (MSL.) at 06.00 Hours , on Sep 11, 2021												
<b>Runoff Yield</b>	20.36 Liters/Second/Square KM.			Momentary Peak Yield			345.61 Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Songkhram River at Ban Tha Kok Daeng , Bueng Kan (Kh.98)

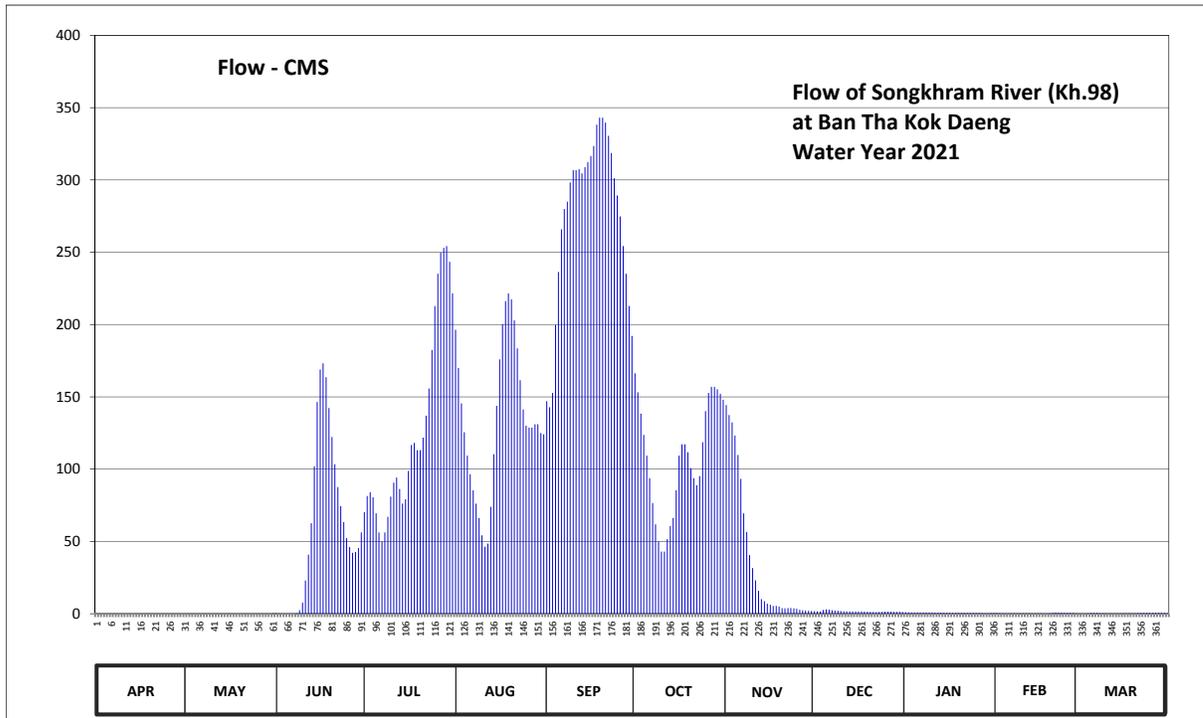
Lat 17 - 51 - 56 N Long 103 - 46 - 28 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Tha Kok Daeng</b>	<b>Amphoe</b>	<b>Se Ka</b>	<b>Changwat</b>	<b>Bueng Kan</b>
<b>Drainage Area</b>	4,428	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+136.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+153.927 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1998 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.16	137.29	137.46	140.95	143.56	142.63	143.00	142.58	137.65	137.56	137.48	137.42	
2	137.16	137.29	137.41	141.21	143.07	142.55	142.75	142.44	137.64	137.54	137.46	137.41	
3	137.16	137.32	137.39	141.27	142.60	142.74	142.46	142.33	137.62	137.53	137.45	137.41	
4	137.16	137.32	137.35	141.19	142.18	143.62	142.14	142.13	137.78	137.53	137.44	137.43	
5	137.15	137.34	137.32	140.93	141.83	144.24	141.83	141.84	137.83	137.53	137.43	137.47	
6	137.15	137.38	137.32	140.60	141.55	144.70	141.49	141.48	137.80	137.53	137.45	137.47	
7	137.15	137.37	137.32	140.42	141.30	144.92	141.10	140.93	137.75	137.53	137.45	137.47	
8	137.14	137.33	137.44	140.60	141.09	145.00	140.74	140.61	137.72	137.52	137.44	137.45	
9	137.14	137.33	137.75	140.87	140.85	145.19	140.42	140.08	137.69	137.52	137.44	137.45	
10	137.15	137.32	138.29	141.20	140.55	145.31	140.17	139.65	137.66	137.52	137.44	137.44	
11	137.16	137.30	139.24	141.42	140.29	145.31	140.17	139.25	137.64	137.51	137.44	137.43	
12	137.16	137.28	140.09	141.50	140.37	145.32	140.48	138.90	137.64	137.51	137.44	137.43	
13	137.16	137.28	140.76	141.32	141.04	145.28	140.71	138.49	137.64	137.51	137.43	137.43	
14	137.16	137.26	141.67	141.09	141.85	145.34	140.85	138.37	137.64	137.51	137.43	137.43	
15	137.17	137.22	142.62	141.16	142.57	145.39	141.30	138.23	137.63	137.50	137.43	137.43	
16	137.17	137.22	143.05	141.60	143.18	145.45	141.83	138.16	137.63	137.50	137.43	137.45	
17	137.17	137.21	143.13	141.99	143.63	145.55	142.00	138.10	137.63	137.50	137.42	137.45	
18	137.17	137.21	142.95	142.02	143.92	145.76	142.00	138.10	137.62	137.50	137.42	137.45	
19	137.17	137.21	142.54	141.91	144.01	145.83	141.88	138.07	137.60	137.50	137.45	137.45	
20	137.17	137.20	142.11	141.91	143.94	145.83	141.64	137.95	137.59	137.50	137.49	137.45	
21	137.16	137.18	141.70	142.10	143.68	145.78	141.49	137.93	137.57	137.49	137.52	137.48	
22	137.15	137.17	141.35	142.43	143.32	145.65	141.38	137.97	137.56	137.48	137.51	137.48	
23	137.15	137.17	141.05	142.80	142.91	145.48	141.52	137.97	137.57	137.48	137.51	137.48	
24	137.16	137.20	140.78	143.30	142.52	145.23	142.03	137.94	137.58	137.48	137.50	137.50	
25	137.17	137.23	140.50	143.86	142.28	145.06	142.50	137.88	137.60	137.47	137.49	137.50	
26	137.17	137.30	140.28	144.22	142.25	144.84	142.74	137.79	137.60	137.47	137.49	137.49	
27	137.17	137.29	140.14	144.45	142.25	144.52	142.82	137.74	137.60	137.46	137.47	137.49	
28	137.18	137.28	140.16	144.50	142.30	144.22	142.82	137.71	137.59	137.45	137.43	137.50	
29	137.25	137.31	140.26	144.52	142.30	143.86	142.79	137.69	137.58	137.45	137.47	137.49	
30	137.25	137.38	140.60	144.35	142.17	143.48	142.73	137.67	137.58	137.48	137.48	137.47	
31		137.44		144.01	142.15		142.65		137.57	137.50		137.45	
Mean	137.17	137.28	140.00	142.12	142.31	144.80	141.76	139.20	137.64	137.50	137.46	137.46	
Max	137.25	137.44	143.13	144.52	144.01	145.83	143.00	142.58	137.83	137.56	137.52	137.50	145.83
Min	137.14	137.17	137.32	140.42	140.29	142.55	140.17	137.67	137.56	137.45	137.42	137.41	137.14
Annual Max Momentary Gage Height	145.84		m. (MSL.) ,				at 19.00 Hours ,						
Zero Gage at Bottom Elevation	136.00		m. (MSL.) ,			River Bed	136.40		m. (MSL.)				
Left Bank Elevation		152.68		m. (MSL.) ,									
Right Bank Elevation		152.90		m. (MSL.) ,		Drainage Are	4,428		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.42	70.20	196.44	146.96	166.20	144.36	1.75	1.12	0.56	0.14	
2	0.00	0.00	0.07	81.44	169.98	142.80	153.20	137.44	1.68	0.98	0.42	0.07	
3	0.00	0.00	0.00	84.08	145.40	152.68	138.36	132.38	1.54	0.91	0.35	0.07	
4	0.00	0.00	0.00	80.56	125.48	199.68	123.64	123.18	2.66	0.91	0.28	0.21	
5	0.00	0.00	0.00	69.40	109.38	236.36	109.38	109.84	3.01	0.91	0.21	0.49	
6	0.00	0.00	0.00	56.20	96.50	265.80	93.76	93.32	2.80	0.91	0.35	0.49	
7	0.00	0.00	0.00	49.96	85.40	279.88	76.60	69.40	2.45	0.91	0.35	0.49	
8	0.00	0.00	0.28	56.20	76.16	285.00	61.80	56.60	2.24	0.84	0.28	0.35	
9	0.00	0.00	2.45	67.00	66.20	298.30	49.96	40.58	2.03	0.84	0.28	0.35	
10	0.00	0.00	7.68	81.00	54.20	306.70	42.96	31.55	1.82	0.84	0.28	0.28	
11	0.00	0.00	22.94	90.68	46.32	306.70	42.96	23.15	1.68	0.77	0.28	0.21	
12	0.00	0.00	40.79	94.20	48.56	307.40	51.64	15.80	1.68	0.77	0.28	0.21	
13	0.00	0.00	62.60	86.28	73.96	304.60	60.60	10.08	1.68	0.77	0.21	0.21	
14	0.00	0.00	102.02	76.16	110.30	308.80	66.20	8.64	1.68	0.77	0.21	0.21	
15	0.00	0.00	146.44	79.24	143.84	312.30	85.40	6.96	1.61	0.70	0.21	0.21	
16	0.00	0.00	168.90	98.80	175.92	316.50	109.38	6.12	1.61	0.70	0.21	0.35	
17	0.00	0.00	173.22	116.74	200.22	323.50	117.20	5.40	1.61	0.70	0.14	0.35	
18	0.00	0.00	163.60	118.12	216.20	338.20	117.20	5.40	1.54	0.70	0.14	0.35	
19	0.00	0.00	142.28	113.06	221.64	343.10	111.68	5.04	1.40	0.70	0.35	0.35	
20	0.00	0.00	122.26	113.06	217.40	343.10	100.64	3.85	1.33	0.70	0.63	0.35	
21	0.00	0.00	103.40	121.80	202.92	339.60	93.76	3.71	1.19	0.63	0.84	0.56	
22	0.00	0.00	87.60	136.98	183.48	330.50	88.92	3.99	1.12	0.56	0.77	0.56	
23	0.00	0.00	74.40	155.80	161.52	318.60	95.12	3.99	1.19	0.56	0.77	0.56	
24	0.00	0.00	63.40	182.40	141.24	301.10	118.58	3.78	1.26	0.56	0.70	0.70	
25	0.00	0.00	52.20	212.76	130.08	289.20	140.20	3.36	1.40	0.49	0.63	0.70	
26	0.00	0.00	46.04	235.08	128.70	274.76	152.68	2.73	1.40	0.49	0.63	0.63	
27	0.00	0.00	42.12	249.80	128.70	254.28	156.84	2.38	1.40	0.42	0.49	0.63	
28	0.00	0.00	42.68	253.00	131.00	235.08	156.84	2.17	1.33	0.35	0.21	0.70	
29	0.00	0.00	45.48	254.28	131.00	212.76	155.28	2.03	1.26	0.35		0.63	
30	0.00	0.00	56.20	243.40	125.02	192.12	152.16	1.89	1.26	0.56		0.49	
31		0.28		221.64	124.10		148.00		1.19	0.70		0.35	
<b>Total</b>	0.00	0.28	1769.47	3949.32	4167.26	8266.36	3337.14	1059.12	51.80	22.12	11.06	12.25	22646.18 CMSDAY
<b>Mean</b>	0.00	0.01	58.98	127.40	134.43	275.55	107.65	35.30	1.67	0.71	0.40	0.40	62.04 CMS
<b>Max</b>	0.00	0.28	173.22	254.28	221.64	343.10	166.20	144.36	3.01	1.12	0.84	0.70	343.10 CMS
<b>Min</b>	0.00	0.00	0.00	49.96	46.32	142.80	42.96	1.89	1.12	0.35	0.14	0.07	0.00 CMS
<b>Runoff</b>	0.00	0.02	152.88	341.22	360.05	714.21	288.33	91.51	4.48	1.91	0.96	1.06	1956.63 MCM
<b>Momentary Peak</b>	343.80	CMS.	at 145.84 m. (MSL.) at 19.00 Hours , on Sep 19, 2021										
<b>Runoff Yield</b>	14.01	Liters/Second/Square KM.	Momentary Peak Yield 77.64 Liters/Second/Square KM.										

## WATER YEAR : 2021

## KHONG RIVER BASIN

Huai Bang Sai at Ban Kaeng Nang , Mukdahan (Kh.99A)

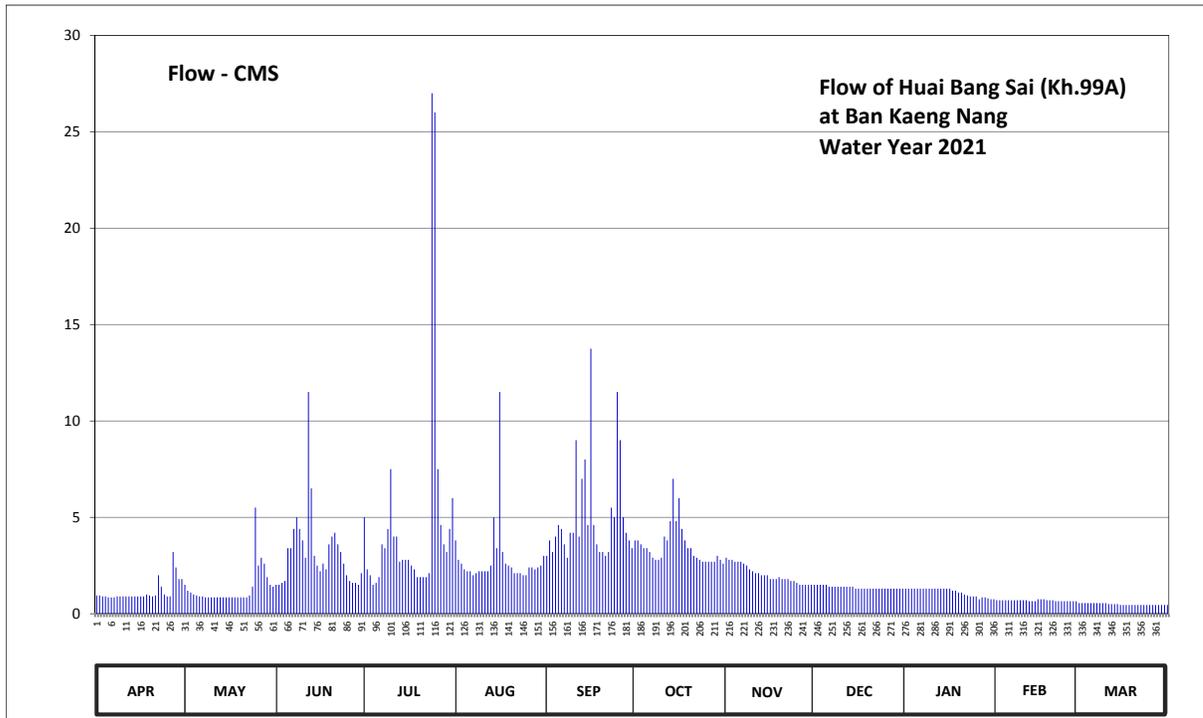
Lat 16 - 42 - 18 N Long 104 - 14 - 26 E

Location : on right bank at Ban Kaeng Nang

	<b>Ban</b> Kaeng Nang	<b>Amphoe</b> Dong Luang	<b>Changwat</b> Mukdahan
<b>Drainage Area</b>	116 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+254.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +259.628 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	256.59	256.65	256.65	256.90	256.84	256.80	256.84	256.79	256.65	256.63	256.54	256.51	
2	256.59	256.62	256.65	256.73	256.78	256.84	256.84	256.78	256.65	256.63	256.54	256.51	
3	256.58	256.61	256.66	256.70	256.76	256.81	256.83	256.78	256.65	256.63	256.54	256.51	
4	256.58	256.60	256.67	256.65	256.73	256.85	256.82	256.77	256.65	256.63	256.54	256.51	
5	256.57	256.59	256.82	256.66	256.72	256.88	256.82	256.77	256.65	256.63	256.54	256.51	
6	256.57	256.58	256.82	256.69	256.72	256.87	256.81	256.77	256.64	256.63	256.54	256.51	
7	256.57	256.58	256.87	256.83	256.70	256.83	256.79	256.76	256.64	256.63	256.54	256.51	
8	256.58	256.57	256.90	256.82	256.71	256.79	256.78	256.75	256.64	256.63	256.54	256.51	
9	256.58	256.57	256.87	256.87	256.72	256.86	256.78	256.73	256.64	256.63	256.54	256.51	
10	256.58	256.57	256.84	256.95	256.72	256.86	256.79	256.72	256.64	256.63	256.54	256.51	
11	256.58	256.57	256.79	256.85	256.72	256.98	256.85	256.71	256.64	256.63	256.54	256.50	
12	256.58	256.57	257.02	256.85	256.72	256.85	256.84	256.71	256.64	256.63	256.53	256.50	
13	256.58	256.57	256.93	256.77	256.75	256.94	256.89	256.70	256.64	256.63	256.53	256.50	
14	256.58	256.57	256.80	256.78	256.90	256.96	256.94	256.70	256.64	256.63	256.53	256.50	
15	256.58	256.57	256.75	256.78	256.82	256.88	256.89	256.70	256.63	256.63	256.55	256.49	
16	256.58	256.57	256.72	256.78	257.02	257.05	256.92	256.68	256.63	256.63	256.55	256.49	
17	256.58	256.57	256.76	256.75	256.81	256.88	256.87	256.68	256.63	256.62	256.55	256.49	
18	256.60	256.57	256.73	256.73	256.76	256.83	256.84	256.68	256.63	256.62	256.54	256.49	
19	256.59	256.57	256.83	256.69	256.75	256.81	256.82	256.69	256.63	256.61	256.54	256.49	
20	256.58	256.57	256.85	256.69	256.74	256.81	256.82	256.68	256.63	256.61	256.54	256.49	
21	256.59	256.57	256.86	256.69	256.71	256.80	256.80	256.68	256.63	256.60	256.53	256.49	
22	256.70	256.57	256.83	256.69	256.71	256.81	256.79	256.68	256.63	256.59	256.53	256.49	
23	256.64	256.59	256.81	256.71	256.71	256.91	256.78	256.67	256.63	256.58	256.53	256.49	
24	256.60	256.64	256.76	257.22	256.70	256.90	256.77	256.67	256.63	256.58	256.53	256.49	
25	256.58	256.91	256.70	257.21	256.70	257.02	256.77	256.66	256.63	256.58	256.53	256.49	
26	256.58	256.75	256.67	256.95	256.74	256.98	256.77	256.65	256.63	256.55	256.53	256.49	
27	256.81	256.79	256.66	256.88	256.74	256.90	256.77	256.65	256.63	256.57	256.53	256.49	
28	256.74	256.76	256.66	256.83	256.73	256.86	256.77	256.65	256.63	256.57	256.53	256.49	
29	256.68	256.69	256.65	256.81	256.74	256.84	256.80	256.65	256.63	256.56	256.53	256.49	
30	256.68	256.65	256.71	256.87	256.75	256.82	256.78	256.65	256.63	256.55	256.53	256.49	
31		256.64		256.92	256.80		256.76		256.63	256.55		256.49	
Mean	256.61	256.62	256.77	256.81	256.76	256.87	256.82	256.71	256.64	256.61	256.54	256.50	
Max	256.81	256.91	257.02	257.22	257.02	257.05	256.94	256.79	256.65	256.63	256.55	256.51	257.22
Min	256.57	256.57	256.65	256.65	256.70	256.79	256.76	256.65	256.63	256.55	256.53	256.49	256.49
Annual Max Momentary Gage Height	257.50		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	254.30		m. (MSL.) ,			River Bed	255.19	m. (MSL.)					
Left Bank Elevation		261.85		m. (MSL.) ,									
Right Bank Elevation		259.973		m. (MSL.) ,		Drainage Are	116	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.95	1.50	1.50	5.00	3.80	3.00	3.80	2.90	1.50	1.30	0.70	0.55	
2	0.95	1.20	1.50	2.30	2.80	3.80	3.80	2.80	1.50	1.30	0.70	0.55	
3	0.90	1.10	1.60	2.00	2.60	3.20	3.60	2.80	1.50	1.30	0.70	0.55	
4	0.90	1.00	1.70	1.50	2.30	4.00	3.40	2.70	1.50	1.30	0.70	0.55	
5	0.85	0.95	3.40	1.60	2.20	4.60	3.40	2.70	1.50	1.30	0.70	0.55	
6	0.85	0.90	3.40	1.90	2.20	4.40	3.20	2.70	1.40	1.30	0.70	0.55	
7	0.85	0.90	4.40	3.60	2.00	3.60	2.90	2.60	1.40	1.30	0.70	0.55	
8	0.90	0.85	5.00	3.40	2.10	2.90	2.80	2.50	1.40	1.30	0.70	0.55	
9	0.90	0.85	4.40	4.40	2.20	4.20	2.80	2.30	1.40	1.30	0.70	0.55	
10	0.90	0.85	3.80	7.50	2.20	4.20	2.90	2.20	1.40	1.30	0.70	0.55	
11	0.90	0.85	2.90	4.00	2.20	9.00	4.00	2.10	1.40	1.30	0.70	0.50	
12	0.90	0.85	11.50	4.00	2.20	4.00	3.80	2.10	1.40	1.30	0.65	0.50	
13	0.90	0.85	6.50	2.70	2.50	7.00	4.80	2.00	1.40	1.30	0.65	0.50	
14	0.90	0.85	3.00	2.80	5.00	8.00	7.00	2.00	1.40	1.30	0.65	0.50	
15	0.90	0.85	2.50	2.80	3.40	4.60	4.80	2.00	1.30	1.30	0.75	0.45	
16	0.90	0.85	2.20	2.80	11.50	13.75	6.00	1.80	1.30	1.30	0.75	0.45	
17	0.90	0.85	2.60	2.50	3.20	4.60	4.40	1.80	1.30	1.20	0.75	0.45	
18	1.00	0.85	2.30	2.30	2.60	3.60	3.80	1.80	1.30	1.20	0.70	0.45	
19	0.95	0.85	3.60	1.90	2.50	3.20	3.40	1.90	1.30	1.10	0.70	0.45	
20	0.90	0.85	4.00	1.90	2.40	3.20	3.40	1.80	1.30	1.10	0.70	0.45	
21	0.95	0.85	4.20	1.90	2.10	3.00	3.00	1.80	1.30	1.00	0.65	0.45	
22	2.00	0.85	3.60	1.90	2.10	3.20	2.90	1.80	1.30	0.95	0.65	0.45	
23	1.40	0.95	3.20	2.10	2.10	5.50	2.80	1.70	1.30	0.90	0.65	0.45	
24	1.00	1.40	2.60	27.00	2.00	5.00	2.70	1.70	1.30	0.90	0.65	0.45	
25	0.90	5.50	2.00	26.00	2.00	11.50	2.70	1.60	1.30	0.90	0.65	0.45	
26	0.90	2.50	1.70	7.50	2.40	9.00	2.70	1.50	1.30	0.75	0.65	0.45	
27	3.20	2.90	1.60	4.60	2.40	5.00	2.70	1.50	1.30	0.85	0.65	0.45	
28	2.40	2.60	1.60	3.60	2.30	4.20	2.70	1.50	1.30	0.85	0.65	0.45	
29	1.80	1.90	1.50	3.20	2.40	3.80	3.00	1.50	1.30	0.80	0.65	0.45	
30	1.80	1.50	2.10	4.40	2.50	3.40	2.80	1.50	1.30	0.75	0.65	0.45	
31		1.40		6.00	3.00		2.60		1.30	0.75		0.45	
Total	34.45	40.95	95.90	149.10	87.20	152.45	108.60	61.60	42.20	34.80	19.20	15.15	841.60 CMSDAY
Mean	1.15	1.32	3.20	4.81	2.81	5.08	3.50	2.05	1.36	1.12	0.69	0.49	2.31 CMS
Max	3.20	5.50	11.50	27.00	11.50	13.75	7.00	2.90	1.50	1.30	0.75	0.55	27.00 CMS
Min	0.85	0.85	1.50	1.50	2.00	2.90	2.60	1.50	1.30	0.75	0.65	0.45	0.45 CMS
Runoff	2.98	3.54	8.29	12.88	7.53	13.17	9.38	5.32	3.65	3.01	1.66	1.31	72.71 MCM
Momentary Peak	55.00	CMS.	CMS.	at 257.50 m. (MSL.)	at 15.00 Hours	on Jul 24, 2021							
Runoff Yield	19.88	Liters/Second/Square KM.			Momentary Peak Yield	474.14	Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

Huai Muk at Ban Kaen Tao , Mukdahan (Kh.101)

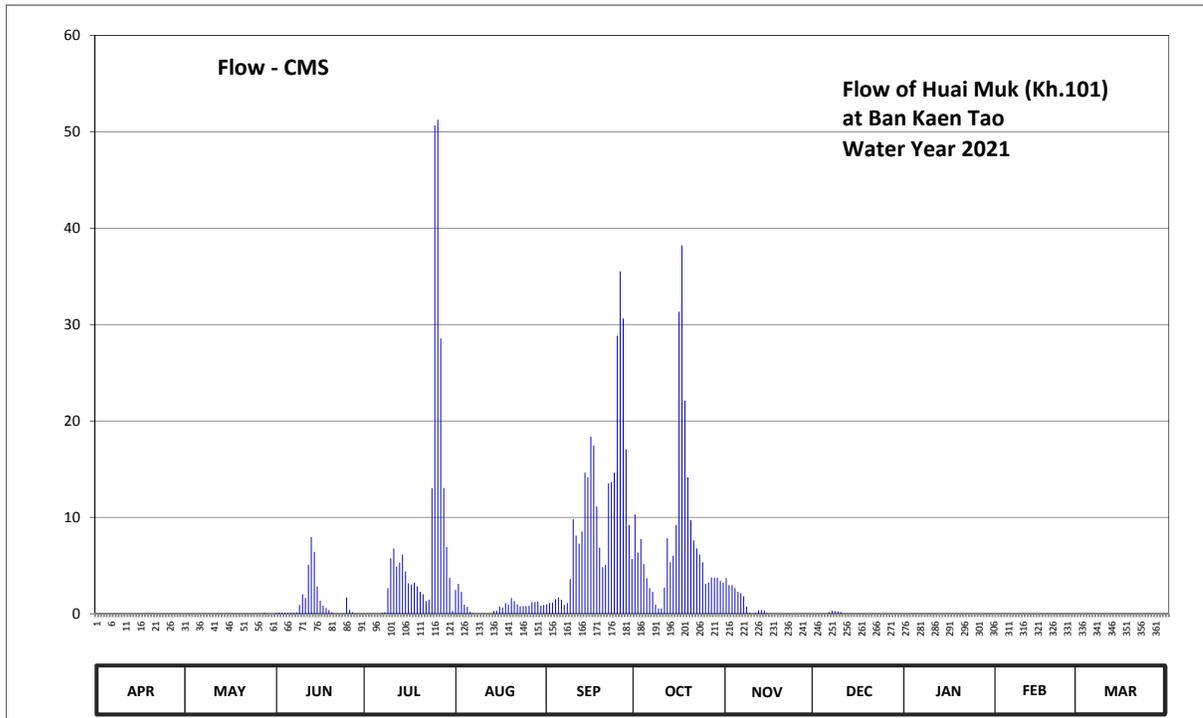
Lat 16 - 35 - 12 N Long 104 - 36 - 58 E

Location : on right bank at the bridge of Amphoe Dong Luang - Muk Dahan Highway.

	<b>Ban</b>	<b>Kaen Tao</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Mukdahan</b>
<b>Drainage Area</b>	413	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+136.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank about 1 meter from the top staff gage.				<b>Elevation</b>	+146.237 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.					
<b>Period of Available Gage Records</b>	1999 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1999 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1999 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +143.200 m.(MSL.) record are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.56	137.64	137.85	137.76	138.45	138.19	139.53	138.64	137.68	137.65	137.62	137.62	
2	137.55	137.65	137.86	137.76	138.55	138.22	139.05	138.53	137.68	137.65	137.62	137.62	
3	137.55	137.65	137.86	137.75	138.42	138.23	139.25	138.53	137.68	137.65	137.63	137.63	
4	137.55	137.65	137.86	137.75	138.18	138.30	138.87	138.48	137.68	137.64	137.63	137.63	
5	137.53	137.65	137.85	137.75	138.11	138.33	138.64	138.42	137.70	137.64	137.62	137.64	
6	137.53	137.65	137.85	137.75	137.90	138.29	138.48	138.40	137.88	137.64	137.62	137.64	
7	137.53	137.65	137.86	137.84	137.84	138.17	138.42	138.35	137.96	137.64	137.62	137.63	
8	137.52	137.65	137.87	137.88	137.77	138.22	138.18	138.12	137.94	137.65	137.62	137.64	
9	137.52	137.64	138.17	138.48	137.76	138.63	138.05	137.85	137.92	137.65	137.62	137.63	
10	137.52	137.64	138.38	138.96	137.75	139.48	138.05	137.82	137.89	137.64	137.62	137.63	
11	137.50	137.63	138.32	139.11	137.75	139.30	138.49	137.83	137.78	137.64	137.63	137.64	
12	137.52	137.62	138.86	138.83	137.75	139.18	139.26	137.99	137.70	137.64	137.63	137.63	
13	137.54	137.62	139.28	138.89	137.76	139.35	138.90	138.00	137.69	137.64	137.63	137.63	
14	137.54	137.61	139.06	139.02	137.95	139.96	139.00	137.97	137.69	137.64	137.63	137.63	
15	137.56	137.61	138.51	138.75	137.96	139.91	139.42	137.83	137.68	137.64	137.63	137.62	
16	137.56	137.61	138.27	138.56	138.11	140.33	141.60	137.79	137.68	137.63	137.62	137.61	
17	137.57	137.60	138.15	138.54	138.08	140.24	142.17	137.79	137.67	137.63	137.62	137.61	
18	137.58	137.60	138.06	138.57	138.22	139.61	140.70	137.76	137.66	137.63	137.61	137.63	
19	137.59	137.61	137.99	138.51	138.18	139.12	139.91	137.74	137.66	137.63	137.63	137.63	
20	137.60	137.61	137.88	138.42	138.32	138.82	139.47	137.73	137.66	137.63	137.64	137.63	
21	137.60	137.62	137.77	138.38	138.26	138.86	139.23	137.73	137.65	137.63	137.63	137.62	
22	137.60	137.63	137.76	138.26	138.19	139.85	139.11	137.73	137.65	137.63	137.63	137.62	
23	137.60	137.64	137.76	138.29	138.13	139.86	139.02	137.73	137.65	137.63	137.63	137.63	
24	137.59	137.66	137.81	139.80	138.13	139.96	138.90	137.72	137.65	137.63	137.65	137.63	
25	137.59	137.74	138.33	143.11	138.13	141.37	138.55	137.70	137.65	137.63	137.65	137.64	
26	137.60	137.71	138.00	143.15	138.14	141.96	138.57	137.70	137.65	137.63	137.64	137.65	
27	137.65	137.74	137.88	141.34	138.24	141.54	138.65	137.70	137.65	137.63	137.63	137.65	
28	137.66	137.86	137.81	139.80	138.24	140.20	138.65	137.70	137.65	137.62	137.63	137.65	
29	137.66	137.81	137.80	139.13	138.25	139.42	138.65	137.69	137.65	137.62	137.65	137.65	
30	137.65	137.80	137.79	138.65	138.14	138.95	138.60	137.69	137.65	137.62	137.65	137.65	
31		137.78		137.95	138.17		138.57		137.65	137.62		137.65	
Mean	137.57	137.66	138.08	138.86	138.09	139.40	139.09	137.96	137.71	137.64	137.63	137.63	
Max	137.66	137.86	139.28	143.15	138.55	141.96	142.17	138.64	137.96	137.65	137.65	137.65	143.15
Min	137.50	137.60	137.76	137.75	137.75	138.17	138.05	137.69	137.65	137.62	137.61	137.61	137.50
Annual Max Momentary Gage Height	143.46		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	136.90		m. (MSL.) ,			River Bed	136.13	m. (MSL.)					
Left Bank Elevation		145.56		m. (MSL.) ,									
Right Bank Elevation		143.19		m. (MSL.) ,		Drainage Are	413	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.10	0.00	2.46	0.97	10.31	3.68	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.12	0.00	3.10	1.10	6.35	2.97	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.12	0.00	2.27	1.15	7.75	2.97	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.12	0.00	0.94	1.50	5.15	2.65	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.10	0.00	0.73	1.69	3.68	2.27	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.10	0.00	0.20	1.45	2.65	2.14	0.16	0.00	0.00	0.00	
7	0.00	0.00	0.12	0.08	0.08	0.91	2.27	1.82	0.32	0.00	0.00	0.00	
8	0.00	0.00	0.14	0.16	0.00	1.10	0.94	0.76	0.28	0.00	0.00	0.00	
9	0.00	0.00	0.91	2.65	0.00	3.61	0.55	0.10	0.24	0.00	0.00	0.00	
10	0.00	0.00	2.01	5.74	0.00	9.81	0.55	0.04	0.18	0.00	0.00	0.00	
11	0.00	0.00	1.63	6.77	0.00	8.10	2.72	0.06	0.00	0.00	0.00	0.00	
12	0.00	0.00	5.08	4.89	0.00	7.26	7.82	0.38	0.00	0.00	0.00	0.00	
13	0.00	0.00	7.96	5.28	0.00	8.55	5.34	0.40	0.00	0.00	0.00	0.00	
14	0.00	0.00	6.42	6.14	0.30	14.64	6.00	0.34	0.00	0.00	0.00	0.00	
15	0.00	0.00	2.84	4.38	0.32	14.14	9.20	0.06	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.35	3.16	0.73	18.37	31.32	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.85	3.04	0.64	17.46	38.21	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.58	3.23	1.10	11.12	22.10	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.38	2.84	0.94	6.84	14.14	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.16	2.27	1.63	4.83	9.71	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	2.01	1.30	5.08	7.61	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	1.30	0.97	13.53	6.77	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	1.45	0.79	13.64	6.14	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.02	13.03	0.79	14.64	5.34	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	1.69	50.65	0.79	28.85	3.10	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.40	51.25	0.82	35.52	3.23	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.16	28.55	1.20	30.62	3.74	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.12	0.02	13.03	1.20	17.06	3.74	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.02	0.00	6.91	1.25	9.20	3.74	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	3.74	0.82	5.67	3.42	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.30	0.91		3.23		0.00	0.00		0.00	
<b>Total</b>	0.00	0.14	33.38	222.85	26.28	308.41	236.82	20.64	1.18	0.00	0.00	0.00	849.70 CMSDAY
<b>Mean</b>	0.00	0.00	1.11	7.19	0.85	10.28	7.64	0.69	0.04	0.00	0.00	0.00	2.33 CMS
<b>Max</b>	0.00	0.12	7.96	51.25	3.10	35.52	38.21	3.68	0.32	0.00	0.00	0.00	51.25 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.91	0.55	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.01	2.88	19.25	2.27	26.65	20.46	1.78	0.10	0.00	0.00	0.00	73.41 MCM
<b>Momentary Peak</b>	55.90	CMS.	at 143.46 m. (MSL.) at 18.00 Hours , on Jul 25, 2021										
<b>Runoff Yield</b>	5.64	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		135.35	Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Huai Luang at Ban Non Toom , Udon Thani (Kh.103)

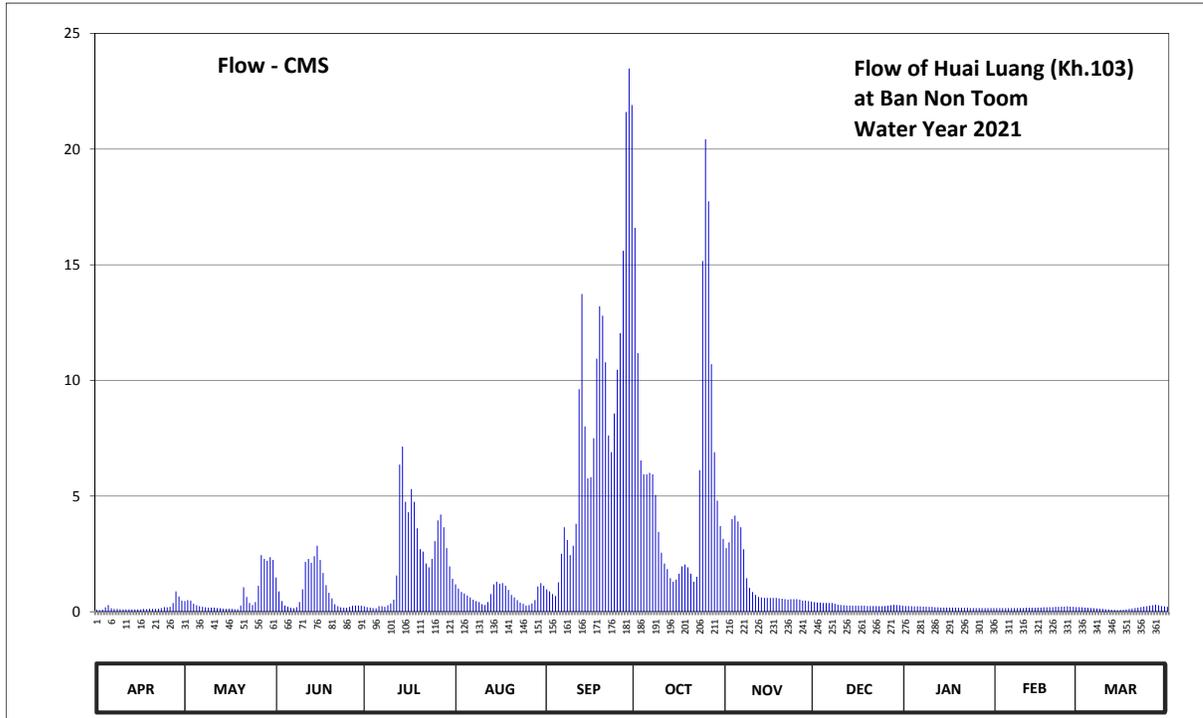
Lat 17 - 28 - 57 N Long 102 - 47 - 51 E

Location : on right bank at the bridge on highway.

	Ban Non Toom	Amphoe Mueang	Changwat Udon Thani
<b>Drainage Area</b>	1,402 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+166.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+172.486 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	166.69	166.98	167.36	166.83	167.26	167.19	169.59	167.67	166.96	166.85	166.76	166.80	
2	166.67	167.00	167.16	166.80	167.20	167.16	169.06	167.72	166.95	166.85	166.76	166.79	
3	166.69	166.99	166.98	166.78	167.15	167.12	168.39	167.92	166.95	166.84	166.76	166.78	
4	166.79	166.92	166.87	166.76	167.13	167.09	168.29	167.95	166.94	166.83	166.76	166.77	
5	166.89	166.88	166.81	166.75	167.10	167.29	168.29	167.90	166.94	166.83	166.76	166.76	
6	166.75	166.84	166.77	166.84	167.06	167.62	168.30	167.85	166.94	166.83	166.76	166.75	
7	166.72	166.81	166.75	166.84	167.01	167.85	168.29	167.66	166.94	166.82	166.76	166.74	
8	166.72	166.79	166.80	166.81	166.98	167.74	168.13	167.35	166.92	166.82	166.76	166.73	
9	166.71	166.78	166.96	166.88	166.96	167.61	167.81	167.21	166.90	166.81	166.76	166.72	
10	166.70	166.78	167.19	166.93	166.91	167.69	167.63	167.15	166.89	166.81	166.76	166.71	
11	166.70	166.78	167.54	167.01	166.89	167.88	167.52	167.11	166.88	166.79	166.77	166.70	
12	166.70	166.76	167.57	167.39	166.96	168.86	167.46	167.07	166.87	166.79	166.77	166.69	
13	166.70	166.75	167.53	168.36	167.12	169.33	167.35	167.06	166.87	166.78	166.77	166.68	
14	166.70	166.73	167.60	168.49	167.26	168.63	167.30	167.05	166.86	166.78	166.77	166.67	
15	166.70	166.72	167.69	168.07	167.30	168.26	167.33	167.05	166.86	166.78	166.78	166.68	
16	166.70	166.73	167.56	167.98	167.27	168.27	167.41	167.05	166.86	166.78	166.78	166.69	
17	166.72	166.72	167.42	168.18	167.28	168.55	167.49	167.05	166.87	166.78	166.79	166.70	
18	166.71	166.71	167.25	168.07	167.24	169.03	167.51	167.05	166.86	166.78	166.79	166.72	
19	166.73	166.71	167.14	167.84	167.18	169.28	167.48	167.04	166.85	166.77	166.80	166.74	
20	166.72	166.87	167.04	167.66	167.11	169.24	167.41	167.03	166.85	166.77	166.80	166.76	
21	166.72	167.22	166.91	167.64	167.06	169.01	167.30	167.02	166.85	166.77	166.81	166.78	
22	166.73	167.07	166.84	167.52	167.00	168.57	167.37	167.01	166.85	166.77	166.81	166.80	
23	166.76	166.94	166.79	167.48	166.95	168.45	168.32	167.02	166.84	166.76	166.82	166.82	
24	166.80	166.89	166.77	167.57	166.92	168.71	169.46	167.02	166.84	166.76	166.82	166.84	
25	166.79	166.96	166.77	167.73	166.87	168.97	169.88	167.02	166.85	166.76	166.83	166.86	
26	166.81	167.24	166.81	167.91	166.89	169.16	169.68	167.01	166.86	166.76	166.82	166.88	
27	166.94	167.61	166.86	167.96	166.93	169.50	169.00	166.99	166.88	166.76	166.81	166.90	
28	167.16	167.57	166.87	167.85	167.00	169.96	168.45	166.99	166.90	166.76	166.80	166.88	
29	167.08	167.55	166.87	167.67	167.23	170.08	168.08	166.98	166.89	166.76		166.85	
30	166.99	167.59	166.86	167.49	167.28	169.98	167.86	166.97	166.88	166.76		166.83	
31		167.56		167.34	167.24		167.75		166.86	166.76		166.81	
Mean	166.77	166.98	167.08	167.47	167.09	168.47	168.10	167.23	166.89	166.79	166.78	166.77	
Max	167.16	167.61	167.69	168.49	167.30	170.08	169.88	167.95	166.96	166.85	166.83	166.90	170.08
Min	166.67	166.71	166.75	166.75	166.87	167.09	167.30	166.97	166.84	166.76	166.76	166.67	166.67
Annual Max Momentary Gage Height	170.09		m. (MSL.) ,			at 13.00 Hours ,	on Sep 29, 2021						
Zero Gage at Bottom Elevation	166.50		m. (MSL.) ,			River Bed	166.71	m. (MSL.)					
Left Bank Elevation		172.69		m. (MSL.) ,									
Right Bank Elevation		172.21		m. (MSL.) ,		Drainage Are	1,402	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.46	1.48	0.23	1.18	0.97	16.59	2.75	0.42	0.25	0.16	0.20	
2	0.07	0.50	0.88	0.20	1.00	0.88	11.18	3.00	0.40	0.25	0.16	0.19	
3	0.09	0.48	0.46	0.18	0.85	0.76	6.54	4.00	0.40	0.24	0.16	0.18	
4	0.19	0.34	0.27	0.16	0.79	0.68	5.94	4.15	0.38	0.23	0.16	0.17	
5	0.29	0.28	0.21	0.15	0.70	1.27	5.94	3.90	0.38	0.23	0.16	0.16	
6	0.15	0.24	0.17	0.24	0.62	2.50	6.00	3.65	0.38	0.23	0.16	0.15	
7	0.12	0.21	0.15	0.24	0.52	3.65	5.94	2.70	0.38	0.22	0.16	0.14	
8	0.12	0.19	0.20	0.21	0.46	3.10	5.05	1.45	0.34	0.22	0.16	0.13	
9	0.11	0.18	0.42	0.28	0.42	2.45	3.45	1.03	0.30	0.21	0.16	0.12	
10	0.10	0.18	0.97	0.36	0.32	2.85	2.55	0.85	0.29	0.21	0.16	0.11	
11	0.10	0.18	2.16	0.52	0.29	3.80	2.08	0.73	0.28	0.19	0.17	0.10	
12	0.10	0.16	2.28	1.57	0.42	9.62	1.84	0.64	0.27	0.19	0.17	0.09	
13	0.10	0.15	2.12	6.36	0.76	13.73	1.45	0.62	0.27	0.18	0.17	0.08	
14	0.10	0.13	2.40	7.14	1.18	8.01	1.30	0.60	0.26	0.18	0.17	0.07	
15	0.10	0.12	2.85	4.75	1.30	5.76	1.39	0.60	0.26	0.18	0.18	0.08	
16	0.10	0.13	2.24	4.30	1.21	5.82	1.64	0.60	0.26	0.18	0.18	0.09	
17	0.12	0.12	1.68	5.30	1.24	7.50	1.96	0.60	0.27	0.18	0.19	0.10	
18	0.11	0.11	1.15	4.75	1.12	10.94	2.04	0.60	0.26	0.18	0.19	0.12	
19	0.13	0.11	0.82	3.60	0.94	13.20	1.92	0.58	0.25	0.17	0.20	0.14	
20	0.12	0.27	0.58	2.70	0.73	12.80	1.64	0.56	0.25	0.17	0.20	0.16	
21	0.12	1.06	0.32	2.60	0.62	10.78	1.30	0.54	0.25	0.17	0.21	0.18	
22	0.13	0.64	0.24	2.08	0.50	7.62	1.51	0.52	0.25	0.17	0.21	0.20	
23	0.16	0.38	0.19	1.92	0.40	6.90	6.12	0.54	0.24	0.16	0.22	0.22	
24	0.20	0.29	0.17	2.28	0.34	8.57	15.16	0.54	0.24	0.16	0.22	0.24	
25	0.19	0.42	0.17	3.05	0.27	10.46	20.42	0.54	0.25	0.16	0.23	0.26	
26	0.21	1.12	0.21	3.95	0.29	12.04	17.74	0.52	0.26	0.16	0.22	0.28	
27	0.38	2.45	0.26	4.20	0.36	15.60	10.70	0.48	0.28	0.16	0.21	0.30	
28	0.88	2.28	0.27	3.65	0.50	21.60	6.90	0.48	0.30	0.16	0.20	0.28	
29	0.66	2.20	0.27	2.75	1.09	23.48	4.80	0.46	0.29	0.16		0.25	
30	0.48	2.36	0.26	1.96	1.24	21.90	3.70	0.44	0.28	0.16		0.23	
31		2.24		1.42	1.12		3.15		0.26	0.16		0.21	
<b>Total</b>	5.82	19.98	25.85	73.10	22.78	249.24	177.94	38.67	9.20	5.87	5.14	5.23	638.82 CMSDAY
<b>Mean</b>	0.19	0.64	0.86	2.36	0.73	8.31	5.74	1.29	0.30	0.19	0.18	0.17	1.75 CMS
<b>Max</b>	0.88	2.45	2.85	7.14	1.30	23.48	20.42	4.15	0.42	0.25	0.23	0.30	23.48 CMS
<b>Min</b>	0.07	0.11	0.15	0.15	0.27	0.68	1.30	0.44	0.24	0.16	0.16	0.07	0.07 CMS
<b>Runoff</b>	0.50	1.73	2.23	6.32	1.97	21.53	15.37	3.34	0.79	0.51	0.44	0.45	55.19 MCM
<b>Momentary Peak</b>	23.64	CMS.	at 170.09 m. (MSL.)	at 13.00 Hours	on Sep 29, 2021								
<b>Runoff Yield</b>	1.25	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	16.86	Liters/Second/Square KM.						

**WATER YEAR : 2021****KHONG RIVER BASIN****Nam Puan at Ban Pha Noi , Loei (Kh.105)**

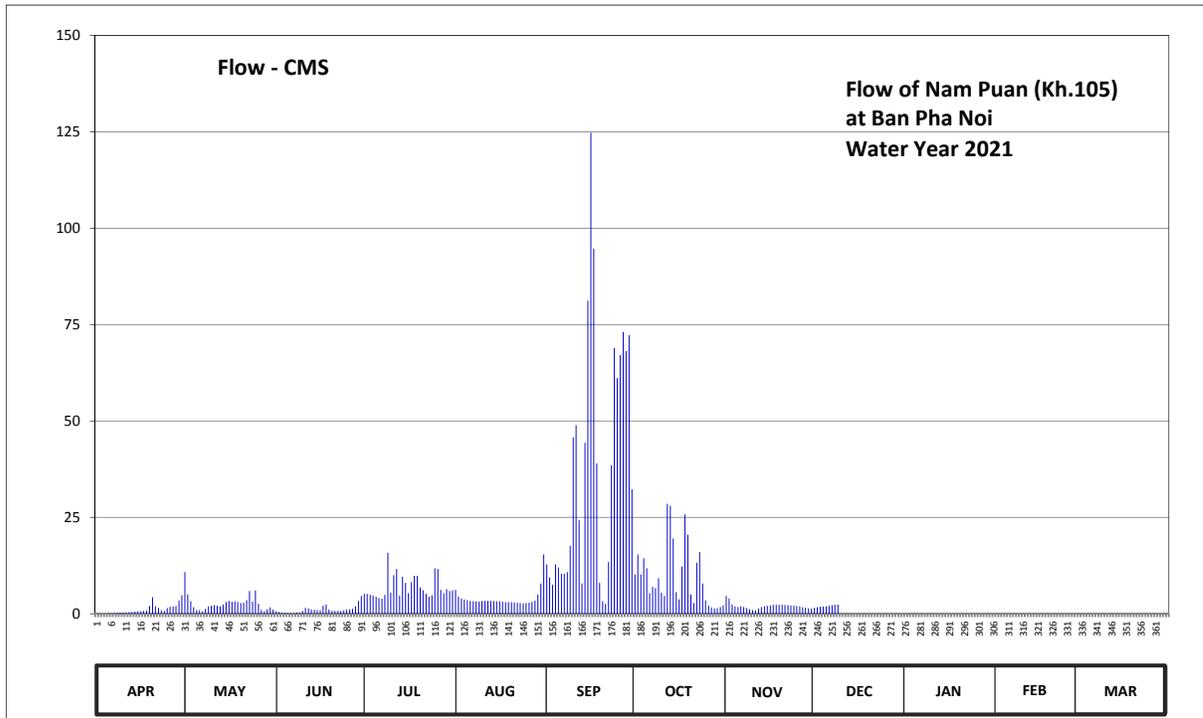
Lat 17 - 21 - 43 N Long 101 - 49 - 47 E

**Location : on right bank at the bridge on highway.**

	<b>Ban</b>	<b>Pha Noi</b>	<b>Amphoe</b>	<b>Wang Saphung</b>	<b>Changwat</b>	<b>Loei</b>
<b>Drainage Area</b>	878	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+247.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the footpath of the bridge.				<b>Elevation</b>	+258.341 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.					
<b>Period of Available Gage Records</b>	2006 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2006 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2006 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2021.					

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.57	251.64	250.11	251.31	251.38	251.74	251.61	251.26	250.50	250.38	249.91	250.58	
2	249.56	251.30	249.97	251.31	251.24	251.57	251.87	251.19	250.56	250.34	249.91	250.51	
3	249.55	251.05	249.87	251.29	251.19	251.47	251.61	250.81	250.60	250.30	249.92	250.43	
4	249.58	250.56	249.80	251.27	251.14	251.74	251.82	250.63	250.62	250.26	249.93	250.35	
5	249.73	250.27	249.78	251.24	251.10	251.70	251.69	250.57	250.64	250.23	249.94	250.27	
6	249.68	250.23	249.77	251.21	251.06	251.62	251.32	250.65	250.70	250.18	249.96	250.20	
7	249.75	250.11	249.77	251.18	251.05	251.62	251.43	250.59	250.76	250.15	249.96	250.15	
8	249.83	250.37	249.87	251.29	251.04	251.64	251.41	250.45	250.80	250.13	249.97	250.18	
9	249.85	250.63	249.88	251.89	251.03	251.98	251.56	250.34	250.82	250.11	249.98	250.32	
10	249.87	250.71	250.14	251.33	251.06	253.10	251.33	250.24	250.83	250.10	249.99	250.60	
11	249.89	250.76	250.49	251.60	251.07	253.22	251.26	250.21	250.84	250.08	249.98	250.70	
12	249.94	250.70	250.42	251.68	251.07	252.25	252.42	250.42	250.84	250.06	249.98	250.72	
13	249.98	250.63	250.33	251.27	251.07	251.49	252.40	250.57	250.81	250.04	249.98	250.70	
14	250.04	250.81	250.30	251.58	251.06	253.05	252.06	250.65	250.77	250.02	250.01	250.67	
15	250.08	251.01	250.26	251.50	251.05	254.40	251.34	250.71	250.74	250.00	250.02	250.65	
16	250.10	251.06	250.22	251.32	251.04	255.94	251.14	250.75	250.70	249.98	250.02	250.64	
17	250.14	251.02	250.71	251.51	251.03	254.88	251.71	250.78	250.68	249.96	250.06	250.70	
18	250.20	251.04	250.81	251.59	251.00	252.84	252.31	250.79	250.64	249.94	250.19	250.72	
19	250.69	251.01	250.32	251.59	251.01	251.50	252.10	250.78	250.59	249.92	250.32	250.73	
20	251.23	250.93	250.17	251.42	251.00	251.05	251.30	250.78	250.56	249.91	250.46	250.71	
21	250.65	250.95	250.15	251.37	250.98	250.87	250.93	250.77	250.54	249.90	250.66	250.69	
22	250.49	251.10	250.15	251.31	250.95	251.77	251.76	250.76	250.51	249.89	250.84	250.72	
23	250.22	251.36	250.15	251.24	250.93	252.82	251.90	250.73	250.49	249.89	250.77	250.92	
24	250.16	251.03	250.21	251.28	250.91	253.96	251.49	250.71	250.48	249.90	250.58	250.77	
25	250.46	251.37	250.29	251.69	250.93	253.67	251.09	250.68	250.47	249.91	250.56	250.61	
26	250.60	250.88	250.34	251.68	250.97	253.89	250.73	250.62	250.47	249.91	250.61	250.45	
27	250.65	250.27	250.39	251.38	251.01	254.11	250.54	250.56	250.48	249.91	250.64	250.29	
28	250.68	250.09	250.66	251.32	251.08	253.93	250.42	250.49	250.47	249.90	250.63	250.45	
29	251.09	250.34	251.07	251.39	251.30	254.08	250.45	250.43	250.46	249.91	250.58	250.58	
30	251.28	250.53	251.26	251.36	251.49	252.57	250.58	250.40	250.43	249.90	250.64	250.64	
31		250.30		251.37	251.87		250.75		250.41	249.89		250.66	
Mean	250.18	250.78	250.26	251.41	251.10	252.68	251.43	250.64	250.62	250.03	250.21	250.56	
Max	251.28	251.64	251.26	251.89	251.87	255.94	252.42	251.26	250.84	250.84	250.84	250.92	255.94
Min	249.55	250.09	249.77	251.18	250.91	250.87	250.42	250.21	250.41	249.89	249.91	250.15	249.55
Annual Max Momentary Gage Height	256.42		m. (MSL.) ,			at 16.00 Hours ,		on Sep 16, 2021					
Zero Gage at Bottom Elevation	247.50		m. (MSL.) ,			River Bed	247.43	m. (MSL.)					
Left Bank Elevation		258.30		m. (MSL.) ,									
Right Bank Elevation		258.30		m. (MSL.) ,		Drainage Are	878	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	10.80	0.67	5.15	6.20	12.80	10.20	4.60	1.55	0.00	0.00	0.00	
2	0.00	5.00	0.46	5.15	4.40	9.40	15.40	3.95	1.70	0.00	0.00	0.00	
3	0.00	3.25	0.31	4.90	3.95	7.55	10.20	2.38	1.80	0.00	0.00	0.00	
4	0.00	1.70	0.20	4.70	3.70	12.80	14.40	1.88	1.85	0.00	0.00	0.00	
5	0.13	0.99	0.18	4.40	3.50	12.00	11.80	1.73	1.90	0.00	0.00	0.00	
6	0.08	0.91	0.17	4.10	3.30	10.40	5.30	1.93	2.05	0.00	0.00	0.00	
7	0.15	0.67	0.17	3.90	3.25	10.40	6.95	1.78	2.23	0.00	0.00	0.00	
8	0.25	1.23	0.31	4.90	3.20	10.80	6.65	1.43	2.35	0.00	0.00	0.00	
9	0.28	1.88	0.32	15.80	3.15	17.60	9.20	1.15	2.41	0.00	0.00	0.00	
10	0.31	2.08	0.73	5.45	3.30	45.70	5.45	0.93	0.00	0.00	0.00	0.00	
11	0.34	2.23	1.53	10.00	3.35	48.94	4.60	0.87	0.00	0.00	0.00	0.00	
12	0.41	2.05	1.35	11.60	3.35	24.25	28.50	1.35	0.00	0.00	0.00	0.00	
13	0.47	1.88	1.13	4.70	3.35	7.85	28.00	1.73	0.00	0.00	0.00	0.00	
14	0.56	2.38	1.05	9.60	3.30	44.35	19.50	1.93	0.00	0.00	0.00	0.00	
15	0.62	3.05	0.97	8.00	3.25	81.20	5.60	2.08	0.00	0.00	0.00	0.00	
16	0.65	3.30	0.89	5.30	3.20	124.76	3.70	2.20	0.00	0.00	0.00	0.00	
17	0.73	3.10	2.08	8.20	3.15	94.64	12.20	2.29	0.00	0.00	0.00	0.00	
18	0.85	3.20	2.38	9.80	3.00	39.00	25.75	2.32	0.00	0.00	0.00	0.00	
19	2.03	3.05	1.10	9.80	3.05	8.00	20.50	2.29	0.00	0.00	0.00	0.00	
20	4.30	2.76	0.79	6.80	3.00	3.25	5.00	2.29	0.00	0.00	0.00	0.00	
21	1.93	2.83	0.75	6.05	2.93	2.56	2.76	2.26	0.00	0.00	0.00	0.00	
22	1.53	3.50	0.75	5.15	2.83	13.40	13.20	2.23	0.00	0.00	0.00	0.00	
23	0.89	5.90	0.75	4.40	2.76	38.50	16.00	2.14	0.00	0.00	0.00	0.00	
24	0.77	3.15	0.87	4.80	2.69	68.92	7.85	2.08	0.00	0.00	0.00	0.00	
25	1.45	6.05	1.03	11.80	2.76	61.09	3.45	2.00	0.00	0.00	0.00	0.00	
26	1.80	2.59	1.15	11.60	2.90	67.03	2.14	1.85	0.00	0.00	0.00	0.00	
27	1.93	0.99	1.28	6.20	3.05	73.08	1.65	1.70	0.00	0.00	0.00	0.00	
28	2.00	0.64	1.95	5.30	3.40	68.11	1.35	1.53	0.00	0.00	0.00	0.00	
29	3.45	1.15	3.35	6.35	5.00	72.24	1.43	1.38	0.00	0.00	0.00	0.00	
30	4.80	1.63	4.60	5.90	7.85	32.25	1.75	1.30	0.00	0.00	0.00	0.00	
31		1.05		6.05	15.40		2.20		0.00	0.00		0.00	
Total	32.71	84.99	33.27	215.85	121.52	1122.87	302.68	59.58	17.84	0.00	0.00	0.00	1991.31 CMSDAY
Mean	1.09	2.74	1.11	6.96	3.92	37.43	9.76	1.99	0.58	0.00	0.00	0.00	5.46 CMS
Max	4.80	10.80	4.60	15.80	15.40	124.76	28.50	4.60	2.41	0.00	0.00	0.00	124.76 CMS
Min	0.00	0.64	0.17	3.90	2.69	2.56	1.35	0.87	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.83	7.34	2.87	18.65	10.50	97.02	26.15	5.15	1.54	0.00	0.00	0.00	172.05 MCM
Momentary Peak	138.68 CMS. at 256.42 m. (MSL.) at 16.00 Hours , on Sep 16, 2021												
Runoff Yield	6.21 Liters/Second/Square KM.			Momentary Peak Yield			157.95 Liters/Second/Square KM.						

**WATER YEAR : 2021****KHONG RIVER BASIN****Nam Un at Ban Phog Yai , Sakon Nakhon (Kh.108)**

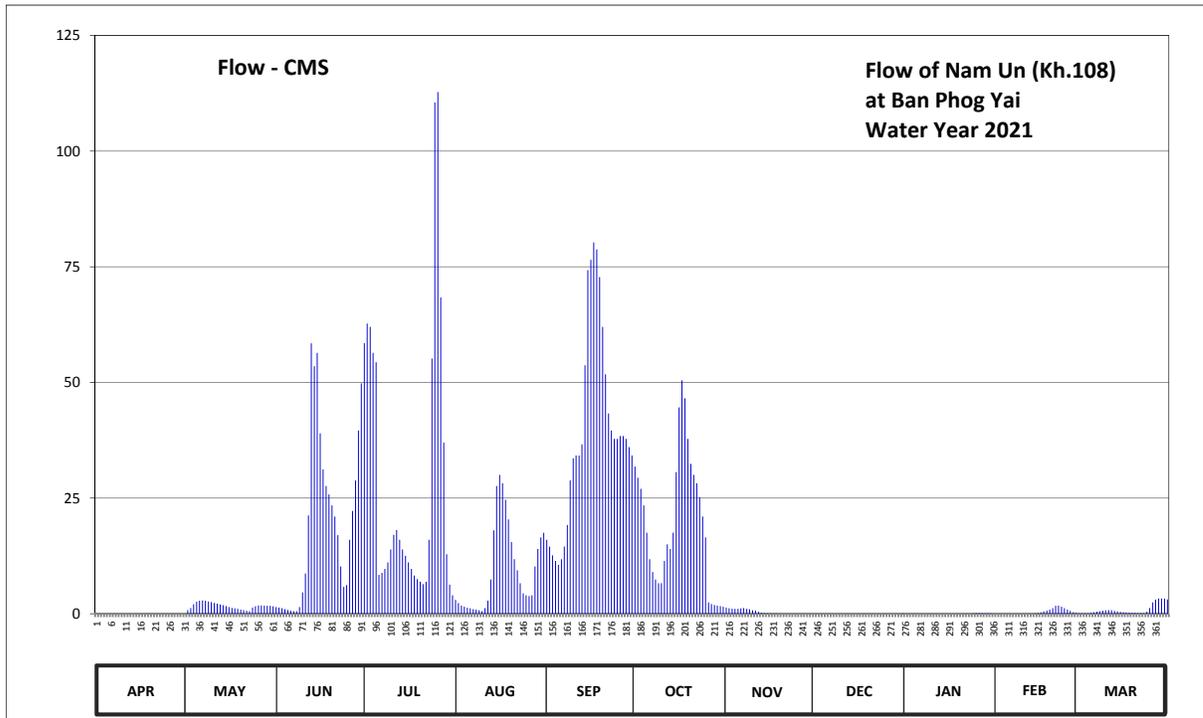
Lat 17 - 19 - 22 N Long 103 - 58 - 45 E

**Location : on right bank Ban Phog Yai.**

	<b>Ban Phog Yai</b>	<b>Amphoe Phanna Nikhom</b>	<b>Changwat Sakon Nakhon</b>
<b>Drainage Area</b>	2,169 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+150.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b>	+159.000 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.01	153.50	153.89	154.85	154.20	154.16	154.43	153.87	153.53	153.59	153.59	153.62	
2	151.01	153.76	153.87	154.91	154.06	154.13	154.39	153.84	153.52	153.58	153.58	153.62	
3	151.01	153.85	153.84	154.90	153.95	154.09	154.35	153.82	153.51	153.56	153.56	153.62	
4	151.00	154.01	153.80	154.82	153.90	154.06	154.29	153.81	153.50	153.54	153.56	153.62	
5	151.00	154.12	153.76	154.79	153.86	154.04	154.19	153.81	153.49	153.52	153.55	153.64	
6	151.00	154.16	153.73	154.76	153.83	154.07	154.07	153.83	153.49	153.52	153.55	153.66	
7	151.00	154.18	153.71	154.79	153.80	154.13	154.00	153.85	153.48	153.53	153.54	153.69	
8	150.99	154.16	153.71	154.82	153.78	154.22	153.96	153.81	153.48	153.54	153.54	153.71	
9	150.99	154.13	153.89	154.86	153.75	154.38	153.94	153.79	153.49	153.55	153.53	153.73	
10	150.99	154.10	154.41	154.94	153.71	154.46	153.94	153.75	153.49	153.57	153.53	153.75	
11	150.98	154.07	154.78	155.01	153.71	154.47	154.06	153.74	153.49	153.58	153.55	153.76	
12	150.98	154.03	155.05	155.02	153.79	154.47	154.14	153.68	153.50	153.59	153.56	153.75	
13	150.98	154.00	155.33	155.00	153.96	154.51	154.12	153.64	153.50	153.59	153.58	153.72	
14	150.98	153.97	155.30	154.94	154.20	154.78	154.19	153.63	153.51	153.58	153.61	153.70	
15	150.98	153.93	154.82	154.90	154.36	155.07	154.41	153.62	153.52	153.58	153.63	153.68	
16	150.98	153.89	154.55	154.86	154.40	155.10	154.64	153.62	153.53	153.57	153.66	153.67	
17	150.98	153.85	154.42	154.82	154.37	155.15	154.73	153.61	153.54	153.56	153.70	153.66	
18	150.98	153.83	154.36	154.75	154.31	155.13	154.67	153.61	153.56	153.55	153.74	153.65	
19	150.98	153.81	154.33	154.70	154.24	155.05	154.53	153.60	153.58	153.54	153.78	153.64	
20	150.97	153.78	154.29	154.64	154.15	154.90	154.44	153.60	153.59	153.53	153.84	153.64	
21	150.97	153.76	154.25	154.59	154.07	154.75	154.40	153.60	153.58	153.55	153.94	153.63	
22	150.97	153.73	154.18	154.64	154.01	154.62	154.37	153.60	153.57	153.56	153.95	153.63	
23	150.97	153.71	154.03	155.00	153.94	154.56	154.32	153.59	153.57	153.58	153.90	153.63	
24	150.96	153.87	153.92	155.31	153.87	154.53	154.25	153.59	153.56	153.61	153.84	153.69	
25	150.95	153.92	153.93	155.58	153.85	154.53	154.17	153.58	153.55	153.63	153.78	153.85	
26	150.96	153.96	154.16	155.59	153.84	154.54	154.09	153.57	153.55	153.63	153.72	154.09	
27	150.97	153.96	154.27	155.39	153.85	154.54	154.02	153.57	153.55	153.63	153.67	154.21	
28	150.99	153.95	154.38	155.20	154.03	154.53	153.98	153.56	153.57	153.62	153.64	154.26	
29	151.18	153.94	154.56	154.91	154.12	154.50	153.95	153.56	153.58	153.62	153.62	154.26	
30	152.84	153.94	154.72	154.58	154.17	154.47	153.93	153.54	153.60	153.61	153.61	154.25	
31		153.92		154.35	154.19		153.90		153.61	153.60		154.22	
Mean	151.05	153.93	154.27	154.91	154.01	154.53	154.22	153.68	153.54	153.57	153.66	153.78	
Max	152.84	154.18	155.33	155.59	154.40	155.15	154.73	153.87	153.61	153.63	153.95	154.26	155.59
Min	150.95	153.50	153.71	154.35	153.71	154.04	153.90	153.54	153.48	153.52	153.53	153.62	150.95
Annual Max Momentary Gage Height	155.67		m. (MSL.) ,				at 05.00 Hours ,						on Jul 26, 2021
Zero Gage at Bottom Elevation	150.00		m. (MSL.) ,			River Bed	150.30		m. (MSL.)				
Left Bank Elevation		158.55		m. (MSL.) ,									
Right Bank Elevation		158.58		m. (MSL.) ,		Drainage Are	2,169		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.45	58.50	3.00	16.00	31.80	1.35	0.00	0.00	0.00	0.10	
2	0.00	0.80	1.35	62.70	2.30	14.50	29.40	1.20	0.00	0.00	0.00	0.10	
3	0.00	1.25	1.20	62.00	1.75	12.60	27.00	1.10	0.00	0.00	0.00	0.10	
4	0.00	2.05	1.00	56.40	1.50	11.40	23.40	1.05	0.00	0.00	0.00	0.10	
5	0.00	2.60	0.80	54.35	1.30	10.60	17.50	1.05	0.00	0.00	0.00	0.20	
6	0.00	2.80	0.65	8.40	1.15	11.80	11.80	1.15	0.00	0.00	0.00	0.30	
7	0.00	2.90	0.55	8.85	1.00	14.50	9.00	1.25	0.00	0.00	0.00	0.45	
8	0.00	2.80	0.55	9.70	0.90	19.20	7.40	1.05	0.00	0.00	0.00	0.55	
9	0.00	2.65	1.45	11.10	0.75	28.80	6.60	0.95	0.00	0.00	0.00	0.65	
10	0.00	2.50	4.60	13.90	0.55	33.60	6.60	0.75	0.00	0.00	0.00	0.75	
11	0.00	2.35	8.70	17.05	1.20	34.20	11.40	0.70	0.00	0.00	0.00	0.80	
12	0.00	2.15	21.25	18.10	2.80	34.20	15.00	0.40	0.00	0.00	0.00	0.75	
13	0.00	2.00	58.45	16.00	7.40	36.60	14.00	0.20	0.00	0.00	0.00	0.60	
14	0.00	1.85	53.50	13.90	18.00	53.70	17.50	0.15	0.00	0.00	0.05	0.50	
15	0.00	1.65	56.40	12.50	27.60	74.25	30.60	0.10	0.00	0.00	0.15	0.40	
16	0.00	1.45	39.00	11.10	30.00	76.50	44.60	0.10	0.00	0.00	0.30	0.35	
17	0.00	1.25	31.20	9.70	28.20	80.25	50.45	0.05	0.00	0.00	0.50	0.30	
18	0.00	1.15	27.60	8.25	24.60	78.75	46.55	0.05	0.00	0.00	0.70	0.25	
19	0.00	1.05	25.80	7.50	20.40	72.75	37.80	0.00	0.00	0.00	0.90	0.20	
20	0.00	0.90	23.40	6.90	15.50	62.00	32.40	0.00	0.00	0.00	1.20	0.20	
21	0.00	0.80	21.00	6.40	11.80	51.75	30.00	0.00	0.00	0.00	1.70	0.15	
22	0.00	0.65	17.00	6.90	9.40	43.30	28.20	0.00	0.00	0.00	1.75	0.15	
23	0.00	0.55	10.20	16.00	6.60	39.60	25.20	0.00	0.00	0.00	1.50	0.15	
24	0.00	1.35	5.80	55.15	4.40	37.80	21.00	0.00	0.00	0.05	1.20	0.45	
25	0.00	1.60	6.20	110.50	4.00	37.80	16.50	0.00	0.00	0.15	0.90	1.25	
26	0.00	1.80	16.00	112.75	3.80	38.40	2.45	0.00	0.00	0.15	0.60	2.45	
27	0.00	1.80	22.20	68.35	4.00	38.40	2.10	0.00	0.00	0.15	0.35	3.05	
28	0.00	1.75	28.80	37.00	10.20	37.80	1.90	0.00	0.00	0.10	0.20	3.30	
29	0.00	1.70	39.60	12.85	14.00	36.00	1.75	0.00	0.00	0.10		3.30	
30	0.00	1.70	49.80	6.30	16.50	34.20	1.65	0.00	0.00	0.05		3.25	
31	0.00	1.60		4.00	17.50		1.50		0.05	0.00		3.10	
<b>Total</b>	0.00	51.45	575.50	903.10	292.10	1171.25	603.05	12.65	0.05	0.75	12.00	28.25	3650.15 CMSDAY
<b>Mean</b>	0.00	1.66	19.18	29.13	9.42	39.04	19.45	0.42	0.00	0.02	0.43	0.91	10.00 CMS
<b>Max</b>	0.00	2.90	58.45	112.75	30.00	80.25	50.45	1.35	0.05	0.15	1.75	3.30	112.75 CMS
<b>Min</b>	0.00	0.00	0.55	4.00	0.55	10.60	1.50	0.00	0.00	0.00	0.00	0.10	0.00 CMS
<b>Runoff</b>	0.00	4.45	49.72	78.03	25.24	101.20	52.10	1.09	0.00	0.06	1.04	2.44	315.37 MCM
<b>Momentary Peak</b>		120.95	CMS.	at 155.67 m. (MSL.)	at 05.00 Hours	, on Jul 26, 2021							
<b>Runoff Yield</b>		4.61	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>	55.76	Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

Nam Yam at Ban Pho Chai , Sakon Nakhon (Kh.112)

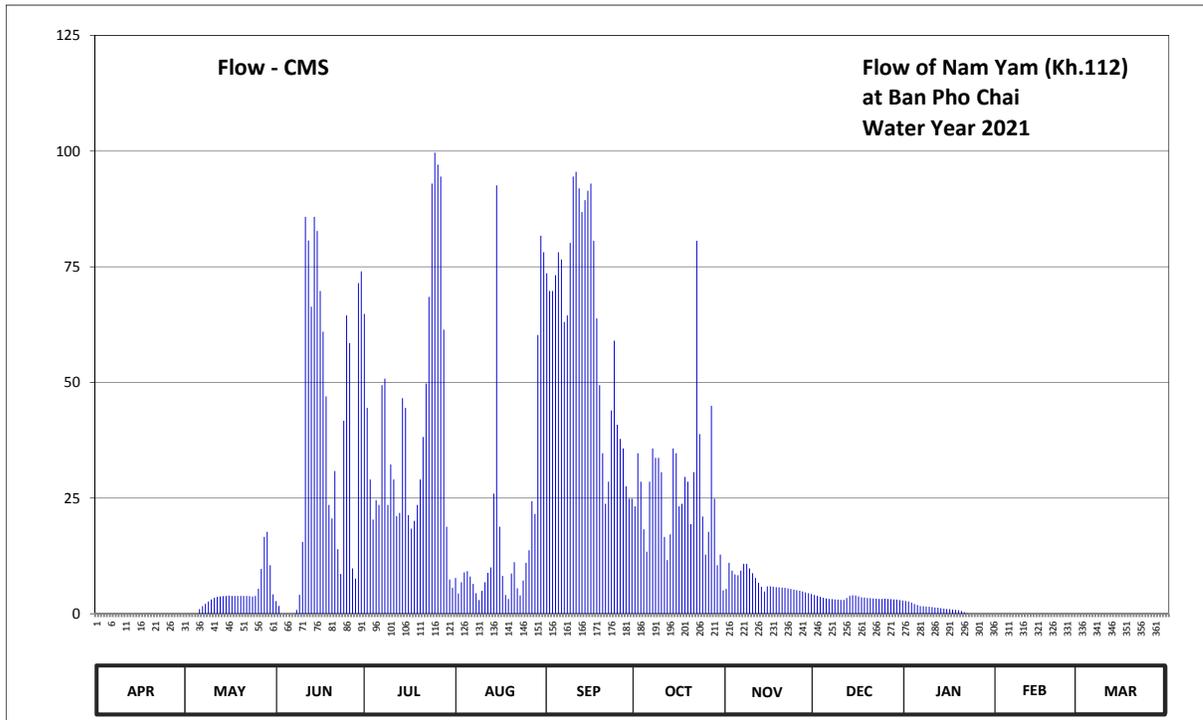
Lat 17 - 33 - 26 N Long 103 - 44 - 05 E

Location : on left bank Ban Pho Chai.

	<b>Ban Pho Chai</b>	<b>Amphoe Akat Annuai</b>	<b>Changwat Sakon Nakhon</b>
<b>Drainage Area</b>	799 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+141.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the automatic gage building.	<b>Elevation</b>	+149.186 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.47	142.43	145.04	146.58	146.03	146.79	146.74	145.57	145.31	145.05	144.14	143.54	
2	142.44	142.53	144.81	146.00	145.37	146.70	146.88	146.40	145.27	145.03	144.13	143.52	
3	142.41	142.68	144.40	145.55	145.86	146.70	146.82	146.23	145.23	144.98	144.13	143.50	
4	142.40	143.31	144.15	145.23	146.19	146.78	146.65	146.13	145.19	144.91	144.12	143.48	
5	142.36	144.11	144.15	145.40	146.22	146.88	146.53	146.11	145.16	144.86	144.10	143.46	
6	142.34	144.64	144.28	145.36	146.07	146.85	146.82	146.23	145.14	144.80	144.08	143.44	
7	142.32	144.80	144.37	146.14	145.79	146.53	146.89	146.38	145.13	144.79	144.06	143.43	
8	142.31	144.92	144.60	146.18	145.39	146.57	146.87	146.38	145.12	144.78	144.03	143.42	
9	142.30	145.03	145.32	145.36	145.09	146.92	146.87	146.28	145.11	144.77	144.01	143.39	
10	142.29	145.12	146.60	145.65	145.49	147.20	146.84	146.17	145.10	144.75	143.98	143.31	
11	142.27	145.19	147.03	145.55	145.86	147.22	146.62	146.03	145.10	144.73	143.89	143.23	
12	142.26	145.23	146.93	145.26	146.18	147.15	146.44	145.84	145.18	144.72	143.72	143.19	
13	142.24	145.25	146.62	145.29	146.30	147.05	146.63	145.67	145.27	144.69	143.63	143.16	
14	142.23	145.26	147.03	146.06	146.79	147.10	146.89	145.46	145.30	144.67	143.65	143.13	
15	142.22	145.27	146.97	146.00	147.19	147.14	146.88	145.68	145.29	144.65	143.66	143.12	
16	142.21	145.28	146.70	145.27	146.66	147.17	146.74	145.68	145.25	144.64	143.64	143.12	
17	142.24	145.27	146.47	145.15	146.09	147.14	146.75	145.67	145.21	144.62	143.62	143.12	
18	142.25	145.27	146.07	145.22	145.31	147.07	146.83	145.65	145.20	144.60	143.62	143.09	
19	142.24	145.27	145.36	145.36	145.14	147.01	146.82	145.64	145.18	144.58	143.62	143.08	
20	142.23	145.27	145.24	145.55	146.16	146.88	146.67	145.63	145.17	144.54	143.64	143.06	
21	142.22	145.27	145.61	145.82	146.41	146.75	146.84	145.62	145.16	144.48	143.67	143.04	
22	142.22	145.27	144.97	146.15	145.60	146.82	147.14	145.59	145.15	144.42	143.66	143.02	
23	142.22	145.26	144.75	146.67	145.29	146.97	146.92	145.57	145.14	144.35	143.64	143.00	
24	142.20	145.24	145.92	147.17	145.94	147.05	146.70	145.54	145.14	144.30	143.63	142.98	
25	142.19	145.27	146.57	147.30	146.40	146.94	146.51	145.52	145.15	144.29	143.61	143.00	
26	142.18	145.58	146.40	147.25	146.54	146.91	146.64	145.50	145.14	144.27	143.60	142.99	
27	142.30	146.27	144.80	147.20	146.76	146.89	146.98	145.46	145.13	144.27	143.58	142.99	
28	142.40	146.62	144.71	147.06	146.71	146.81	146.77	145.42	145.12	144.25	143.56	142.97	
29	142.44	146.64	146.74	146.66	146.45	146.77	146.35	145.39	145.11	144.23	143.55	142.95	
30	142.43	146.35	146.80	145.98	146.95	146.77	146.51	145.35	145.09	144.21	143.54	142.93	
31		145.34		145.62	146.88		145.51		145.07	144.17		142.92	
Mean	142.29	145.01	145.65	145.97	146.10	146.92	146.71	145.79	145.17	144.59	143.80	143.18	
Max	142.47	146.64	147.03	147.30	147.19	147.22	147.14	146.40	145.31	145.05	144.14	143.54	147.30
Min	142.18	142.43	144.15	145.15	145.09	146.53	145.51	145.35	145.07	144.17	143.56	142.92	142.18
Annual Max Momentary Gage Height	147.46		m. (MSL.) ,			at 06.00 Hours ,	on Aug 15, 2021						
Zero Gage at Bottom Elevation	141.00		m. (MSL.) ,			River Bed	139.95	m. (MSL.)					
Left Bank Elevation		150.82		m. (MSL.) ,									
Right Bank Elevation		151.51		m. (MSL.) ,		Drainage Are	799	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.70	64.80	7.73	73.58	23.20	5.35	4.05	2.75	0.00	0.00	
2	0.00	0.00	1.68	44.50	4.35	69.75	34.70	11.00	3.85	2.65	0.00	0.00	
3	0.00	0.00	0.00	29.00	6.80	69.75	28.55	9.30	3.65	2.41	0.00	0.00	
4	0.00	0.00	0.00	20.34	8.93	73.15	18.25	8.48	3.45	2.10	0.00	0.00	
5	0.00	0.00	0.00	24.50	9.20	78.10	13.40	8.33	3.30	1.89	0.00	0.00	
6	0.00	0.98	0.00	23.52	8.03	76.56	28.55	9.30	3.20	1.64	0.00	0.00	
7	0.00	1.64	0.00	49.40	6.45	63.05	35.73	10.80	3.15	1.60	0.00	0.00	
8	0.00	2.14	0.82	50.80	4.45	64.45	33.68	10.80	3.10	1.56	0.00	0.00	
9	0.00	2.65	4.10	23.52	2.95	80.15	33.68	9.80	3.05	1.52	0.00	0.00	
10	0.00	3.10	15.50	32.25	4.95	94.50	30.60	8.78	3.00	1.44	0.00	0.00	
11	0.00	3.45	85.79	29.00	6.80	95.53	16.60	7.73	3.00	1.35	0.00	0.00	
12	0.00	3.65	80.66	21.07	8.85	91.94	11.60	6.70	3.40	1.31	0.00	0.00	
13	0.00	3.75	66.35	21.81	10.00	86.81	17.15	5.85	3.85	1.19	0.00	0.00	
14	0.00	3.80	85.79	46.60	25.95	89.38	35.73	4.80	4.00	1.11	0.00	0.00	
15	0.00	3.85	82.71	44.50	92.60	91.43	34.70	5.90	3.95	1.03	0.00	0.00	
16	0.00	3.90	69.75	21.32	18.80	92.96	23.20	5.90	3.75	0.98	0.00	0.00	
17	0.00	3.85	60.95	18.38	8.18	80.60	23.75	5.85	3.55	0.90	0.00	0.00	
18	0.00	3.85	46.95	20.09	4.05	63.80	29.58	5.75	3.50	0.82	0.00	0.00	
19	0.00	3.85	23.52	23.52	3.20	49.40	28.55	5.70	3.40	0.74	0.00	0.00	
20	0.00	3.85	20.58	29.00	8.70	34.70	19.35	5.65	3.35	0.57	0.00	0.00	
21	0.00	3.85	30.85	38.20	11.15	23.75	30.60	5.60	3.30	0.33	0.00	0.00	
22	0.00	3.85	13.97	49.75	5.50	28.55	80.60	5.45	3.25	0.08	0.00	0.00	
23	0.00	3.80	8.58	68.48	3.95	43.93	38.80	5.35	3.20	0.00	0.00	0.00	
24	0.00	3.70	41.70	92.96	7.20	59.00	21.00	5.20	3.20	0.00	0.00	0.00	
25	0.00	3.85	64.45	99.63	11.00	40.85	12.80	5.10	3.25	0.00	0.00	0.00	
26	0.00	5.40	58.50	97.06	13.70	37.78	17.70	5.00	3.20	0.00	0.00	0.00	
27	0.00	9.70	9.80	94.50	24.30	35.73	44.95	4.80	3.15	0.00	0.00	0.00	
28	0.00	16.60	7.60	61.40	21.55	27.53	24.85	4.60	3.10	0.00	0.00	0.00	
29	0.00	17.70	71.45	18.80	60.25	24.85	10.50	4.45	3.05	0.00	0.00	0.00	
30	0.00	10.50	74.00	7.40	81.69	24.85	12.80	4.25	2.95	0.00	0.00	0.00	
31		4.20		5.60	78.10		5.05		2.85	0.00		0.00	
Total	0.00	131.46	1028.75	1271.70	569.36	1866.41	820.20	201.57	104.05	29.97	0.00	0.00	6023.47 CMSDAY
Mean	0.00	4.24	34.29	41.02	18.37	62.21	26.46	6.72	3.36	0.97	0.00	0.00	16.50 CMS
Max	0.00	17.70	85.79	99.63	92.60	95.53	80.60	11.00	4.05	2.75	0.00	0.00	99.63 CMS
Min	0.00	0.00	0.00	5.60	2.95	23.75	5.05	4.25	2.85	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	11.36	88.88	109.87	49.19	161.26	70.87	17.42	8.99	2.59	0.00	0.00	520.43 MCM
Momentary Peak	108.00	CMS.	at 147.46 m. (MSL).		at 06.00 Hours		on Aug 15, 2021						
Runoff Yield	20.65	Liters/Second/Square KM.			Momentary Peak Yield	135.17	Liters/Second/Square KM.						

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Songkhram River at Ban Lao Sombun , Sakon Nakhon (Kh.115)

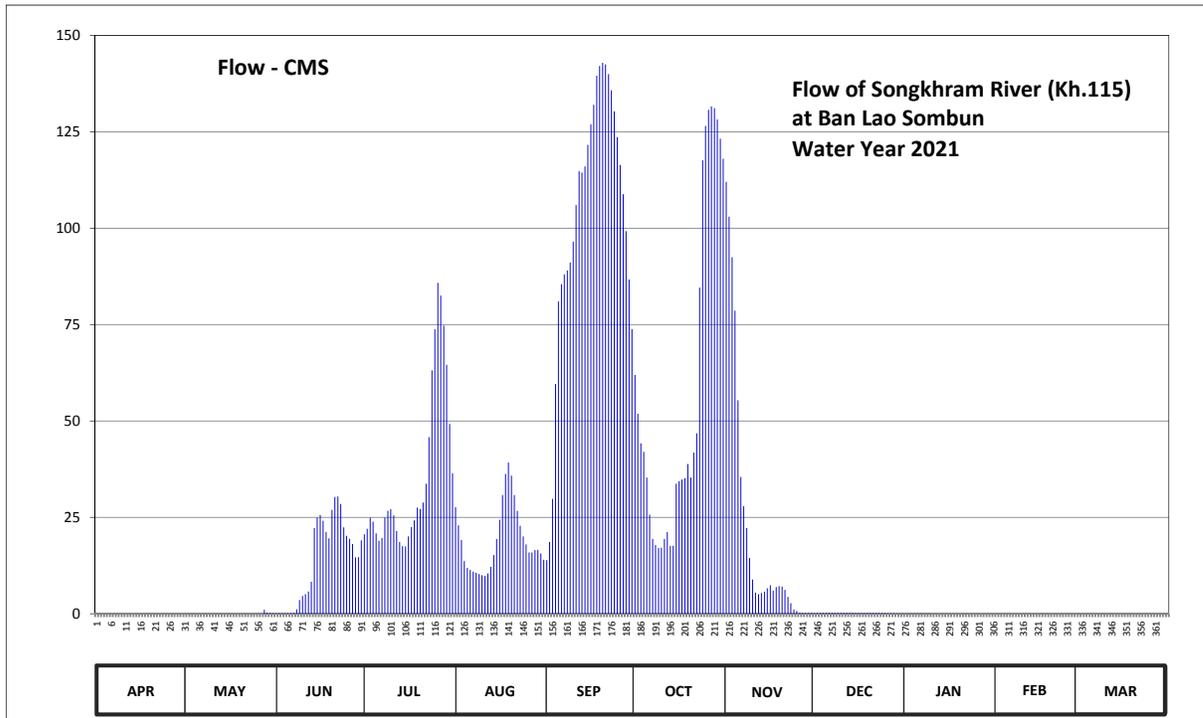
Lat 18 - 00 - 20 N Long 103 - 28 - 21 E

Location : on right bank Ban Lao Sombun.

	<b>Ban Lao Sombun</b>	<b>Amphoe Ban Muang</b>	<b>Changwat Sakon Nakhon</b>
<b>Drainage Area</b>	2,846 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+143.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.		<b>Elevation</b> +156.671 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.58	143.61	143.59	146.99	147.72	146.22	149.58	151.20	143.60	143.55	143.88	143.87	
2	143.58	143.61	143.59	147.16	147.26	146.76	149.13	150.97	143.62	143.55	143.88	143.87	
3	143.58	143.61	143.59	147.49	146.82	147.90	148.76	150.66	143.64	143.55	143.88	143.87	
4	143.58	143.60	143.59	147.37	146.19	149.48	148.65	150.22	143.66	143.55	143.88	143.87	
5	143.59	143.60	143.60	147.02	145.98	150.30	148.27	149.29	143.66	143.55	143.88	143.87	
6	143.59	143.60	143.60	146.80	145.88	150.45	147.56	148.28	143.65	143.55	143.88	143.86	
7	143.59	143.59	143.62	146.88	145.79	150.53	146.85	147.74	143.65	143.55	143.88	143.86	
8	143.59	143.59	143.87	147.49	145.73	150.56	146.67	147.18	143.65	143.55	143.88	143.86	
9	143.58	143.59	144.34	147.64	145.67	150.62	146.58	146.28	143.65	143.55	143.88	143.86	
10	143.58	143.59	144.55	147.68	145.60	150.78	146.59	145.38	143.65	143.55	143.88	143.86	
11	143.60	143.59	144.64	147.54	145.56	151.05	146.85	144.72	143.65	143.55	143.88	143.86	
12	143.57	143.59	144.78	147.09	145.69	151.27	147.06	144.64	143.65	143.55	143.88	143.86	
13	143.56	143.59	145.27	146.76	146.02	151.26	146.65	144.70	143.65	143.59	143.88	143.86	
14	143.56	143.59	147.18	146.64	146.37	151.30	146.65	144.77	143.65	143.78	143.88	143.86	
15	143.55	143.59	147.49	146.63	146.85	151.44	148.17	144.94	143.64	143.88	143.88	143.87	
16	143.55	143.59	147.55	146.93	147.43	151.57	148.21	145.09	143.64	143.90	143.89	143.87	
17	143.55	143.59	147.40	147.21	147.98	151.69	148.24	144.82	143.63	143.90	143.90	143.88	
18	143.55	143.59	147.06	147.41	148.33	151.87	148.26	145.00	143.63	143.90	143.90	143.88	
19	143.55	143.59	146.87	147.71	148.51	151.93	148.49	145.05	143.63	143.90	143.90	143.88	
20	143.56	143.59	147.66	147.68	148.30	151.95	148.27	145.03	143.62	143.90	143.90	143.88	
21	143.56	143.60	147.94	147.82	147.98	151.94	148.64	144.86	143.62	143.90	143.90	143.88	
22	143.56	143.63	147.95	148.17	147.64	151.88	148.89	144.50	143.62	143.90	143.90	143.88	
23	143.56	143.65	147.79	148.84	147.25	151.78	150.42	144.18	143.62	143.90	143.89	143.88	
24	143.57	143.65	147.20	149.63	146.93	151.65	151.34	143.86	143.62	143.90	143.88	143.88	
25	143.58	143.65	146.95	150.06	146.69	151.49	151.56	143.79	143.61	143.90	143.88	143.88	
26	143.58	143.64	146.86	150.46	146.45	151.31	151.66	143.70	143.59	143.90	143.88	143.87	
27	143.59	143.66	146.70	150.35	146.45	151.12	151.68	143.65	143.58	143.90	143.88	143.87	
28	143.59	143.84	146.30	150.09	146.52	150.86	151.67	143.64	143.57	143.89	143.88	143.90	
29	143.60	143.70	146.31	149.69	146.53	150.49	151.60	143.63	143.56	143.88		143.92	
30	143.61	143.64	146.81	149.01	146.42	150.06	151.48	143.62	143.56	143.88		143.90	
31		143.61		148.34	146.23		151.35		143.55	143.88		143.90	
Mean	143.57	143.62	145.82	147.95	146.73	150.72	148.90	145.85	143.62	143.75	143.89	143.87	
Max	143.61	143.84	147.95	150.46	148.51	151.95	151.68	151.20	143.66	143.90	143.90	143.92	151.95
Min	143.55	143.59	143.59	146.63	145.56	146.22	146.58	143.62	143.55	143.55	143.88	143.86	143.55
Annual Max Momentary Gage Height	151.95		m. (MSL.) ,			at 13.00 Hours ,	on Sep 20, 2021						
Zero Gage at Bottom Elevation	143.00		m. (MSL.) ,			River Bed	142.96	m. (MSL.)					
Left Bank Elevation		155.87		m. (MSL.) ,									
Right Bank Elevation		156.92		m. (MSL.) ,		Drainage Are	2,846	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.14	20.58	27.64	13.91	61.92	112.00	0.16	0.08	0.00	0.00	
2	0.00	0.00	0.14	22.05	22.92	18.59	51.86	102.98	0.19	0.08	0.00	0.00	
3	0.00	0.00	0.14	24.91	19.11	29.80	44.20	92.44	0.22	0.08	0.00	0.00	
4	0.00	0.00	0.14	23.87	13.65	59.56	42.00	78.60	0.24	0.08	0.00	0.00	
5	0.00	0.00	0.16	20.84	11.90	81.00	35.32	55.38	0.24	0.08	0.00	0.00	
6	0.00	0.00	0.16	18.93	11.39	85.50	25.72	35.48	0.23	0.08	0.00	0.00	
7	0.00	0.00	0.19	19.63	10.93	88.02	19.37	27.88	0.23	0.08	0.00	0.00	
8	0.00	0.00	1.17	24.91	10.63	89.04	17.81	22.23	0.23	0.08	0.00	0.00	
9	0.00	0.00	3.56	26.68	10.32	91.08	17.03	14.43	0.23	0.08	0.00	0.00	
10	0.00	0.00	4.62	27.16	9.97	96.52	17.11	8.85	0.23	0.00	0.00	0.00	
11	0.00	0.00	5.08	25.48	9.76	106.00	19.37	5.49	0.23	0.00	0.00	0.00	
12	0.00	0.00	5.79	21.45	10.42	114.80	21.19	5.08	0.23	0.00	0.00	0.00	
13	0.00	0.00	8.29	18.59	12.17	114.40	17.63	5.39	0.23	0.00	0.00	0.00	
14	0.00	0.00	22.23	17.55	15.21	116.00	17.63	5.74	0.23	0.00	0.00	0.00	
15	0.00	0.00	24.91	17.46	19.37	121.60	33.72	6.61	0.22	0.00	0.00	0.00	
16	0.00	0.00	25.60	20.06	24.39	126.94	34.36	7.37	0.22	0.00	0.00	0.00	
17	0.00	0.00	24.13	22.49	30.76	131.98	34.84	6.00	0.20	0.00	0.00	0.00	
18	0.00	0.00	21.19	24.22	36.28	139.54	35.16	6.91	0.20	0.00	0.00	0.00	
19	0.00	0.00	19.54	27.52	39.20	142.06	38.84	7.17	0.20	0.00	0.00	0.00	
20	0.00	0.00	26.92	27.16	35.80	142.90	35.32	7.07	0.19	0.00	0.00	0.00	
21	0.00	0.00	30.28	28.84	30.76	142.48	41.80	6.20	0.19	0.00	0.00	0.00	
22	0.00	0.00	30.40	33.72	26.68	139.96	46.80	4.37	0.19	0.00	0.00	0.00	
23	0.00	0.00	28.48	45.80	22.83	135.76	84.60	2.74	0.19	0.00	0.00	0.00	
24	0.00	0.00	22.40	63.12	20.06	130.30	117.60	1.11	0.19	0.00	0.00	0.00	
25	0.00	0.00	20.23	73.80	17.98	123.60	126.52	0.76	0.17	0.00	0.00	0.00	
26	0.00	0.00	19.45	85.80	15.90	116.40	130.72	0.30	0.14	0.00	0.00	0.00	
27	0.00	0.00	18.07	82.50	15.90	108.80	131.56	0.23	0.13	0.00	0.00	0.00	
28	0.00	1.01	14.60	74.70	16.51	99.24	131.14	0.22	0.11	0.00	0.00	0.00	
29	0.00	0.30	14.69	64.56	16.59	86.70	128.20	0.20	0.10	0.00	0.00	0.00	
30	0.00	0.22	19.02	49.22	15.64	73.80	123.20	0.19	0.10	0.00	0.00	0.00	
31	0.00	0.17		36.44	13.99		118.00		0.08	0.00	0.00	0.00	
<b>Total</b>	0.00	1.70	411.72	1090.04	594.66	3066.28	1800.54	629.42	5.94	0.72	0.00	0.00	7601.02 CMSDAY
<b>Mean</b>	0.00	0.05	13.72	35.16	19.18	102.21	58.08	20.98	0.19	0.02	0.00	0.00	20.82 CMS
<b>Max</b>	0.00	1.01	30.40	85.80	39.20	142.90	131.56	112.00	0.24	0.08	0.00	0.00	142.90 CMS
<b>Min</b>	0.00	0.00	0.14	17.46	9.76	13.91	17.03	0.19	0.08	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.15	35.57	94.18	51.38	264.93	155.57	54.38	0.51	0.06	0.00	0.00	656.73 MCM
<b>Momentary Peak</b>	142.90	CMS.	at 151.95 m. (MSL.)	at 13.00 Hours	, on Sep 20, 2021								
<b>Runoff Yield</b>	7.32	Liters/Second/Square KM.			Momentary Peak Yield	50.21	Liters/Second/Square KM.						

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Non Puai , Chaiyaphum (E.5)

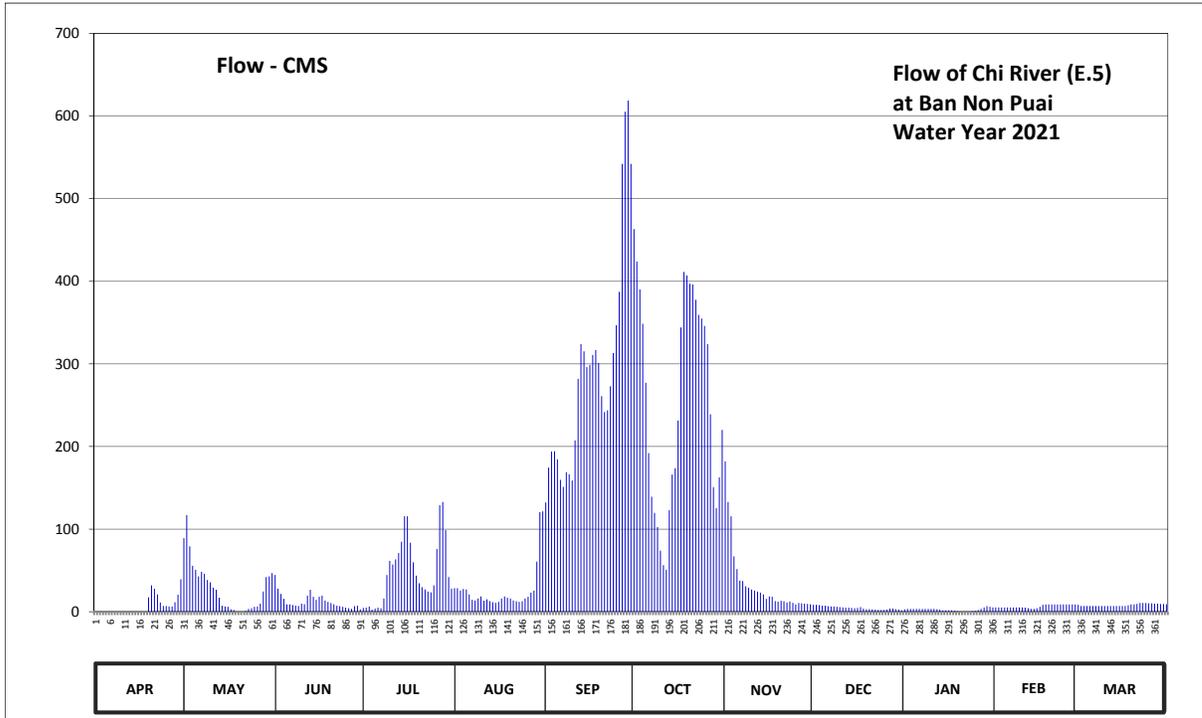
Lat 15 - 46 - 13 N Long 101 - 48 - 46 E

Location : on left bank near Ban Non Puai about 30 meters downstream from Ban Tango.

	<b>Ban Non Puai</b>	<b>Amphoe Ban Khwao</b>	<b>Changwat Chaiyaphum</b>
<b>Drainage Area</b>	4,221 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+186.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the station office.		<b>Elevation</b> +196.750 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1958 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 - 1971 , 1973, 1979, 1982 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1967 - 1971 , 1973, 1979, 1982 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +197.520 m.(MSL.) record are channel flow only.		
<b>General Description</b>	Records good. The local weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 2021, to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	189.03	191.71	191.23	190.43	190.99	192.71	197.95	194.05	190.54	190.38	190.45	190.54	
2	188.98	192.14	190.98	190.44	190.99	193.86	197.67	192.73	190.54	190.40	190.45	190.50	
3	188.93	191.62	190.85	190.48	190.93	194.34	197.40	192.08	190.53	190.40	190.45	190.50	
4	188.82	191.37	190.73	190.37	190.97	194.35	196.95	191.50	190.51	190.40	190.45	190.50	
5	188.79	191.31	190.55	190.41	190.96	194.11	195.95	191.32	190.51	190.40	190.45	190.50	
6	188.70	191.21	190.55	190.44	190.84	193.49	194.30	191.14	190.49	190.40	190.45	190.50	
7	188.72	191.28	190.53	190.42	190.71	193.28	192.94	191.13	190.48	190.40	190.45	190.50	
8	188.76	191.25	190.51	190.74	190.69	193.72	192.26	191.03	190.48	190.40	190.45	190.50	
9	188.74	191.15	190.50	191.23	190.74	193.66	191.82	191.00	190.47	190.40	190.45	190.50	
10	188.70	191.11	190.58	191.44	190.79	193.47	191.57	190.96	190.46	190.40	190.45	190.50	
11	188.70	191.00	190.56	191.39	190.68	194.64	191.38	190.93	190.45	190.40	190.44	190.50	
12	188.70	190.95	190.81	191.46	190.72	196.03	191.31	190.91	190.44	190.39	190.42	190.50	
13	188.70	190.76	190.95	191.54	190.67	196.66	192.39	190.88	190.44	190.37	190.40	190.50	
14	188.76	190.51	190.78	191.67	190.63	196.55	193.65	190.84	190.43	190.35	190.40	190.50	
15	188.94	190.48	190.71	192.08	190.61	196.27	193.84	190.73	190.42	190.35	190.42	190.50	
16	189.17	190.47	190.78	192.08	190.64	196.31	195.13	190.79	190.43	190.35	190.47	190.50	
17	189.58	190.38	190.81	191.66	190.74	196.49	196.90	190.78	190.46	190.35	190.54	190.50	
18	190.04	190.36	190.69	191.42	190.79	196.57	197.58	190.67	190.41	190.34	190.55	190.52	
19	190.77	190.30	190.64	191.22	190.76	196.35	197.55	190.65	190.39	190.32	190.55	190.55	
20	191.05	190.30	190.60	191.09	190.74	195.67	197.47	190.68	190.39	190.30	190.55	190.55	
21	190.98	190.30	190.56	191.01	190.69	195.32	197.46	190.66	190.38	190.30	190.55	190.57	
22	190.84	190.33	190.51	190.96	190.66	195.36	197.27	190.62	190.37	190.30	190.55	190.60	
23	190.62	190.40	190.49	190.91	190.64	195.88	197.07	190.65	190.36	190.30	190.55	190.60	
24	190.50	190.42	190.47	190.89	190.66	196.52	197.02	190.61	190.36	190.32	190.55	190.60	
25	190.50	190.47	190.44	191.05	190.74	196.93	196.92	190.55	190.36	190.34	190.55	190.59	
26	190.48	190.48	190.42	191.59	190.78	197.37	196.66	190.60	190.37	190.36	190.55	190.59	
27	190.48	190.58	190.40	192.60	190.88	198.36	195.27	190.59	190.41	190.40	190.55	190.58	
28	190.63	190.91	190.49	192.73	190.93	198.63	193.27	190.58	190.41	190.45	190.55	190.58	
29	190.83	191.20	190.51	191.79	191.43	198.68	192.48	190.57	190.39	190.49		190.57	
30	191.16	191.21	190.38	191.20	192.30	198.36	193.56	190.56	190.37	190.47		190.57	
31		191.26		190.98	192.34		194.90		190.35	190.45		190.56	
Mean	189.65	190.88	190.63	191.22	190.89	195.66	195.09	191.03	190.43	190.38	190.49	190.53	
Max	191.16	192.14	191.23	192.73	192.34	198.68	197.95	194.05	190.54	190.49	190.55	190.60	198.68
Min	188.70	190.30	190.38	190.37	190.61	192.71	191.31	190.55	190.35	190.30	190.40	190.50	188.70
Annual Max Momentary Gage Height	198.78												at 02.00 Hours, on Sep 29, 2021
Zero Gage at Bottom Elevation	186.10						187.03						m. (MSL.)
Left Bank Elevation		197.51											m. (MSL.)
Right Bank Elevation		198.44											m. (MSL.)
Drainage Area						4,221							Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	89.20	44.40	4.55	28.50	132.30	463.00	182.00	8.40	2.80	5.25	8.40	
2	0.00	116.80	28.00	4.90	28.50	174.40	423.80	132.90	8.40	3.50	5.25	7.00	
3	0.00	79.20	21.50	6.30	25.50	193.80	390.00	115.60	8.05	3.50	5.25	7.00	
4	0.00	55.60	15.50	2.45	27.50	194.25	348.50	67.00	7.35	3.50	5.25	7.00	
5	0.00	50.80	8.75	3.85	27.00	184.40	277.00	51.60	7.35	3.50	5.25	7.00	
6	0.00	42.80	8.75	4.90	21.00	159.60	192.00	37.80	6.65	3.50	5.25	7.00	
7	0.00	48.40	8.05	4.20	14.50	151.20	139.20	37.10	6.30	3.50	5.25	7.00	
8	0.00	46.00	7.35	16.00	13.65	168.80	119.50	30.80	6.30	3.50	5.25	7.00	
9	0.00	38.50	7.00	44.40	16.00	166.40	102.40	29.00	5.95	3.50	5.25	7.00	
10	0.00	35.70	9.80	61.60	18.50	158.80	74.00	27.00	5.60	3.50	5.25	7.00	
11	0.00	29.00	9.10	57.20	13.30	207.30	56.40	25.50	5.25	3.50	4.90	7.00	
12	0.00	26.50	19.50	63.40	15.00	281.80	50.80	24.50	4.90	3.15	4.20	7.00	
13	0.00	17.00	26.50	71.00	12.95	323.80	122.75	23.00	4.90	2.45	3.50	7.00	
14	0.00	7.35	18.00	84.70	11.55	315.25	166.00	21.00	4.55	1.75	3.50	7.00	
15	0.00	6.30	14.50	115.60	10.85	296.20	173.60	15.50	4.20	1.75	4.20	7.00	
16	0.00	5.95	18.00	115.60	11.90	298.60	231.50	18.50	4.55	1.75	5.95	7.00	
17	0.00	2.80	19.50	83.60	16.00	310.75	344.00	18.00	5.60	1.75	8.40	7.00	
18	0.00	2.10	13.65	59.80	18.50	316.75	411.20	12.95	3.85	1.40	8.75	7.70	
19	17.50	0.00	11.90	43.60	17.00	301.00	407.00	12.25	3.15	0.70	8.75	8.75	
20	32.00	0.00	10.50	34.40	16.00	260.85	397.00	13.30	3.15	0.00	8.75	8.75	
21	28.00	0.00	9.10	29.60	13.65	241.60	396.00	12.60	2.80	0.00	8.75	9.45	
22	21.00	1.05	7.35	27.00	12.60	243.80	377.65	11.20	2.45	0.00	8.75	10.50	
23	11.20	3.50	6.65	24.50	11.90	272.80	359.30	12.25	2.10	0.00	8.75	10.50	
24	7.00	4.20	5.95	23.50	12.60	313.00	354.80	10.85	2.10	0.70	8.75	10.50	
25	7.00	5.95	4.90	32.00	16.00	346.70	345.80	8.75	2.10	1.40	8.75	10.15	
26	6.30	6.30	4.20	76.00	18.00	387.15	323.80	10.50	2.45	2.10	8.75	10.15	
27	6.30	9.80	3.50	129.00	23.00	542.00	238.85	10.15	3.85	3.50	8.75	9.80	
28	11.55	24.50	6.65	132.90	25.50	605.10	150.80	9.80	3.85	5.25	8.75	9.80	
29	20.50	42.00	7.35	98.80	60.70	618.60	125.40	9.45	3.15	6.65		9.45	
30	39.20	42.80	2.80	42.00	120.50	542.00	162.40	9.10	2.45	5.95		9.45	
31	46.80			28.00	121.50		220.00		1.75	5.25		9.10	
Total	207.55	886.90	378.70	1525.35	799.65	8709.00	7944.45	999.95	143.50	83.30	183.40	254.45	22116.20 CMSDAY
Mean	6.92	28.61	12.62	49.20	25.80	290.30	256.27	33.33	4.63	2.69	6.55	8.21	60.59 CMS
Max	39.20	116.80	44.40	132.90	121.50	618.60	463.00	182.00	8.40	6.65	8.75	10.50	618.60 CMS
Min	0.00	0.00	2.80	2.45	10.85	132.30	50.80	8.75	1.75	0.00	3.50	7.00	0.00 CMS
Runoff	17.93	76.63	32.72	131.79	69.09	752.46	686.40	86.40	12.40	7.20	15.85	21.98	1910.84 MCM
Momentary Peak	645.60	CMS, at 198.78 m. (MSL.), at 02.00 Hours, on Sep 29, 2021											
Runoff Yield	14.35	Liters/Second/Square KM.			Momentary Peak Yield			152.95	Liters/Second/Square KM.				

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Pa Thao at Ban Tat Ton , Chaiyaphum (E.6C)

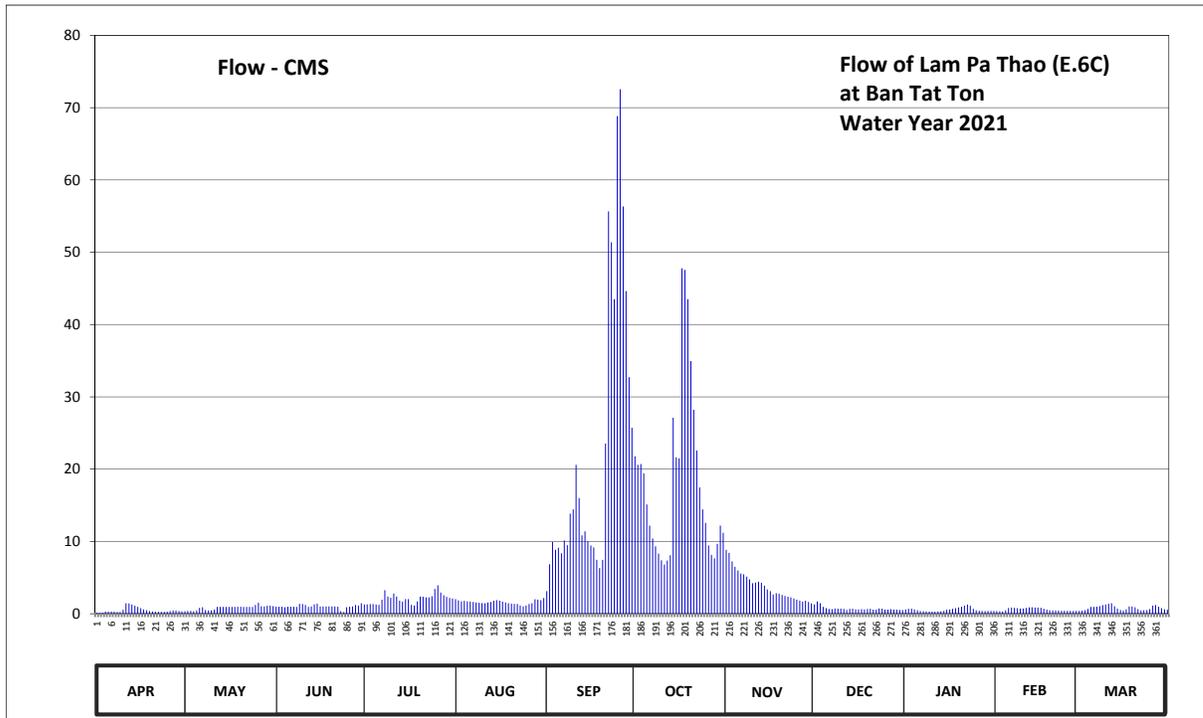
Lat 15 - 57 - 19 N Long 102 - 02 - 00 E

Location : on right bank about 5 kilometers upstream from E.6A station at Ban Tat Ton.

	<b>Ban</b>	<b>Tat</b>	<b>Ton</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Chaiyaphum</b>
<b>Drainage Area</b>	417	sq.km.					
<b>Type of Gage</b>	Water - stage recorder.						
<b>Zero Gage at Bottom</b>	+192.000 m. (MSL.)						
<b>Bench Mark</b>	B.M.-H.D.						
<b>Location BM</b>	About 2 meters from the sling pole.					<b>Elevation</b>	+198.412 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording						
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings						
<b>Period of Available Gage Records</b>	1973 to date						
<b>Rating Operation</b>							
<b>Period of Rating</b>	1973 to date						
<b>Rated by Float</b>	-						
<b>Rated by Current Meter</b>	1973 to date						
<b>Stability of Channel Regimes</b>	Fairly stable.						
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +198.330 m.(MSL.), records are channel flow only.						
<b>General Description</b>	Records fair. Lam Pa Thao Dam situated about 2 kilometers upstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2021.						

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.30	192.43	192.69	192.80	193.04	193.41	196.07	194.60	192.80	192.55	192.44	192.45	
2	192.30	192.45	192.69	192.80	192.98	194.23	195.98	194.52	192.93	192.59	192.42	192.46	
3	192.33	192.45	192.69	192.81	192.94	194.80	195.99	194.30	192.85	192.60	192.41	192.49	
4	192.40	192.43	192.67	192.81	192.96	194.60	195.86	194.16	192.68	192.55	192.49	192.58	
5	192.40	192.48	192.69	192.79	192.94	194.65	195.42	194.07	192.62	192.49	192.63	192.68	
6	192.40	192.64	192.69	192.78	192.93	194.51	195.12	193.99	192.58	192.44	192.65	192.68	
7	192.39	192.67	192.69	193.01	192.91	194.84	194.89	193.97	192.57	192.42	192.64	192.69	
8	192.37	192.50	192.68	193.45	192.89	194.72	194.69	193.91	192.61	192.41	192.62	192.72	
9	192.37	192.48	192.82	193.16	192.87	195.29	194.50	193.84	192.60	192.40	192.60	192.76	
10	192.52	192.48	192.81	193.10	192.86	195.35	194.33	193.74	192.60	192.40	192.61	192.79	
11	192.85	192.54	192.77	193.30	192.85	195.98	194.22	193.76	192.58	192.39	192.63	192.83	
12	192.84	192.68	192.68	193.16	192.89	195.51	194.32	193.78	192.51	192.40	192.66	192.85	
13	192.79	192.68	192.70	192.97	192.91	194.97	194.46	193.75	192.59	192.41	192.67	192.71	
14	192.74	192.68	192.80	192.92	192.97	195.04	196.46	193.66	192.60	192.45	192.65	192.60	
15	192.68	192.68	192.83	193.04	193.00	194.82	196.06	193.49	192.55	192.52	192.65	192.51	
16	192.62	192.68	192.70	193.04	192.97	194.71	196.05	193.41	192.55	192.55	192.64	192.47	
17	192.55	192.68	192.70	192.78	192.92	194.66	197.59	193.25	192.57	192.59	192.59	192.56	
18	192.49	192.68	192.70	192.74	192.89	194.34	197.58	193.31	192.55	192.62	192.53	192.70	
19	192.44	192.69	192.70	192.93	192.85	194.13	197.40	193.29	192.58	192.66	192.49	192.70	
20	192.40	192.69	192.70	193.16	192.83	194.34	197.02	193.23	192.59	192.69	192.48	192.67	
21	192.39	192.68	192.70	193.15	192.82	196.20	196.54	193.19	192.53	192.74	192.48	192.57	
22	192.38	192.68	192.69	193.12	192.82	197.94	196.13	193.15	192.53	192.79	192.47	192.48	
23	192.38	192.68	192.42	193.12	192.75	197.75	195.66	193.12	192.61	192.73	192.46	192.49	
24	192.38	192.68	192.37	193.17	192.70	197.40	195.35	193.07	192.60	192.59	192.46	192.50	
25	192.39	192.77	192.67	193.51	192.75	198.32	195.16	193.01	192.54	192.49	192.46	192.57	
26	192.44	192.87	192.69	193.68	192.81	198.42	194.71	192.97	192.53	192.46	192.45	192.74	
27	192.48	192.71	192.70	193.34	192.85	197.97	194.47	192.92	192.57	192.45	192.45	192.77	
28	192.47	192.70	192.77	193.22	193.03	197.45	194.38	192.97	192.54	192.44	192.45	192.69	
29	192.44	192.73	192.74	193.14	193.02	196.87	194.75	192.91	192.53	192.45		192.62	
30	192.41	192.74	192.85	193.09	192.99	196.36	195.12	192.84	192.51	192.45		192.56	
31		192.72		193.07	193.09		195.02		192.50	192.45		192.52	
Mean	192.48	192.63	192.70	193.07	192.90	195.65	195.53	193.54	192.60	192.52	192.54	192.63	
Max	192.85	192.87	192.85	193.68	193.09	198.42	197.59	194.60	192.93	192.79	192.67	192.85	198.42
Min	192.30	192.43	192.37	192.74	192.70	193.41	194.22	192.84	192.50	192.39	192.41	192.45	192.30
Annual Max Momentary Gage Height	198.68		m. (MSL.) ,			at 24.00 Hours, on Sep 25, 2021							
Zero Gage at Bottom Elevation	192.00		m. (MSL.) ,			River Bed	191.49	m. (MSL.)					
Left Bank Elevation		198.32		m. (MSL.) ,									
Right Bank Elevation		198.49		m. (MSL.) ,		Drainage Are	417	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.36	0.97	1.30	2.02	3.13	21.76	8.85	1.30	0.60	0.38	0.40	
2	0.10	0.40	0.97	1.30	1.84	6.85	20.60	8.42	1.69	0.68	0.34	0.42	
3	0.16	0.40	0.97	1.33	1.72	9.92	20.70	7.23	1.45	0.70	0.32	0.48	
4	0.30	0.36	0.91	1.33	1.78	8.85	19.43	6.48	0.94	0.60	0.48	0.66	
5	0.30	0.46	0.97	1.27	1.72	9.12	15.12	5.99	0.76	0.48	0.79	0.94	
6	0.30	0.82	0.97	1.24	1.69	8.36	12.18	5.56	0.66	0.38	0.85	0.94	
7	0.28	0.91	0.97	1.93	1.63	10.14	10.41	5.45	0.64	0.34	0.82	0.97	
8	0.24	0.50	0.94	3.25	1.57	9.49	9.33	5.13	0.73	0.32	0.76	1.06	
9	0.24	0.46	1.36	2.38	1.51	13.84	8.31	4.75	0.70	0.30	0.70	1.18	
10	0.54	0.46	1.33	2.20	1.48	14.43	7.39	4.22	0.70	0.30	0.73	1.27	
11	1.45	0.58	1.21	2.80	1.45	20.60	6.80	4.32	0.66	0.28	0.79	1.39	
12	1.42	0.94	0.94	2.38	1.57	16.00	7.34	4.43	0.52	0.30	0.88	1.45	
13	1.27	0.94	1.00	1.81	1.63	10.84	8.09	4.27	0.68	0.32	0.91	1.03	
14	1.12	0.94	1.30	1.66	1.81	11.39	27.10	3.88	0.70	0.40	0.85	0.70	
15	0.94	0.94	1.39	2.02	1.90	10.03	21.62	3.37	0.60	0.54	0.85	0.52	
16	0.76	0.94	1.00	2.02	1.81	9.44	21.49	3.13	0.60	0.60	0.82	0.44	
17	0.60	0.94	1.00	1.24	1.66	9.17	47.78	2.65	0.64	0.68	0.68	0.62	
18	0.48	0.94	1.00	1.12	1.57	7.45	47.55	2.83	0.60	0.76	0.56	1.00	
19	0.38	0.97	1.00	1.69	1.45	6.32	43.50	2.77	0.66	0.88	0.48	1.00	
20	0.30	0.97	1.00	2.38	1.39	7.45	34.95	2.59	0.68	0.97	0.46	0.91	
21	0.28	0.94	1.00	2.35	1.36	23.54	28.20	2.47	0.56	1.12	0.46	0.64	
22	0.26	0.94	0.97	2.26	1.36	55.65	22.58	2.35	0.56	1.27	0.44	0.46	
23	0.26	0.94	0.34	2.26	1.15	51.38	17.47	2.26	0.73	1.09	0.42	0.48	
24	0.26	0.94	0.24	2.41	1.00	43.50	14.43	2.11	0.70	0.68	0.42	0.50	
25	0.28	1.21	0.91	3.43	1.15	68.84	12.57	1.93	0.58	0.48	0.42	0.64	
26	0.38	1.51	0.97	3.94	1.33	72.54	9.44	1.81	0.56	0.42	0.40	1.12	
27	0.46	1.03	1.00	2.92	1.45	56.33	8.15	1.66	0.64	0.40	0.40	1.21	
28	0.44	1.00	1.21	2.56	1.99	44.63	7.66	1.81	0.58	0.38	0.40	0.97	
29	0.38	1.09	1.12	2.32	1.96	32.72	9.65	1.63	0.56	0.40		0.76	
30	0.32	1.12	1.45	2.17	1.87	25.73	12.18	1.42	0.52	0.40		0.62	
31		1.06		2.11	2.17		11.20		0.50	0.40		0.54	
Total	14.60	26.01	30.41	65.38	49.99	677.68	564.98	115.77	22.40	17.47	16.81	25.32	1626.82 CMSDAY
Mean	0.49	0.84	1.01	2.11	1.61	22.59	18.23	3.86	0.72	0.56	0.60	0.82	4.46 CMS
Max	1.45	1.51	1.45	3.94	2.17	72.54	47.78	8.85	1.69	1.27	0.91	1.45	72.54 CMS
Min	0.10	0.36	0.24	1.12	1.00	3.13	6.80	1.42	0.50	0.28	0.32	0.40	0.10 CMS
Runoff	1.26	2.25	2.63	5.65	4.32	58.55	48.81	10.00	1.94	1.51	1.45	2.19	140.56 MCM
Momentary Peak	82.16	CMS, at 198.68 m. (MSL), at 24.00 Hours, on Sep 25, 2021											
Runoff Yield	10.69	Liters/Second/Square KM.		Momentary Peak Yield		197.03	Liters/Second/Square KM.						

**WATER YEAR : 2021****CHI RIVER BASIN****Chi River at Ban Chot , Khon Kaen (E.9)**

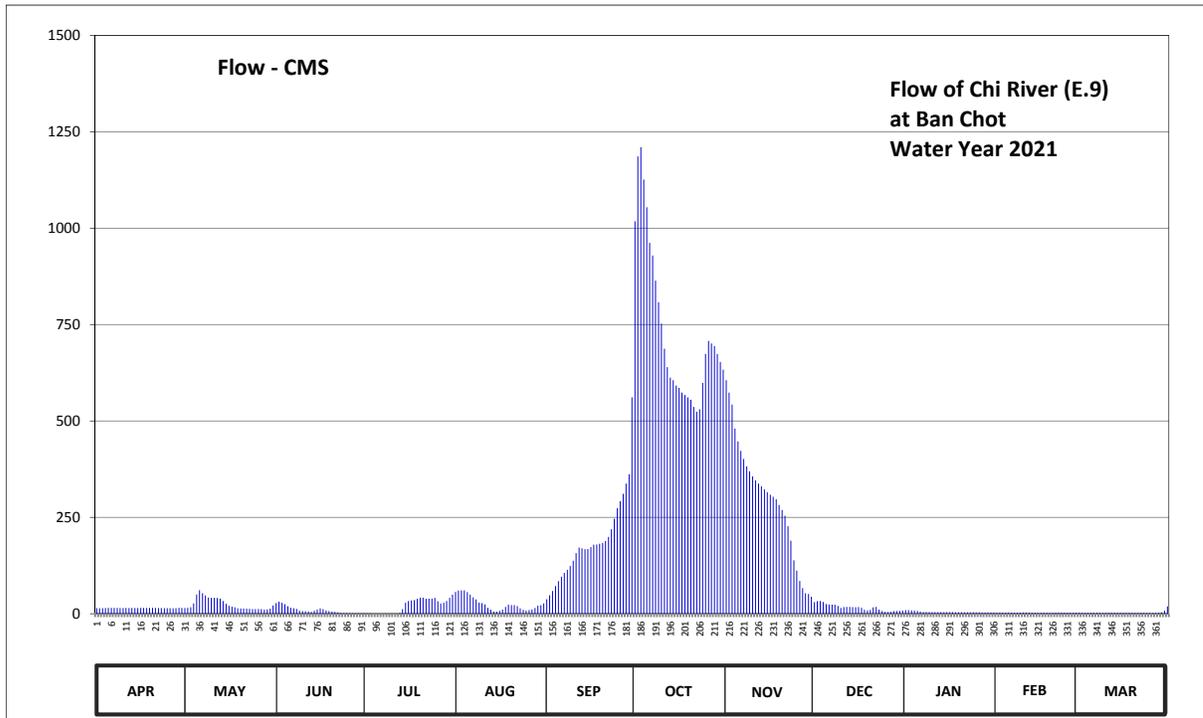
Lat 16 - 05 - 49 N Long 102 - 34 - 12 E

Location : on left bank about 80 meters downstream from the bridge on highway.

	<b>Ban Chot</b>	<b>Amphoe</b> Manchakhiri	<b>Changwat</b> Khon Kaen
<b>Drainage Area</b>	10,942 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+151.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank about 25 meters from the top staff gage.	<b>Elevation</b>	+167.014 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1958 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 - 1973, 1986 - 1987, 1992 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1967 - 1980, 1983 - 1987, 1992 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +162.620 m.(MSL.) record are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	154.04	154.06	155.03	152.71	156.65	155.66	163.04	162.52	155.20	153.54	152.90	152.87	
2	154.04	154.08	155.27	152.69	156.81	156.23	163.18	162.47	155.34	153.56	152.92	152.85	
3	154.04	154.23	155.10	152.66	156.83	156.76	163.20	162.42	155.38	153.48	152.90	152.86	
4	154.06	154.99	154.81	152.61	156.84	157.29	163.13	162.32	155.21	153.43	152.89	152.86	
5	154.10	156.32	154.42	152.61	156.62	157.76	163.07	162.24	154.87	153.34	152.91	152.85	
6	154.09	156.86	154.08	152.56	156.31	158.14	162.99	162.17	154.77	153.17	152.90	152.83	
7	154.08	156.48	153.99	152.51	155.97	158.43	162.95	162.11	154.74	153.07	152.90	152.85	
8	154.08	156.21	153.84	152.50	155.63	158.65	162.87	162.05	154.72	153.04	152.90	152.86	
9	154.07	155.93	153.44	152.49	155.12	158.91	162.80	162.01	154.47	153.03	152.90	152.81	
10	154.07	155.89	153.28	152.51	155.04	159.25	162.73	161.95	154.06	153.03	152.92	152.83	
11	154.08	155.88	153.24	152.52	154.78	159.68	162.64	161.90	154.26	153.03	152.92	152.85	
12	154.07	155.87	153.20	152.56	154.10	159.97	162.57	161.85	154.28	153.02	152.90	152.87	
13	154.06	155.77	153.09	152.76	153.65	159.93	162.53	161.81	154.27	153.02	152.88	152.90	
14	154.07	155.37	153.38	153.78	153.19	159.89	162.52	161.76	154.25	153.01	152.87	152.85	
15	154.07	154.88	153.72	155.08	153.16	159.90	162.50	161.72	154.23	153.01	152.85	152.83	
16	154.08	154.52	153.98	155.38	153.36	160.00	162.49	161.67	154.24	153.00	152.86	152.84	
17	154.08	154.32	153.80	155.47	153.69	160.10	162.47	161.62	154.10	152.99	152.86	152.84	
18	154.07	154.20	153.46	155.53	154.27	160.11	162.46	161.56	153.61	152.98	152.86	152.84	
19	154.08	154.01	153.28	155.74	154.72	160.14	162.45	161.43	153.46	152.98	152.85	152.85	
20	154.09	153.97	153.17	155.88	154.65	160.18	162.44	161.31	153.58	152.97	152.84	152.85	
21	154.08	153.95	153.10	155.91	154.63	160.26	162.41	161.17	154.19	152.97	152.87	152.83	
22	154.07	153.92	152.95	155.73	154.43	160.44	162.39	160.85	154.27	152.97	152.87	152.84	
23	154.05	153.87	152.80	155.76	154.01	160.75	162.40	160.27	153.68	152.96	152.88	152.83	
24	154.04	153.79	152.78	155.76	153.61	161.08	162.51	159.28	153.28	152.96	152.88	152.81	
25	154.03	153.78	152.76	155.88	153.43	161.35	162.62	158.59	153.10	152.96	152.88	152.80	
26	154.02	153.84	152.74	155.33	153.54	161.52	162.67	157.78	153.04	152.95	152.86	152.81	
27	154.01	153.79	152.73	154.96	153.72	161.69	162.66	157.09	153.08	152.93	152.86	152.82	
28	154.02	153.67	152.73	155.11	154.05	161.85	162.65	156.49	153.26	152.92	152.87	152.86	
29	154.08	153.72	152.72	155.38	154.51	161.98	162.62	156.38	153.29	152.91	152.91	152.97	
30	154.08	153.93	152.73	155.90	154.62	162.45	162.59	156.06	153.36	152.91	152.91	153.38	
31		154.57		156.31	154.97		162.56		153.42	152.91		154.38	
Mean	154.06	154.73	153.52	154.28	154.74	159.68	162.68	160.76	154.10	153.07	152.88	152.91	
Max	154.10	156.86	155.27	156.31	156.84	162.45	163.20	162.52	155.38	153.56	152.92	154.38	163.20
Min	154.01	153.67	152.72	152.49	153.16	155.66	162.39	156.06	153.04	152.91	152.84	152.80	152.49
Annual Max Momentary Gage Height	163.22		m. (MSL.) ,				at 06.00 Hours, on Oct 3, 2021						
Zero Gage at Bottom Elevation	151.10		m. (MSL.) ,			River Bed	149.96	m. (MSL.)					
Left Bank Elevation		164.88		m. (MSL.) ,									
Right Bank Elevation		162.61		m. (MSL.) ,		Drainage Are	10,942	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.52	14.78	27.48	1.10	56.65	37.56	1018.00	605.60	30.20	9.40	3.00	2.70		
2	14.52	15.04	31.32	0.90	60.01	47.83	1186.00	573.40	32.44	9.60	3.20	2.50		
3	14.52	16.99	28.60	0.60	60.43	58.96	1210.00	542.40	33.08	8.80	3.00	2.60		
4	14.78	26.87	24.53	0.10	60.64	71.83	1126.00	480.40	30.36	8.30	2.90	2.60		
5	15.30	49.72	19.46	0.10	56.02	84.52	1054.00	447.00	25.31	7.40	3.10	2.50		
6	15.17	61.06	15.04	0.00	49.51	95.90	961.80	422.50	24.01	5.70	3.00	2.30		
7	15.04	53.08	13.90	0.00	42.52	106.05	929.00	401.50	23.62	4.70	3.00	2.50		
8	15.04	47.41	12.40	0.00	37.08	114.05	864.01	382.00	23.36	4.40	3.00	2.60		
9	14.91	41.88	8.40	0.00	28.92	123.67	808.00	369.20	20.11	4.30	3.00	2.10		
10	14.91	41.24	6.80	0.00	27.64	137.25	752.00	356.00	14.78	4.30	3.20	2.30		
11	15.04	41.08	6.40	0.00	24.14	157.00	687.20	346.00	17.38	4.30	3.20	2.50		
12	14.91	40.92	6.00	0.00	15.30	171.50	639.60	337.50	17.64	4.20	3.00	2.70		
13	14.78	39.32	4.90	1.60	10.50	169.50	612.40	330.70	17.51	4.20	2.80	3.00		
14	14.91	32.92	7.80	11.80	5.90	167.50	605.60	322.20	17.25	4.10	2.70	2.50		
15	14.91	25.44	11.20	28.28	5.60	168.00	592.00	315.40	16.99	4.10	2.50	2.30		
16	15.04	20.76	13.80	33.08	7.60	173.00	585.80	308.70	17.12	4.00	2.60	2.40		
17	15.04	18.16	12.00	34.52	10.90	179.00	573.40	303.20	15.30	3.90	2.60	2.40		
18	14.91	16.60	8.60	35.48	17.51	179.60	567.20	296.60	10.10	3.80	2.60	2.40		
19	15.04	14.13	6.80	38.84	23.36	181.40	561.00	282.30	8.60	3.80	2.50	2.50		
20	15.17	13.70	5.70	41.08	22.45	183.80	554.80	269.10	9.80	3.70	2.40	2.50		
21	15.04	13.50	5.00	41.56	22.19	188.60	536.20	254.30	16.47	3.70	2.70	2.30		
22	14.91	13.20	3.50	38.68	19.59	199.40	523.80	227.00	17.51	3.70	2.70	2.40		
23	14.65	12.70	2.00	39.16	14.13	219.00	530.00	189.20	10.80	3.60	2.80	2.30		
24	14.52	11.90	1.80	39.16	10.10	246.20	598.80	138.60	6.80	3.60	2.80	2.10		
25	14.39	11.80	1.60	41.08	8.30	273.50	673.60	111.83	5.00	3.60	2.80	2.00		
26	14.26	12.40	1.40	32.28	9.40	292.20	707.60	85.06	4.40	3.50	2.60	2.10		
27	14.13	11.90	1.30	26.48	11.20	310.90	700.80	66.43	4.80	3.30	2.60	2.20		
28	14.26	10.70	1.30	28.76	14.65	337.50	694.00	53.29	6.60	3.20	2.70	2.60		
29	15.04	11.20	1.20	33.08	20.63	362.00	673.60	50.98	6.90	3.10		3.70		
30	15.04	13.30	1.30	41.40	22.06	561.00	653.20	44.26	7.60	3.10		7.80		
31		21.41		49.51	26.61		632.80		8.20	3.10		18.94		
Total	444.70	775.11	291.53	638.63	801.54	5598.22	22812.21	8912.65	500.04	144.50	79.00	98.34	41096.47	CMSDAY
Mean	14.82	25.00	9.72	20.60	25.86	186.61	735.88	297.09	16.13	4.66	2.82	3.17	112.59	CMS
Max	15.30	61.06	31.32	49.51	60.64	561.00	1210.00	605.60	33.08	9.60	3.20	18.94	1210.00	CMS
Min	14.13	10.70	1.20	0.00	5.60	37.56	523.80	44.26	4.40	3.10	2.40	2.00	0.00	CMS
Runoff	38.42	66.97	25.19	55.18	69.25	483.69	1970.97	770.05	43.20	12.48	6.83	8.50	3550.74	MCM
Momentary Peak	1234.00	CMS, at 163.22 m. (MSL.), at 06.00 Hours, on Oct 3, 2021												
Runoff Yield	10.29	Liters/Second/Square KM.		Momentary Peak Yield		112.78	Liters/Second/Square KM.							

## WATER YEAR : 2021

## CHI RIVER BASIN

Chi River at Ban Tha Sa Baeng , Roi Et (E.18)

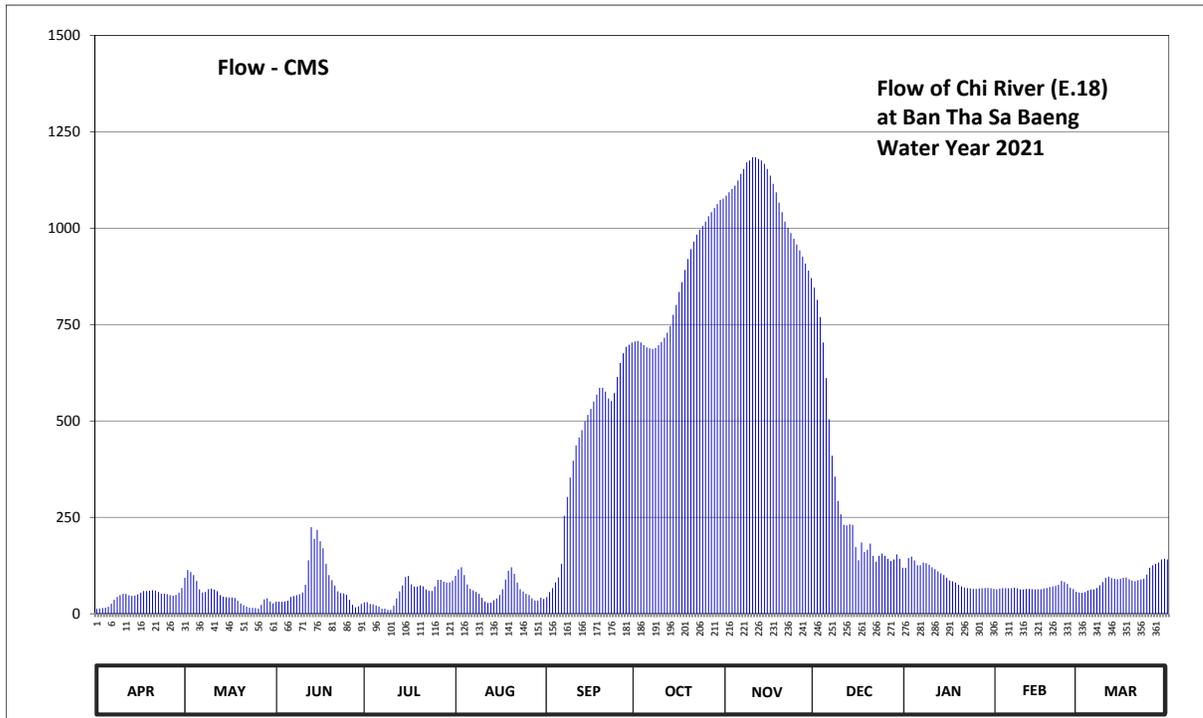
Lat 16 - 02 - 03 N Long 103 - 54 - 25 E

Location : on right bank at Ban Tha Sa Bang.

	<b>Ban</b>	<b>Tha Sa Baeng</b>	<b>Amphoe</b>	<b>Thung Khao Luang</b>	<b>Changwat</b>	<b>Roi Et</b>
<b>Drainage Area</b>	41,347 sq.km.					
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+122.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+132.496 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1974 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1974 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +132.330 m.(MSL.) record are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.34	125.47	124.04	123.99	125.52	124.39	129.93	132.21	130.90	125.71	125.01	124.75	
2	123.37	125.66	124.04	124.00	125.67	124.79	129.94	132.23	130.68	125.87	125.04	124.74	
3	123.41	125.61	124.03	123.82	125.72	125.07	129.91	132.25	130.37	125.89	125.07	124.79	
4	123.45	125.54	124.05	123.78	125.54	125.32	129.86	132.27	129.91	125.84	125.07	124.91	
5	123.54	125.37	124.11	123.67	125.23	125.48	129.82	132.30	129.25	125.76	125.06	124.99	
6	123.84	125.00	124.42	123.56	125.03	125.79	129.80	132.34	128.44	125.76	125.07	125.00	
7	124.19	124.76	124.48	123.36	124.93	126.39	129.79	132.37	127.70	125.81	125.09	125.08	
8	124.42	124.80	124.55	123.36	124.80	126.83	129.81	132.41	127.27	125.80	125.06	125.20	
9	124.55	125.02	124.63	123.23	124.65	127.25	129.86	132.42	126.74	125.77	125.00	125.33	
10	124.65	125.04	124.76	123.23	124.34	127.60	129.92	132.44	126.43	125.72	125.00	125.47	
11	124.65	124.99	125.22	123.66	124.05	127.91	130.00	132.44	126.15	125.68	125.03	125.50	
12	124.54	124.87	125.84	124.29	123.92	128.07	130.09	132.43	126.14	125.63	125.03	125.46	
13	124.49	124.55	126.17	124.85	123.94	128.22	130.21	132.42	126.17	125.58	125.01	125.44	
14	124.52	124.43	126.08	125.19	124.15	128.40	130.41	132.40	126.15	125.54	125.00	125.43	
15	124.61	124.39	126.15	125.49	124.29	128.53	130.59	132.37	126.01	125.47	125.01	125.44	
16	124.75	124.37	126.06	125.52	124.56	128.65	130.82	132.33	125.84	125.39	125.01	125.47	
17	124.88	124.37	126.00	125.24	125.01	128.80	131.00	132.28	126.05	125.36	125.05	125.48	
18	124.88	124.33	125.79	125.14	125.42	128.94	131.21	132.23	125.95	125.31	125.08	125.43	
19	124.90	124.10	125.54	125.14	125.64	129.07	131.40	132.16	125.98	125.22	125.12	125.39	
20	124.94	123.86	125.40	125.19	125.72	129.07	131.57	132.09	126.04	125.15	125.15	125.36	
21	124.91	123.69	125.18	125.15	125.57	129.00	131.70	132.02	125.90	125.10	125.17	125.40	
22	124.80	123.54	124.85	125.00	125.31	128.86	131.82	131.94	125.82	125.07	125.22	125.42	
23	124.67	123.45	124.71	124.89	125.01	128.81	131.91	131.85	125.90	125.05	125.37	125.44	
24	124.66	123.43	124.69	124.88	124.84	128.97	131.97	131.75	125.93	125.03	125.33	125.55	
25	124.63	123.42	124.58	125.15	124.67	129.27	132.02	131.65	125.90	125.03	125.25	125.71	
26	124.55	123.35	124.19	125.41	124.56	129.53	132.06	131.55	125.86	125.05	125.09	125.76	
27	124.52	123.73	123.74	125.41	124.30	129.71	132.09	131.44	125.83	125.06	125.02	125.79	
28	124.58	124.21	123.48	125.34	124.13	129.83	132.12	131.32	125.85	125.08	124.82	125.81	
29	124.74	124.30	123.57	125.31	124.13	129.87	132.15	131.20	125.92	125.08		125.85	
30	125.08	124.05	123.83	125.32	124.35	129.91	132.18	131.07	125.86	125.06		125.86	
31		123.87		125.39	124.25		132.19		125.71	125.03		125.85	
Mean	124.44	124.44	124.81	124.61	124.81	127.94	130.91	132.07	126.86	125.42	125.08	125.39	
Max	125.08	125.66	126.17	125.52	125.72	129.91	132.19	132.44	130.90	125.89	125.37	125.86	132.44
Min	123.34	123.35	123.48	123.23	123.92	124.39	129.79	131.07	125.71	125.03	124.82	124.74	123.23
Annual Max Momentary Gage Height	132.44		m. (MSL.) ,				at 10.00 Hours, on Nov 10, 2021						
Zero Gage at Bottom Elevation	122.20		m. (MSL.) ,			River Bed	121.90	m. (MSL.)					
Left Bank Elevation		133.80		m. (MSL.) ,									
Right Bank Elevation		132.32		m. (MSL.) ,		Drainage Are	41,347	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.84	93.30	31.32	29.74	98.20	42.87	706.20	1084.34	845.60	119.30	63.50	54.75		
2	13.62	113.60	31.32	30.00	114.70	56.07	707.60	1093.00	813.92	144.30	65.00	54.42		
3	14.66	108.10	30.99	25.32	120.60	66.50	703.40	1101.67	769.28	148.10	66.50	56.07		
4	15.70	100.40	31.65	24.28	100.40	81.40	696.40	1110.33	703.40	138.60	66.50	60.03		
5	18.04	84.90	33.63	21.42	75.80	94.20	690.80	1123.33	611.00	125.80	66.00	62.67		
6	25.84	63.00	43.86	18.56	64.50	129.70	688.00	1140.67	504.32	125.80	66.50	63.00		
7	36.27	55.08	45.84	13.36	60.69	254.00	686.60	1153.67	409.60	132.90	67.50	67.00		
8	43.86	56.40	48.15	13.36	56.40	302.62	689.40	1171.00	355.48	131.00	66.00	74.00		
9	48.15	64.00	50.79	9.98	51.45	353.00	696.40	1175.33	292.36	127.10	63.00	82.10		
10	51.45	65.00	55.08	9.98	41.22	396.80	704.80	1184.00	258.00	120.60	63.00	93.30		
11	51.45	62.67	75.20	21.16	31.65	436.48	716.00	1184.00	230.00	115.80	64.50	96.00		
12	47.82	58.71	138.60	39.57	27.92	456.96	728.96	1179.67	229.00	110.30	64.50	92.40		
13	46.17	48.15	224.50	58.05	28.44	476.16	746.24	1175.33	232.00	104.80	63.50	90.60		
14	47.16	44.19	194.00	73.40	34.95	499.20	775.04	1166.67	230.00	100.40	63.00	89.70		
15	50.13	42.87	217.50	95.10	39.57	515.84	800.96	1153.67	173.00	93.30	63.50	90.60		
16	54.75	42.21	188.00	98.20	48.48	531.20	834.08	1136.33	138.60	86.30	63.50	93.30		
17	59.04	42.21	170.00	76.40	63.50	550.40	860.00	1114.67	185.00	84.20	65.50	94.20		
18	59.04	40.89	129.70	70.40	88.80	568.32	891.50	1093.00	160.00	80.70	67.00	89.70		
19	59.70	33.30	100.40	70.40	111.40	585.80	920.00	1066.00	166.00	75.20	69.20	86.30		
20	61.02	26.36	87.00	73.40	120.60	585.80	945.50	1041.50	182.00	71.00	71.00	84.20		
21	60.03	21.94	72.80	71.00	103.70	576.00	965.00	1017.00	150.00	68.00	72.20	87.00		
22	56.40	18.04	58.05	63.00	80.70	558.08	983.00	1001.00	134.80	66.50	75.20	88.80		
23	52.11	15.70	53.43	59.37	63.50	551.68	996.50	987.50	150.00	65.50	84.90	90.60		
24	51.78	15.18	52.77	59.04	57.72	572.16	1005.50	972.50	156.00	64.50	82.10	101.50		
25	50.79	14.92	49.14	71.00	52.11	613.80	1017.00	957.50	150.00	64.50	77.00	119.30		
26	48.15	13.10	36.27	87.90	48.48	650.20	1031.00	942.50	142.40	65.50	67.50	125.80		
27	47.16	22.98	23.24	87.90	39.90	675.40	1041.50	926.00	136.70	66.00	64.00	129.70		
28	49.14	36.93	16.48	82.80	34.29	692.20	1052.00	908.00	140.50	67.00	57.06	132.90		
29	54.42	39.90	18.82	80.70	34.29	697.80	1062.50	890.00	154.00	67.00		140.50		
30	67.00	31.65	25.58	81.40	41.55	703.40	1073.00	870.50	142.40	66.00		142.40		
31		26.62		86.30	38.25		1076.50		119.30	64.50		140.50		
<b>Total</b>	1353.69	1502.30	2334.11	1702.49	1973.76	13274.04	26491.38	32120.68	9064.66	2960.50	1888.66	2873.34	97539.61	CMSDAY
<b>Mean</b>	45.12	48.46	77.80	54.92	63.67	442.47	854.56	1070.69	292.41	95.50	67.45	92.69	267.23	CMS
<b>Max</b>	67.00	113.60	224.50	98.20	120.60	703.40	1076.50	1184.00	845.60	148.10	84.90	142.40	1184.00	CMS
<b>Min</b>	12.84	13.10	16.48	9.98	27.92	42.87	686.60	870.50	119.30	64.50	57.06	54.42	9.98	CMS
<b>Runoff</b>	116.94	129.80	201.67	147.10	170.53	1146.88	2288.86	2775.23	783.19	255.79	163.18	248.26	8427.42	MCM
<b>Momentary Peak</b>	1184.00	CMS, at 132.44 m. (MSL.), at 10.00 Hours, on Nov 10, 2021												
<b>Runoff Yield</b>	6.46	Liters/Second/Square KM.			Momentary Peak Yield		28.64	Liters/Second/Square KM.						

**WATER YEAR : 2021****CHI RIVER BASIN****Chi River at Ban Maha Chana Chai , Yasothon (E.20A)**

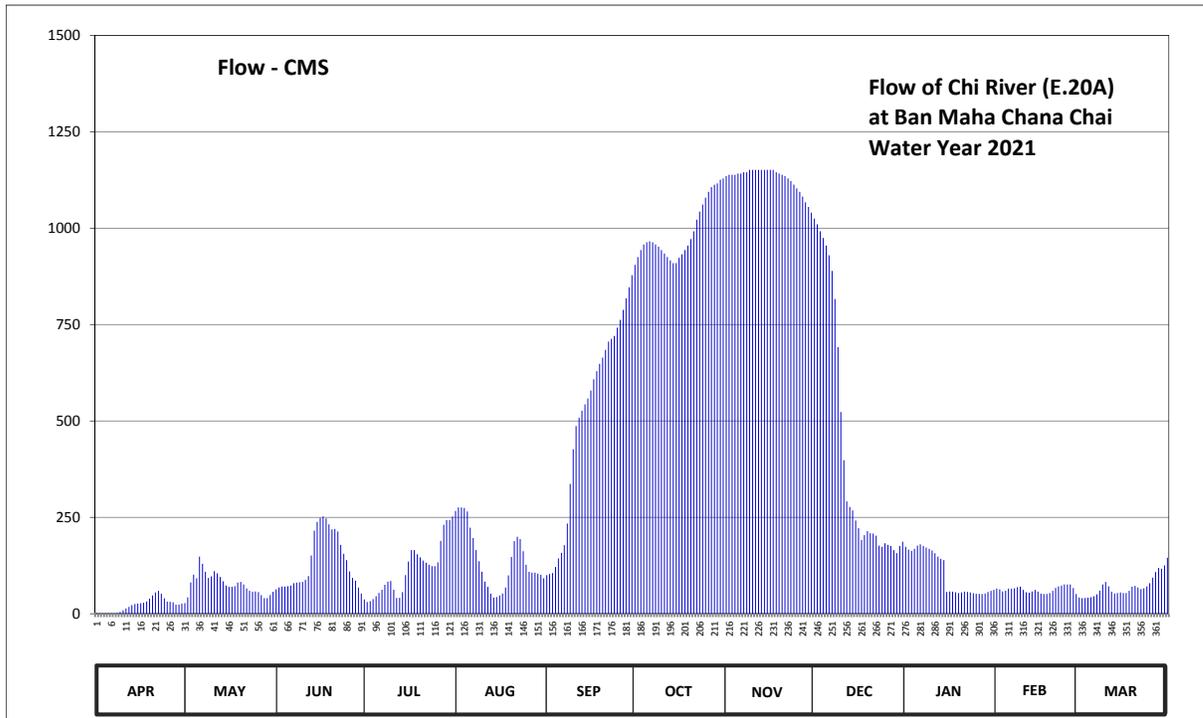
Lat 15 - 31 - 29 N Long 104 - 14 - 59 E

Location : on right bank about 800 meters upstream from E.20 station.

	<b>Ban</b>	<b>Maha Chana Chai</b>	<b>Amphoe</b>	<b>Maha Chana Chai</b>	<b>Changwat</b>	<b>Yasothon</b>
<b>Drainage Area</b>	47,923	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+112.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+127.219 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1973 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1974 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1974 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +119.370 m.(MSL.) record are channel flow only.					
<b>General Description</b>	Records good. Tat Noi barrage situated downstream from the gage site. Stage-discharge relation defined by 41 discharge measurements made in 2021.					

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.45	115.59	115.39	115.02	117.45	115.84	121.29	122.11	121.75	116.63	116.35	115.98	
2	114.41	115.99	115.45	114.91	117.52	115.87	121.38	122.12	121.70	116.56	116.33	115.93	
3	114.39	116.51	115.48	114.94	117.52	115.90	121.46	122.12	121.64	116.53	116.27	115.95	
4	114.42	116.66	115.48	115.03	117.51	116.08	121.52	122.12	121.58	116.58	116.30	115.97	
5	114.41	116.60	115.49	115.15	117.44	116.32	121.54	122.13	121.51	116.66	116.35	116.00	
6	114.40	116.37	115.51	115.27	117.10	116.48	121.55	122.13	121.40	116.69	116.35	116.05	
7	114.39	116.17	115.59	115.38	116.85	116.67	121.54	122.14	121.22	116.65	116.36	116.15	
8	114.45	115.94	115.61	115.54	116.55	117.20	121.52	122.14	120.88	116.61	116.39	116.30	
9	114.62	115.75	115.62	115.64	116.24	117.99	121.50	122.16	120.23	116.58	116.40	116.46	
10	114.85	115.80	115.63	115.66	115.94	118.63	121.46	122.16	119.26	116.54	116.32	116.52	
11	115.07	115.96	115.69	115.38	115.64	119.04	121.42	122.16	118.43	116.47	116.24	116.41	
12	115.26	115.89	115.81	115.08	115.47	119.17	121.38	122.16	117.64	116.37	116.22	116.26	
13	115.41	115.78	116.40	115.09	115.24	119.28	121.34	122.16	117.53	116.31	116.27	116.19	
14	115.50	115.65	117.03	115.30	115.10	119.38	121.31	122.16	117.46	116.27	116.32	116.21	
15	115.54	115.51	117.23	115.84	115.12	119.47	121.31	122.16	117.26	116.25	116.26	116.23	
16	115.57	115.47	117.31	116.23	115.18	119.59	121.37	122.16	117.09	116.27	116.18	116.21	
17	115.62	115.47	117.34	116.55	115.25	119.76	121.41	122.16	116.80	116.26	116.16	116.21	
18	115.72	115.49	117.30	116.55	115.45	119.88	121.46	122.14	116.92	116.24	116.16	116.29	
19	115.90	115.61	117.18	116.44	115.83	119.99	121.51	122.13	117.02	116.21	116.21	116.40	
20	116.09	115.63	117.06	116.35	116.36	120.08	121.57	122.12	116.97	116.23	116.29	116.42	
21	116.23	115.55	117.07	116.26	116.77	120.19	121.64	122.11	116.96	116.26	116.37	116.38	
22	116.29	115.42	117.01	116.20	116.88	120.31	121.74	122.09	116.91	116.25	116.41	116.34	
23	116.18	115.34	116.68	116.14	116.82	120.35	121.81	122.07	116.66	116.23	116.43	116.36	
24	115.92	115.31	116.45	116.10	116.52	120.39	121.87	122.04	116.63	116.20	116.46	116.41	
25	115.71	115.32	116.27	116.10	116.14	120.51	121.93	122.01	116.72	116.18	116.46	116.49	
26	115.70	115.30	115.95	116.21	115.94	120.61	121.98	121.98	116.68	116.17	116.46	116.61	
27	115.66	115.19	115.75	116.78	115.91	120.74	122.02	121.94	116.65	116.16	116.37	116.70	
28	115.45	115.07	115.67	117.17	115.91	120.89	122.04	121.89	116.55	116.19	116.16	116.75	
29	115.47	115.07	115.45	117.27	115.88	121.03	122.05	121.85	116.47	116.25	116.46	116.74	
30	115.55	115.19	115.25	117.27	115.85	121.17	122.08	121.80	116.65	116.29	116.46	116.78	
31		115.31		117.34	115.74		122.09		116.76	116.32		116.85	
Mean	115.29	115.67	116.17	115.94	116.23	118.96	121.62	122.09	118.32	116.37	116.32	116.34	
Max	116.29	116.66	117.34	117.34	117.52	121.17	122.09	122.16	121.75	116.69	116.46	116.85	122.16
Min	114.39	115.07	115.25	114.91	115.10	115.84	121.29	121.80	116.47	116.16	116.16	115.93	114.39
Annual Max Momentary Gage Height	122.16		m. (MSL.) ,				at 10.00 Hours, on Nov 9, 2021						
Zero Gage at Bottom Elevation	112.00		m. (MSL.) ,			River Bed	109.85	m. (MSL.)					
Left Bank Elevation		119.36		m. (MSL.) ,									
Right Bank Elevation		120.37		m. (MSL.) ,		Drainage Are	47,923	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.50	27.70	63.20	37.20	266.50	100.40	904.96	1135.20	1025.00	173.52	65.00	42.20		
2	1.10	42.60	68.00	30.60	275.60	102.95	925.12	1138.40	1010.00	166.24	63.00	40.20		
3	0.90	81.20	70.40	32.40	275.60	105.50	943.04	1138.40	992.00	163.12	57.90	41.00		
4	1.20	101.60	70.40	37.80	274.30	121.36	957.60	1138.40	974.40	168.32	60.00	41.80		
5	1.10	92.00	71.20	45.50	265.20	143.44	963.20	1141.60	954.80	176.64	65.00	43.00		
6	1.00	148.04	72.80	53.90	223.00	158.16	966.00	1141.60	929.60	179.76	65.00	45.50		
7	0.90	129.64	79.20	62.40	196.40	177.68	963.20	1144.80	889.28	175.60	66.00	50.50		
8	1.50	108.90	80.85	75.20	165.20	234.00	957.60	1144.80	816.00	171.44	69.00	60.00		
9	4.40	92.75	81.70	83.40	136.08	336.70	952.00	1151.20	691.40	168.32	70.00	76.00		
10	9.00	97.00	82.55	85.10	108.90	426.72	943.04	1151.20	523.16	164.16	62.00	82.40		
11	13.40	110.60	87.65	62.40	83.40	486.64	934.08	1151.20	398.20	157.24	55.80	71.00		
12	17.80	104.65	97.85	40.80	69.60	508.22	925.12	1151.20	291.20	148.04	54.40	57.20		
13	22.30	95.30	150.80	41.40	51.80	526.48	916.16	1151.20	276.90	142.52	57.90	52.50		
14	25.00	84.25	215.30	56.00	42.00	543.08	909.44	1151.20	267.80	138.84	62.00	53.70		
15	26.20	72.80	237.90	100.40	43.40	558.02	909.44	1151.20	241.80	56.50	57.20	55.10		
16	27.10	69.60	248.30	135.16	47.60	578.66	922.88	1151.20	221.90	57.90	52.00	53.70		
17	28.60	69.60	252.20	165.20	52.50	608.24	931.84	1151.20	191.20	57.20	51.00	53.70		
18	31.80	71.20	247.00	165.20	68.00	629.12	943.04	1144.80	203.68	55.80	51.00	59.30		
19	39.00	80.85	231.80	154.48	99.55	648.26	954.80	1141.60	214.20	53.70	53.70	70.00		
20	47.50	82.55	218.60	146.20	147.12	664.40	971.60	1138.40	208.88	55.10	59.30	72.00		
21	55.10	76.00	219.70	137.92	188.08	684.20	992.00	1135.20	207.84	57.20	67.00	68.00		
22	59.30	65.60	213.10	132.40	199.52	705.80	1022.00	1128.80	202.64	56.50	71.00	64.00		
23	52.00	59.20	178.72	126.88	193.28	713.00	1043.00	1122.40	176.64	55.10	73.00	66.00		
24	39.80	56.80	155.40	123.20	162.08	720.20	1061.00	1112.80	173.52	53.00	76.00	71.00		
25	31.40	57.60	138.84	123.20	126.88	742.00	1079.00	1103.20	182.88	52.00	76.00	79.00		
26	31.00	56.00	109.75	133.32	108.90	762.00	1094.00	1094.00	178.72	51.50	76.00	93.60		
27	29.80	48.30	92.75	189.12	106.35	788.00	1106.40	1082.00	175.60	51.00	67.00	108.00		
28	23.50	40.20	85.95	230.70	106.35	818.00	1112.80	1067.00	165.20	52.50	51.00	119.00		
29	24.10	40.20	68.00	243.10	103.80	846.72	1116.00	1055.00	157.24	56.50		116.80		
30	26.50	48.30	52.50	243.10	101.25	878.08	1125.60	1040.00	175.60	59.30		125.60		
31		56.80		252.20	91.90		1128.80		187.04	62.00		145.00		
Total	673.80	2367.83	4042.41	3545.88	4380.14	15316.03	30674.76	33849.20	13304.32	3236.56	1754.20	2176.80	115321.93	CMSDAY
Mean	22.46	76.38	134.75	114.38	141.29	510.53	989.51	1128.31	429.17	104.41	62.65	70.22	315.95	CMS
Max	59.30	148.04	252.20	252.20	275.60	878.08	1128.80	1151.20	1025.00	179.76	76.00	145.00	1151.20	CMS
Min	0.90	27.70	52.50	30.60	42.00	100.40	904.96	1040.00	157.24	51.00	51.00	40.20	0.90	CMS
Runoff	58.22	204.58	349.26	306.36	378.44	1323.30	2650.30	2924.57	1149.49	279.64	151.56	188.08	9963.81	MCM
Momentary Peak	1151.20	CMS, at 122.16 m. (MSL.), at 10.00 Hours, on Nov 9, 2021												
Runoff Yield	6.59	Liters/Second/Square KM.			Momentary Peak Yield	24.02	Liters/Second/Square KM.							

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Kaeng Ko , Chaiyaphum (E.21)

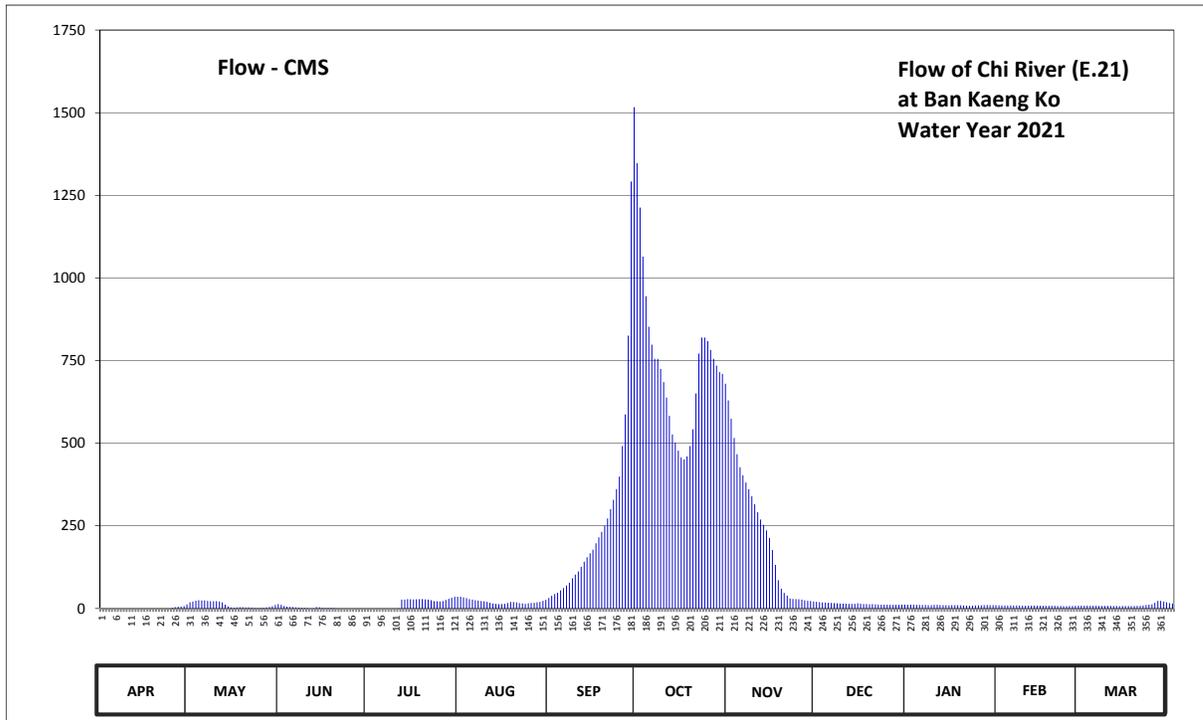
Lat 15 - 45 - 11 N Long 102 - 15 - 11 E

Location : on left bank about 75 meters upstream from the bridge on highway.

	<b>Ban Kaeng Ko</b>	<b>Amphoe Mueang</b>	<b>Changwat Chaiyaphum</b>
<b>Drainage Area</b>	8,844 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+163.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	In front of the automatic gage buiding.	<b>Elevation</b>	+165.411 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1955 - 1957 , 1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1968 - 1971 , 1973 - 1974 , 1982 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1968 - 1971 , 1973 - 1974 , 1982 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +175.330 m.(MSL.) record are channel flow only.		
<b>General Description</b>	Records fair. The rubber weir situated about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 41 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	166.00	168.02	167.65	166.03	168.87	169.03	175.24	174.21	168.05	167.66	167.56	167.52	
2	166.06	168.15	167.48	165.93	168.78	169.28	175.07	174.06	168.01	167.66	167.55	167.52	
3	166.07	168.28	167.34	165.84	168.65	169.48	174.92	173.92	167.99	167.64	167.54	167.51	
4	166.05	168.35	167.29	165.74	168.52	169.78	174.78	173.79	167.97	167.64	167.56	167.50	
5	166.06	168.33	167.20	165.67	168.45	170.04	174.68	173.69	167.94	167.62	167.56	167.50	
6	166.06	168.31	167.13	165.61	168.34	170.23	174.60	173.58	167.91	167.62	167.56	167.49	
7	166.07	168.25	167.07	165.52	168.30	170.44	174.60	173.48	167.89	167.60	167.55	167.49	
8	166.07	168.20	167.03	165.39	168.22	170.69	174.54	173.36	167.83	167.60	167.53	167.48	
9	166.07	168.20	166.98	165.29	168.18	170.87	174.46	173.20	167.84	167.65	167.51	167.48	
10	166.07	168.19	166.90	165.21	168.10	171.03	174.36	173.04	167.81	167.64	167.52	167.48	
11	166.08	168.15	166.75	166.88	167.97	171.23	174.23	172.87	167.78	167.63	167.51	167.47	
12	166.08	168.01	166.82	168.44	167.83	171.45	174.09	172.73	167.78	167.61	167.52	167.47	
13	166.09	167.67	167.20	168.43	167.78	171.64	174.02	172.56	167.79	167.60	167.51	167.46	
14	166.09	167.40	167.15	168.52	167.75	171.81	173.95	172.33	167.88	167.58	167.51	167.47	
15	166.08	167.11	167.05	168.50	167.76	171.97	173.89	171.96	167.81	167.59	167.50	167.48	
16	166.07	167.02	166.95	168.47	167.79	172.17	173.87	171.31	167.77	167.59	167.51	167.48	
17	166.05	167.11	166.99	168.48	167.94	172.35	173.90	170.59	167.76	167.60	167.50	167.49	
18	166.02	167.19	167.04	168.51	168.09	172.52	173.99	169.98	167.71	167.58	167.51	167.49	
19	166.00	167.18	167.00	168.51	168.08	172.70	174.13	169.46	167.76	167.56	167.50	167.50	
20	166.04	167.14	166.81	168.46	168.02	172.90	174.39	169.04	167.72	167.52	167.48	167.51	
21	166.09	167.12	166.68	168.44	167.92	173.10	174.63	168.62	167.70	167.50	167.47	167.55	
22	166.16	167.07	166.57	168.34	167.86	173.29	174.72	168.54	167.68	167.52	167.46	167.63	
23	166.31	166.99	166.51	168.21	167.80	173.48	174.72	168.52	167.67	167.56	167.46	167.67	
24	166.56	166.94	166.51	168.17	167.88	173.67	174.70	168.49	167.66	167.58	167.47	167.73	
25	167.02	166.96	166.47	168.16	167.94	173.99	174.65	168.43	167.65	167.58	167.49	167.95	
26	167.24	167.05	166.39	168.23	167.95	174.24	174.60	168.33	167.65	167.60	167.51	168.24	
27	167.30	167.13	166.34	168.40	168.02	174.73	174.56	168.24	167.65	167.62	167.52	168.25	
28	167.34	167.26	166.27	168.56	168.09	175.32	174.52	168.23	167.65	167.61	167.53	168.15	
29	167.45	167.42	166.19	168.73	168.24	175.51	174.51	168.15	167.68	167.60		168.04	
30	167.73	167.63	166.10	168.88	168.40	175.37	174.45	168.10	167.66	167.59		167.92	
31		167.74		168.88	168.67		174.34		167.64	167.57		167.85	
Mean	166.35	167.60	166.86	167.50	168.14	172.14	174.46	171.09	167.78	167.60	167.51	167.64	
Max	167.73	168.35	167.65	168.88	168.87	175.51	175.24	174.21	168.05	167.66	167.56	168.25	175.51
Min	166.00	166.94	166.10	165.21	167.75	169.03	173.87	168.10	167.64	167.50	167.46	167.46	165.21
Annual Max Momentary Gage Height	175.57		m. (MSL.) ,				at 23.00 Hours, on Sep 28, 2021						
Zero Gage at Bottom Elevation	163.00		m. (MSL.) ,			River Bed	165.41	m. (MSL.)					
Left Bank Elevation		175.32		m. (MSL.) ,									
Right Bank Elevation		175.91		m. (MSL.) ,		Drainage Are	8,844	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	18.40	11.00	0.00	35.40	38.60	1213.00	574.25	19.00	11.20	9.20	8.40		
2	0.00	21.00	7.60	0.00	33.60	43.60	1064.50	516.00	18.20	11.20	9.00	8.40		
3	0.00	23.60	5.40	0.00	31.00	47.60	945.00	467.00	17.80	10.80	8.80	8.20		
4	0.00	25.00	4.90	0.00	28.40	54.72	852.20	427.50	17.40	10.80	9.20	8.00		
5	0.00	24.60	4.00	0.00	27.00	61.60	798.20	403.00	16.80	10.40	9.20	8.00		
6	0.00	24.20	3.30	0.00	24.80	69.20	755.00	381.00	16.20	10.40	9.20	7.80		
7	0.00	23.00	2.70	0.00	24.00	77.60	755.00	361.00	15.80	10.00	9.00	7.80		
8	0.00	22.00	2.30	0.00	22.40	91.40	725.00	339.00	14.60	10.00	8.60	7.60		
9	0.00	22.00	1.80	0.00	21.60	102.20	685.00	315.00	14.80	11.00	8.20	7.60		
10	0.00	21.80	1.00	0.00	20.00	112.10	638.00	291.00	14.20	10.80	8.40	7.60		
11	0.00	21.00	0.00	0.80	17.40	126.10	582.75	268.75	13.60	10.60	8.20	7.40		
12	0.00	18.20	0.20	26.80	14.60	141.50	526.50	253.00	13.60	10.20	8.40	7.40		
13	0.00	11.40	4.00	26.60	13.60	154.80	502.00	236.00	13.80	10.00	8.20	7.20		
14	0.00	6.00	3.50	28.40	13.00	166.70	477.50	213.00	15.60	9.60	8.20	7.40		
15	0.00	3.10	2.50	28.00	13.20	177.90	457.00	177.20	14.20	9.80	8.00	7.60		
16	0.00	2.20	1.50	27.40	13.80	197.00	451.00	131.70	13.40	9.80	8.20	7.60		
17	0.00	3.10	1.90	27.60	16.80	215.00	460.00	85.40	13.20	10.00	8.00	7.80		
18	0.00	3.90	2.40	28.20	19.80	232.00	491.50	59.52	12.20	9.60	8.20	7.80		
19	0.00	3.80	2.00	28.20	19.60	250.00	542.00	47.20	13.20	9.20	8.00	8.00		
20	0.00	3.40	0.10	27.20	18.40	272.50	650.75	38.80	12.40	8.40	7.60	8.20		
21	0.00	3.20	0.00	26.80	16.40	300.00	771.20	30.40	12.00	8.00	7.40	9.00		
22	0.00	2.70	0.00	24.80	15.20	328.50	819.80	28.80	11.60	8.40	7.20	10.60		
23	0.00	1.90	0.00	22.20	14.00	361.00	819.80	28.40	11.40	9.20	7.20	11.40		
24	0.00	1.40	0.00	21.40	15.60	399.00	809.00	27.80	11.20	9.60	7.40	12.60		
25	2.20	1.60	0.00	21.20	16.80	491.50	782.00	26.60	11.00	9.60	7.80	17.00		
26	4.40	2.50	0.00	22.60	17.00	587.00	755.00	24.60	11.00	10.00	8.20	22.80		
27	5.00	3.30	0.00	26.00	18.40	825.20	735.00	22.80	11.00	10.40	8.40	23.00		
28	5.40	4.60	0.00	29.20	19.80	1292.00	715.00	22.60	11.00	10.20	8.60	21.00		
29	7.00	6.40	0.00	32.60	22.80	1516.70	710.00	21.00	11.60	10.00		18.80		
30	12.60	10.60	0.00	35.60	26.00	1347.00	680.00	20.00	11.20	9.80		16.40		
31		12.80		35.60	31.40		629.50		10.80	9.40		15.00		
Total	36.60	352.70	62.10	547.20	641.80	10080.02	21798.20	5838.32	423.80	308.40	232.00	333.40	40654.54	CMSDAY
Mean	1.22	11.38	2.07	17.65	20.70	336.00	703.17	194.61	13.67	9.95	8.29	10.75	111.38	CMS
Max	12.60	25.00	11.00	35.60	35.40	1516.70	1213.00	574.25	19.00	11.20	9.20	23.00	1516.70	CMS
Min	0.00	1.40	0.00	0.00	13.00	38.60	451.00	20.00	10.80	8.00	7.20	7.20	0.00	CMS
Runoff	3.16	30.47	5.37	47.28	55.45	870.91	1883.36	504.43	36.62	26.65	20.04	28.81	3512.55	MCM
Momentary Peak	1616.90	CMS, at 175.57 m. (MSL.), at 23.00 Hours, on Sep 28, 2021												
Runoff Yield	12.59	Liters/Second/Square KM.		Momentary Peak Yield		182.82	Liters/Second/Square KM.							

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Nam Phong at Ban Tha Mao , Khon Kaen (E.22B)

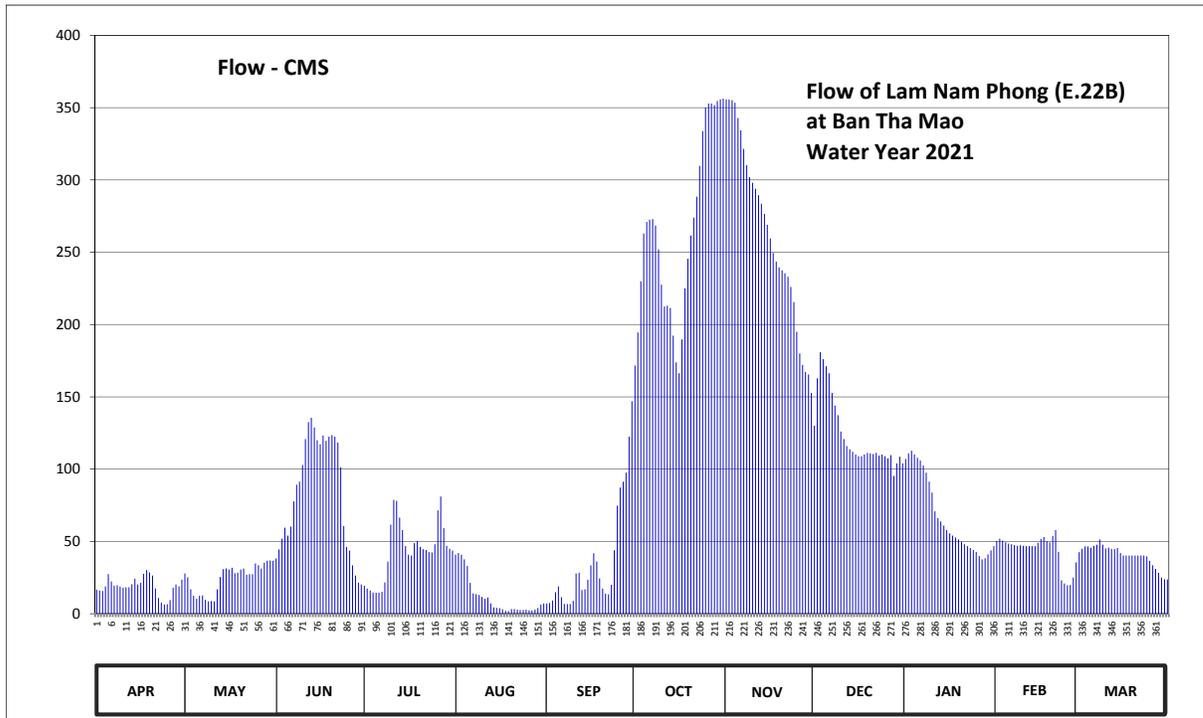
Lat 16 - 39 - 16 N Long 102 - 49 - 25 E

Location : on right bank at Ban Tha Mao.

	<b>Ban</b>	<b>Tha</b>	<b>Mao</b>	<b>Amphoe</b>	<b>Nam</b>	<b>Phong</b>	<b>Changwat</b>	<b>Khon</b>	<b>Kaen</b>	
<b>Drainage Area</b>	13,617 sq.km.									
<b>Type of Gage</b>	Water - stage recorder.									
<b>Zero Gage at Bottom</b>	+150.900 m. (MSL.)									
<b>Bench Mark</b>	B.M.- Highways Dept.									
<b>Location BM</b>	On left bank at the footpath of the bridge.						<b>Elevation</b>	+163.911 m. (MSL.)		
<b>Gage Reading Frequency</b>	Recording									
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings									
<b>Period of Available Gage Records</b>	1965 to date									
<b>Rating Operation</b>										
<b>Period of Rating</b>	1966 - 1972 , 1982 - 1987 , 1992 to date									
<b>Rated by Float</b>	-									
<b>Rated by Current Meter</b>	1966 - 1972 , 1982 - 1987 , 1992 to date									
<b>Stability of Channel Regimes</b>	Fairly stable.									
<b>Overbank Flow Conditions</b>	No overbank flow.									
<b>General Description</b>	Records good. Flow regulated by Ubonrat Dam about 35 kilometers above gage site and Nong Wai weir situated about 5 kilometers above gage site. Stage-discharge relation defined by 40 discharge measurements made in 2021.									

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.09	152.69	153.16	152.24	153.26	151.50	156.90	160.53	155.95	155.37	153.63	153.33	
2	152.06	152.56	153.40	152.13	153.31	151.52	157.42	160.53	156.70	155.47	153.69	153.42	
3	152.04	152.11	153.69	152.06	153.26	151.63	158.14	160.52	157.11	155.52	153.64	153.48	
4	152.22	151.84	153.98	151.98	153.14	151.99	158.80	160.49	157.00	155.45	153.59	153.48	
5	152.67	151.71	153.77	151.97	152.95	152.22	158.96	160.30	156.89	155.39	153.56	153.45	
6	152.41	151.84	154.01	151.97	152.35	151.78	158.99	160.15	156.78	155.34	153.54	153.50	
7	152.25	151.85	154.55	152.01	151.94	151.48	159.00	159.92	156.47	155.25	153.52	153.53	
8	152.26	151.66	154.89	152.37	151.91	151.47	158.91	159.72	156.27	155.12	153.50	153.67	
9	152.21	151.60	154.95	153.08	151.87	151.47	158.58	159.57	156.12	154.95	153.51	153.53	
10	152.17	151.61	155.26	154.05	151.79	151.62	158.09	159.50	155.85	154.73	153.50	153.43	
11	152.18	151.60	155.72	154.58	151.71	152.69	157.79	159.42	155.72	154.34	153.49	153.45	
12	152.18	152.10	156.01	154.56	151.76	152.72	157.80	159.33	155.60	154.19	153.49	153.42	
13	152.30	152.57	156.08	154.20	151.51	152.08	157.77	159.21	155.54	154.12	153.49	153.41	
14	152.51	152.84	155.92	153.92	151.24	152.11	157.37	159.07	155.50	154.03	153.49	153.44	
15	152.29	152.87	155.70	153.49	151.21	152.47	156.95	158.92	155.45	153.92	153.58	153.31	
16	152.35	152.83	155.63	153.26	151.18	152.97	156.78	158.73	155.42	153.83	153.68	153.24	
17	152.68	152.89	155.78	153.24	151.11	153.30	157.31	158.53	155.42	153.77	153.73	153.24	
18	152.81	152.70	155.69	153.57	151.01	153.08	158.04	158.41	155.45	153.72	153.62	153.24	
19	152.73	152.72	155.76	153.63	150.99	152.52	158.45	158.33	155.48	153.67	153.59	153.24	
20	152.62	152.83	155.79	153.47	151.12	152.13	158.77	158.29	155.47	153.61	153.76	153.24	
21	152.14	152.86	155.76	153.41	151.13	151.93	159.02	158.25	155.46	153.54	153.92	153.24	
22	151.74	152.65	155.66	153.39	151.09	151.90	159.31	158.20	155.48	153.49	153.34	153.24	
23	151.54	152.67	155.22	153.33	151.06	152.28	159.71	158.06	155.43	153.44	152.45	153.24	
24	151.44	152.67	154.02	153.32	151.06	153.38	160.14	157.85	155.45	153.39	152.33	153.22	
25	151.46	153.03	153.47	153.54	151.08	154.46	160.43	157.43	155.42	153.34	152.26	153.10	
26	151.65	152.98	153.37	154.36	151.04	154.83	160.48	157.09	155.38	153.23	152.27	152.98	
27	152.16	152.86	152.97	154.65	151.03	154.95	160.48	156.91	155.44	153.14	152.55	152.85	
28	152.29	153.05	152.62	153.97	151.09	155.12	160.46	156.80	155.06	153.17	153.06	152.72	
29	152.22	153.10	152.36	153.50	151.19	155.76	160.51	156.76	155.29	153.27		152.55	
30	152.48	153.11	152.29	153.42	151.44	156.34	160.53	156.47	155.41	153.38		152.49	
31		153.10		153.37	151.51		160.54		155.29	153.49		152.48	
Mean	152.20	152.50	154.58	153.29	151.66	152.79	158.79	158.78	155.78	154.15	153.35	153.23	
Max	152.81	153.11	156.08	154.65	153.31	156.34	160.54	160.53	157.11	155.52	153.92	153.67	160.54
Min	151.44	151.60	152.29	151.97	150.99	151.47	156.78	156.47	155.06	153.14	152.26	152.48	150.99
Annual Max Momentary Gage Height	160.54		m. (MSL.) ,				at 08.00 Hours, on Oct 31, 2021						
Zero Gage at Bottom Elevation	150.90		m. (MSL.) ,			River Bed	152.31		m. (MSL.)				
Left Bank Elevation		163.50		m. (MSL.) ,									
Right Bank Elevation		163.48		m. (MSL.) ,		Drainage Are	13,617		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.62	27.80	38.16	19.32	40.76	7.00	171.60	355.68	130.00	107.06	50.38	42.58		
2	16.08	25.20	44.40	17.34	42.06	7.32	194.48	355.68	162.80	110.86	51.94	44.92		
3	15.72	16.98	51.94	16.08	40.76	9.08	230.00	355.12	180.84	112.80	50.64	46.48		
4	18.96	12.44	59.48	14.68	37.64	14.84	263.00	353.44	176.00	110.10	49.34	46.48		
5	27.40	10.36	54.02	14.52	33.00	18.96	271.00	342.80	171.16	107.82	48.56	45.70		
6	22.38	12.44	60.32	14.52	21.30	11.48	272.50	334.40	166.32	105.92	48.04	47.00		
7	19.50	12.60	77.70	15.18	14.04	6.80	273.00	321.52	152.68	102.50	47.52	47.78		
8	19.68	9.56	89.26	21.66	13.56	6.70	268.50	310.32	143.88	97.56	47.00	51.42		
9	18.78	8.60	91.30	36.08	12.92	6.70	252.00	301.92	137.28	91.30	47.26	47.78		
10	18.06	8.76	102.88	61.60	11.64	8.92	227.50	298.00	126.00	83.82	47.00	45.18		
11	18.24	8.60	120.80	78.72	10.36	27.80	212.50	294.00	120.80	70.88	46.74	45.70		
12	18.24	16.80	132.44	78.04	11.16	28.40	213.00	289.50	116.00	66.08	46.74	44.92		
13	20.40	25.40	135.52	66.40	7.16	16.44	211.50	283.50	113.60	63.84	46.74	44.66		
14	24.20	30.80	128.80	57.92	4.40	16.98	192.28	276.50	112.00	60.96	46.74	45.44		
15	20.22	31.40	120.00	46.74	4.10	23.46	173.80	269.00	110.10	57.92	49.08	42.06		
16	21.30	30.60	117.20	40.76	3.80	33.40	166.32	259.50	108.96	55.58	51.68	40.24		
17	27.60	31.80	123.20	40.24	3.10	41.80	189.64	249.50	108.96	54.02	52.98	40.24		
18	30.20	28.00	119.60	48.82	2.10	36.08	225.00	243.50	110.10	52.72	50.12	40.24		
19	28.60	28.40	122.40	50.38	1.90	24.40	245.50	239.50	111.24	51.42	49.34	40.24		
20	26.40	30.60	123.60	46.22	3.20	17.34	261.50	237.50	110.86	49.86	53.76	40.24		
21	17.52	31.20	122.40	44.66	3.30	13.88	274.00	235.50	110.48	48.04	57.92	40.24		
22	10.84	27.00	118.40	44.14	2.90	13.40	288.50	233.00	111.24	46.74	42.84	40.24		
23	7.64	27.40	101.36	42.58	2.60	20.04	309.76	226.00	109.34	45.44	23.10	40.24		
24	6.40	27.40	60.64	42.32	2.60	43.88	333.84	215.50	110.10	44.14	20.94	39.72		
25	6.60	34.78	46.22	48.04	2.80	74.72	350.08	194.92	108.96	42.84	19.68	36.60		
26	9.40	33.60	43.62	71.52	2.40	87.22	352.88	179.96	107.44	39.98	19.86	33.60		
27	17.88	31.20	33.40	81.10	2.30	91.30	352.88	172.04	109.72	37.64	25.00	31.00		
28	20.22	35.30	26.40	59.22	2.90	97.56	351.76	167.20	95.28	38.42	35.56	28.40		
29	18.96	36.60	21.48	47.00	3.90	122.40	354.56	165.44	104.02	41.02	25.00	25.00		
30	23.64	36.86	20.22	44.92	6.40	146.96	355.68	152.68	108.58	43.88	23.64	23.82		
31		36.60		43.62	7.16		356.24		104.02	46.74	23.64	23.64		
<b>Total</b>	<b>567.68</b>	<b>765.08</b>	<b>2507.16</b>	<b>1354.34</b>	<b>358.22</b>	<b>1075.26</b>	<b>8194.80</b>	<b>7913.12</b>	<b>3848.76</b>	<b>2087.90</b>	<b>1226.50</b>	<b>1251.80</b>	<b>31150.62</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>18.92</b>	<b>24.68</b>	<b>83.57</b>	<b>43.69</b>	<b>11.56</b>	<b>35.84</b>	<b>264.35</b>	<b>263.77</b>	<b>124.15</b>	<b>67.35</b>	<b>43.80</b>	<b>40.38</b>	<b>85.34</b>	<b>CMS</b>
<b>Max</b>	<b>30.20</b>	<b>36.86</b>	<b>135.52</b>	<b>81.10</b>	<b>42.06</b>	<b>146.96</b>	<b>356.24</b>	<b>355.68</b>	<b>180.84</b>	<b>112.80</b>	<b>57.92</b>	<b>51.42</b>	<b>356.24</b>	<b>CMS</b>
<b>Min</b>	<b>6.40</b>	<b>8.60</b>	<b>20.22</b>	<b>14.52</b>	<b>1.90</b>	<b>6.70</b>	<b>166.32</b>	<b>152.68</b>	<b>95.28</b>	<b>37.64</b>	<b>19.68</b>	<b>23.64</b>	<b>1.90</b>	<b>CMS</b>
<b>Runoff</b>	<b>49.05</b>	<b>66.10</b>	<b>216.62</b>	<b>117.01</b>	<b>30.95</b>	<b>92.90</b>	<b>708.03</b>	<b>683.69</b>	<b>332.53</b>	<b>180.39</b>	<b>105.97</b>	<b>108.16</b>	<b>2691.41</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>356.24</b>	<b>CMS, at 160.54 m. (MSL.), at 08.00 Hours, on Oct 31, 2021</b>												
<b>Runoff Yield</b>	<b>6.27</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>26.16</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## CHI RIVER BASIN

Chi River at Ban Khai , Chaiyaphum (E.23)

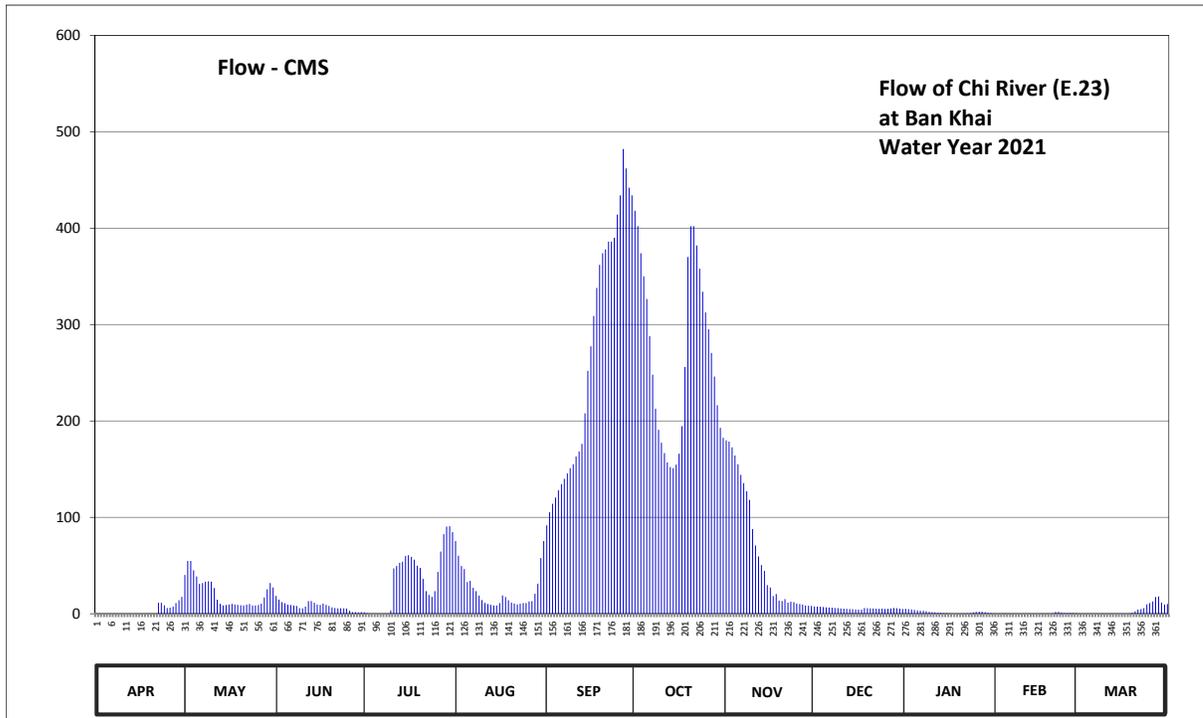
Lat 15 - 40 - 54 N Long 102 - 00 - 34 E

Location : on left bank at the bridge on highway.

	Ban Khai	Amphoe Mueang	Changwat Chaiyaphum
<b>Drainage Area</b>	6,297 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+176.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank about 20 meters from the automatic gage building.	<b>Elevation</b>	+187.454 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1954 - 1956 , 1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1968 - 1974 , 1982 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1968 - 1974 , 1982 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The local weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.92	181.57	180.76	179.75	182.51	182.88	185.62	184.58	180.28	180.11	179.49	179.54	
2	177.90	182.02	180.61	179.60	182.15	183.18	185.58	184.56	180.27	180.08	179.53	179.49	
3	177.91	182.02	180.50	179.45	181.86	183.37	185.51	184.46	180.26	180.04	179.56	179.45	
4	177.90	181.72	180.44	179.40	181.76	183.51	185.45	184.32	180.25	180.00	179.55	179.40	
5	177.92	181.52	180.37	179.08	181.31	183.66	185.39	184.17	180.23	179.94	179.52	179.33	
6	177.96	181.24	180.35	178.82	181.36	183.79	185.28	183.98	180.22	179.91	179.49	179.33	
7	177.98	181.27	180.33	179.07	181.09	183.90	185.14	183.81	180.21	179.92	179.45	179.42	
8	177.96	181.32	180.30	179.19	180.96	184.01	184.94	183.64	180.19	179.86	179.45	179.50	
9	177.93	181.34	180.17	179.22	180.77	184.10	184.73	183.46	180.17	179.79	179.45	179.53	
10	177.92	181.32	180.16	179.95	180.59	184.17	184.54	182.79	180.15	179.76	179.45	179.48	
11	177.93	181.08	180.27	181.78	180.46	184.30	184.36	182.40	180.13	179.74	179.45	179.46	
12	177.92	180.60	180.54	181.86	180.40	184.39	184.20	182.13	180.11	179.71	179.45	179.46	
13	177.92	180.41	180.55	181.96	180.36	184.52	184.12	181.89	180.10	179.68	179.45	179.49	
14	177.91	180.33	180.47	182.00	180.33	184.90	184.10	181.70	180.08	179.64	179.45	179.50	
15	177.93	180.35	180.38	182.14	180.33	185.16	184.16	181.19	180.05	179.60	179.45	179.47	
16	177.96	180.38	180.35	182.16	180.45	185.25	184.35	181.10	180.02	179.55	179.45	179.47	
17	177.98	180.41	180.43	182.12	180.78	185.34	184.78	180.75	180.02	179.50	179.43	179.47	
18	178.04	180.38	180.36	182.05	180.71	185.42	185.18	180.84	180.20	179.48	179.38	179.52	
19	178.15	180.36	180.30	181.87	180.58	185.48	185.50	180.57	180.18	179.52	179.40	179.68	
20	178.17	180.34	180.23	181.80	180.48	185.51	185.58	180.55	180.15	179.53	179.60	179.84	
21	178.88	180.33	180.20	181.43	180.43	185.52	185.58	180.63	180.14	179.52	179.80	180.03	
22	180.47	180.37	180.16	180.96	180.39	185.54	185.53	180.48	180.13	179.57	179.79	180.08	
23	180.47	180.40	180.17	180.80	180.42	185.54	185.47	180.52	180.11	179.64	179.73	180.17	
24	180.34	180.33	180.16	180.72	180.45	185.55	185.41	180.50	180.12	179.75	179.64	180.39	
25	180.19	180.33	180.15	180.96	180.45	185.61	185.35	180.43	180.10	179.80	179.63	180.45	
26	180.21	180.35	179.92	181.67	180.53	185.66	185.30	180.40	180.11	179.81	179.66	180.53	
27	180.27	180.42	179.77	182.25	180.54	185.78	185.23	180.38	180.14	179.81	179.64	180.71	
28	180.45	180.69	179.77	182.67	180.85	185.73	185.13	180.33	180.19	179.76	179.60	180.74	
29	180.58	181.03	179.73	182.85	181.25	185.68	184.97	180.31	180.17	179.70		180.48	
30	180.72	181.27	179.76	182.86	182.09	185.66	184.76	180.30	180.13	179.62		180.38	
31		181.10		182.72	182.51		184.62		180.10	179.54		180.40	
Mean	178.73	180.86	180.26	181.07	180.94	184.77	185.03	181.91	180.15	179.74	179.53	179.81	
Max	180.72	182.02	180.76	182.86	182.51	185.78	185.62	184.58	180.28	180.11	179.80	180.74	185.78
Min	177.90	180.33	179.73	178.82	180.33	182.88	184.10	180.30	180.02	179.48	179.38	179.33	177.90
Annual Max Momentary Gage Height	185.80												at 15.00 Hours, on Sep 27, 2021
Zero Gage at Bottom Elevation	176.20						177.04						m. (MSL.)
Left Bank Elevation		187.26											m. (MSL.)
Right Bank Elevation		185.93											m. (MSL.)
Drainage Area						6,297							Square Kilometers



Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	40.24	18.50	1.50	75.44	91.72	418.00	179.80	7.60	5.10	0.00	0.20		
2	0.00	54.84	14.75	0.50	60.30	105.28	402.00	178.60	7.40	4.80	0.15	0.00		
3	0.00	54.84	12.00	0.00	49.52	114.02	374.00	172.60	7.20	4.40	0.30	0.00		
4	0.00	45.04	10.80	0.00	46.32	120.50	350.00	164.20	7.00	4.00	0.25	0.00		
5	0.00	38.64	9.40	0.00	32.87	128.00	326.50	155.20	6.60	3.40	0.10	0.00		
6	0.00	30.98	9.00	0.00	34.22	134.50	288.00	144.00	6.40	3.10	0.00	0.00		
7	0.00	31.79	8.60	0.00	26.93	140.00	248.00	135.50	6.20	3.20	0.00	0.00		
8	0.00	33.14	8.00	0.00	23.50	145.60	212.80	127.00	5.90	2.60	0.00	0.00		
9	0.00	33.68	5.70	0.00	18.75	151.00	190.75	118.16	5.70	1.90	0.00	0.15		
10	0.00	33.14	5.60	3.50	14.25	155.20	177.40	87.76	5.50	1.60	0.00	0.00		
11	0.00	26.66	7.40	46.96	11.20	163.00	166.60	70.80	5.30	1.40	0.00	0.00		
12	0.00	14.50	13.00	49.52	10.00	168.40	157.00	59.46	5.10	1.10	0.00	0.00		
13	0.00	10.20	13.25	52.72	9.20	176.20	152.20	50.48	5.00	0.90	0.00	0.00		
14	0.00	8.60	11.40	54.00	8.60	208.00	151.00	44.40	4.80	0.70	0.00	0.00		
15	0.00	9.00	9.60	59.88	8.60	252.00	154.60	29.63	4.50	0.50	0.00	0.00		
16	0.00	9.60	9.00	60.72	11.00	277.50	166.00	27.20	4.20	0.25	0.00	0.00		
17	0.00	10.20	10.60	59.04	19.00	309.00	194.50	18.25	4.20	0.00	0.00	0.00		
18	0.00	9.60	9.20	56.10	17.25	338.00	256.00	20.50	6.00	0.00	0.00	0.10		
19	0.00	9.20	8.00	49.84	14.00	362.00	370.00	13.75	5.80	0.10	0.00	0.90		
20	0.00	8.80	6.60	47.60	11.60	374.00	402.00	13.25	5.50	0.15	0.50	2.40		
21	0.00	8.60	6.00	36.11	10.60	378.00	402.00	15.25	5.40	0.10	2.00	4.30		
22	11.40	9.40	5.60	23.50	9.80	386.00	382.00	11.60	5.30	0.35	1.90	4.80		
23	11.40	10.00	5.70	19.50	10.40	386.00	358.00	12.50	5.10	0.70	1.30	5.70		
24	8.80	8.60	5.60	17.50	11.00	390.00	334.00	12.00	5.20	1.50	0.70	9.80		
25	5.90	8.60	5.50	23.50	11.00	414.00	312.50	10.60	5.00	2.00	0.65	11.00		
26	6.20	9.00	3.20	43.44	12.75	434.00	295.00	10.00	5.10	2.10	0.80	12.75		
27	7.40	10.40	1.70	64.50	13.00	482.00	270.50	9.60	5.40	2.10	0.70	17.25		
28	11.00	16.75	1.70	82.48	20.75	462.00	246.00	8.60	5.90	1.60	0.50	18.00		
29	14.00	25.31	1.30	90.40	31.25	442.00	216.40	8.20	5.70	1.00		11.60		
30	17.50	31.79	1.60	90.84	57.78	434.00	193.00	8.00	5.30	0.60		9.60		
31		27.20		84.68	75.44		182.50		5.00	0.20		10.00		
<b>Total</b>	93.60	678.34	238.30	1118.33	766.32	8121.92	8349.25	1916.89	174.30	51.45	9.85	118.55	21637.10	CMSDAY
<b>Mean</b>	3.12	21.88	7.94	36.08	24.72	270.73	269.33	63.90	5.62	1.66	0.35	3.82	59.28	CMS
<b>Max</b>	17.50	54.84	18.50	90.84	75.44	482.00	418.00	179.80	7.60	5.10	2.00	18.00	482.00	CMS
<b>Min</b>	0.00	8.60	1.30	0.00	8.60	91.72	151.00	8.00	4.20	0.00	0.00	0.00	0.00	CMS
<b>Runoff</b>	8.09	58.61	20.59	96.62	66.21	701.73	721.38	165.62	15.06	4.45	0.85	10.24	1869.45	MCM
<b>Momentary Peak</b>	490.00	CMS, at 185.80 m. (MSL.), at 15.00 Hours, on Sep 27, 2021												
<b>Runoff Yield</b>	9.41	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		77.81	Liters/Second/Square KM.							

**WATER YEAR : 2021****CHI RIVER BASIN**

Lam Nam Phong at Ban Pha Nok Khao , Loei (E.29A)

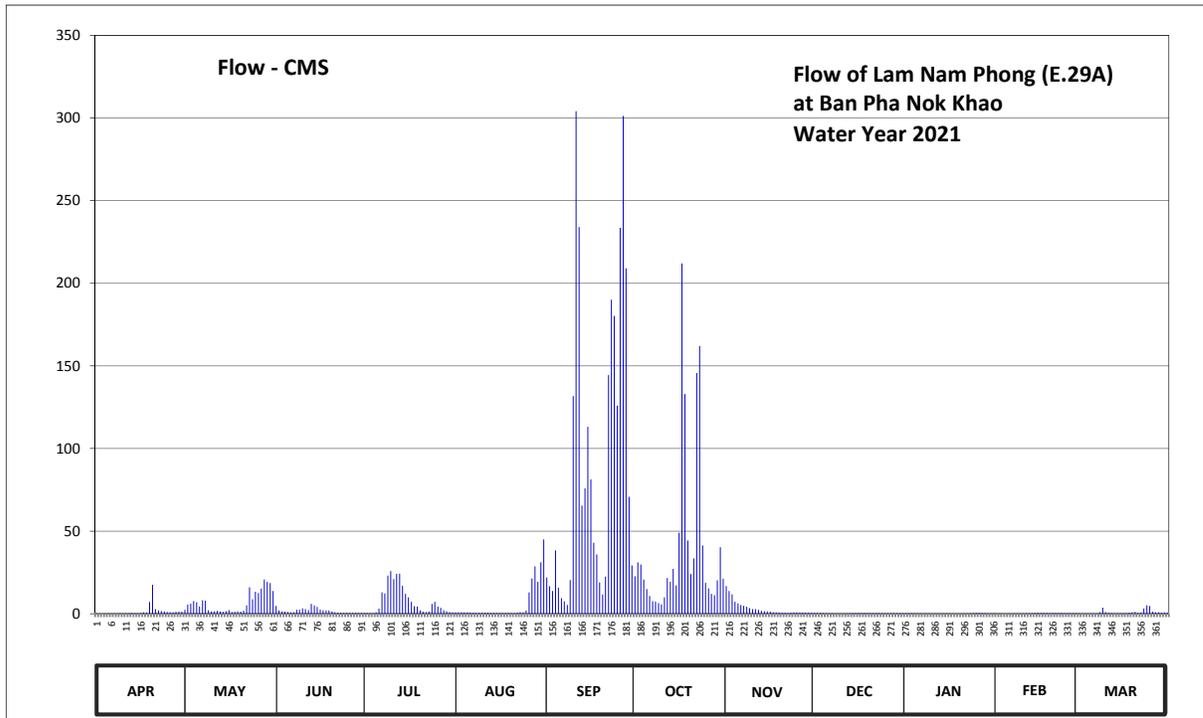
Lat 16 - 50 - 49 N Long 101 - 56 - 14 E

Location : on left bank in the vicinity of the forestry office about 400 meters from the bridge on highway.

	<b>Ban</b>	<b>Pha Nok Khao</b>	<b>Amphoe</b>	<b>Phu Kradung</b>	<b>Changwat</b>	<b>Loei</b>
<b>Drainage Area</b>	933	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+228.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	In front of the automatic gage buiding.				<b>Elevation</b>	+241.401 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2019 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2019 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2019 to date					
<b>Stability of Channel Regimes</b>	Fairly stable by some scouring.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +238.120 m.(MSL.) record are channel flow only.					
<b>General Description</b>	Records fair. Flow effected by Ubonrat Dam. Stage-discharge relation defined by 70 discharge measurements made in 2021.					

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

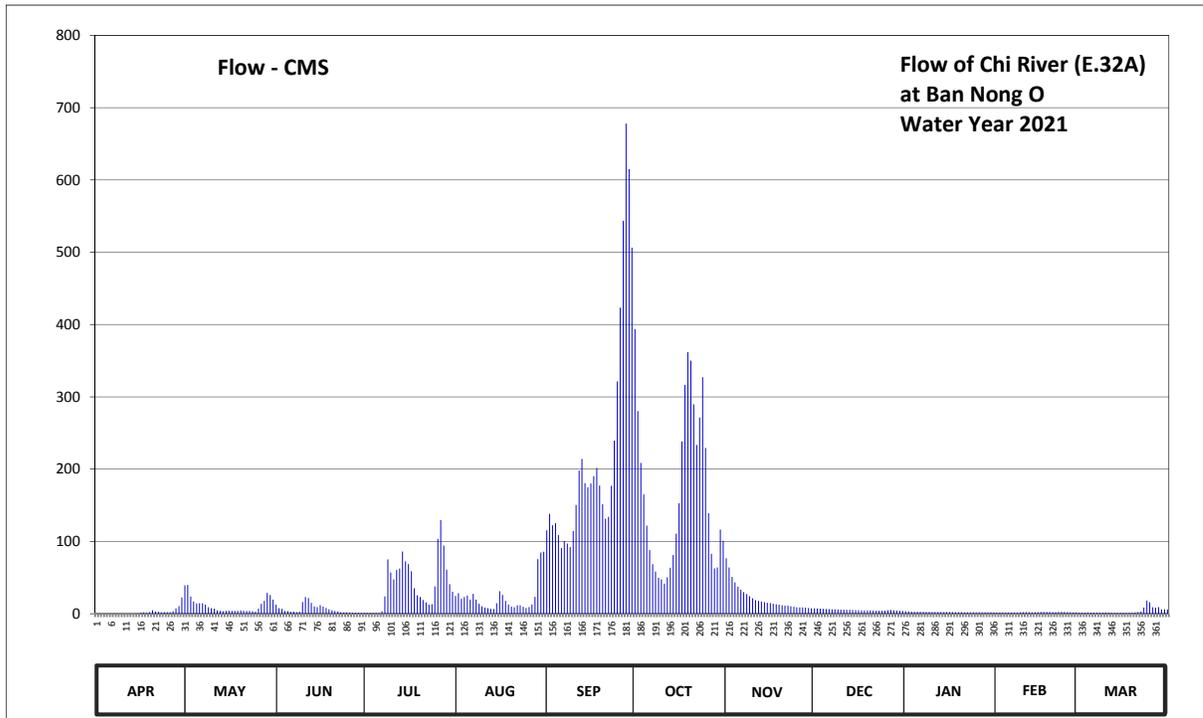
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	227.95	228.90	229.44	228.24	228.44	231.79	231.86	231.22	228.28	228.17	228.10	228.15	
2	227.94	229.62	228.81	228.23	228.42	231.21	232.54	230.85	228.25	228.17	228.08	228.08	
3	227.94	229.71	228.64	228.21	228.43	230.84	232.44	230.59	228.22	228.17	227.82	228.04	
4	227.97	230.03	228.60	228.21	228.45	233.02	231.67	229.97	228.19	228.15	227.82	228.07	
5	227.98	229.91	228.51	228.45	228.41	231.10	230.99	229.75	228.15	228.15	228.00	228.09	
6	228.02	229.38	228.45	229.06	228.40	230.28	230.47	229.56	228.14	228.14	228.02	228.05	
7	228.03	230.10	228.49	230.74	228.34	230.00	230.02	229.47	228.12	228.10	228.08	228.10	
8	228.05	230.05	228.90	230.65	228.30	229.56	229.97	229.35	228.10	228.10	228.10	228.49	
9	228.12	228.83	228.90	231.91	228.30	231.64	229.79	229.15	228.08	228.08	228.10	229.22	
10	228.12	228.61	229.11	232.14	228.28	236.20	229.63	229.00	228.08	228.08	228.10	228.49	
11	228.12	228.64	228.99	231.70	228.31	239.64	230.34	228.99	228.08	228.08	228.12	228.30	
12	228.13	228.72	228.86	232.01	228.31	238.39	231.76	228.87	228.07	228.08	228.16	228.20	
13	228.23	228.62	229.70	232.02	228.30	234.26	231.53	228.76	228.13	228.10	228.20	228.16	
14	228.15	228.56	229.50	231.24	228.28	234.63	232.24	228.69	228.25	228.10	228.24	228.14	
15	228.13	228.68	229.33	230.63	228.27	235.74	231.27	228.64	228.25	228.10	228.31	228.14	
16	228.26	228.85	228.92	230.35	228.26	234.81	233.60	228.58	228.23	228.07	228.25	228.13	
17	228.45	228.52	228.83	229.95	228.26	233.33	237.98	228.48	228.23	228.03	228.22	228.18	
18	228.39	228.57	228.80	229.40	228.24	232.86	236.23	228.41	228.22	228.03	228.22	228.33	
19	229.93	228.66	228.80	229.37	228.22	231.50	233.41	228.37	228.21	228.02	228.20	228.43	
20	231.32	228.57	228.66	228.81	228.21	230.58	232.00	228.31	228.20	228.02	228.22	228.55	
21	228.99	228.76	228.48	228.58	228.20	231.84	232.70	228.27	228.20	228.08	228.26	228.27	
22	228.80	229.51	228.33	228.50	228.27	236.51	236.54	228.25	228.20	228.08	228.24	228.38	
23	228.71	231.12	228.29	228.61	228.48	237.54	236.93	228.31	228.20	228.13	228.23	229.09	
24	228.66	230.18	228.28	229.70	228.43	237.33	233.22	228.44	228.20	228.21	228.21	229.52	
25	228.53	230.79	228.28	229.95	228.78	236.06	231.46	228.42	228.19	228.29	228.20	229.45	
26	228.50	230.69	228.29	229.37	230.74	238.38	231.05	228.39	228.19	228.27	228.20	228.57	
27	228.45	231.03	228.30	229.18	231.74	239.59	230.63	228.37	228.18	228.24	228.19	228.44	
28	228.59	231.67	228.27	228.83	232.36	237.92	230.52	228.34	228.18	228.19	228.20	228.42	
29	228.60	231.53	228.26	228.69	231.53	234.46	231.62	228.32	228.17	228.10		228.30	
30	228.60	231.45	228.26	228.52	232.54	232.40	233.15	228.29	228.17	228.11		228.37	
31		230.84		228.44	233.44		231.72		228.17	228.14		228.34	
Mean	228.46	229.65	228.71	229.67	229.06	234.11	232.23	228.95	228.18	228.12	228.15	228.40	
Max	231.32	231.67	229.70	232.14	233.44	239.64	237.98	231.22	228.28	228.29	228.31	229.52	239.64
Min	227.94	228.52	228.26	228.21	228.20	229.56	229.63	228.25	228.07	228.02	227.82	228.04	227.82
Annual Max Momentary Gage Height	240.30		m. (MSL.) ,			at 12.00 Hours, on Sep 11, 2021							
Zero Gage at Bottom Elevation	228.00		m. (MSL.) ,			River Bed	227.82	m. (MSL.)					
Left Bank Elevation		238.44		m. (MSL.) ,									
Right Bank Elevation		238.11		m. (MSL.) ,		Drainage Are	933	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	2.40	4.70	0.48	0.88	21.90	22.60	16.76	0.56	0.34	0.20	0.30	
2	0.04	5.60	2.04	0.46	0.84	16.68	31.10	13.80	0.50	0.34	0.18	0.18	
3	0.04	6.05	1.42	0.42	0.86	13.72	29.72	11.72	0.44	0.34	0.00	0.14	
4	0.07	7.71	1.30	0.42	0.90	38.30	20.70	7.35	0.38	0.30	0.00	0.17	
5	0.08	7.05	1.03	0.90	0.82	15.80	14.92	6.25	0.30	0.30	0.10	0.19	
6	0.12	4.40	0.90	3.04	0.80	9.46	10.79	5.30	0.28	0.28	0.12	0.15	
7	0.13	8.20	0.98	12.92	0.68	7.50	7.64	4.85	0.24	0.20	0.18	0.20	
8	0.15	7.85	2.40	12.20	0.60	5.30	7.35	4.25	0.20	0.20	0.20	0.98	
9	0.24	2.12	2.40	23.10	0.60	20.40	6.45	3.40	0.18	0.18	0.20	3.68	
10	0.24	1.33	3.24	25.82	0.56	131.70	5.65	2.80	0.18	0.18	0.20	0.98	
11	0.24	1.42	2.76	21.00	0.62	304.12	9.88	2.76	0.18	0.18	0.24	0.60	
12	0.26	1.68	2.24	24.13	0.62	234.06	21.60	2.28	0.17	0.18	0.32	0.40	
13	0.46	1.36	6.00	24.26	0.60	65.50	19.30	1.84	0.26	0.20	0.40	0.32	
14	0.30	1.18	5.00	16.92	0.56	75.90	27.12	1.57	0.50	0.20	0.48	0.28	
15	0.26	1.54	4.15	12.04	0.54	113.10	17.16	1.42	0.50	0.20	0.62	0.28	
16	0.52	2.20	2.48	9.95	0.52	81.30	49.00	1.24	0.46	0.17	0.50	0.26	
17	0.90	1.06	2.12	7.25	0.52	42.95	212.00	0.96	0.46	0.13	0.44	0.36	
18	0.78	1.21	2.00	4.50	0.48	35.90	132.93	0.82	0.44	0.13	0.44	0.66	
19	7.15	1.48	2.00	4.35	0.44	19.00	44.25	0.74	0.42	0.12	0.40	0.86	
20	17.56	1.21	1.48	2.04	0.42	11.64	24.00	0.62	0.40	0.12	0.44	1.15	
21	2.76	1.84	0.96	1.24	0.40	22.40	33.50	0.54	0.40	0.18	0.52	0.54	
22	2.00	5.05	0.66	1.00	0.54	144.42	145.68	0.50	0.40	0.18	0.48	0.76	
23	1.64	15.96	0.58	1.33	0.96	190.00	162.06	0.62	0.40	0.26	0.46	3.16	
24	1.48	8.76	0.56	6.00	0.86	180.18	41.30	0.88	0.40	0.42	0.42	5.10	
25	1.09	13.32	0.56	7.25	1.92	125.96	18.68	0.84	0.38	0.58	0.40	4.75	
26	1.00	12.52	0.58	4.35	12.92	233.52	15.40	0.78	0.38	0.54	0.40	1.21	
27	0.90	15.24	0.60	3.52	21.40	301.22	12.04	0.74	0.36	0.48	0.38	0.88	
28	1.27	20.70	0.54	2.12	28.68	209.00	11.16	0.68	0.36	0.38	0.40	0.84	
29	1.30	19.30	0.52	1.57	19.30	70.80	20.20	0.64	0.34	0.20		0.60	
30	1.30	18.60	0.52	1.06	31.10	29.20	40.25	0.58	0.34	0.22		0.74	
31		13.72		0.88	45.00		21.20		0.34	0.28		0.68	
<b>Total</b>	44.33	212.06	56.72	236.52	175.94	2770.93	1235.63	97.53	11.15	8.01	9.12	31.40	4889.34 CMSDAY
<b>Mean</b>	1.48	6.84	1.89	7.63	5.68	92.36	39.86	3.25	0.36	0.26	0.33	1.01	13.40 CMS
<b>Max</b>	17.56	20.70	6.00	25.82	45.00	304.12	212.00	16.76	0.56	0.58	0.62	5.10	304.12 CMS
<b>Min</b>	0.04	1.06	0.52	0.42	0.40	5.30	5.65	0.50	0.17	0.12	0.00	0.14	0.00 CMS
<b>Runoff</b>	3.83	18.32	4.90	20.44	15.20	239.41	106.76	8.43	0.96	0.69	0.79	2.71	422.44 MCM
<b>Momentary Peak</b>	342.40	CMS, at 240.30 m. (MSL.), at 12.00 Hours, on Sep 11, 2021											
<b>Runoff Yield</b>	14.36	Liters/Second/Square KM.		Momentary Peak Yield		366.99	Liters/Second/Square KM.						





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	39.32	12.60	1.26	24.60	115.36	393.60	76.76	7.40	3.50	1.80	1.62	
2	0.00	39.86	7.70	1.20	28.44	138.24	280.30	64.00	7.20	3.20	1.80	1.44	
3	0.00	23.64	6.80	1.26	20.76	122.36	208.50	51.00	7.00	2.94	1.80	1.50	
4	0.00	16.90	3.70	1.26	23.00	125.16	165.00	43.28	6.80	2.82	1.80	1.74	
5	0.00	14.30	3.40	1.20	25.08	108.92	121.80	37.34	6.60	2.76	1.80	1.56	
6	0.00	14.50	2.70	1.08	19.32	90.80	87.92	33.24	6.40	2.76	1.80	1.44	
7	0.00	14.40	2.82	3.40	27.48	100.52	68.62	29.88	6.20	2.70	1.74	1.50	
8	0.00	12.60	2.40	23.96	19.48	97.04	58.40	27.32	6.10	2.58	1.74	1.50	
9	0.00	9.00	2.94	75.22	13.90	92.24	49.80	24.12	6.00	2.52	1.92	1.50	
10	0.00	7.70	16.30	57.00	10.30	114.52	47.60	21.24	5.80	2.46	2.16	1.74	
11	0.00	7.00	23.00	47.60	8.50	150.46	41.48	19.00	5.60	2.40	2.16	1.44	
12	0.00	4.50	21.56	60.60	7.60	198.00	50.40	17.90	5.50	2.40	2.04	1.20	
13	0.00	3.90	14.90	62.40	6.90	214.20	63.60	16.90	5.40	2.40	1.98	1.26	
14	0.00	3.40	10.00	86.00	6.50	180.60	81.16	16.00	5.20	2.40	2.16	1.32	
15	0.24	3.90	9.30	72.36	14.50	175.00	110.60	15.10	5.10	2.40	2.10	1.20	
16	1.32	4.20	11.90	68.62	31.16	180.20	152.74	14.70	4.80	2.34	2.34	1.20	
17	2.04	4.00	9.80	58.80	26.04	190.00	238.20	13.80	4.70	2.28	2.46	1.26	
18	1.38	4.00	8.00	35.18	17.70	201.50	316.40	13.10	4.70	2.22	2.40	1.32	
19	2.22	4.20	6.20	25.40	12.70	177.40	361.70	12.60	4.60	2.16	2.40	1.38	
20	4.90	4.50	4.90	23.16	9.80	151.60	350.00	11.70	4.50	2.10	2.22	1.80	
21	3.10	4.20	3.80	18.90	9.00	131.40	289.65	11.30	4.40	2.04	2.10	2.46	
22	2.64	4.00	3.30	15.60	11.70	133.92	233.40	11.10	4.20	2.04	2.40	3.00	
23	1.92	4.00	2.28	12.60	11.70	177.00	271.30	10.30	4.10	1.98	2.64	8.60	
24	2.10	3.60	1.98	13.20	9.70	239.40	327.20	9.60	4.10	1.86	2.40	18.30	
25	2.10	2.76	1.92	37.88	8.00	321.20	229.20	9.00	4.10	1.86	2.22	15.90	
26	2.16	7.00	1.68	103.60	9.30	423.30	138.96	8.80	4.90	1.92	2.04	8.90	
27	3.50	13.70	1.44	129.60	12.80	543.60	82.92	8.70	5.30	1.98	1.98	8.30	
28	7.50	17.80	1.32	94.16	23.32	678.00	62.80	8.40	4.60	2.04	1.86	9.30	
29	10.60	28.76	1.32	61.00	75.44	615.00	64.00	8.00	4.30	2.04		5.90	
30	22.52	26.04	1.20	40.94	84.68	506.40	116.48	7.50	4.10	1.98		6.10	
31		19.64		30.36	85.78		101.08		3.90	1.86		5.80	
Total	70.24	367.32	201.16	1264.80	695.18	6693.34	5164.81	651.68	163.60	72.94	58.26	121.48	15524.81 CMSDAY
Mean	2.34	11.85	6.71	40.80	22.43	223.11	166.61	21.72	5.28	2.35	2.08	3.92	42.53 CMS
Max	22.52	39.86	23.00	129.60	85.78	678.00	393.60	76.76	7.40	3.50	2.64	18.30	678.00 CMS
Min	0.00	2.76	1.20	1.08	6.50	90.80	41.48	7.50	3.90	1.86	1.74	1.20	0.00 CMS
Runoff	6.07	31.74	17.38	109.28	60.06	578.30	446.24	56.31	14.14	6.30	5.03	10.50	1341.34 MCM
Momentary Peak	700.60	CMS, at 210.74 m. (MSL.), at 11.00 Hours, on Sep 28, 2021											
Runoff Yield	14.77	Liters/Second/Square KM.		Momentary Peak Yield		243.26	Liters/Second/Square KM.						

**WATER YEAR : 2021****CHI RIVER BASIN**

Nam Yang at Ban Kaeng Yao , Kalasin (E.54)

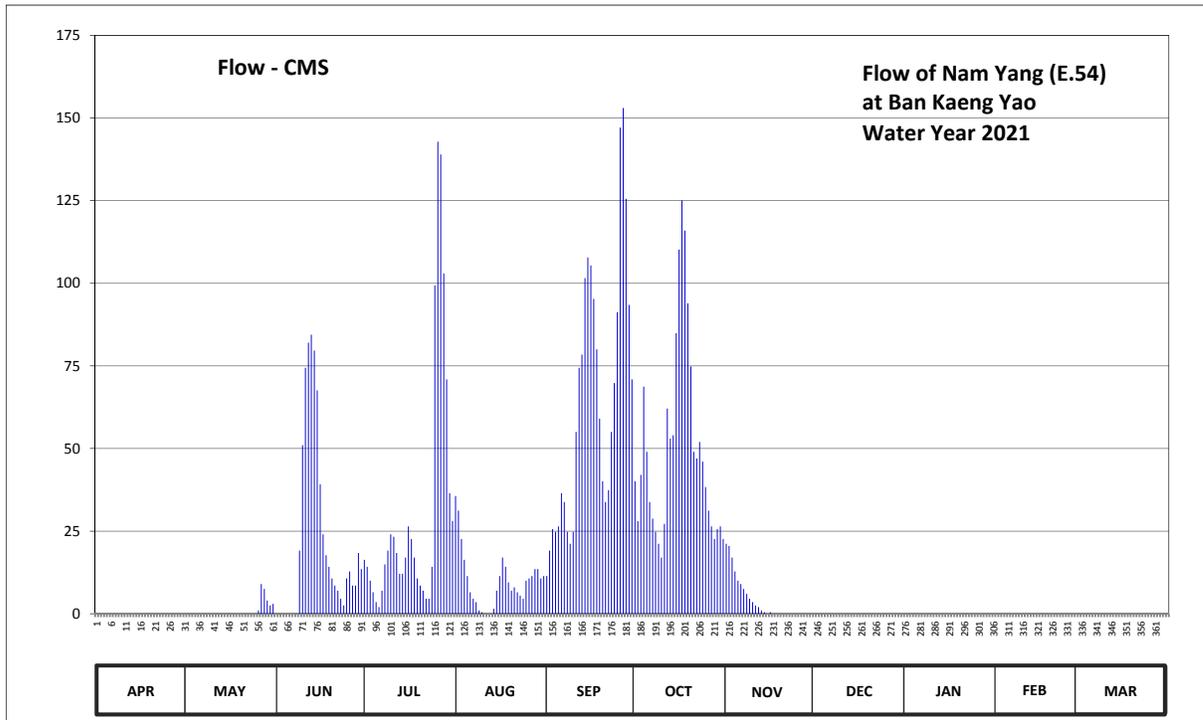
Lat 16 - 26 - 33 N Long 104 - 01 - 51 E

Location : on right bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR Damsite.

	<b>Ban Kaeng Yao</b>	<b>Amphoe Kuchinarai</b>	<b>Changwat Kalasin</b>
<b>Drainage Area</b>	1,508 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+138.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+149.988 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1969 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1969 - 1977 , 1983 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1969 - 1977 , 1983 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

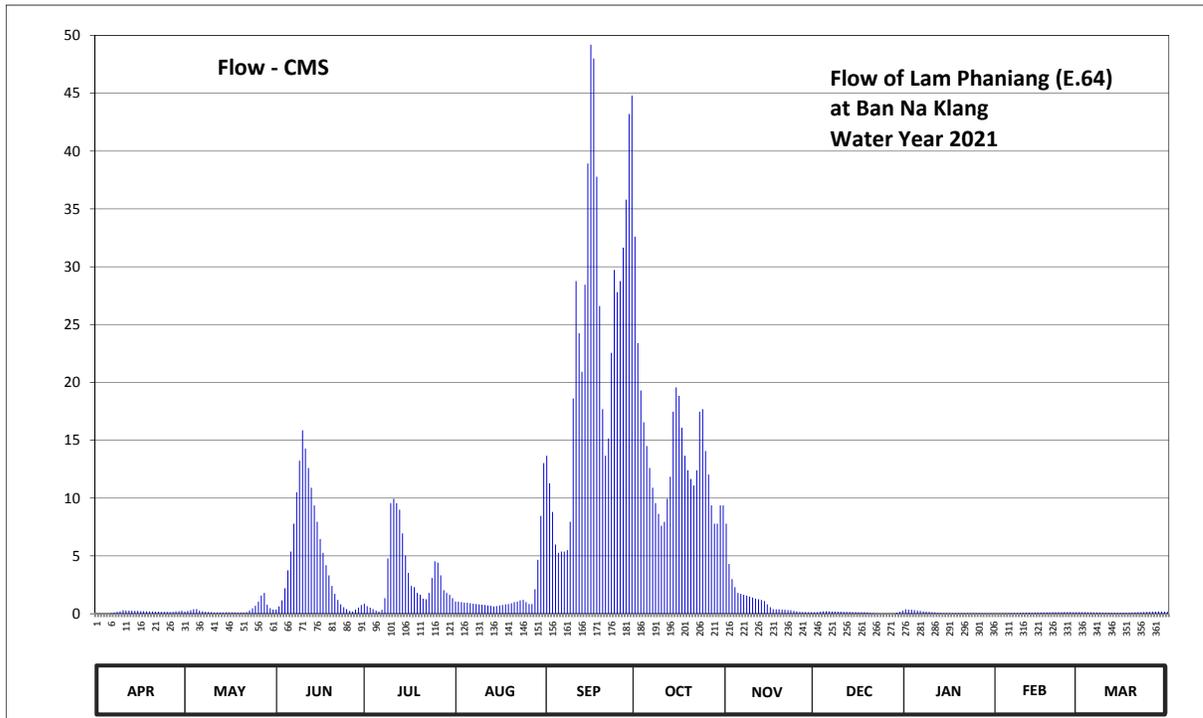
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.23	140.36	140.40	140.69	140.94	140.62	140.99	140.76	140.35	140.32	140.32	140.31	
2	140.22	140.35	140.37	140.66	140.89	140.73	140.85	140.75	140.36	140.32	140.32	140.31	
3	140.22	140.35	140.35	140.60	140.78	140.82	141.01	140.70	140.35	140.32	140.33	140.31	
4	140.22	140.34	140.35	140.53	140.69	140.81	141.27	140.64	140.35	140.32	140.33	140.31	
5	140.21	140.33	140.35	140.47	140.62	140.83	141.08	140.60	140.34	140.32	140.33	140.31	
6	140.20	140.32	140.35	140.44	140.53	140.95	140.92	140.58	140.34	140.32	140.34	140.31	
7	140.18	140.33	140.37	140.54	140.49	140.92	140.86	140.55	140.35	140.32	140.34	140.31	
8	140.17	140.33	140.40	140.67	140.47	140.81	140.81	140.52	140.34	140.32	140.34	140.30	
9	140.16	140.33	140.73	140.73	140.42	140.76	140.76	140.49	140.34	140.32	140.33	140.30	
10	140.15	140.32	141.10	140.80	140.41	140.81	140.70	140.47	140.32	140.32	140.32	140.28	
11	140.15	140.32	141.36	140.79	140.39	141.14	140.84	140.45	140.33	140.33	140.31	140.28	
12	140.15	140.31	141.55	140.72	140.39	141.36	141.21	140.44	140.33	140.33	140.31	140.27	
13	140.14	140.31	141.61	140.63	140.38	141.46	141.12	140.42	140.33	140.33	140.31	140.28	
14	140.14	140.30	141.49	140.63	140.43	141.99	141.13	140.41	140.33	140.32	140.30	140.29	
15	140.16	140.30	141.26	140.70	140.54	142.12	141.62	140.40	140.33	140.32	140.30	140.30	
16	140.21	140.30	140.98	140.83	140.62	142.07	142.17	140.41	140.33	140.32	140.31	140.29	
17	140.28	140.30	140.80	140.78	140.70	141.85	142.48	140.40	140.34	140.32	140.32	140.30	
18	140.32	140.31	140.71	140.70	140.66	141.50	142.29	140.39	140.34	140.32	140.32	140.30	
19	140.34	140.31	140.66	140.61	140.59	141.18	141.82	140.39	140.33	140.31	140.31	140.29	
20	140.34	140.31	140.61	140.57	140.54	140.99	141.37	140.38	140.33	140.31	140.31	140.29	
21	140.34	140.30	140.57	140.54	140.56	140.92	141.08	140.38	140.33	140.31	140.31	140.29	
22	140.33	140.30	140.54	140.49	140.53	140.96	141.06	140.38	140.32	140.32	140.31	140.29	
23	140.34	140.31	140.49	140.49	140.51	141.14	141.11	140.37	140.32	140.34	140.31	140.29	
24	140.34	140.33	140.45	140.66	140.49	141.28	141.05	140.37	140.32	140.36	140.31	140.30	
25	140.34	140.34	140.61	141.94	140.60	141.76	140.97	140.36	140.33	140.35	140.31	140.30	
26	140.35	140.42	140.64	142.85	140.61	142.94	140.89	140.36	140.33	140.35	140.31	140.30	
27	140.36	140.58	140.57	142.77	140.62	143.06	140.83	140.36	140.33	140.34	140.32	140.31	
28	140.35	140.55	140.57	142.02	140.65	142.49	140.78	140.35	140.33	140.33	140.32	140.32	
29	140.34	140.48	140.72	141.29	140.65	141.81	140.82	140.35	140.32	140.33		140.32	
30	140.35	140.45	140.65	140.95	140.61	141.29	140.83	140.35	140.32	140.33		140.32	
31		140.46		140.85	140.62		140.78		140.32	140.32		140.32	
Mean	140.25	140.35	140.72	140.90	140.58	141.38	141.15	140.46	140.33	140.33	140.32	140.30	
Max	140.36	140.58	141.61	142.85	140.94	143.06	142.48	140.76	140.36	140.36	140.34	140.32	143.06
Min	140.14	140.30	140.35	140.44	140.38	140.62	140.70	140.35	140.32	140.31	140.30	140.27	140.14
Annual Max Momentary Gage Height	143.16		m. (MSL.) ,			at 02.00 Hours, on Sep 27, 2021							
Zero Gage at Bottom Elevation	138.30		m. (MSL.) ,			River Bed	138.77	m. (MSL.)					
Left Bank Elevation	143.59		m. (MSL.) ,										
Right Bank Elevation	147.07		m. (MSL.) ,			Drainage Area	1,508	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	16.30	35.60	11.40	40.10	21.20	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	14.20	31.20	19.10	28.00	20.50	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	10.00	22.60	25.60	42.00	17.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	6.50	16.30	24.80	68.70	12.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	3.50	11.40	26.40	49.00	10.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	2.00	6.50	36.50	33.80	9.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	7.00	4.50	33.80	28.80	7.50	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	14.90	3.50	24.80	24.80	6.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	19.10	19.10	1.00	21.20	21.20	4.50	0.00	0.00	0.00	0.00	
10	0.00	0.00	51.00	24.00	0.50	24.80	17.00	3.50	0.00	0.00	0.00	0.00	
11	0.00	0.00	74.40	23.30	0.00	55.00	27.20	2.50	0.00	0.00	0.00	0.00	
12	0.00	0.00	82.00	18.40	0.00	74.40	62.10	2.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	84.45	12.10	0.00	78.40	53.00	1.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	79.60	12.10	1.50	101.55	54.00	0.50	0.00	0.00	0.00	0.00	
15	0.00	0.00	67.60	17.00	7.00	107.76	84.90	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	39.20	26.40	11.40	105.36	110.16	0.50	0.00	0.00	0.00	0.00	
17	0.00	0.00	24.00	22.60	17.00	95.25	125.04	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	17.70	17.00	14.20	80.00	115.92	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	14.20	10.70	9.50	59.00	93.90	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	10.70	8.50	7.00	40.10	74.80	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	8.50	7.00	8.00	33.80	49.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	7.00	4.50	6.50	37.40	47.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	4.50	4.50	5.50	55.00	52.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	2.50	14.20	4.50	69.80	46.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	10.70	99.30	10.00	91.20	38.30	0.00	0.00	0.00	0.00	0.00	
26	0.00	1.00	12.80	142.80	10.70	147.12	31.20	0.00	0.00	0.00	0.00	0.00	
27	0.00	9.00	8.50	138.96	11.40	153.00	26.40	0.00	0.00	0.00	0.00	0.00	
28	0.00	7.50	8.50	102.96	13.50	125.52	22.60	0.00	0.00	0.00	0.00	0.00	
29	0.00	4.00	18.40	70.90	13.50	93.45	25.60	0.00	0.00	0.00	0.00	0.00	
30	0.00	2.50	13.50	36.50	10.70	70.90	26.40	0.00	0.00	0.00	0.00	0.00	
31	0.00	3.00		28.00	11.40		22.60		0.00	0.00		0.00	
<b>Total</b>	0.00	27.00	658.85	935.22	306.40	1922.41	1541.52	118.50	0.00	0.00	0.00	0.00	5509.90 CMSDAY
<b>Mean</b>	0.00	0.87	21.96	30.17	9.88	64.08	49.73	3.95	0.00	0.00	0.00	0.00	15.10 CMS
<b>Max</b>	0.00	9.00	84.45	142.80	35.60	153.00	125.04	21.20	0.00	0.00	0.00	0.00	153.00 CMS
<b>Min</b>	0.00	0.00	0.00	2.00	0.00	11.40	17.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	2.33	56.92	80.80	26.47	166.10	133.19	10.24	0.00	0.00	0.00	0.00	476.06 MCM
<b>Momentary Peak</b>	158.00	CMS, at 143.16 m. (MSL.), at 02.00 Hours, on Sep 27, 2021											
<b>Runoff Yield</b>	10.01	Liters/Second/Square KM. Momentary Peak Yield 104.77 Liters/Second/Square KM.											





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.19	0.36	0.87	1.05	13.65	32.60	7.78	0.13	0.38	0.04	0.14	
2	0.00	0.24	0.63	0.66	1.05	11.27	23.40	4.30	0.14	0.36	0.04	0.13	
3	0.00	0.30	1.15	0.52	1.00	8.80	19.30	3.00	0.16	0.34	0.05	0.13	
4	0.00	0.38	2.20	0.40	0.95	5.98	16.54	2.30	0.20	0.32	0.05	0.12	
5	0.00	0.40	3.75	0.28	0.95	5.26	14.49	1.80	0.22	0.28	0.06	0.12	
6	0.05	0.26	5.38	0.19	0.90	5.38	12.60	1.72	0.20	0.24	0.06	0.11	
7	0.11	0.20	7.78	0.34	0.87	5.38	10.89	1.64	0.19	0.20	0.07	0.11	
8	0.16	0.17	10.51	1.35	0.84	5.50	9.56	1.56	0.19	0.18	0.07	0.11	
9	0.20	0.15	13.23	4.78	0.81	7.95	8.63	1.48	0.18	0.16	0.08	0.10	
10	0.30	0.13	15.85	9.56	0.78	18.61	7.61	1.40	0.18	0.14	0.08	0.10	
11	0.28	0.11	14.28	9.94	0.75	28.76	7.95	1.30	0.17	0.12	0.09	0.10	
12	0.28	0.11	12.60	9.56	0.72	24.24	9.94	1.25	0.16	0.10	0.10	0.09	
13	0.26	0.11	10.89	8.99	0.69	20.92	11.84	1.20	0.16	0.07	0.10	0.09	
14	0.24	0.11	9.37	6.94	0.63	28.44	17.46	1.10	0.15	0.06	0.11	0.08	
15	0.24	0.12	7.95	5.02	0.66	38.92	19.57	0.81	0.15	0.06	0.11	0.08	
16	0.22	0.12	6.46	3.53	0.72	49.20	18.84	0.56	0.14	0.06	0.11	0.09	
17	0.22	0.12	5.26	2.40	0.75	48.00	16.08	0.40	0.14	0.06	0.12	0.10	
18	0.20	0.12	4.19	2.30	0.81	37.78	13.65	0.38	0.13	0.06	0.12	0.10	
19	0.19	0.11	3.31	1.80	0.84	26.60	12.41	0.38	0.12	0.06	0.12	0.11	
20	0.19	0.11	2.40	1.64	0.90	17.69	11.65	0.36	0.08	0.06	0.13	0.12	
21	0.18	0.11	1.72	1.30	1.00	13.65	11.08	0.34	0.05	0.06	0.13	0.13	
22	0.18	0.14	1.20	1.25	1.05	15.16	12.41	0.32	0.02	0.05	0.14	0.14	
23	0.17	0.28	0.81	1.80	1.15	22.56	17.46	0.30	0.00	0.05	0.14	0.15	
24	0.16	0.46	0.56	3.10	1.20	29.72	17.69	0.24	0.00	0.05	0.15	0.16	
25	0.16	0.69	0.40	4.54	1.00	27.80	14.07	0.20	0.00	0.05	0.15	0.17	
26	0.15	1.05	0.24	4.42	0.84	28.76	12.03	0.17	0.00	0.05	0.15	0.18	
27	0.16	1.56	0.19	3.31	0.84	31.64	9.37	0.15	0.00	0.05	0.14	0.18	
28	0.20	1.80	0.36	2.04	2.12	35.80	7.78	0.15	0.00	0.05	0.14	0.19	
29	0.22	0.78	0.54	1.80	4.66	43.20	7.78	0.14	0.09	0.04	0.08	0.19	
30	0.26	0.48	0.75	1.64	8.46	44.80	9.37	0.14	0.17	0.04	0.08	0.18	
31		0.36		1.35	13.02		9.37		0.28	0.04		0.17	
Total	4.98	11.27	144.32	97.62	52.01	701.42	423.42	36.87	3.80	3.84	2.85	3.97	1486.37 CMSDAY
Mean	0.17	0.36	4.81	3.15	1.68	23.38	13.66	1.23	0.12	0.12	0.10	0.13	4.07 CMS
Max	0.30	1.80	15.85	9.94	13.02	49.20	32.60	7.78	0.28	0.38	0.15	0.19	49.20 CMS
Min	0.00	0.11	0.19	0.19	0.63	5.26	7.61	0.14	0.00	0.04	0.04	0.08	0.00 CMS
Runoff	0.43	0.97	12.47	8.43	4.49	60.60	36.58	3.19	0.33	0.33	0.25	0.34	128.42 MCM
Momentary Peak	50.46	CMS, at 259.43 m. (MSL.), at 12.00 Hours, on Sep 16, 2021											
Runoff Yield	10.95	Liters/Second/Square KM.		Momentary Peak Yield		135.65	Liters/Second/Square KM.						

## WATER YEAR : 2021

## CHI RIVER BASIN

Lam Pao at Ban Tha Hai, Udon Thani (E.65)

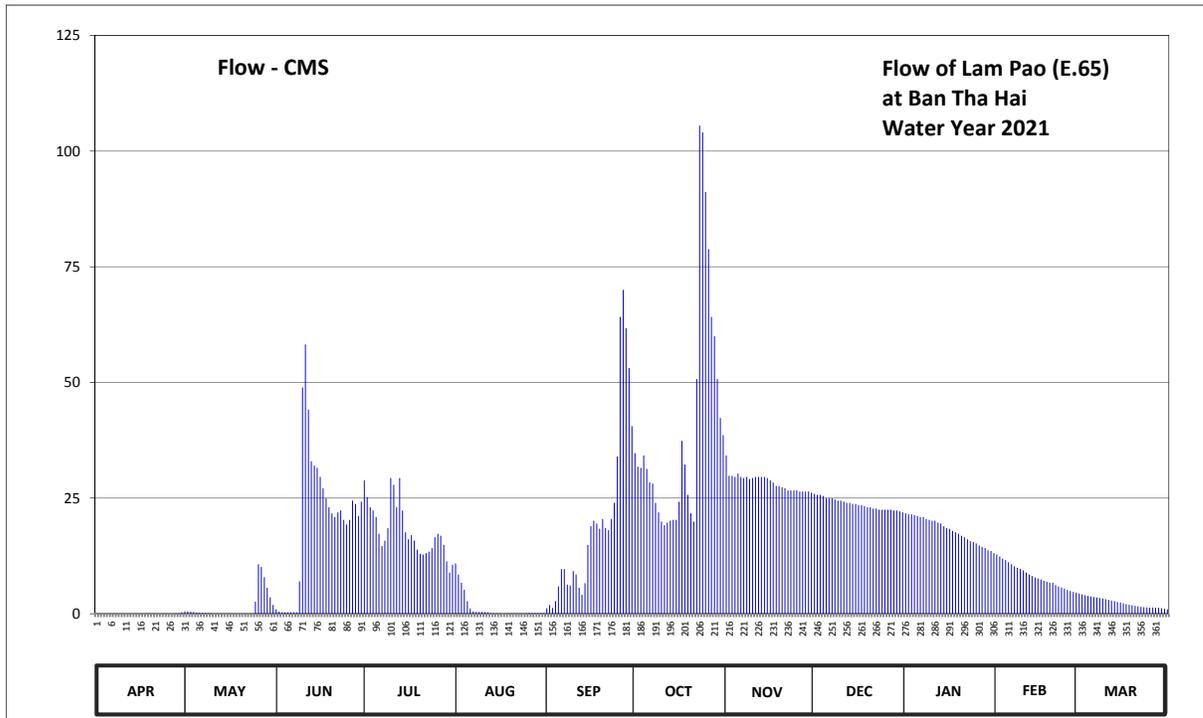
Lat 16 - 57 - 06 N Long 103 - 10 - 05 E

Location : on left bank at the bridge on highway.

	<b>Ban Tha Hai</b>	<b>Amphoe Si That</b>	<b>Changwat Udon Thani</b>
<b>Drainage Area</b>	2,176 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+159.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+169.494 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date.		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1983 to date.		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1983 to date.		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow effected by Lam Pao Dam. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.86	160.35	160.52	162.86	161.89	160.59	163.10	163.08	162.74	162.56	162.02	161.28	
2	159.86	160.35	160.33	162.71	161.73	160.80	162.98	162.90	162.73	162.55	161.99	161.25	
3	159.86	160.33	160.25	162.62	161.57	160.61	162.97	162.90	162.73	162.55	161.96	161.22	
4	159.86	160.28	160.25	162.59	161.40	160.97	163.08	162.89	162.72	162.54	161.94	161.19	
5	159.86	160.23	160.25	162.52	160.96	161.49	162.96	162.92	162.70	162.53	161.91	161.16	
6	159.86	160.20	160.25	162.32	160.58	161.81	162.84	162.89	162.70	162.52	161.88	161.14	
7	159.86	160.16	160.25	162.14	160.36	161.81	162.83	162.88	162.70	162.52	161.85	161.12	
8	159.86	160.13	160.25	162.22	160.29	161.53	162.66	162.89	162.69	162.50	161.83	161.10	
9	159.86	160.09	161.60	162.40	160.29	161.51	162.57	162.87	162.68	162.49	161.81	161.08	
10	159.86	160.05	163.63	162.88	160.28	161.78	162.47	162.88	162.68	162.48	161.79	161.05	
11	159.86	159.99	163.92	162.82	160.28	161.73	162.43	162.89	162.67	162.48	161.76	161.02	
12	159.86	159.96	163.47	162.62	160.26	161.45	162.46	162.89	162.66	162.46	161.73	160.99	
13	159.86	159.93	163.03	162.88	160.09	161.23	162.48	162.89	162.66	162.45	161.71	160.97	
14	159.86	159.93	162.99	162.59	160.05	161.56	162.49	162.89	162.65	162.42	161.68	160.93	
15	159.86	159.93	162.97	162.34	160.05	162.16	162.49	162.88	162.65	162.40	161.66	160.91	
16	159.86	159.93	162.89	162.24	160.06	162.42	162.67	162.86	162.64	162.39	161.64	160.87	
17	159.86	159.95	162.79	162.30	160.01	162.48	163.21	162.84	162.64	162.36	161.61	160.84	
18	159.86	159.96	162.70	162.22	160.02	162.45	163.00	162.81	162.63	162.34	161.59	160.81	
19	159.86	159.97	162.62	162.09	160.07	162.39	162.73	162.81	162.62	162.32	161.57	160.79	
20	159.86	159.97	162.56	162.03	160.07	162.50	162.56	162.80	162.62	162.29	161.57	160.75	
21	159.89	159.97	162.52	162.02	160.07	162.40	162.47	162.79	162.61	162.27	161.52	160.73	
22	159.89	159.97	162.57	162.04	160.07	162.37	163.69	162.77	162.61	162.24	161.49	160.70	
23	159.89	159.97	162.59	162.06	160.07	162.50	165.07	162.77	162.60	162.21	161.46	160.67	
24	159.89	160.00	162.49	162.11	160.07	162.66	165.04	162.77	162.60	162.20	161.43	160.66	
25	159.89	160.94	162.44	162.27	160.11	163.07	164.77	162.77	162.60	162.18	161.39	160.64	
26	159.90	161.88	162.49	162.32	160.13	164.09	164.47	162.76	162.60	162.15	161.36	160.65	
27	159.94	161.84	162.68	162.29	160.12	164.25	164.09	162.76	162.60	162.13	161.33	160.64	
28	160.04	161.69	162.65	162.16	160.12	164.02	163.97	162.76	162.59	162.11	161.31	160.63	
29	160.11	161.45	162.53	161.92	160.12	163.77	163.69	162.76	162.59	162.08		160.60	
30	160.26	161.13	162.67	161.76	160.12	163.34	163.41	162.75	162.58	162.07		160.55	
31		160.80		161.87	160.12		163.26		162.57	162.04		160.51	
Mean	159.90	160.37	162.10	162.33	160.37	162.19	163.19	162.84	162.65	162.35	161.67	160.89	
Max	160.26	161.88	163.92	162.88	161.89	164.25	165.07	163.08	162.74	162.56	162.02	161.28	165.07
Min	159.86	159.93	160.25	161.76	160.01	160.59	162.43	162.75	162.57	162.04	161.31	160.51	159.86
Annual Max Momentary Gage Height	165.16		m. (MSL.) ,				at 15.00 Hours, on Oct 23, 2021						
Zero Gage at Bottom Elevation	159.00		m. (MSL.) ,			River Bed	159.91	m. (MSL.)					
Left Bank Elevation	166.43		m. (MSL.) ,										
Right Bank Elevation	166.06		m. (MSL.) ,			Drainage Area	2,176	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.50	0.96	28.84	10.85	1.17	34.69	34.20	25.91	21.70	12.80	4.38		
2	0.00	0.50	0.46	25.18	8.45	1.90	31.76	29.81	25.67	21.50	12.35	4.20		
3	0.00	0.46	0.30	22.99	6.70	1.23	31.52	29.81	25.67	21.50	11.90	4.02		
4	0.00	0.36	0.30	22.30	5.20	2.75	34.20	29.57	25.43	21.30	11.60	3.85		
5	0.00	0.26	0.30	20.90	2.70	5.92	31.28	30.30	24.94	21.10	11.15	3.70		
6	0.00	0.20	0.30	17.30	1.14	9.65	28.35	29.57	24.94	20.90	10.70	3.60		
7	0.00	0.16	0.30	14.60	0.52	9.65	28.11	29.33	24.94	20.90	10.25	3.50		
8	0.00	0.13	0.30	15.80	0.38	6.30	23.96	29.57	24.69	20.50	9.95	3.40		
9	0.00	0.09	7.00	18.50	0.38	6.10	21.90	29.08	24.45	20.30	9.65	3.30		
10	0.00	0.05	48.90	29.33	0.36	9.20	19.90	29.33	24.45	20.10	9.35	3.15		
11	0.00	0.00	58.20	27.86	0.36	8.45	19.10	29.57	24.21	20.10	8.90	3.00		
12	0.00	0.00	44.10	22.99	0.32	5.60	19.70	29.57	23.96	19.70	8.45	2.85		
13	0.00	0.00	32.98	29.33	0.09	4.08	20.10	29.57	23.96	19.50	8.15	2.75		
14	0.00	0.00	32.01	22.30	0.05	6.60	20.30	29.57	23.72	18.90	7.80	2.55		
15	0.00	0.00	31.52	17.60	0.05	14.90	20.30	29.33	23.72	18.50	7.60	2.45		
16	0.00	0.00	29.57	16.10	0.06	18.90	24.21	28.84	23.48	18.35	7.40	2.25		
17	0.00	0.00	27.13	17.00	0.01	20.10	37.37	28.35	23.48	17.90	7.10	2.10		
18	0.00	0.00	24.94	15.80	0.02	19.50	32.25	27.62	23.23	17.60	6.90	1.95		
19	0.00	0.00	22.99	13.85	0.07	18.35	25.67	27.62	22.99	17.30	6.70	1.86		
20	0.00	0.00	21.70	12.95	0.07	20.50	21.70	27.38	22.99	16.85	6.70	1.70		
21	0.00	0.00	20.90	12.80	0.07	18.50	19.90	27.13	22.74	16.55	6.20	1.62		
22	0.00	0.00	21.90	13.10	0.07	18.05	50.70	26.64	22.74	16.10	5.92	1.50		
23	0.00	0.00	22.30	13.40	0.07	20.50	105.50	26.64	22.50	15.65	5.68	1.41		
24	0.00	0.00	20.30	14.15	0.07	23.96	104.00	26.64	22.50	15.50	5.44	1.38		
25	0.00	2.60	19.30	16.55	0.11	33.96	91.15	26.64	22.50	15.20	5.13	1.32		
26	0.00	10.70	20.30	17.30	0.13	64.15	78.80	26.40	22.50	14.75	4.92	1.35		
27	0.00	10.10	24.45	16.85	0.12	70.00	64.15	26.40	22.50	14.45	4.71	1.32		
28	0.04	7.90	23.72	14.90	0.12	61.70	59.95	26.40	22.30	14.15	4.57	1.29		
29	0.11	5.60	21.10	11.30	0.12	53.10	50.70	26.40	22.30	13.70		1.20		
30	0.32	3.55	24.21	8.90	0.12	40.54	42.30	26.16	22.10	13.55		1.05		
31		1.90		10.55	0.12		38.59		21.90	13.10		0.93		
<b>Total</b>	0.47	45.06	602.74	561.32	38.90	595.31	1232.11	853.44	733.41	557.20	227.97	74.93	5522.86	CMSDAY
<b>Mean</b>	0.02	1.45	20.09	18.11	1.25	19.84	39.75	28.45	23.66	17.97	8.14	2.42	15.13	CMS
<b>Max</b>	0.32	10.70	58.20	29.33	10.85	70.00	105.50	34.20	25.91	21.70	12.80	4.38	105.50	CMS
<b>Min</b>	0.00	0.00	0.30	8.90	0.01	1.17	19.10	26.16	21.90	13.10	4.57	0.93	0.00	CMS
<b>Runoff</b>	0.04	3.89	52.08	48.50	3.36	51.43	106.45	73.74	63.37	48.14	19.70	6.47	477.18	MCM
<b>Momentary Peak</b>	110.00 CMS, at 165.16 m. (MSL.), at 15.00 Hours, on Oct 23, 2021													
<b>Runoff Yield</b>	6.95 Liters/Second/Square KM.			Momentary Peak Yield			50.55 Liters/Second/Square KM.							

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Muang Lat , Roi Et (E.66A)

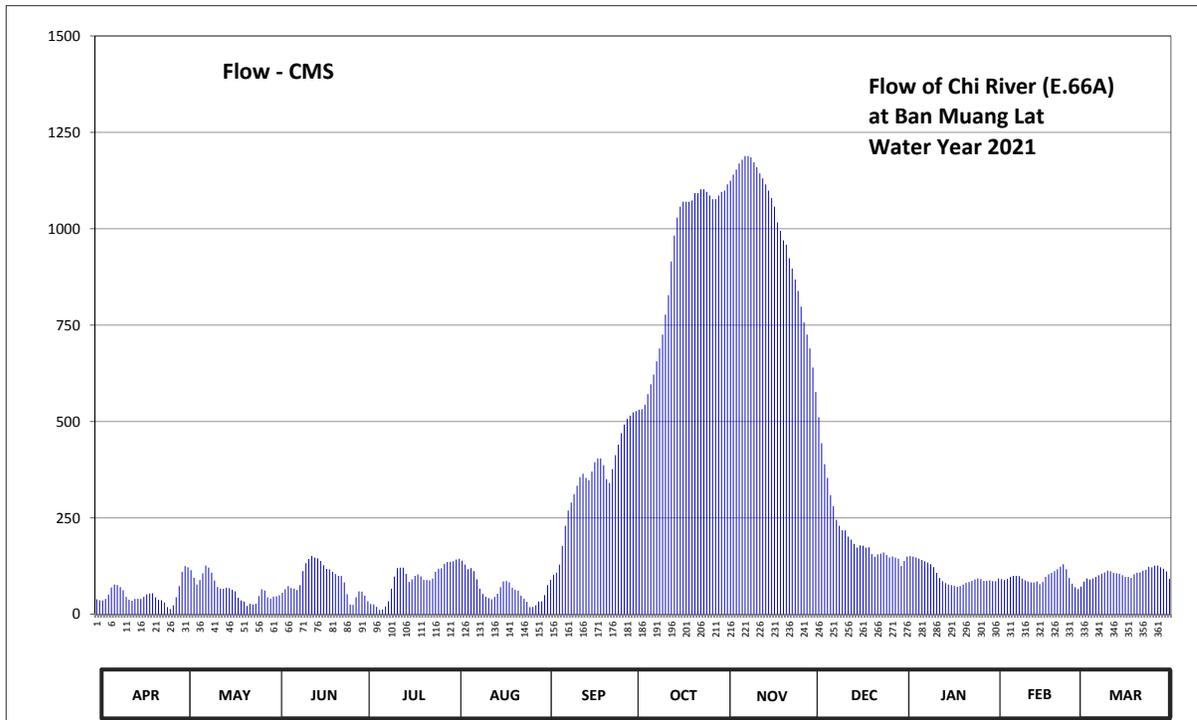
Lat 16 - 12 - 30 N Long 103 - 31 - 40 E

Location : on right bank at the bridge.

	<b>Ban Muang Lat</b>	<b>Amphoe Chang Han</b>	<b>Changwat Roi Et</b>
<b>Drainage Area</b>	31,787 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+126.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+143.058 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +138.320 m.(MSL.), record are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.45	131.88	130.58	130.61	132.17	131.06	136.91	140.05	137.37	132.29	131.35	130.99	
2	130.41	131.83	130.62	130.37	132.20	131.29	136.95	140.08	136.75	132.32	131.32	131.21	
3	130.40	131.71	130.73	130.24	132.12	131.50	136.96	140.13	136.06	132.29	131.28	131.35	
4	130.46	131.38	130.88	130.23	131.95	131.60	137.07	140.17	135.48	132.26	131.33	131.30	
5	130.65	131.09	131.02	130.12	131.75	131.95	137.32	140.22	135.07	132.21	131.41	131.35	
6	130.96	131.28	130.94	129.99	131.80	132.75	137.55	140.25	134.54	132.15	131.46	131.42	
7	131.09	131.57	130.91	130.01	131.67	133.52	137.76	140.28	134.18	132.09	131.46	131.49	
8	131.07	131.91	130.85	130.14	131.31	134.04	138.04	140.28	133.73	132.04	131.45	131.56	
9	130.98	131.82	131.06	130.37	130.91	134.30	138.29	140.27	133.52	131.97	131.34	131.61	
10	130.84	131.60	131.67	130.91	130.68	134.57	138.53	140.23	133.36	131.84	131.27	131.69	
11	130.55	131.26	132.01	131.43	130.56	134.83	138.80	140.19	133.35	131.59	131.22	131.66	
12	130.43	130.98	132.19	131.80	130.50	135.09	139.04	140.14	133.12	131.37	131.18	131.59	
13	130.39	130.91	132.33	131.82	130.45	135.19	139.40	140.10	133.01	131.23	131.18	131.58	
14	130.46	130.90	132.25	131.82	130.55	135.07	139.63	140.05	132.83	131.15	131.22	131.56	
15	130.47	130.95	132.22	131.55	130.69	135.00	139.78	140.00	132.68	131.09	131.10	131.49	
16	130.46	130.93	132.11	131.20	130.97	135.26	139.87	139.94	132.77	131.06	131.20	131.42	
17	130.56	130.86	131.92	131.31	131.22	135.54	139.91	139.87	132.76	131.03	131.42	131.42	
18	130.66	130.79	131.76	131.46	131.24	135.64	139.91	139.74	132.68	130.99	131.53	131.37	
19	130.70	130.51	131.74	131.52	131.18	135.64	139.91	139.67	132.69	131.02	131.59	131.53	
20	130.71	130.40	131.64	131.44	130.95	135.45	139.92	139.59	132.40	131.09	131.67	131.60	
21	130.54	130.35	131.54	131.29	130.86	135.03	139.98	139.55	132.29	131.16	131.75	131.61	
22	130.43	130.16	131.46	131.28	130.82	134.91	139.98	139.43	132.39	131.20	131.86	131.69	
23	130.41	130.26	131.46	131.27	130.61	135.33	140.01	139.33	132.42	131.25	131.96	131.72	
24	130.31	130.22	131.18	131.34	130.47	135.73	140.01	139.22	132.47	131.31	131.75	131.85	
25	130.11	130.26	130.67	131.63	130.34	136.02	139.99	139.09	132.36	131.35	131.37	131.83	
26	130.03	130.59	130.22	131.77	130.11	136.33	139.96	138.90	132.26	131.32	131.12	131.91	
27	130.19	130.88	130.21	131.79	130.12	136.56	139.93	138.70	132.30	131.25	130.97	131.91	
28	130.54	130.83	130.54	131.98	130.19	136.71	139.93	138.53	132.25	131.25	130.89	131.83	
29	131.02	130.53	130.79	132.06	130.35	136.79	139.96	138.29	132.20	131.27		131.77	
30	131.64	130.47	130.78	132.07	130.36	136.88	139.99	137.91	131.89	131.23		131.65	
31		130.56		132.09	130.63		140.00		132.11	131.23		131.33	
Mean	130.60	130.96	131.28	131.19	130.96	134.65	139.07	139.67	133.33	131.51	131.38	131.56	
Max	131.64	131.91	132.33	132.09	132.20	136.88	140.01	140.28	137.37	132.32	131.96	131.91	140.28
Min	130.03	130.16	130.21	129.99	130.11	131.06	136.91	137.91	131.89	130.99	130.89	130.99	129.99
Annual Max Momentary Gage Height	140.29		m. (MSL.) ,				at 01.00 Hours, on Nov 9, 2021						
Zero Gage at Bottom Elevation	126.90		m. (MSL.) ,			River Bed	127.09	m. (MSL.)					
Left Bank Elevation		138.31		m. (MSL.) ,									
Right Bank Elevation		140.75		m. (MSL.) ,		Drainage Are	31,787	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	39.00	124.80	46.80	48.60	142.20	75.60	527.00	1115.00	576.70	149.40	93.00	71.40		
2	36.60	121.80	49.20	34.20	144.00	89.40	531.00	1124.60	511.00	151.20	91.20	84.60		
3	36.00	114.60	55.80	26.40	139.20	102.00	532.00	1140.60	443.76	149.40	88.80	93.00		
4	39.60	94.80	64.80	25.80	129.00	108.00	543.70	1153.40	389.28	147.60	91.80	90.00		
5	51.00	77.40	73.20	19.20	117.00	129.00	571.20	1169.40	354.02	144.60	96.60	93.00		
6	69.60	88.80	68.40	11.40	120.00	177.50	597.00	1179.00	309.36	141.00	99.60	97.20		
7	77.40	106.20	66.60	12.60	112.20	229.52	622.20	1188.60	280.40	137.40	99.60	101.40		
8	76.20	126.60	63.00	20.40	90.60	269.20	656.20	1188.60	245.48	134.40	99.00	105.60		
9	70.80	121.20	75.60	34.20	66.60	290.00	689.60	1185.40	229.52	130.20	92.40	108.60		
10	62.40	108.00	112.20	66.60	52.80	311.88	725.80	1172.60	218.20	122.40	88.20	113.40		
11	45.00	87.60	132.60	97.80	45.60	333.72	777.00	1159.80	217.50	107.40	85.20	111.60		
12	37.80	70.80	143.40	120.00	42.00	355.74	827.80	1143.80	201.40	94.20	82.80	107.40		
13	35.40	66.60	151.80	121.20	39.00	364.34	915.00	1131.00	193.70	85.80	82.80	106.80		
14	39.60	66.00	147.00	121.20	45.00	354.02	982.30	1115.00	182.46	81.00	85.20	105.60		
15	40.20	69.00	145.20	105.00	53.40	348.00	1028.80	1099.00	173.16	77.40	78.00	101.40		
16	39.60	67.80	138.60	84.00	70.20	370.36	1057.40	1079.80	178.74	75.60	84.00	97.20		
17	45.60	63.60	127.20	90.60	85.20	394.76	1070.20	1057.40	178.12	73.80	97.20	97.20		
18	51.60	59.40	117.60	99.60	86.40	404.16	1070.20	1016.40	173.16	71.40	103.80	94.20		
19	54.00	42.60	116.40	103.20	82.80	404.16	1070.20	994.70	173.78	73.20	107.40	103.80		
20	54.60	36.00	110.40	98.40	69.00	386.70	1073.40	970.10	156.00	77.40	112.20	108.00		
21	44.40	33.00	104.40	89.40	63.60	350.58	1092.60	958.50	149.40	81.60	117.00	108.60		
22	37.80	21.60	99.60	88.80	61.20	340.44	1092.60	923.70	155.40	84.00	123.60	113.40		
23	36.60	27.60	99.60	88.20	48.60	376.38	1102.20	896.80	157.20	87.00	129.60	115.20		
24	30.60	25.20	82.80	92.40	40.20	412.62	1102.20	868.20	160.20	90.60	117.00	123.00		
25	18.60	27.60	52.20	109.80	32.40	439.92	1095.80	838.80	153.60	93.00	94.20	121.80		
26	13.80	47.40	25.20	118.20	18.60	469.68	1086.20	798.00	147.60	91.20	79.20	126.60		
27	23.40	64.80	24.60	119.40	19.20	492.00	1076.60	757.00	150.00	87.00	70.20	126.60		
28	44.40	61.80	44.40	130.80	23.40	507.00	1076.60	725.80	147.00	87.00	65.40	121.80		
29	73.20	43.80	59.40	135.60	33.00	515.00	1086.20	689.60	144.00	88.20		118.20		
30	110.40	40.20	58.80	136.20	33.60	524.00	1095.80	640.20	125.40	85.80		111.00		
31		45.60		137.40	49.80		1099.00		138.60	85.80		91.80		
<b>Total</b>	1435.20	2152.20	2656.80	2586.60	2155.80	9925.68	27873.80	30480.80	7014.14	3186.00	2655.00	3269.40	95391.42	CMSDAY
<b>Mean</b>	47.84	69.43	88.56	83.44	69.54	330.86	899.15	1016.03	226.26	102.77	94.82	105.46	261.35	CMS
<b>Max</b>	110.40	126.60	151.80	137.40	144.00	524.00	1102.20	1188.60	576.70	151.20	129.60	126.60	1188.60	CMS
<b>Min</b>	13.80	21.60	24.60	11.40	18.60	75.60	527.00	640.20	125.40	71.40	65.40	71.40	11.40	CMS
<b>Runoff</b>	124.00	185.95	229.55	223.48	186.26	857.58	2408.30	2633.54	606.02	275.27	229.39	282.48	8241.82	MCM
<b>Momentary Peak</b>	1191.80	CMS, at 140.29 m. (MSL.), at 01.00 Hours, on Nov 9, 2021												
<b>Runoff Yield</b>	8.22	Liters/Second/Square KM.					Momentary Peak Yield	37.49	Liters/Second/Square KM.					

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Phan Chat at Ban Tha Ngam, Kalasin (E.67)

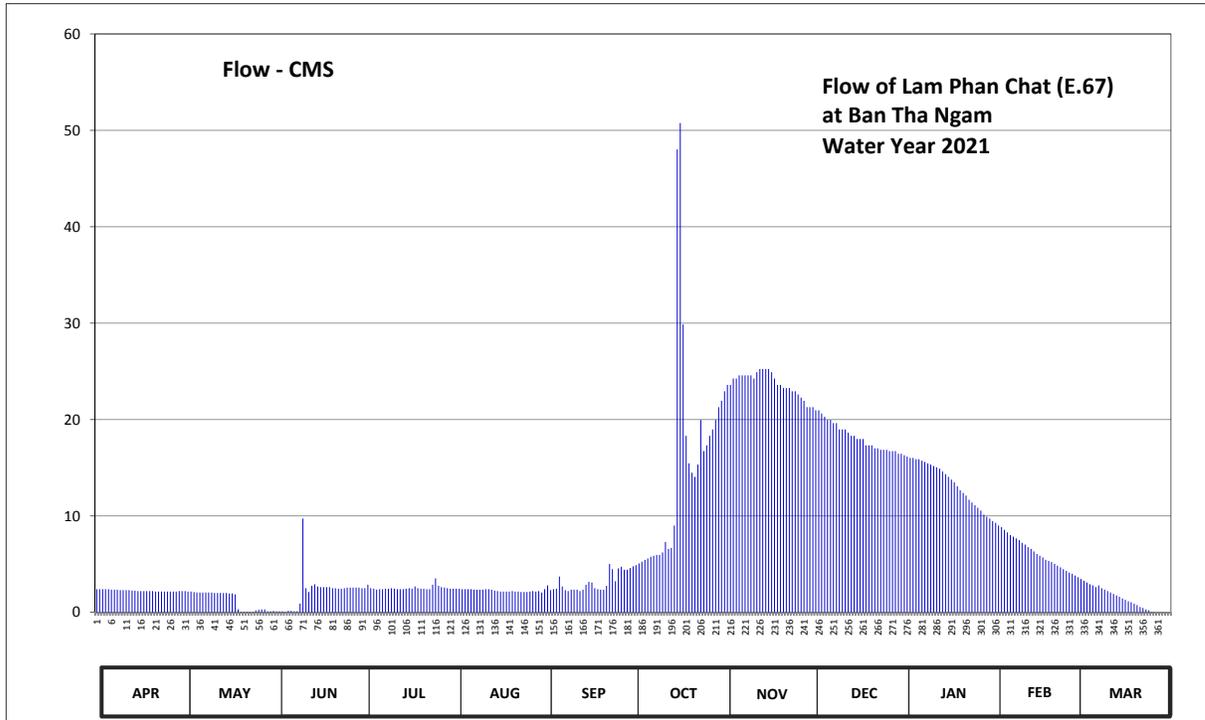
Lat 16 - 57 - 14 N Long 103 - 29 - 38 E

Location : on left bank at the bridge on road.

	<b>Ban</b>	<b>Tha Ngam</b>	<b>Amphoe</b>	<b>Kham Muang</b>	<b>Changwat</b>	<b>Kalasin</b>
<b>Drainage Area</b>	478	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+158.870 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank downstream side at the abutment of the bridge.				<b>Elevation</b>	+172.518 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1983 to date.					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1987 to date.					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1987 to date.					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow effected by Lam Pao Dam. Stage-discharge relation defined by 30 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.48	160.44	160.02	160.50	160.49	160.55	160.90	162.20	162.12	161.94	161.39	160.66	
2	160.48	160.43	160.02	160.56	160.49	160.46	160.93	162.20	162.12	161.93	161.37	160.63	
3	160.48	160.43	160.02	160.50	160.48	160.48	160.96	162.22	162.11	161.93	161.34	160.60	
4	160.48	160.42	160.01	160.49	160.48	160.49	160.99	162.22	162.10	161.92	161.31	160.57	
5	160.48	160.41	160.03	160.47	160.48	160.70	161.01	162.23	162.09	161.92	161.28	160.55	
6	160.47	160.41	160.03	160.48	160.48	160.53	161.03	162.23	162.09	161.91	161.26	160.52	
7	160.47	160.41	160.02	160.48	160.47	160.46	161.04	162.23	162.08	161.90	161.24	160.55	
8	160.47	160.41	160.02	160.49	160.47	160.44	161.05	162.23	162.08	161.89	161.22	160.50	
9	160.46	160.41	160.18	160.49	160.47	160.47	161.05	162.23	162.06	161.88	161.19	160.47	
10	160.46	160.41	161.47	160.50	160.47	160.47	161.08	162.22	162.06	161.87	161.17	160.44	
11	160.46	160.40	160.50	160.49	160.48	160.47	161.20	162.24	162.06	161.86	161.14	160.41	
12	160.46	160.40	160.42	160.48	160.48	160.44	161.12	162.25	162.05	161.85	161.12	160.38	
13	160.45	160.40	160.54	160.48	160.47	160.47	161.13	162.25	162.04	161.83	161.09	160.35	
14	160.45	160.40	160.57	160.48	160.45	160.56	161.39	162.25	162.04	161.81	161.06	160.32	
15	160.44	160.40	160.53	160.49	160.44	160.61	162.94	162.25	162.03	161.79	161.04	160.29	
16	160.44	160.39	160.52	160.50	160.43	160.60	163.02	162.24	162.03	161.77	161.02	160.26	
17	160.44	160.39	160.52	160.49	160.43	160.50	162.39	162.22	162.03	161.75	160.99	160.23	
18	160.44	160.37	160.52	160.53	160.43	160.48	162.04	162.20	162.01	161.72	160.97	160.21	
19	160.44	160.06	160.52	160.50	160.43	160.47	161.89	162.20	162.01	161.69	160.95	160.18	
20	160.44	160.01	160.50	160.49	160.44	160.47	161.82	162.19	162.01	161.67	160.92	160.15	
21	160.43	160.01	160.50	160.49	160.43	160.54	161.79	162.19	162.00	161.65	160.89	160.11	
22	160.43	160.01	160.49	160.48	160.43	160.92	161.88	162.19	162.00	161.62	160.86	160.09	
23	160.43	160.01	160.49	160.48	160.42	160.83	162.09	162.18	161.99	161.60	160.83	160.06	
24	160.43	160.01	160.50	160.56	160.42	160.62	161.98	162.18	161.99	161.58	160.80	160.04	
25	160.43	160.04	160.51	160.67	160.42	160.84	162.01	162.17	161.99	161.56	160.77	160.01	
26	160.43	160.05	160.51	160.54	160.43	160.87	162.04	162.16	161.98	161.54	160.75	160.00	
27	160.43	160.06	160.51	160.52	160.44	160.82	162.06	162.15	161.98	161.51	160.72	159.97	
28	160.43	160.06	160.51	160.51	160.43	160.82	162.09	162.13	161.98	161.49	160.69	159.94	
29	160.44	160.02	160.51	160.50	160.44	160.85	162.13	162.13	161.96	161.47		159.92	
30	160.44	160.02	160.50	160.49	160.41	160.88	162.15	162.13	161.96	161.44		159.89	
31		160.03		160.49	160.48		162.18		161.95	161.42		159.86	
Mean	160.45	160.25	160.40	160.50	160.45	160.60	161.66	162.20	162.03	161.73	161.05	160.26	
Max	160.48	160.44	161.47	160.67	160.49	160.92	163.02	162.25	162.12	161.94	161.39	160.66	163.02
Min	160.43	160.01	160.01	160.47	160.41	160.44	160.90	162.13	161.95	161.42	160.69	159.86	159.86
Annual Max Momentary Gage Height	163.87		m. (MSL.) ,				at 12.00 Hours, on Oct 15, 2021						
Zero Gage at Bottom Elevation	158.87		m. (MSL.) ,			River Bed	159.20	m. (MSL.)					
Left Bank Elevation		171.35		m. (MSL.) ,									
Right Bank Elevation		171.72		m. (MSL.) ,		Drainage Are	478	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.40	2.20	0.10	2.50	2.45	2.80	4.90	23.60	20.96	16.16	9.01	3.46		
2	2.40	2.15	0.10	2.86	2.45	2.30	5.08	23.60	20.96	16.02	8.83	3.28		
3	2.40	2.15	0.10	2.50	2.40	2.40	5.26	24.26	20.63	16.02	8.56	3.10		
4	2.40	2.10	0.05	2.45	2.40	2.45	5.44	24.26	20.30	15.88	8.29	2.92		
5	2.40	2.05	0.15	2.35	2.40	3.70	5.59	24.59	19.97	15.88	8.02	2.80		
6	2.35	2.05	0.15	2.40	2.40	2.68	5.77	24.59	19.97	15.74	7.84	2.62		
7	2.35	2.05	0.10	2.40	2.35	2.30	5.86	24.59	19.64	15.60	7.66	2.80		
8	2.35	2.05	0.10	2.45	2.35	2.20	5.95	24.59	19.64	15.46	7.48	2.50		
9	2.30	2.05	0.90	2.45	2.35	2.35	5.95	24.59	18.98	15.32	7.21	2.35		
10	2.30	2.05	9.73	2.50	2.35	2.35	6.22	24.26	18.98	15.18	7.03	2.20		
11	2.30	2.00	2.50	2.45	2.40	2.35	7.30	24.92	18.98	15.04	6.76	2.05		
12	2.30	2.00	2.10	2.40	2.40	2.20	6.58	25.25	18.65	14.90	6.58	1.90		
13	2.25	2.00	2.74	2.40	2.35	2.35	6.67	25.25	18.32	14.62	6.31	1.75		
14	2.25	2.00	2.92	2.40	2.25	2.86	9.01	25.25	18.32	14.34	6.04	1.60		
15	2.20	2.00	2.68	2.45	2.20	3.16	48.02	25.25	17.99	14.06	5.86	1.45		
16	2.20	1.95	2.62	2.50	2.15	3.10	50.76	24.92	17.99	13.78	5.68	1.30		
17	2.20	1.95	2.62	2.45	2.15	2.50	29.87	24.26	17.99	13.50	5.44	1.15		
18	2.20	1.85	2.62	2.68	2.15	2.40	18.32	23.60	17.33	13.08	5.32	1.05		
19	2.20	0.30	2.62	2.50	2.15	2.35	15.46	23.60	17.33	12.66	5.20	0.90		
20	2.20	0.05	2.50	2.45	2.20	2.35	14.48	23.27	17.33	12.38	5.02	0.75		
21	2.15	0.05	2.50	2.45	2.15	2.74	14.06	23.27	17.00	12.10	4.84	0.55		
22	2.15	0.05	2.45	2.40	2.15	5.02	15.32	23.27	17.00	11.68	4.66	0.45		
23	2.15	0.05	2.45	2.40	2.10	4.48	19.97	22.94	16.86	11.40	4.48	0.30		
24	2.15	0.05	2.50	2.86	2.10	3.22	16.72	22.94	16.86	11.12	4.30	0.20		
25	2.15	0.20	2.56	3.52	2.10	4.54	17.33	22.61	16.86	10.84	4.12	0.05		
26	2.15	0.25	2.56	2.74	2.15	4.72	18.32	22.28	16.72	10.56	4.00	0.00		
27	2.15	0.30	2.56	2.62	2.20	4.42	18.98	21.95	16.72	10.14	3.82	0.00		
28	2.15	0.30	2.56	2.56	2.15	4.42	19.97	21.29	16.72	9.91	3.64	0.00		
29	2.20	0.10	2.56	2.50	2.20	4.60	21.29	21.29	16.44	9.73	3.64	0.00		
30	2.20	0.10	2.50	2.45	2.05	4.78	21.95	21.29	16.44	9.46	3.64	0.00		
31		0.15		2.45	2.40		22.94		16.30	9.28	3.64	0.00		
<b>Total</b>	67.55	38.60	62.60	78.49	70.05	94.09	469.34	711.63	564.18	411.84	172.00	43.48	2783.85	CMSDAY
<b>Mean</b>	2.25	1.25	2.09	2.53	2.26	3.14	15.14	23.72	18.20	13.29	6.14	1.40	7.63	CMS
<b>Max</b>	2.40	2.20	9.73	3.52	2.45	5.02	50.76	25.25	20.96	16.16	9.01	3.46	50.76	CMS
<b>Min</b>	2.15	0.05	0.05	2.35	2.05	2.20	4.90	21.29	16.30	9.28	3.64	0.00	0.00	CMS
<b>Runoff</b>	5.84	3.34	5.41	6.78	6.05	8.13	40.55	61.48	48.75	35.58	14.86	3.76	240.52	MCM
<b>Momentary Peak</b>	83.06 CMS, at 163.87 m. (MSL), at 12.00 Hours, on Oct 15, 2021													
<b>Runoff Yield</b>	15.96 Liters/Second/Square KM.			Momentary Peak Yield 173.77 Liters/Second/Square KM.										

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Phaniang at Ban Khong Po , Nong Bua Lamphu (E.68A)

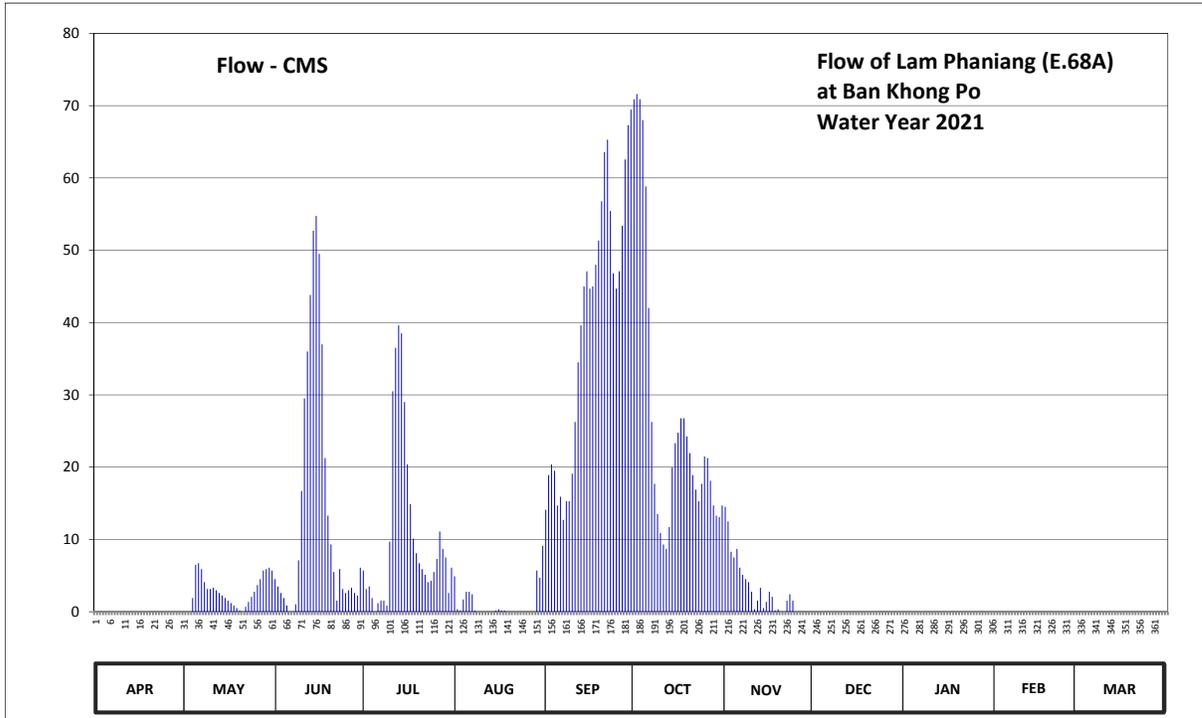
Lat 17 - 04 - 56 N Long 102 - 27 - 03 E

Location : on left bank at the bridge of Nong Bua Lamphu - Amphoe Non Sang Highway.

	Ban Khong Po	Amphoe Mueang	Changwat Nong Bua Lamphu
<b>Drainage Area</b>	1,395 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+194.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream site at the footpath of the bridge.	<b>Elevation</b>	+201.740 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +198.980 m.(MSL.), record are channel flow only.		
<b>General Description</b>	Records good. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	195.62	195.64	197.05	197.11	197.07	197.53	199.58	197.55	196.78	196.77	196.71	196.67	
2	195.61	196.05	197.00	196.98	196.82	197.77	199.60	197.45	196.78	196.77	196.71	196.66	
3	195.59	196.53	196.95	197.00	196.81	197.84	199.58	197.24	196.78	196.77	196.71	196.65	
4	195.58	196.91	196.91	196.91	196.90	197.80	199.50	197.20	196.78	196.77	196.71	196.64	
5	195.57	197.15	196.85	196.80	196.96	197.56	199.23	197.26	196.78	196.76	196.70	196.63	
6	195.55	197.16	196.79	196.87	196.96	197.62	198.70	197.13	196.78	196.76	196.70	196.62	
7	195.54	197.12	196.78	196.89	196.94	197.46	198.09	197.08	196.78	196.76	196.70	196.61	
8	195.53	197.03	196.86	196.89	196.81	197.59	197.71	197.05	196.78	196.75	196.70	196.60	
9	195.52	196.98	197.18	196.85	196.79	197.59	197.50	197.03	196.77	196.75	196.69	196.59	
10	195.52	196.98	197.66	197.31	196.79	197.78	197.37	196.96	196.77	196.75	196.69	196.58	
11	195.52	196.99	198.22	198.26	196.79	198.09	197.29	196.82	196.77	196.74	196.69	196.57	
12	195.52	196.97	198.48	198.50	196.80	198.42	197.26	196.89	196.77	196.74	196.68	196.56	
13	195.52	196.95	198.76	198.62	196.80	198.62	197.41	196.99	196.77	196.74	196.68	196.55	
14	195.52	196.93	199.05	198.58	196.79	198.80	197.82	196.83	196.77	196.74	196.68	196.54	
15	195.52	196.91	199.11	198.20	196.81	198.87	197.97	196.88	196.77	196.73	196.68	196.54	
16	195.53	196.89	198.95	197.84	196.82	198.79	198.03	196.96	196.77	196.73	196.68	196.53	
17	195.53	196.87	198.52	197.57	196.81	198.80	198.11	196.92	196.77	196.73	196.68	196.52	
18	195.53	196.85	197.88	197.33	196.81	198.90	198.11	196.81	196.77	196.73	196.68	196.51	
19	195.53	196.83	197.49	197.23	196.80	199.01	198.01	196.82	196.77	196.72	196.68	196.51	
20	195.53	196.81	197.29	197.16	196.79	199.17	197.91	196.79	196.77	196.72	196.67	196.50	
21	195.53	196.78	197.10	197.12	196.78	199.37	197.77	196.79	196.77	196.72	196.67	196.49	
22	195.53	196.84	196.89	197.08	196.77	199.42	197.67	196.89	196.77	196.72	196.67	196.48	
23	195.54	196.88	197.12	197.03	196.76	199.13	197.59	196.94	196.77	196.71	196.67	196.47	
24	195.54	196.92	196.98	197.04	196.75	198.86	197.71	196.89	196.77	196.71	196.67	196.47	
25	195.54	196.96	196.95	197.10	196.74	198.79	197.89	196.80	196.77	196.71	196.67	196.46	
26	195.54	197.01	196.97	197.19	196.72	198.87	197.88	196.79	196.77	196.71	196.67	196.46	
27	195.54	197.05	196.99	197.38	196.71	199.07	197.73	196.79	196.77	196.71	196.67	196.45	
28	195.55	197.11	196.95	197.26	196.76	199.34	197.56	196.78	196.77	196.71	196.67	196.45	
29	195.56	197.12	196.93	197.20	197.11	199.48	197.49	196.78	196.77	196.71	196.67	196.45	
30	195.57	197.13	197.13	196.95	197.06	199.54	197.48	196.78	196.77	196.71	196.67	196.45	
31		197.11		197.13	197.28		197.56		196.77	196.71		196.45	
Mean	195.54	196.89	197.46	197.33	196.85	198.53	198.04	196.96	196.77	196.73	196.68	196.54	
Max	195.62	197.16	199.11	198.62	197.28	199.54	199.60	197.55	196.78	196.77	196.71	196.67	199.60
Min	195.52	195.64	196.78	196.80	196.71	197.46	197.26	196.78	196.77	196.71	196.67	196.45	195.52
Annual Max Momentary Gage Height	199.60		m. (MSL.) ,			at 05.00 Hours, on Oct 2, 2021							
Zero Gage at Bottom Elevation	194.70		m. (MSL.) ,			River Bed	193.54	m. (MSL.)					
Left Bank Elevation		199.11		m. (MSL.) ,									
Right Bank Elevation		198.97		m. (MSL.) ,		Drainage Are	1,395	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	4.50	5.70	4.90	14.10	70.88	14.50	0.00	0.00	0.00	0.00	
2	0.00	0.00	3.50	3.14	0.34	18.90	71.60	12.50	0.00	0.00	0.00	0.00	
3	0.00	0.00	2.60	3.50	0.17	20.38	70.88	8.30	0.00	0.00	0.00	0.00	
4	0.00	1.88	1.88	1.88	1.70	19.50	68.00	7.50	0.00	0.00	0.00	0.00	
5	0.00	6.50	0.85	0.00	2.78	14.70	58.82	8.70	0.00	0.00	0.00	0.00	
6	0.00	6.70	0.00	1.19	2.78	15.90	42.00	6.10	0.00	0.00	0.00	0.00	
7	0.00	5.90	0.00	1.53	2.42	12.70	26.25	5.10	0.00	0.00	0.00	0.00	
8	0.00	4.10	1.02	1.53	0.17	15.30	17.70	4.50	0.00	0.00	0.00	0.00	
9	0.00	3.14	7.10	0.85	0.00	15.30	13.50	4.10	0.00	0.00	0.00	0.00	
10	0.00	3.14	16.70	9.70	0.00	19.10	10.90	2.78	0.00	0.00	0.00	0.00	
11	0.00	3.32	29.50	30.50	0.00	26.25	9.30	0.34	0.00	0.00	0.00	0.00	
12	0.00	2.96	36.00	36.50	0.00	34.50	8.70	1.53	0.00	0.00	0.00	0.00	
13	0.00	2.60	43.80	39.60	0.00	39.60	11.70	3.32	0.00	0.00	0.00	0.00	
14	0.00	2.24	52.70	38.50	0.00	45.00	19.94	0.51	0.00	0.00	0.00	0.00	
15	0.00	1.88	54.74	29.00	0.17	47.10	23.31	1.36	0.00	0.00	0.00	0.00	
16	0.00	1.53	49.50	20.38	0.34	44.70	24.75	2.78	0.00	0.00	0.00	0.00	
17	0.00	1.19	37.00	14.90	0.17	45.00	26.75	2.06	0.00	0.00	0.00	0.00	
18	0.00	0.85	21.26	10.10	0.17	48.00	26.75	0.17	0.00	0.00	0.00	0.00	
19	0.00	0.51	13.30	8.10	0.00	51.34	24.25	0.34	0.00	0.00	0.00	0.00	
20	0.00	0.17	9.30	6.70	0.00	56.78	21.93	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	5.50	5.90	0.00	63.58	18.90	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.68	1.53	5.10	0.00	65.28	16.90	1.53	0.00	0.00	0.00	0.00	
23	0.00	1.36	5.90	4.10	0.00	55.42	15.30	2.42	0.00	0.00	0.00	0.00	
24	0.00	2.06	3.14	4.30	0.00	46.80	17.70	1.53	0.00	0.00	0.00	0.00	
25	0.00	2.78	2.60	5.50	0.00	44.70	21.48	0.00	0.00	0.00	0.00	0.00	
26	0.00	3.70	2.96	7.30	0.00	47.10	21.26	0.00	0.00	0.00	0.00	0.00	
27	0.00	4.50	3.32	11.10	0.00	53.38	18.10	0.00	0.00	0.00	0.00	0.00	
28	0.00	5.70	2.60	8.70	0.00	62.56	14.70	0.00	0.00	0.00	0.00	0.00	
29	0.00	5.90	2.24	7.50	5.70	67.32	13.30	0.00	0.00	0.00	0.00	0.00	
30	0.00	6.10	6.10	2.60	4.70	69.44	13.10	0.00	0.00	0.00	0.00	0.00	
31	0.00	5.70		6.10	9.10		14.70		0.00	0.00		0.00	
Total	0.00	87.09	421.14	331.50	35.61	1179.73	833.35	91.97	0.00	0.00	0.00	0.00	2980.39 CMSDAY
Mean	0.00	2.81	14.04	10.69	1.15	39.32	26.88	3.07	0.00	0.00	0.00	0.00	8.17 CMS
Max	0.00	6.70	54.74	39.60	9.10	69.44	71.60	14.50	0.00	0.00	0.00	0.00	71.60 CMS
Min	0.00	0.00	0.00	0.00	0.00	12.70	8.70	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	7.52	36.39	28.64	3.08	101.93	72.00	7.95	0.00	0.00	0.00	0.00	257.51 MCM
Momentary Peak	71.60	CMS, at 199.60 m. (MSL.), at 05.00 Hours, on Oct 2, 2021											
Runoff Yield	5.85	Liters/Second/Square KM. Momentary Peak Yield 51.33 Liters/Second/Square KM.											

## WATER YEAR : 2021

## CHI RIVER BASIN

Lam Nam Yang at Ban Kut Kwang , Roi Et (E.70)

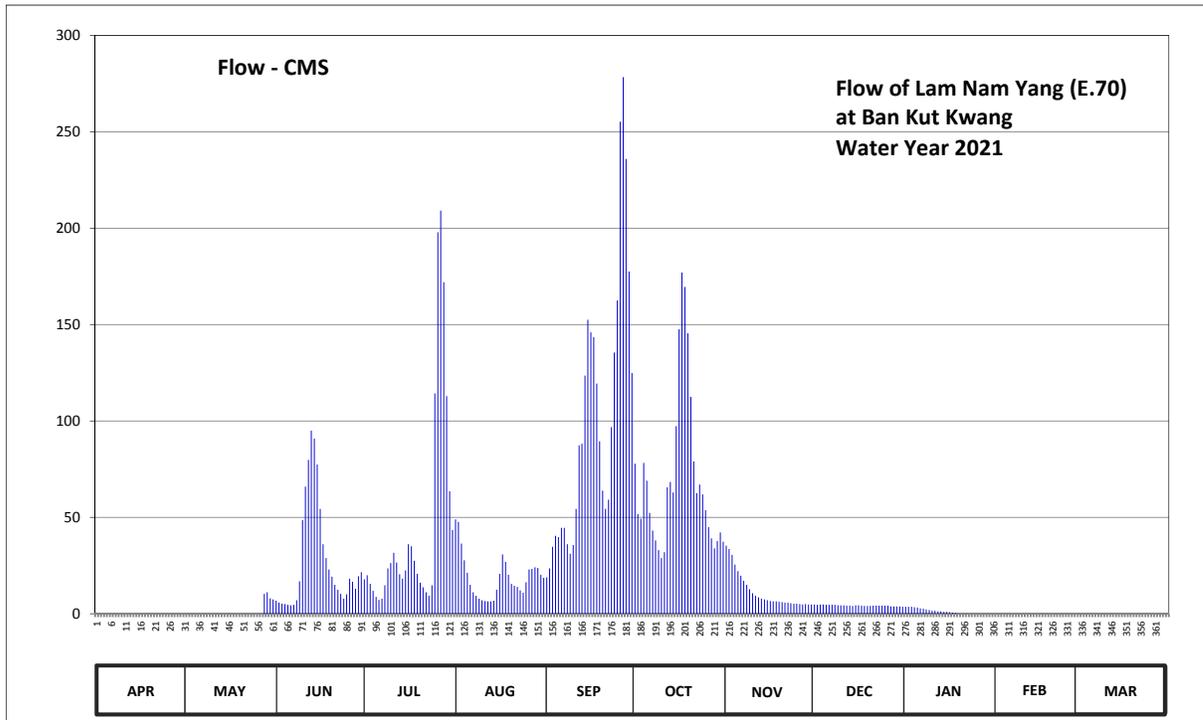
Lat 16 - 17 - 18 N Long 104 - 00 - 18 E

Location : on right bank at the bridge on highway.

	<b>Ban Kut Kwang</b>	<b>Amphoe Phon Thong</b>	<b>Changwat Roi Et</b>
<b>Drainage Area</b>	2,624 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+131.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the abutment of the bridge.		<b>Elevation</b> +143.749 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 40 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.11	131.51	131.94	132.38	133.41	132.42	134.22	133.01	131.84	131.78	131.48	131.17	
2	131.11	131.55	131.89	132.46	133.37	132.59	133.49	132.95	131.83	131.78	131.46	131.16	
3	131.11	131.49	131.86	132.29	133.04	132.99	133.42	132.84	131.84	131.78	131.44	131.16	
4	131.11	131.47	131.85	132.15	132.74	133.16	134.23	132.66	131.84	131.77	131.41	131.17	
5	131.11	131.43	131.83	132.03	132.51	133.14	134.00	132.54	131.83	131.76	131.39	131.17	
6	131.11	131.41	131.82	131.96	132.27	133.28	133.51	132.45	131.83	131.74	131.38	131.17	
7	131.12	131.39	131.83	131.99	132.12	133.28	133.24	132.35	131.83	131.73	131.36	131.16	
8	131.12	131.37	131.95	132.26	132.05	133.03	133.09	132.27	131.83	131.71	131.35	131.17	
9	131.14	131.34	132.34	132.59	131.99	132.86	132.93	132.18	131.82	131.70	131.34	131.16	
10	131.15	131.34	133.40	132.69	131.95	133.02	132.78	132.10	131.82	131.68	131.32	131.16	
11	131.16	131.32	133.91	132.88	131.93	133.57	132.89	132.05	131.82	131.68	131.30	131.18	
12	131.18	131.31	134.27	132.70	131.92	134.46	133.90	132.02	131.81	131.66	131.28	131.23	
13	131.19	131.30	134.63	132.48	131.92	134.48	133.98	131.99	131.81	131.66	131.27	131.22	
14	131.20	131.30	134.54	132.39	131.94	135.25	133.82	131.97	131.80	131.65	131.27	131.21	
15	131.21	131.29	134.21	132.55	132.17	135.85	134.68	131.95	131.82	131.65	131.26	131.19	
16	131.22	131.27	133.57	133.03	132.49	135.72	135.75	131.93	131.82	131.64	131.25	131.18	
17	131.22	131.25	133.03	133.00	132.85	135.67	136.34	131.92	131.81	131.63	131.26	131.17	
18	131.22	131.24	132.78	132.73	132.71	135.16	136.19	131.92	131.80	131.62	131.25	131.16	
19	131.22	131.23	132.57	132.49	132.47	134.51	135.71	131.91	131.80	131.60	131.24	131.16	
20	131.23	131.22	132.43	132.31	132.29	133.85	135.01	131.90	131.80	131.58	131.24	131.15	
21	131.23	131.20	132.27	132.22	132.25	133.57	134.25	131.89	131.81	131.56	131.23	131.15	
22	131.23	131.18	132.17	132.12	132.23	133.71	133.81	131.89	131.81	131.55	131.22	131.15	
23	131.23	131.17	132.09	132.05	132.16	134.67	133.94	131.87	131.81	131.54	131.21	131.15	
24	131.24	131.18	131.99	132.26	132.11	135.51	133.79	131.86	131.81	131.52	131.20	131.20	
25	131.24	131.20	132.08	135.05	132.32	136.05	133.55	131.86	131.81	131.51	131.20	131.25	
26	131.24	131.22	132.39	136.73	132.57	137.66	133.29	131.85	131.81	131.50	131.20	131.23	
27	131.22	131.49	132.33	136.93	132.58	137.99	133.12	131.84	131.79	131.51	131.20	131.21	
28	131.25	132.09	132.19	136.24	132.61	137.37	132.96	131.85	131.79	131.52	131.19	131.20	
29	131.35	132.12	132.44	135.02	132.60	136.35	133.08	131.84	131.79	131.52	131.19	131.19	
30	131.49	132.00	132.52	133.84	132.47	135.28	133.21	131.84	131.79	131.51	131.19	131.19	
31		131.97		133.25	132.41		133.07		131.78	131.49		131.18	
Mean	131.20	131.41	132.64	133.07	132.40	134.55	133.91	132.12	131.81	131.63	131.29	131.18	
Max	131.49	132.12	134.63	136.93	133.41	137.99	136.34	133.01	131.84	131.78	131.48	131.25	137.99
Min	131.11	131.17	131.82	131.96	131.92	132.42	132.78	131.84	131.78	131.49	131.19	131.15	131.11
Annual Max Momentary Gage Height	138.06		m. (MSL.) ,			at 06.00 Hours, on Sep 27, 2021							
Zero Gage at Bottom Elevation	131.10		m. (MSL.) ,			River Bed	130.37		m. (MSL.)				
Left Bank Elevation		138.92		m. (MSL.) ,									
Right Bank Elevation		138.68		m. (MSL.) ,		Drainage Area	2,624		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.80	17.88	48.94	18.92	77.80	35.34	4.80	3.60	0.00	0.00	
2	0.00	0.00	5.80	19.96	47.58	23.52	51.66	33.60	4.60	3.60	0.00	0.00	
3	0.00	0.00	5.20	15.54	36.36	34.72	49.28	30.52	4.80	3.60	0.00	0.00	
4	0.00	0.00	5.00	11.90	27.72	40.44	78.20	25.48	4.80	3.40	0.00	0.00	
5	0.00	0.00	4.60	8.78	21.28	39.76	69.00	22.12	4.60	3.20	0.00	0.00	
6	0.00	0.00	4.40	7.20	15.02	44.52	52.34	19.70	4.60	2.80	0.00	0.00	
7	0.00	0.00	4.60	7.80	11.12	44.52	43.16	17.10	4.60	2.60	0.00	0.00	
8	0.00	0.00	7.00	14.76	9.30	36.02	38.06	15.02	4.60	2.20	0.00	0.00	
9	0.00	0.00	16.84	23.52	7.80	31.08	33.04	12.68	4.40	2.00	0.00	0.00	
10	0.00	0.00	48.60	26.32	7.00	35.68	28.84	10.60	4.40	1.60	0.00	0.00	
11	0.00	0.00	65.94	31.64	6.60	54.38	31.92	9.30	4.40	1.60	0.00	0.00	
12	0.00	0.00	79.80	26.60	6.40	87.40	65.60	8.52	4.20	1.20	0.00	0.00	
13	0.00	0.00	94.98	20.48	6.40	88.20	68.32	7.80	4.20	1.20	0.00	0.00	
14	0.00	0.00	90.84	18.14	6.80	123.50	62.88	7.40	4.00	1.00	0.00	0.00	
15	0.00	0.00	77.40	22.40	12.42	152.50	97.28	7.00	4.40	1.00	0.00	0.00	
16	0.00	0.00	54.38	36.02	20.74	146.00	147.50	6.60	4.40	0.80	0.00	0.00	
17	0.00	0.00	36.02	35.00	30.80	143.50	177.00	6.40	4.20	0.60	0.00	0.00	
18	0.00	0.00	28.84	27.44	26.88	119.36	169.50	6.40	4.00	0.40	0.00	0.00	
19	0.00	0.00	22.96	20.74	20.22	89.46	145.50	6.20	4.00	0.00	0.00	0.00	
20	0.00	0.00	19.18	16.06	15.54	63.90	112.46	6.00	4.00	0.00	0.00	0.00	
21	0.00	0.00	15.02	13.72	14.50	54.38	79.00	5.80	4.20	0.00	0.00	0.00	
22	0.00	0.00	12.42	11.12	13.98	59.14	62.54	5.80	4.20	0.00	0.00	0.00	
23	0.00	0.00	10.34	9.30	12.16	96.82	66.96	5.40	4.20	0.00	0.00	0.00	
24	0.00	0.00	7.80	14.76	10.86	135.50	61.86	5.20	4.20	0.00	0.00	0.00	
25	0.00	0.00	10.08	114.30	16.32	162.50	53.70	5.20	4.20	0.00	0.00	0.00	
26	0.00	0.00	18.14	197.88	22.96	255.20	44.86	5.00	4.20	0.00	0.00	0.00	
27	0.00	0.00	16.58	209.08	23.24	278.30	39.08	4.80	3.80	0.00	0.00	0.00	
28	0.00	10.34	12.94	172.00	24.08	235.94	33.88	5.00	3.80	0.00	0.00	0.00	
29	0.00	11.12	19.44	112.92	23.80	177.50	37.72	4.80	3.80	0.00	0.00	0.00	
30	0.00	8.00	21.56	63.56	20.22	124.88	42.14	4.80	3.80	0.00	0.00	0.00	
31	0.00	7.40		43.50	18.66		37.38		3.60	0.00	0.00	0.00	
Total	0.00	36.86	823.50	1370.32	585.70	2997.54	2158.46	345.58	132.00	36.40	0.00	0.00	8486.36 CMSDAY
Mean	0.00	1.19	27.45	44.20	18.89	99.92	69.63	11.52	4.26	1.17	0.00	0.00	23.25 CMS
Max	0.00	11.12	94.98	209.08	48.94	278.30	177.00	35.34	4.80	3.60	0.00	0.00	278.30 CMS
Min	0.00	0.00	4.40	7.20	6.40	18.92	28.84	4.80	3.60	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	3.18	71.15	118.40	50.60	258.99	186.49	29.86	11.40	3.14	0.00	0.00	733.22 MCM
Momentary Peak	283.44	CMS, at 138.06 m. (MSL.), at 06.00 Hours, on Sep 27, 2021											
Runoff Yield	8.86	Liters/Second/Square KM.			Momentary Peak Yield	108.02	Liters/Second/Square KM.						

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Chiang at Ban Chiang , Chaiyaphum (E.72)

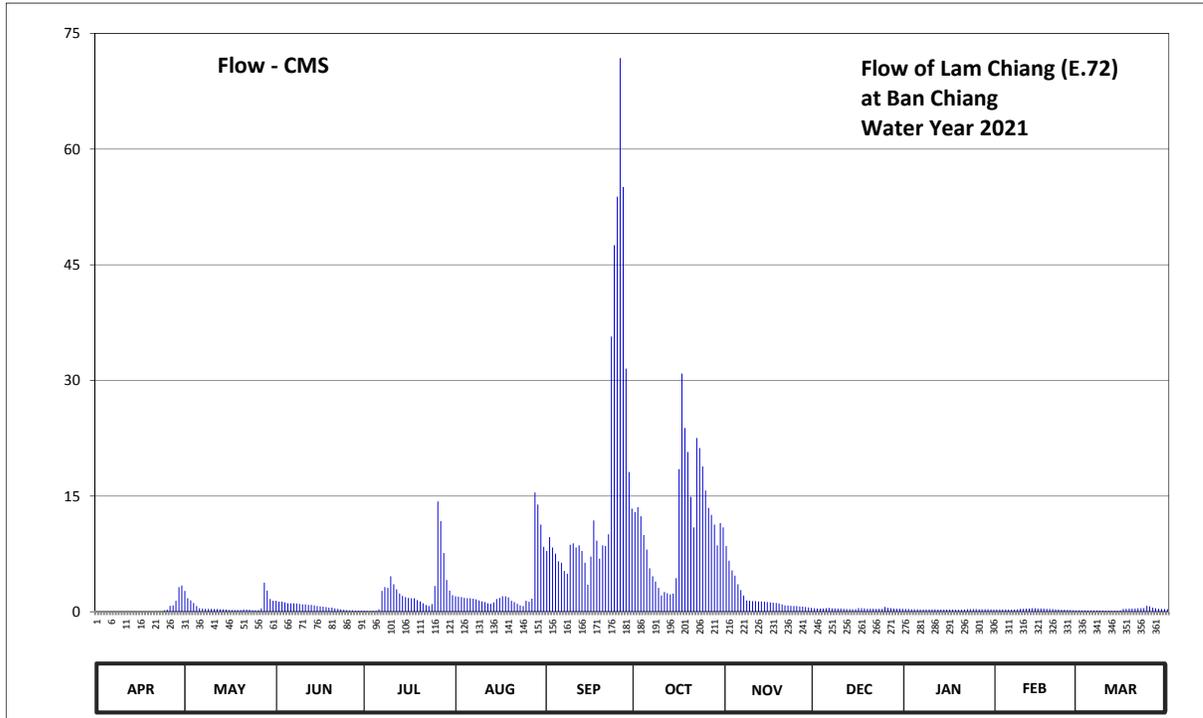
Lat 16 - 01 - 03 N Long 101 - 30 - 21 E

Location : on left bank at Ban Chiang School.

	<b>Ban Chiang</b>	<b>Amphoe</b> Phak Di Chumphon	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	331 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+234.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.	<b>Elevation</b>	+243.534 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +240.190 m.(MSL.), record are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.37	235.54	235.28	234.82	235.40	236.22	236.78	236.29	234.98	234.94	234.90	234.84	
2	234.37	235.35	235.25	234.80	235.39	236.42	236.85	236.08	234.96	234.94	234.90	234.84	
3	234.34	235.29	235.25	234.80	235.38	236.27	236.72	235.94	234.96	234.91	234.90	234.84	
4	234.34	235.21	235.23	234.81	235.36	236.18	236.45	235.86	234.96	234.91	234.90	234.83	
5	234.34	235.08	235.20	234.81	235.35	236.07	236.24	235.71	234.98	234.91	234.89	234.83	
6	234.33	234.98	235.20	234.90	235.35	236.05	235.97	235.56	235.00	234.90	234.89	234.83	
7	234.32	234.96	235.20	235.54	235.34	235.93	235.85	235.42	234.97	234.90	234.89	234.83	
8	234.31	234.93	235.19	235.64	235.32	235.89	235.76	235.29	234.97	234.90	234.90	234.83	
9	234.30	234.93	235.17	235.62	235.29	236.31	235.62	235.28	234.96	234.90	234.93	234.83	
10	234.30	234.93	235.15	235.85	235.26	236.33	235.42	235.27	234.96	234.90	234.93	234.82	
11	234.29	234.92	235.15	235.71	235.24	236.27	235.51	235.27	234.94	234.90	234.95	234.82	
12	234.29	234.92	235.13	235.58	235.20	236.30	235.48	235.26	234.92	234.89	234.96	234.82	
13	234.28	234.90	235.13	235.47	235.18	236.22	235.45	235.26	234.92	234.89	234.98	234.82	
14	234.28	234.90	235.11	235.41	235.23	236.05	235.47	235.25	234.91	234.89	234.98	234.82	
15	234.28	234.89	235.08	235.38	235.33	235.70	235.82	235.24	234.91	234.89	234.96	234.83	
16	234.28	234.86	235.07	235.36	235.36	236.14	237.29	235.23	234.99	234.89	234.96	234.94	
17	234.28	234.86	235.05	235.35	235.40	236.66	238.23	235.22	234.98	234.89	234.96	234.95	
18	234.30	234.86	235.04	235.35	235.40	236.37	237.71	235.21	234.97	234.88	234.94	234.96	
19	234.44	234.86	235.01	235.30	235.37	236.11	237.47	235.19	234.95	234.88	234.93	234.96	
20	234.58	234.86	235.01	235.26	235.28	236.30	236.99	235.15	234.95	234.88	234.92	234.96	
21	234.68	234.90	234.97	235.20	235.24	236.29	236.56	235.11	234.95	234.89	234.90	234.98	
22	234.67	234.89	234.94	235.12	235.18	236.46	237.61	235.10	234.94	234.91	234.90	234.98	
23	234.67	234.88	234.90	235.08	235.11	238.53	237.51	235.09	234.93	234.92	234.88	234.99	
24	234.84	234.85	234.87	235.16	235.08	239.24	237.32	235.08	234.94	234.92	234.88	235.09	
25	234.88	234.84	234.85	235.67	235.28	239.59	237.06	235.08	235.04	234.92	234.87	235.07	
26	235.09	234.85	234.84	236.93	235.25	240.53	236.84	235.06	235.00	234.91	234.86	235.01	
27	235.11	234.97	234.84	236.65	235.34	239.66	236.74	235.05	234.98	234.91	234.85	234.98	
28	235.28	235.74	234.82	236.19	237.04	238.27	236.60	235.04	234.96	234.91	234.84	234.95	
29	235.64	235.55	234.82	235.79	236.89	237.26	236.30	235.02	234.95	234.91	234.90	234.94	
30	235.68	235.33	234.82	235.55	236.60	236.83	236.62	235.00	234.95	234.90	234.90	234.92	
31		235.28		235.43	236.28		236.56		234.95	234.90		234.91	
Mean	234.57	235.04	235.05	235.44	235.47	236.88	236.54	235.32	234.96	234.90	234.91	234.90	
Max	235.68	235.74	235.28	236.93	237.04	240.53	238.23	236.29	235.04	234.94	234.98	235.09	240.53
Min	234.28	234.84	234.82	234.80	235.08	235.70	235.42	235.00	234.91	234.88	234.84	234.82	234.28
Annual Max Momentary Gage Height	240.70		m. (MSL.) ,			at 18.00 Hours, on Sep 26, 2021							
Zero Gage at Bottom Elevation	234.10		m. (MSL.) ,			River Bed	234.95	m. (MSL.)					
Left Bank Elevation		243.34		m. (MSL.) ,									
Right Bank Elevation		240.18		m. (MSL.) ,		Drainage Are	331	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.70	1.42	0.14	2.00	7.88	12.92	8.51	0.46	0.38	0.30	0.18	
2	0.00	1.75	1.30	0.10	1.95	9.68	13.55	6.62	0.42	0.38	0.30	0.18	
3	0.00	1.46	1.30	0.10	1.90	8.33	12.38	5.36	0.42	0.32	0.30	0.18	
4	0.00	1.14	1.22	0.12	1.80	7.52	9.95	4.68	0.42	0.32	0.30	0.16	
5	0.00	0.74	1.10	0.12	1.75	6.53	8.06	3.57	0.46	0.32	0.28	0.16	
6	0.00	0.46	1.10	0.30	1.75	6.35	5.63	2.80	0.50	0.30	0.28	0.16	
7	0.00	0.42	1.10	2.70	1.70	5.27	4.60	2.10	0.44	0.30	0.28	0.16	
8	0.00	0.36	1.07	3.20	1.60	4.92	3.92	1.46	0.44	0.30	0.30	0.16	
9	0.00	0.36	1.01	3.10	1.46	8.69	3.10	1.42	0.42	0.30	0.36	0.16	
10	0.00	0.36	0.95	4.60	1.34	8.87	2.10	1.38	0.42	0.30	0.36	0.14	
11	0.00	0.34	0.95	3.57	1.26	8.33	2.55	1.38	0.38	0.30	0.40	0.14	
12	0.00	0.34	0.89	2.90	1.10	8.60	2.40	1.34	0.34	0.28	0.42	0.14	
13	0.00	0.30	0.89	2.35	1.04	7.88	2.25	1.34	0.34	0.28	0.46	0.14	
14	0.00	0.30	0.83	2.05	1.22	6.35	2.35	1.30	0.32	0.28	0.46	0.14	
15	0.00	0.28	0.74	1.90	1.65	3.50	4.36	1.26	0.32	0.28	0.42	0.16	
16	0.00	0.22	0.71	1.80	1.80	7.16	18.48	1.22	0.48	0.28	0.42	0.38	
17	0.00	0.22	0.65	1.75	2.00	11.84	30.88	1.18	0.46	0.28	0.42	0.40	
18	0.00	0.22	0.62	1.75	2.00	9.23	23.83	1.14	0.44	0.26	0.38	0.42	
19	0.00	0.22	0.53	1.50	1.85	6.89	20.71	1.07	0.40	0.26	0.36	0.42	
20	0.00	0.22	0.53	1.34	1.42	8.60	14.90	0.95	0.40	0.26	0.34	0.42	
21	0.00	0.30	0.44	1.10	1.26	8.51	10.94	0.83	0.40	0.28	0.30	0.46	
22	0.00	0.28	0.38	0.86	1.04	10.04	22.53	0.80	0.38	0.32	0.30	0.46	
23	0.00	0.26	0.30	0.74	0.83	35.68	21.23	0.77	0.36	0.34	0.26	0.48	
24	0.18	0.20	0.24	0.98	0.74	47.52	18.84	0.74	0.38	0.34	0.26	0.77	
25	0.26	0.18	0.20	3.35	1.42	53.82	15.72	0.74	0.62	0.34	0.24	0.71	
26	0.77	0.20	0.18	14.30	1.30	71.80	13.46	0.68	0.50	0.32	0.22	0.53	
27	0.83	0.44	0.18	11.75	1.70	55.08	12.56	0.65	0.46	0.32	0.20	0.46	
28	1.42	3.78	0.14	7.61	15.48	31.52	11.30	0.62	0.42	0.32	0.18	0.40	
29	3.20	2.75	0.14	4.13	13.91	18.12	8.60	0.56	0.40	0.32		0.38	
30	3.40	1.65	0.14	2.75	11.30	13.37	11.48	0.50	0.40	0.30		0.34	
31		1.42		2.15	8.42		10.94		0.40	0.30		0.32	
Total	10.06	23.87	21.25	85.11	89.99	497.88	356.52	56.97	13.00	9.48	9.10	9.71	1182.94 CMSDAY
Mean	0.34	0.77	0.71	2.75	2.90	16.60	11.50	1.90	0.42	0.31	0.33	0.31	3.24 CMS
Max	3.40	3.78	1.42	14.30	15.48	71.80	30.88	8.51	0.62	0.38	0.46	0.77	71.80 CMS
Min	0.00	0.18	0.14	0.10	0.74	3.50	2.10	0.50	0.32	0.26	0.18	0.14	0.00 CMS
Runoff	0.87	2.06	1.84	7.35	7.78	43.02	30.80	4.92	1.12	0.82	0.79	0.84	102.21 MCM
Momentary Peak	75.20	CMS, at 240.70 m. (MSL.), at 18.00 Hours, on Sep 26, 2021											
Runoff Yield	9.79	Liters/Second/Square KM.		Momentary Peak Yield		227.19	Liters/Second/Square KM.						

**WATER YEAR : 2021****CHI RIVER BASIN****Lam Chao at Ban Lad Chumphon , Chaiyaphum (E.73A)**

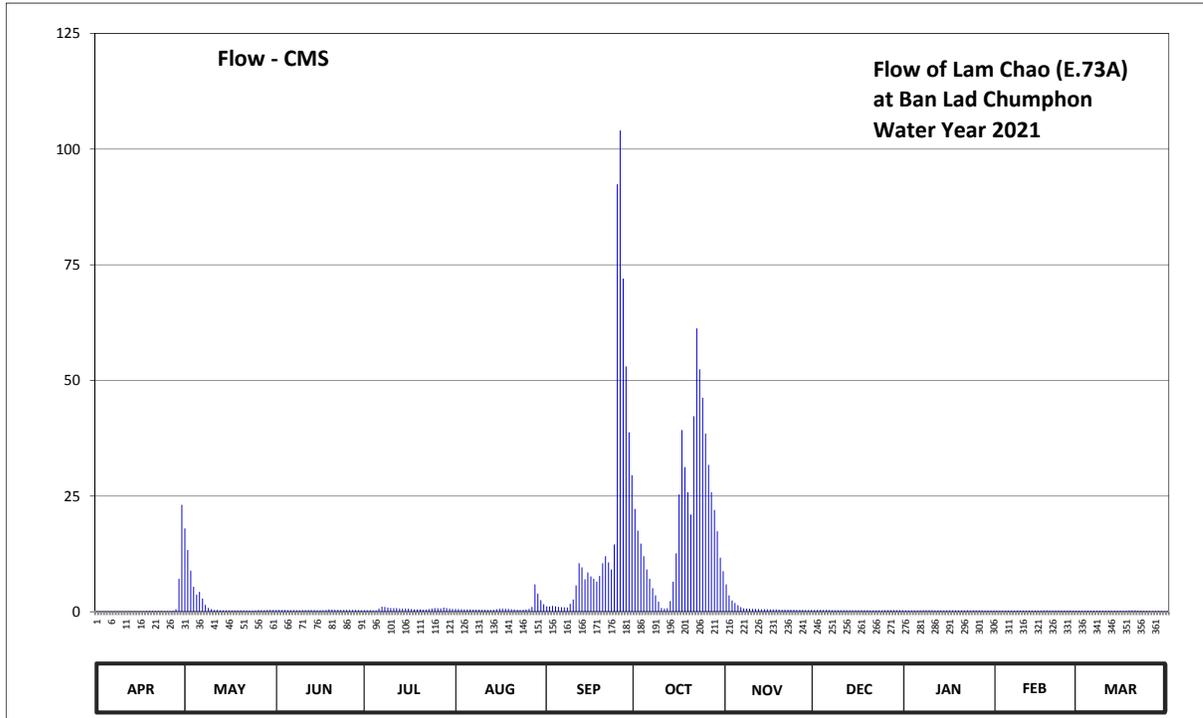
Lat 15 - 55 - 21 N Long 101 - 25 - 29 E

Location : on right bank at Ban Lad Chumphon, Tambon Ban Chiang.

	<b>Ban</b>	Lad Chumphon	<b>Amphoe</b>	Phak Di Chumphon	<b>Changwat</b>	Chaiyaphum
<b>Drainage Area</b>	223	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+257.300 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On right bank near the gage site.				<b>Elevation</b>	+266.243 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2019 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2019 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2019 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +260.740 m.(MSL.), record are channel flow only.					
<b>General Description</b>	Records fair. The local weir situated about 4 kilometers downstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2021.					

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.30	259.60	257.57	257.55	257.70	257.99	259.81	258.74	257.58	257.52	257.48	257.45	
2	257.30	259.29	257.57	257.53	257.69	257.96	259.57	258.47	257.58	257.52	257.48	257.45	
3	257.30	258.99	257.56	257.53	257.67	258.02	259.38	258.29	257.58	257.52	257.48	257.45	
4	257.30	258.69	257.56	257.52	257.66	257.99	259.20	258.17	257.57	257.52	257.47	257.45	
5	257.30	258.49	257.55	257.52	257.65	257.94	259.01	258.05	257.56	257.52	257.47	257.45	
6	257.30	258.57	257.55	257.74	257.65	257.90	258.85	257.90	257.56	257.52	257.47	257.44	
7	257.30	258.37	257.53	257.95	257.64	257.88	258.66	257.76	257.55	257.53	257.47	257.44	
8	257.30	258.07	257.53	257.91	257.63	257.87	258.47	257.74	257.55	257.53	257.47	257.44	
9	257.30	257.81	257.55	257.85	257.62	258.13	258.23	257.72	257.55	257.53	257.47	257.44	
10	257.30	257.68	257.58	257.80	257.61	258.33	257.81	257.70	257.55	257.53	257.46	257.44	
11	257.30	257.59	257.58	257.79	257.60	258.72	257.72	257.70	257.54	257.52	257.46	257.44	
12	257.30	257.56	257.58	257.79	257.58	259.10	257.77	257.69	257.54	257.51	257.46	257.43	
13	257.30	257.52	257.58	257.75	257.57	259.04	258.26	257.68	257.54	257.51	257.46	257.43	
14	257.30	257.51	257.56	257.74	257.61	258.84	258.80	257.68	257.54	257.51	257.46	257.43	
15	257.30	257.51	257.55	257.74	257.67	258.96	259.24	257.67	257.54	257.51	257.45	257.42	
16	257.30	257.51	257.55	257.72	257.73	258.89	259.95	257.66	257.54	257.51	257.45	257.42	
17	257.30	257.51	257.54	257.69	257.75	258.85	260.51	257.65	257.53	257.50	257.49	257.42	
18	257.36	257.50	257.57	257.65	257.73	258.80	260.19	257.65	257.53	257.50	257.49	257.48	
19	257.40	257.50	257.65	257.65	257.70	258.90	259.97	257.64	257.53	257.50	257.48	257.50	
20	257.40	257.50	257.64	257.65	257.68	259.10	259.75	257.63	257.52	257.50	257.48	257.49	
21	257.38	257.50	257.61	257.63	257.65	259.20	260.63	257.63	257.50	257.50	257.47	257.45	
22	257.38	257.50	257.60	257.63	257.63	259.11	261.28	257.63	257.50	257.49	257.47	257.43	
23	257.36	257.48	257.59	257.69	257.60	259.01	261.00	257.62	257.50	257.49	257.47	257.41	
24	257.35	257.48	257.58	257.74	257.62	259.37	260.78	257.62	257.50	257.49	257.46	257.39	
25	257.35	257.48	257.58	257.80	257.65	262.16	260.48	257.60	257.53	257.49	257.46	257.38	
26	257.35	257.56	257.57	257.77	257.71	262.45	260.21	257.60	257.55	257.49	257.46	257.38	
27	257.40	257.54	257.57	257.76	257.92	261.60	259.97	257.60	257.54	257.49	257.45	257.38	
28	257.67	257.53	257.56	257.84	258.74	261.02	259.80	257.59	257.54	257.48	257.45	257.36	
29	258.85	257.59	257.55	257.79	258.52	260.49	259.56	257.58	257.53	257.48	257.48	257.36	
30	259.85	257.60	257.55	257.74	258.30	260.12	259.18	257.58	257.53	257.48	257.48	257.35	
31		257.58		257.71	258.10		258.98		257.53	257.48		257.35	
Mean	257.47	257.86	257.57	257.72	257.76	259.12	259.45	257.77	257.54	257.51	257.47	257.42	
Max	259.85	259.60	257.65	257.95	258.74	262.45	261.28	258.74	257.58	257.53	257.49	257.50	262.45
Min	257.30	257.48	257.53	257.52	257.57	257.87	257.72	257.58	257.50	257.48	257.45	257.35	257.30
Annual Max Momentary Gage Height	263.15		m. (MSL.) ,				at 18.00 Hours, on Sep 25, 2021						
Zero Gage at Bottom Elevation	257.30		m. (MSL.) ,			River Bed	257.43	m. (MSL.)					
Left Bank Elevation		260.73		m. (MSL.) ,									
Right Bank Elevation		263.66		m. (MSL.) ,		Drainage Are	223	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	18.00	0.37	0.35	0.60	1.18	22.22	5.90	0.38	0.32	0.28	0.25	
2	0.10	13.35	0.37	0.33	0.58	1.12	17.55	3.53	0.38	0.32	0.28	0.25	
3	0.10	8.88	0.36	0.33	0.54	1.28	14.70	2.45	0.38	0.32	0.28	0.25	
4	0.10	5.40	0.36	0.32	0.52	1.18	12.00	1.88	0.37	0.32	0.27	0.25	
5	0.10	3.68	0.35	0.32	0.50	1.08	9.15	1.40	0.36	0.32	0.27	0.25	
6	0.10	4.28	0.35	0.68	0.50	1.00	7.13	1.00	0.36	0.32	0.27	0.24	
7	0.10	2.85	0.33	1.10	0.48	0.96	5.10	0.72	0.35	0.33	0.27	0.24	
8	0.10	1.48	0.33	1.02	0.46	0.94	3.53	0.68	0.35	0.33	0.27	0.24	
9	0.10	0.82	0.35	0.90	0.44	1.72	2.15	0.64	0.35	0.33	0.27	0.24	
10	0.10	0.56	0.38	0.80	0.42	2.65	0.82	0.60	0.35	0.33	0.26	0.24	
11	0.10	0.39	0.38	0.78	0.40	5.70	0.64	0.60	0.34	0.32	0.26	0.24	
12	0.10	0.36	0.38	0.78	0.38	10.50	0.74	0.58	0.34	0.31	0.26	0.23	
13	0.10	0.32	0.38	0.70	0.37	9.60	2.30	0.56	0.34	0.31	0.26	0.23	
14	0.10	0.31	0.36	0.68	0.42	7.00	6.50	0.56	0.34	0.31	0.26	0.23	
15	0.10	0.31	0.35	0.68	0.54	8.50	12.60	0.54	0.34	0.31	0.25	0.22	
16	0.10	0.31	0.35	0.64	0.66	7.63	25.35	0.52	0.34	0.31	0.25	0.22	
17	0.10	0.31	0.34	0.58	0.70	7.13	39.25	0.50	0.33	0.30	0.29	0.22	
18	0.16	0.30	0.37	0.50	0.66	6.50	31.25	0.50	0.33	0.30	0.29	0.28	
19	0.20	0.30	0.50	0.50	0.60	7.75	25.81	0.48	0.33	0.30	0.28	0.30	
20	0.20	0.30	0.48	0.50	0.56	10.50	21.00	0.46	0.32	0.30	0.28	0.29	
21	0.18	0.30	0.42	0.46	0.50	12.00	42.25	0.46	0.30	0.30	0.27	0.25	
22	0.18	0.30	0.40	0.46	0.46	10.65	61.22	0.46	0.30	0.29	0.27	0.23	
23	0.16	0.28	0.39	0.58	0.40	9.15	52.40	0.44	0.30	0.29	0.27	0.21	
24	0.15	0.28	0.38	0.68	0.44	14.55	46.24	0.44	0.30	0.29	0.26	0.19	
25	0.15	0.28	0.38	0.80	0.50	92.40	38.50	0.40	0.33	0.29	0.26	0.18	
26	0.15	0.36	0.37	0.74	0.62	104.00	31.75	0.40	0.35	0.29	0.26	0.18	
27	0.20	0.34	0.37	0.72	1.04	72.00	25.81	0.40	0.34	0.29	0.25	0.18	
28	0.54	0.33	0.36	0.88	5.90	53.03	22.00	0.39	0.34	0.28	0.25	0.16	
29	7.13	0.39	0.35	0.78	3.90	38.75	17.40	0.38	0.33	0.28		0.16	
30	23.10	0.40	0.35	0.68	2.50	29.50	11.70	0.38	0.33	0.28		0.15	
31		0.38		0.62	1.60		8.75		0.33	0.28		0.15	
<b>Total</b>	<b>34.20</b>	<b>66.15</b>	<b>11.21</b>	<b>19.89</b>	<b>28.19</b>	<b>529.95</b>	<b>617.81</b>	<b>28.25</b>	<b>10.53</b>	<b>9.47</b>	<b>7.49</b>	<b>6.95</b>	<b>1370.09</b> CMSDAY
<b>Mean</b>	<b>1.14</b>	<b>2.13</b>	<b>0.37</b>	<b>0.64</b>	<b>0.91</b>	<b>17.67</b>	<b>19.93</b>	<b>0.94</b>	<b>0.34</b>	<b>0.31</b>	<b>0.27</b>	<b>0.22</b>	<b>3.75</b> CMS
<b>Max</b>	<b>23.10</b>	<b>18.00</b>	<b>0.50</b>	<b>1.10</b>	<b>5.90</b>	<b>104.00</b>	<b>61.22</b>	<b>5.90</b>	<b>0.38</b>	<b>0.33</b>	<b>0.29</b>	<b>0.30</b>	<b>104.00</b> CMS
<b>Min</b>	<b>0.10</b>	<b>0.28</b>	<b>0.33</b>	<b>0.32</b>	<b>0.37</b>	<b>0.94</b>	<b>0.64</b>	<b>0.38</b>	<b>0.30</b>	<b>0.28</b>	<b>0.25</b>	<b>0.15</b>	<b>0.10</b> CMS
<b>Runoff</b>	<b>2.95</b>	<b>5.72</b>	<b>0.97</b>	<b>1.72</b>	<b>2.44</b>	<b>45.79</b>	<b>53.38</b>	<b>2.44</b>	<b>0.91</b>	<b>0.82</b>	<b>0.65</b>	<b>0.60</b>	<b>118.38</b> MCM
<b>Momentary Peak</b>	<b>135.50</b>	<b>CMS, at 263.15 m. (MSL.), at 18.00 Hours, on Sep 25, 2021</b>											
<b>Runoff Yield</b>	<b>16.83</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 607.62 Liters/Second/Square KM.</b>											

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Pao at Ban Nong Muang , Kalasin (E.75)

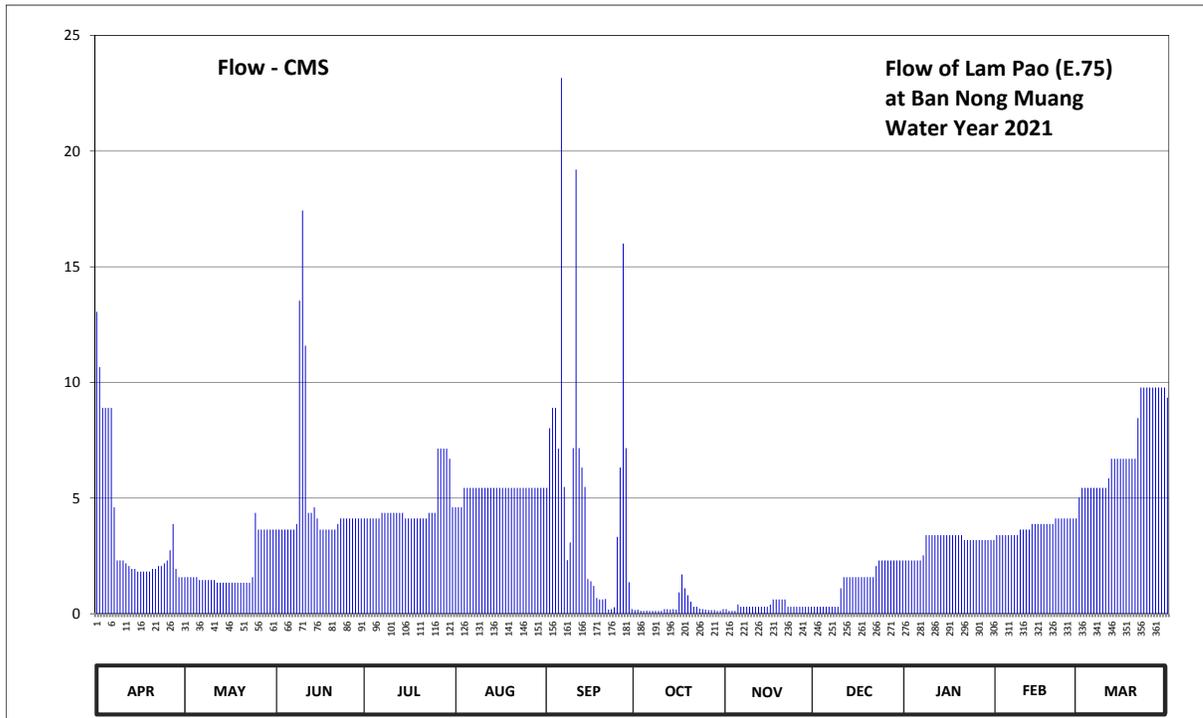
Lat 16 - 34 - 52 N Long 103 - 26 - 14 E

Location : on left bank about 3 kilometers downstream from Lam Pao Damsite.

	<b>Ban Nong Muang</b>	<b>Amphoe Mueang</b>	<b>Changwat Kalasin</b>
<b>Drainage Area</b>	6,044 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+137.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank in front of gage observer's house.	<b>Elevation</b>	+149.762 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 26 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.94	137.59	137.71	137.73	137.75	137.77	137.53	137.55	137.48	137.65	137.70	137.76	
2	137.89	137.59	137.71	137.73	137.75	137.83	137.54	137.51	137.48	137.65	137.70	137.77	
3	137.85	137.59	137.71	137.73	137.75	137.85	137.51	137.51	137.48	137.65	137.70	137.77	
4	137.85	137.59	137.71	137.73	137.77	137.85	137.51	137.51	137.48	137.65	137.70	137.77	
5	137.85	137.59	137.71	137.73	137.77	137.81	137.52	137.49	137.48	137.65	137.70	137.77	
6	137.85	137.58	137.71	137.73	137.77	138.14	137.51	137.48	137.48	137.65	137.70	137.77	
7	137.75	137.58	137.71	137.74	137.77	138.27	137.51	137.48	137.48	137.66	137.70	137.77	
8	137.65	137.58	137.72	137.74	137.77	138.18	137.51	137.48	137.48	137.70	137.70	137.77	
9	137.65	137.58	137.95	137.74	137.77	138.22	137.51	137.48	137.48	137.70	137.71	137.77	
10	137.65	137.58	138.03	137.74	137.77	138.29	137.51	137.48	137.55	137.70	137.71	137.77	
11	137.64	137.58	137.91	137.74	137.77	138.37	137.55	137.48	137.59	137.70	137.71	137.78	
12	137.63	137.57	137.74	137.74	137.77	138.29	137.55	137.48	137.59	137.70	137.71	137.80	
13	137.62	137.57	137.74	137.74	137.77	138.28	137.54	137.48	137.59	137.70	137.72	137.80	
14	137.62	137.57	137.75	137.74	137.77	138.27	137.55	137.48	137.59	137.70	137.72	137.80	
15	137.61	137.57	137.73	137.73	137.77	138.11	137.54	137.48	137.59	137.70	137.72	137.80	
16	137.61	137.57	137.71	137.73	137.77	138.10	137.91	137.49	137.59	137.70	137.72	137.80	
17	137.61	137.57	137.71	137.73	137.77	138.05	138.13	137.51	137.59	137.70	137.72	137.80	
18	137.61	137.57	137.71	137.73	137.77	137.79	138.00	137.51	137.59	137.70	137.72	137.80	
19	137.61	137.57	137.71	137.73	137.77	137.76	137.85	137.51	137.59	137.70	137.72	137.80	
20	137.62	137.57	137.71	137.73	137.77	137.76	137.71	137.51	137.59	137.70	137.72	137.80	
21	137.62	137.57	137.71	137.73	137.77	137.77	137.60	137.51	137.59	137.69	137.73	137.84	
22	137.63	137.57	137.72	137.73	137.77	137.54	137.60	137.48	137.63	137.69	137.73	137.87	
23	137.63	137.57	137.73	137.74	137.77	137.55	137.56	137.48	137.65	137.69	137.73	137.87	
24	137.64	137.59	137.73	137.74	137.77	137.59	137.55	137.48	137.65	137.69	137.73	137.87	
25	137.65	137.74	137.73	137.74	137.77	138.23	137.54	137.48	137.65	137.69	137.73	137.87	
26	137.67	137.71	137.73	137.81	137.77	138.28	137.53	137.48	137.65	137.69	137.73	137.87	
27	137.72	137.71	137.73	137.81	137.77	138.35	137.53	137.48	137.65	137.69	137.73	137.87	
28	137.62	137.71	137.73	137.81	137.77	138.29	137.53	137.48	137.65	137.69	137.73	137.87	
29	137.59	137.71	137.73	137.81	137.77	138.09	137.51	137.48	137.65	137.69		137.87	
30	137.59	137.71	137.73	137.80	137.77	137.55	137.51	137.48	137.65	137.69		137.87	
31		137.71		137.75	137.77		137.55		137.65	137.69		137.86	
Mean	137.68	137.61	137.75	137.75	137.77	138.01	137.60	137.49	137.58	137.69	137.72	137.81	
Max	137.94	137.74	138.03	137.81	137.77	138.37	138.13	137.55	137.65	137.70	137.73	137.87	138.37
Min	137.59	137.57	137.71	137.73	137.75	137.54	137.51	137.48	137.48	137.65	137.70	137.76	137.48
Annual Max Momentary Gage Height	138.52		m. (MSL.) ,				at 23.00 Hours, on Sep 6, 2021						
Zero Gage at Bottom Elevation	137.00		m. (MSL.) ,			River Bed	137.06	m. (MSL.)					
Left Bank Elevation		150.19		m. (MSL.) ,									
Right Bank Elevation		149.84		m. (MSL.) ,		Drainage Are	6,044	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.05	1.58	3.64	4.12	4.60	5.44	0.16	0.20	0.30	2.30	3.40	5.02		
2	10.66	1.58	3.64	4.12	4.60	8.02	0.18	0.12	0.30	2.30	3.40	5.44		
3	8.90	1.58	3.64	4.12	4.60	8.90	0.12	0.12	0.30	2.30	3.40	5.44		
4	8.90	1.58	3.64	4.12	5.44	8.90	0.12	0.12	0.30	2.30	3.40	5.44		
5	8.90	1.58	3.64	4.12	5.44	7.14	0.14	0.40	0.30	2.30	3.40	5.44		
6	8.90	1.46	3.64	4.12	5.44	23.16	0.12	0.30	0.30	2.30	3.40	5.44		
7	4.60	1.46	3.64	4.36	5.44	5.48	0.12	0.30	0.30	2.52	3.40	5.44		
8	2.30	1.46	3.88	4.36	5.44	2.32	0.12	0.30	0.30	3.40	3.40	5.44		
9	2.30	1.46	13.53	4.36	5.44	3.08	0.12	0.30	0.30	3.40	3.64	5.44		
10	2.30	1.46	17.43	4.36	5.44	7.16	0.12	0.30	1.10	3.40	3.64	5.44		
11	2.18	1.46	11.59	4.36	5.44	19.20	0.20	0.30	1.58	3.40	3.64	5.86		
12	2.06	1.34	4.36	4.36	5.44	7.16	0.20	0.30	1.58	3.40	3.64	6.70		
13	1.94	1.34	4.36	4.36	5.44	6.32	0.18	0.30	1.58	3.40	3.88	6.70		
14	1.94	1.34	4.60	4.36	5.44	5.48	0.20	0.30	1.58	3.40	3.88	6.70		
15	1.82	1.34	4.12	4.12	5.44	1.50	0.18	0.30	1.58	3.40	3.88	6.70		
16	1.82	1.34	3.64	4.12	5.44	1.40	0.92	0.40	1.58	3.40	3.88	6.70		
17	1.82	1.34	3.64	4.12	5.44	1.20	1.70	0.62	1.58	3.40	3.88	6.70		
18	1.82	1.34	3.64	4.12	5.44	0.68	1.10	0.62	1.58	3.40	3.88	6.70		
19	1.82	1.34	3.64	4.12	5.44	0.62	0.80	0.62	1.58	3.40	3.88	6.70		
20	1.94	1.34	3.64	4.12	5.44	0.62	0.52	0.62	1.58	3.40	3.88	6.70		
21	1.94	1.34	3.64	4.12	5.44	0.64	0.30	0.62	1.58	3.18	4.12	8.46		
22	2.06	1.34	3.88	4.12	5.44	0.18	0.30	0.30	2.06	3.18	4.12	9.78		
23	2.06	1.34	4.12	4.36	5.44	0.20	0.22	0.30	2.30	3.18	4.12	9.78		
24	2.18	1.58	4.12	4.36	5.44	0.28	0.20	0.30	2.30	3.18	4.12	9.78		
25	2.30	4.36	4.12	4.36	5.44	3.32	0.18	0.30	2.30	3.18	4.12	9.78		
26	2.74	3.64	4.12	7.14	5.44	6.32	0.16	0.30	2.30	3.18	4.12	9.78		
27	3.88	3.64	4.12	7.14	5.44	16.00	0.16	0.30	2.30	3.18	4.12	9.78		
28	1.94	3.64	4.12	7.14	5.44	7.16	0.16	0.30	2.30	3.18	4.12	9.78		
29	1.58	3.64	4.12	7.14	5.44	1.36	0.12	0.30	2.30	3.18		9.78		
30	1.58	3.64	4.12	6.70	5.44	0.20	0.12	0.30	2.30	3.18		9.78		
31		3.64		4.60	5.44		0.20		2.30	3.18		9.34		
<b>Total</b>	112.23	60.52	148.03	145.50	166.12	159.44	9.44	10.16	43.94	95.50	105.76	225.96	1282.60	CMSDAY
<b>Mean</b>	3.74	1.95	4.93	4.69	5.36	5.31	0.30	0.34	1.42	3.08	3.78	7.29	3.51	CMS
<b>Max</b>	13.05	4.36	17.43	7.14	5.44	23.16	1.70	0.62	2.30	3.40	4.12	9.78	23.16	CMS
<b>Min</b>	1.58	1.34	3.64	4.12	4.60	0.18	0.12	0.12	0.30	2.30	3.40	5.02	0.12	CMS
<b>Runoff</b>	9.70	5.23	12.79	12.57	14.35	13.78	0.82	0.88	3.80	8.25	9.14	19.52	110.82	MCM
<b>Momentary Peak</b>	45.20	CMS, at 138.52 m. (MSL.), at 23.00 Hours, on Sep 6, 2021												
<b>Runoff Yield</b>	0.58	Liters/Second/Square KM.		Momentary Peak Yield			7.48	Liters/Second/Square KM.						

## WATER YEAR : 2021

## CHI RIVER BASIN

Huai Sang Ka at Ban Phon , Kalasin (E.76A)

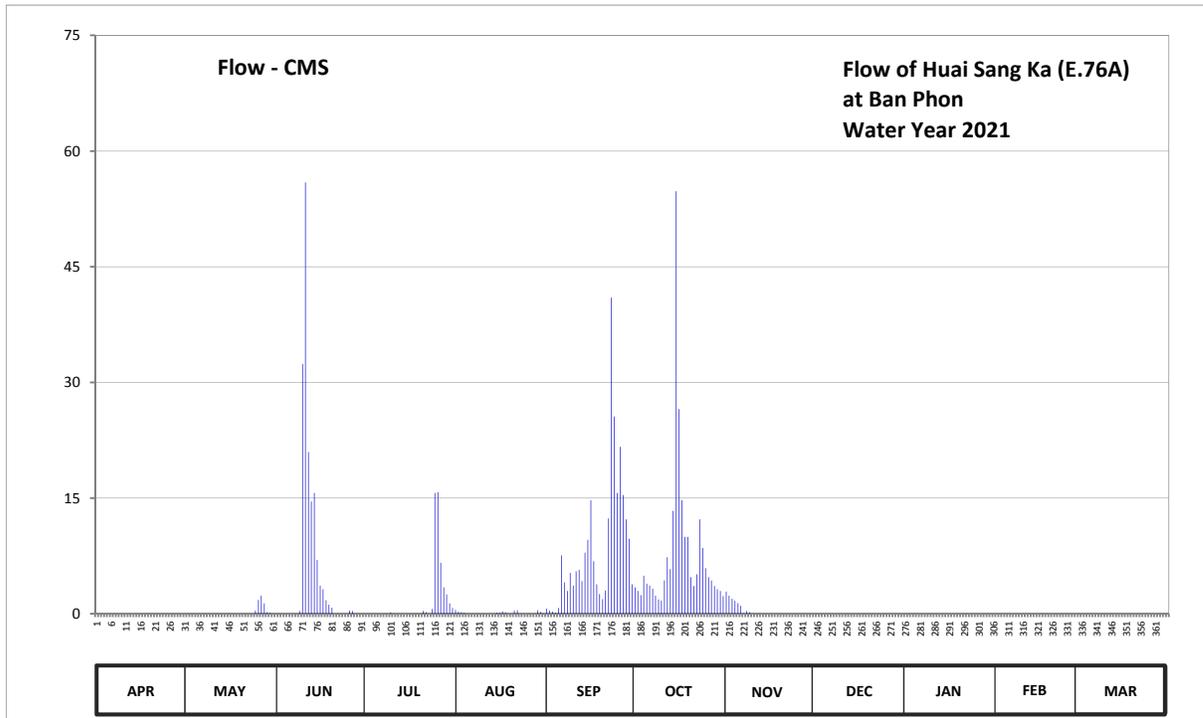
Lat 16 - 51 - 38 N Long 103 - 35 - 42 E

Location : on left bank at the bridge of Ban Phon - Ban Nong Chang Road.

	Ban Phon	Amphoe Kham Muang	Changwat Kalasin
<b>Drainage Area</b>	192 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+163.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank about 2.50 meters from the top staff gage.	<b>Elevation</b>	+173.809 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +169.660 m.(MSL.) record are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

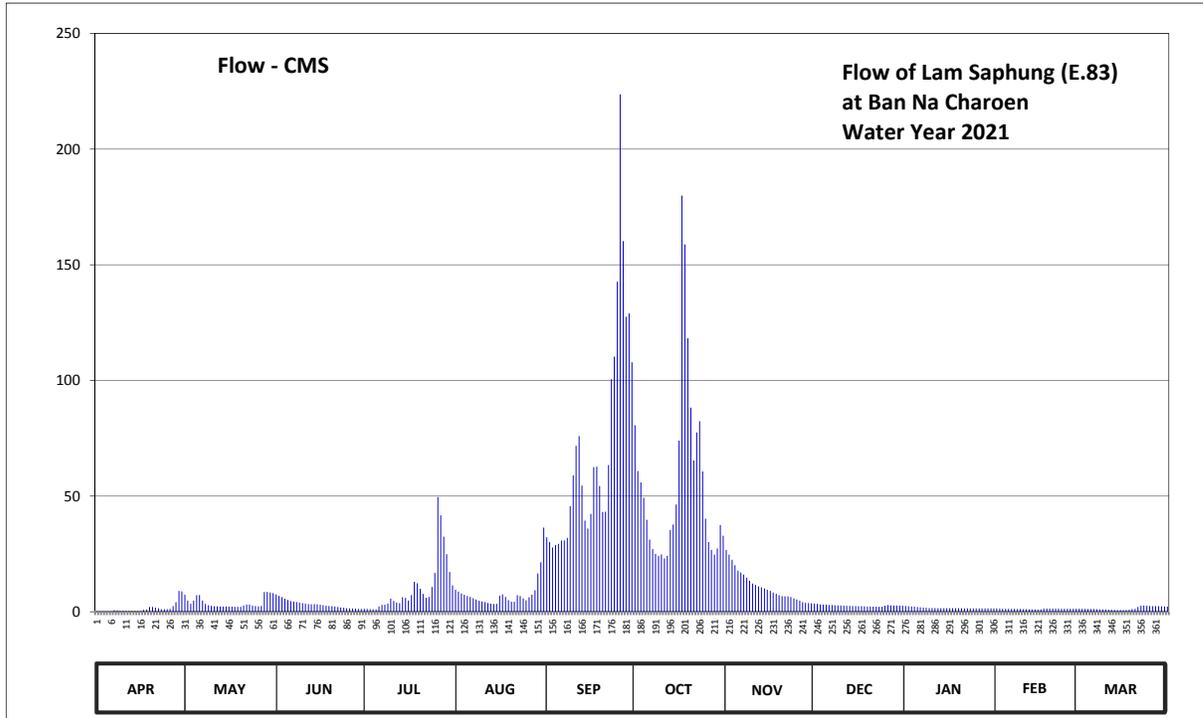
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	163.83	163.90	164.35	164.34	164.55	164.59	165.09	165.02	164.32	164.25	164.22	164.27	
2	163.83	163.90	164.35	164.33	164.49	164.53	165.03	164.95	164.32	164.25	164.22	164.27	
3	163.83	163.90	164.34	164.34	164.47	164.49	164.96	164.89	164.32	164.25	164.22	164.27	
4	163.83	163.89	164.34	164.35	164.44	164.45	165.27	164.84	164.32	164.24	164.23	164.26	
5	163.83	163.89	164.28	164.35	164.35	164.61	165.15	164.77	164.32	164.24	164.23	164.26	
6	163.83	163.89	164.28	164.38	164.33	165.53	165.12	164.68	164.32	164.24	164.23	164.26	
7	163.83	163.89	164.28	164.35	164.33	165.17	165.07	164.42	164.32	164.24	164.24	164.26	
8	163.83	163.89	164.28	164.35	164.31	165.03	164.95	164.51	164.32	164.24	164.24	164.26	
9	163.83	163.88	164.52	164.35	164.32	165.31	164.87	164.47	164.32	164.24	164.24	164.26	
10	163.83	163.88	167.41	164.46	164.31	165.12	164.84	164.39	164.32	164.23	164.23	164.26	
11	163.83	163.87	169.02	164.38	164.30	165.33	165.20	164.39	164.32	164.23	164.23	164.27	
12	163.83	163.87	166.57	164.35	164.31	165.35	165.51	164.41	164.32	164.23	164.24	164.27	
13	163.83	163.87	166.10	164.35	164.32	165.19	165.36	164.35	164.31	164.23	164.25	164.28	
14	163.83	163.86	166.18	164.35	164.32	165.56	166.01	164.38	164.31	164.23	164.26	164.27	
15	163.83	163.86	165.48	164.36	164.45	165.70	168.95	164.32	164.31	164.23	164.27	164.27	
16	163.83	163.85	165.12	164.36	164.45	166.11	166.98	164.34	164.31	164.23	164.26	164.27	
17	163.83	163.85	165.06	164.37	164.50	165.46	166.11	164.35	164.31	164.23	164.25	164.26	
18	163.83	163.84	164.85	164.37	164.46	165.14	165.73	164.34	164.30	164.23	164.25	164.26	
19	163.83	163.82	164.72	164.37	164.32	164.98	165.73	164.32	164.30	164.23	164.24	164.26	
20	163.83	163.82	164.62	164.40	164.33	164.88	165.25	164.32	164.29	164.23	164.24	164.26	
21	163.85	163.81	164.38	164.52	164.53	165.04	165.11	164.32	164.28	164.23	164.25	164.26	
22	163.86	163.80	164.41	164.47	164.54	165.93	165.29	164.32	164.28	164.23	164.26	164.26	
23	163.86	163.79	164.29	164.39	164.40	168.04	165.92	164.32	164.27	164.23	164.27	164.25	
24	163.87	163.83	164.33	164.58	164.33	166.91	165.61	164.32	164.27	164.23	164.27	164.25	
25	163.87	164.53	164.35	166.18	164.31	166.18	165.37	164.32	164.27	164.23	164.25	164.25	
26	163.88	164.86	164.53	166.19	164.31	166.62	165.25	164.32	164.26	164.23	164.23	164.26	
27	163.90	164.95	164.51	165.44	164.32	166.16	165.20	164.31	164.26	164.23	164.25	164.27	
28	163.90	164.76	164.40	165.09	164.32	165.92	165.11	164.32	164.26	164.23	164.26	164.25	
29	163.90	164.47	164.35	164.97	164.54	165.71	165.06	164.32	164.25	164.23	164.25	164.25	
30	163.90	164.44	164.34	164.76	164.48	165.14	165.03	164.32	164.25	164.22	164.25	164.25	
31		164.36		164.61	164.41		164.94		164.25	164.22		164.26	
Mean	163.85	164.03	164.93	164.60	164.39	165.47	165.45	164.46	164.30	164.23	164.24	164.26	
Max	163.90	164.95	169.02	166.19	164.55	168.04	168.95	165.02	164.32	164.25	164.27	164.28	169.02
Min	163.83	163.79	164.28	164.33	164.30	164.45	164.84	164.31	164.25	164.22	164.22	164.25	163.79
Annual Max Momentary Gage Height	170.05		m. (MSL.) ,				at 06.00 Hours, on Jun 11, 2021						
Zero Gage at Bottom Elevation	163.90		m. (MSL.) ,			River Bed	163.80	m. (MSL)					
Left Bank Elevation		171.59		m. (MSL.) ,									
Right Bank Elevation		169.65		m. (MSL.) ,		Drainage Are	192	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.50	0.66	3.42	2.86	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.27	0.42	2.94	2.35	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.21	0.27	2.42	1.95	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.12	0.15	4.93	1.70	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.74	3.90	1.38	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	7.56	3.66	1.02	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	4.06	3.26	0.06	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	2.94	2.35	0.34	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.38	0.00	0.00	5.30	1.85	0.21	0.00	0.00	0.00	0.00	
10	0.00	0.00	32.38	0.18	0.00	3.66	1.70	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	55.92	0.00	0.00	5.50	4.30	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	20.95	0.00	0.00	5.70	7.32	0.03	0.00	0.00	0.00	0.00	
13	0.00	0.00	14.56	0.00	0.00	4.22	5.80	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	15.65	0.00	0.00	7.92	13.34	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	7.00	0.00	0.15	9.60	54.80	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	3.66	0.00	0.15	14.70	26.53	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	3.18	0.00	0.30	6.80	14.70	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	1.75	0.00	0.18	3.82	9.96	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	1.18	0.00	0.00	2.56	9.96	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.78	0.00	0.00	1.90	4.75	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.38	0.42	3.02	3.58	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.03	0.21	0.46	12.36	5.11	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	40.98	12.24	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.62	0.00	25.58	8.52	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.42	0.00	15.65	0.00	15.65	5.90	0.00	0.00	0.00	0.00	0.00	
26	0.00	1.80	0.42	15.78	0.00	21.63	4.75	0.00	0.00	0.00	0.00	0.00	
27	0.00	2.35	0.34	6.60	0.00	15.38	4.30	0.00	0.00	0.00	0.00	0.00	
28	0.00	1.34	0.00	3.42	0.00	12.24	3.58	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.21	0.00	2.49	0.46	9.72	3.18	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.12	0.00	1.34	0.24	3.82	2.94	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.74	0.03	0.00	2.28	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	6.24	158.18	47.41	3.49	248.86	238.27	11.90	0.00	0.00	0.00	0.00	714.35 CMSDAY
<b>Mean</b>	0.00	0.20	5.27	1.53	0.11	8.30	7.69	0.40	0.00	0.00	0.00	0.00	1.96 CMS
<b>Max</b>	0.00	2.35	55.92	15.78	0.50	40.98	54.80	2.86	0.00	0.00	0.00	0.00	55.92 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.15	1.70	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.54	13.67	4.10	0.30	21.50	20.59	1.03	0.00	0.00	0.00	0.00	61.72 MCM
<b>Momentary Peak</b>	72.45	CMS, at 170.05 m. (MSL), at 06.00 Hours, on Jun 11, 2021											
<b>Runoff Yield</b>	10.19	Liters/Second/Square KM. Momentary Peak Yield 377.34 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.13	7.36	7.52	1.20	9.50	32.18	80.60	26.73	3.51	2.46	1.41	1.32		
2	0.13	4.78	6.88	1.20	8.70	30.11	60.80	24.65	3.39	2.40	1.35	1.23		
3	0.13	3.45	6.32	1.12	7.87	27.77	55.87	22.46	3.15	2.25	1.32	1.20		
4	0.13	4.78	5.60	1.08	7.36	28.81	49.24	20.15	3.06	2.22	1.32	1.18		
5	0.13	7.12	5.06	1.06	6.80	29.33	39.74	17.80	3.00	2.07	1.26	1.16		
6	0.16	7.20	4.57	2.28	6.40	30.78	31.20	17.00	2.91	1.92	1.23	1.14		
7	0.66	4.78	4.40	2.97	5.84	30.78	27.12	16.10	2.85	1.80	1.23	1.10		
8	0.62	3.36	4.20	3.00	5.28	31.90	25.04	14.70	2.79	1.71	1.18	1.06		
9	0.44	2.79	3.92	3.60	4.71	45.67	24.13	13.40	2.73	1.59	1.16	1.06		
10	0.38	2.52	3.68	5.68	4.45	58.93	24.78	12.20	2.70	1.59	1.12	1.00		
11	0.34	2.37	3.48	4.64	4.20	71.70	23.01	11.60	2.61	1.59	1.08	0.92		
12	0.34	2.31	3.30	4.00	3.80	75.90	24.13	10.90	2.55	1.53	1.04	0.88		
13	0.34	2.25	3.21	3.68	3.51	54.51	35.26	10.50	2.52	1.53	1.00	0.80		
14	0.34	2.25	3.33	6.24	3.36	39.42	37.66	10.10	2.46	1.53	1.00	0.78		
15	0.34	2.25	3.24	6.00	3.42	35.96	46.35	9.50	2.46	1.53	0.98	0.76		
16	0.35	2.25	3.00	4.78	6.96	42.30	73.90	9.00	2.40	1.53	1.04	0.76		
17	0.82	2.22	2.82	7.20	7.52	62.50	179.90	8.32	2.37	1.50	1.38	0.76		
18	0.98	2.16	2.61	12.90	6.40	62.68	158.75	7.78	2.31	1.50	1.38	0.90		
19	2.07	2.10	2.49	12.30	4.99	54.34	118.20	7.12	2.25	1.50	1.38	1.18		
20	2.04	2.13	2.37	9.90	4.35	43.10	88.25	6.72	2.25	1.50	1.35	1.20		
21	1.80	2.67	2.25	7.69	4.30	43.26	65.38	6.64	2.22	1.47	1.35	2.07		
22	1.47	3.06	2.04	6.08	7.12	63.40	77.50	6.64	2.22	1.47	1.35	2.64		
23	1.08	3.12	1.83	6.40	6.80	100.55	82.39	6.32	2.16	1.47	1.32	2.70		
24	1.10	2.64	1.71	10.70	5.76	110.20	60.63	5.76	2.16	1.47	1.32	2.61		
25	1.12	2.46	1.50	16.80	4.92	142.65	40.22	5.28	2.61	1.44	1.29	2.46		
26	1.23	2.31	1.47	49.58	6.24	223.60	30.11	4.71	2.91	1.44	1.29	2.40		
27	2.37	2.49	1.35	41.66	7.36	160.25	26.73	4.10	2.76	1.44	1.32	2.40		
28	4.10	8.50	1.32	32.46	9.30	127.50	24.65	3.84	2.70	1.41	1.32	2.37		
29	9.00	8.60	1.20	24.91	16.50	129.00	27.38	3.76	2.67	1.41		2.34		
30	8.80	8.32	1.20	17.20	21.36	107.80	37.50	3.64	2.64	1.41		2.25		
31		8.05		11.40	36.38		32.88		2.61	1.41		2.19		
<b>Total</b>	<b>42.94</b>	<b>122.65</b>	<b>97.87</b>	<b>319.71</b>	<b>241.46</b>	<b>2096.88</b>	<b>1709.30</b>	<b>327.42</b>	<b>81.93</b>	<b>51.09</b>	<b>34.77</b>	<b>46.82</b>	<b>5172.84</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>1.43</b>	<b>3.96</b>	<b>3.26</b>	<b>10.31</b>	<b>7.79</b>	<b>69.90</b>	<b>55.14</b>	<b>10.91</b>	<b>2.64</b>	<b>1.65</b>	<b>1.24</b>	<b>1.51</b>	<b>14.17</b>	<b>CMS</b>
<b>Max</b>	<b>9.00</b>	<b>8.60</b>	<b>7.52</b>	<b>49.58</b>	<b>36.38</b>	<b>223.60</b>	<b>179.90</b>	<b>26.73</b>	<b>3.51</b>	<b>2.46</b>	<b>1.41</b>	<b>2.70</b>	<b>223.60</b>	<b>CMS</b>
<b>Min</b>	<b>0.13</b>	<b>2.10</b>	<b>1.20</b>	<b>1.06</b>	<b>3.36</b>	<b>27.77</b>	<b>23.01</b>	<b>3.64</b>	<b>2.16</b>	<b>1.41</b>	<b>0.98</b>	<b>0.76</b>	<b>0.13</b>	<b>CMS</b>
<b>Runoff</b>	<b>3.71</b>	<b>10.60</b>	<b>8.46</b>	<b>27.62</b>	<b>20.86</b>	<b>181.17</b>	<b>147.68</b>	<b>28.29</b>	<b>7.08</b>	<b>4.41</b>	<b>3.00</b>	<b>4.05</b>	<b>446.93</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>240.50</b>	<b>CMS, at 233.05 m. (MSL.), at 12.00 Hours, on Sep 26, 2021</b>												
<b>Runoff Yield</b>	<b>19.71</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>334.49</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Nang Dad Khok , Chaiyaphum (E.84)

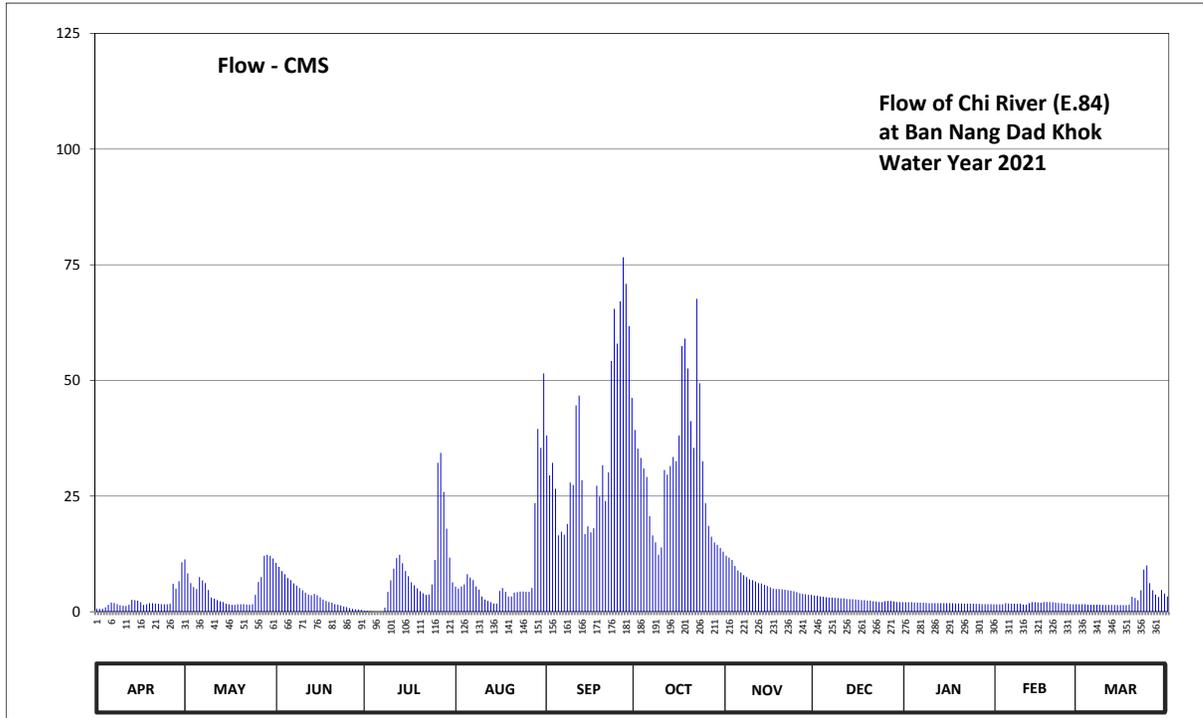
Lat 16 - 09 - 13 N Long 101 - 35 - 00 E

Location : on left bank at Ban Nang Dad Khok.

	<b>Ban</b>	<b>Nang Dad Khok</b>	<b>Amphoe</b>	<b>Nong Bua Daeng</b>	<b>Changwat</b>	<b>Chaiyaphum</b>
<b>Drainage Area</b>	491	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+237.600 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.				<b>Elevation</b>	+246.755 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2004 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2004 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2004 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +241.570 m.(MSL.) record are channel flow only.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

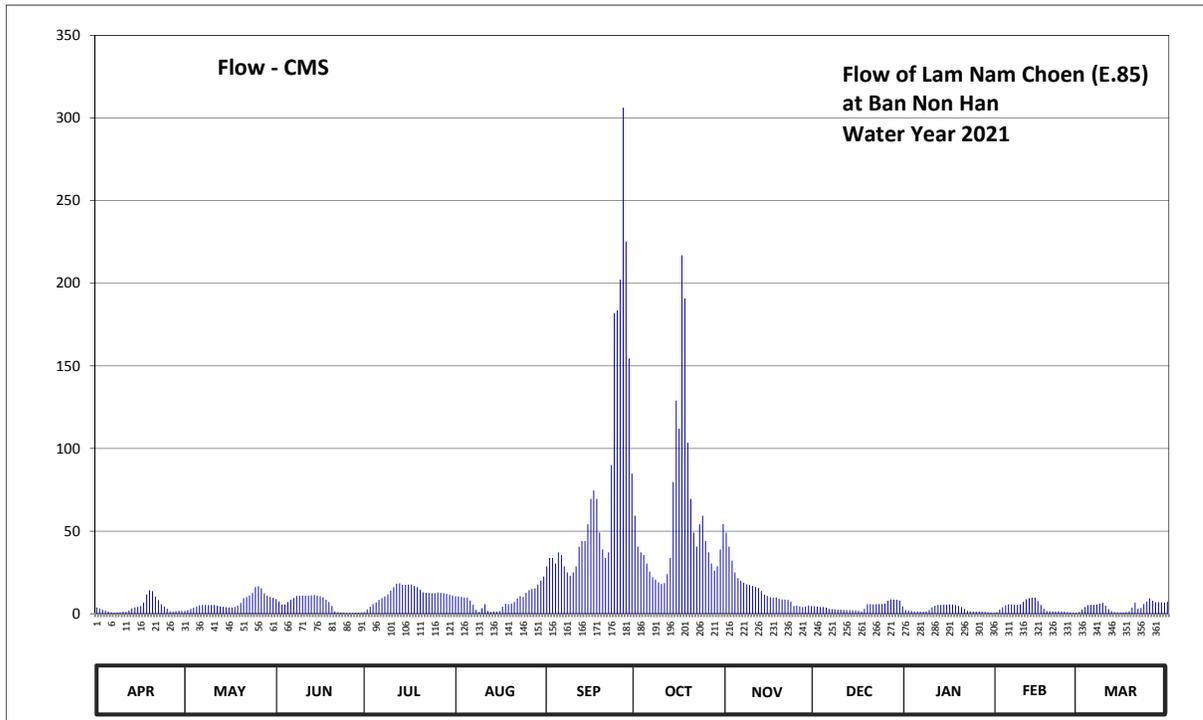
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.36	240.83	240.76	239.26	240.20	242.62	242.67	240.91	239.93	239.69	239.60	239.60	
2	239.36	240.53	240.67	239.25	240.14	242.15	242.48	240.87	239.92	239.69	239.60	239.60	
3	239.36	240.30	240.58	239.23	240.21	242.31	242.37	240.82	239.90	239.69	239.60	239.60	
4	239.44	240.19	240.51	239.22	240.26	241.98	242.24	240.69	239.89	239.68	239.65	239.58	
5	239.57	240.13	240.43	239.20	240.51	241.30	242.13	240.59	239.87	239.68	239.64	239.58	
6	239.68	240.45	240.38	239.17	240.44	241.36	241.61	240.55	239.86	239.67	239.63	239.58	
7	239.66	240.37	240.29	239.16	240.38	241.31	241.30	240.49	239.86	239.67	239.63	239.58	
8	239.61	240.30	240.23	239.42	240.21	241.49	241.18	240.45	239.85	239.66	239.62	239.58	
9	239.55	240.10	240.16	240.04	240.11	242.06	240.93	240.40	239.84	239.65	239.62	239.57	
10	239.53	239.86	240.09	240.37	239.90	242.03	241.08	240.38	239.83	239.65	239.59	239.57	
11	239.51	239.82	240.02	240.63	239.79	242.85	242.22	240.34	239.83	239.65	239.58	239.57	
12	239.58	239.77	239.96	240.86	239.74	242.91	242.16	240.30	239.81	239.65	239.65	239.57	
13	239.78	239.72	239.94	240.93	239.69	242.09	242.27	240.29	239.80	239.65	239.70	239.57	
14	239.77	239.70	239.98	240.75	239.63	241.32	242.38	240.25	239.80	239.65	239.69	239.56	
15	239.75	239.62	239.94	240.58	239.63	241.45	242.33	240.22	239.79	239.65	239.68	239.56	
16	239.69	239.60	239.87	240.47	240.07	241.35	242.62	240.18	239.78	239.65	239.67	239.56	
17	239.57	239.57	239.79	240.32	240.16	241.42	243.11	240.14	239.77	239.65	239.70	239.56	
18	239.60	239.57	239.74	240.24	240.04	242.02	243.14	240.13	239.77	239.64	239.70	239.58	
19	239.65	239.60	239.70	240.15	239.90	241.88	243.02	240.13	239.75	239.64	239.70	239.89	
20	239.65	239.60	239.67	240.06	239.90	242.28	242.74	240.12	239.75	239.64	239.69	239.85	
21	239.63	239.61	239.61	240.00	240.02	241.82	242.49	240.11	239.73	239.63	239.67	239.76	
22	239.62	239.59	239.58	239.95	240.03	242.19	243.30	240.09	239.72	239.63	239.66	240.09	
23	239.61	239.58	239.54	239.96	240.05	243.05	242.96	240.08	239.70	239.63	239.65	240.61	
24	239.60	239.60	239.48	240.26	240.05	243.26	242.33	240.06	239.70	239.63	239.64	240.70	
25	239.60	239.95	239.45	240.82	240.04	243.12	241.79	240.03	239.73	239.62	239.63	240.30	
26	239.62	240.33	239.40	242.31	240.04	243.29	241.46	240.00	239.74	239.62	239.61	240.09	
27	240.28	240.45	239.35	242.43	240.16	243.46	241.28	239.98	239.74	239.61	239.60	239.96	
28	240.14	240.91	239.33	241.94	241.79	243.36	241.18	239.97	239.72	239.61	239.60	239.88	
29	240.35	240.93	239.32	241.41	242.68	243.19	241.13	239.95	239.70	239.61		240.10	
30	240.77	240.91	239.30	240.87	242.49	242.90	241.07	239.95	239.70	239.61		239.99	
31		240.85		240.32	243.00		241.00		239.69	239.60		239.90	
Mean	239.70	240.08	239.90	240.31	240.36	242.26	242.06	240.28	239.79	239.65	239.64	239.79	
Max	240.77	240.93	240.76	242.43	243.00	243.46	243.30	240.91	239.93	239.69	239.70	240.70	243.46
Min	239.36	239.57	239.30	239.16	239.63	241.30	240.93	239.95	239.69	239.60	239.58	239.56	239.16
Annual Max Momentary Gage Height	243.50		m. (MSL.) ,				at 06.00 Hours, on Sep 27, 2021						
Zero Gage at Bottom Elevation	237.60		m. (MSL.) ,			River Bed	238.12	m. (MSL.)					
Left Bank Elevation		241.56		m. (MSL.) ,									
Right Bank Elevation		243.99		m. (MSL.) ,		Drainage Are	491	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.64	11.30	10.60	0.24	5.40	38.08	39.28	12.10	3.51	2.05	1.60	1.60	
2	0.64	8.30	9.70	0.20	4.98	29.45	35.24	11.70	3.44	2.05	1.60	1.60	
3	0.64	6.20	8.80	0.12	5.48	32.18	33.26	11.20	3.30	2.05	1.60	1.60	
4	0.96	5.33	8.10	0.08	5.88	26.56	30.98	9.90	3.24	2.00	1.85	1.52	
5	1.48	4.91	7.30	0.00	8.10	16.50	29.11	8.90	3.12	2.00	1.80	1.52	
6	2.00	7.50	6.84	0.00	7.40	17.28	20.65	8.50	3.06	1.95	1.75	1.52	
7	1.90	6.76	6.12	0.00	6.84	16.63	16.50	7.90	3.06	1.95	1.75	1.52	
8	1.65	6.20	5.64	0.88	5.48	18.97	14.98	7.50	3.00	1.90	1.70	1.52	
9	1.40	4.70	5.12	4.28	4.77	27.92	12.30	7.00	2.94	1.85	1.70	1.48	
10	1.32	3.06	4.63	6.76	3.30	27.41	13.88	6.84	2.88	1.85	1.56	1.48	
11	1.24	2.82	4.14	9.30	2.64	44.60	30.64	6.52	2.88	1.85	1.52	1.48	
12	1.52	2.52	3.72	11.60	2.34	46.73	29.62	6.20	2.76	1.85	1.85	1.48	
13	2.58	2.22	3.58	12.30	2.05	28.43	31.49	6.12	2.70	1.85	2.10	1.48	
14	2.52	2.10	3.86	10.50	1.75	16.76	33.44	5.80	2.70	1.85	2.05	1.44	
15	2.40	1.70	3.58	8.80	1.75	18.45	32.54	5.56	2.64	1.85	2.00	1.44	
16	2.05	1.60	3.12	7.70	4.49	17.15	38.08	5.26	2.58	1.85	1.95	1.44	
17	1.48	1.48	2.64	6.36	5.12	18.06	57.41	4.98	2.52	1.85	2.10	1.44	
18	1.60	1.48	2.34	5.72	4.28	27.24	59.03	4.91	2.52	1.80	2.10	1.52	
19	1.85	1.60	2.10	5.05	3.30	24.88	52.58	4.91	2.40	1.80	2.10	3.24	
20	1.85	1.60	1.95	4.42	3.30	31.66	41.20	4.84	2.40	1.80	2.05	3.00	
21	1.75	1.65	1.65	4.00	4.14	23.92	35.42	4.77	2.28	1.75	1.95	2.46	
22	1.70	1.56	1.52	3.65	4.21	30.13	67.63	4.63	2.22	1.75	1.90	4.63	
23	1.65	1.52	1.36	3.72	4.35	54.19	49.38	4.56	2.10	1.75	1.85	9.10	
24	1.60	1.60	1.12	5.88	4.35	65.48	32.54	4.42	2.10	1.75	1.80	10.00	
25	1.60	3.65	1.00	11.20	4.28	57.95	23.44	4.21	2.28	1.70	1.75	6.20	
26	1.70	6.44	0.80	32.18	4.28	67.09	18.58	4.00	2.34	1.70	1.65	4.63	
27	6.04	7.50	0.60	34.34	5.12	76.60	16.24	3.86	2.34	1.65	1.60	3.72	
28	4.98	12.10	0.52	25.88	23.44	70.85	14.98	3.79	2.22	1.65	1.60	3.18	
29	6.60	12.30	0.48	17.93	39.52	61.71	14.43	3.65	2.10	1.65		4.70	
30	10.70	12.10	0.40	11.70	35.42	46.20	13.77	3.65	2.10	1.65		3.93	
31		11.50		6.36	51.50		13.00		2.05	1.60		3.30	
Total	70.04	155.30	113.33	251.15	269.26	1079.06	951.62	188.18	81.78	56.60	50.83	89.17	3356.32 CMSDAY
Mean	2.33	5.01	3.78	8.10	8.69	35.97	30.70	6.27	2.64	1.83	1.82	2.88	9.20 CMS
Max	10.70	12.30	10.60	34.34	51.50	76.60	67.63	12.10	3.51	2.05	2.10	10.00	76.60 CMS
Min	0.64	1.48	0.40	0.00	1.75	16.50	12.30	3.65	2.05	1.60	1.52	1.44	0.00 CMS
Runoff	6.05	13.42	9.79	21.70	23.26	93.23	82.22	16.26	7.07	4.89	4.39	7.70	289.99 MCM
Momentary Peak	79.00 CMS, at 243.50 m. (MSL.), at 06.00 Hours, on Sep 27, 2021												
Runoff Yield	18.73 Liters/Second/Square KM.			Momentary Peak Yield			160.90 Liters/Second/Square KM.						





APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.85	1.70	8.85	1.00	10.55	28.70	59.30	49.10	4.55	2.25	1.00	1.10	
2	3.15	2.25	7.40	2.55	10.50	33.80	40.60	40.60	4.30	1.90	2.45	2.45	
3	2.40	2.90	5.50	4.20	10.20	33.80	37.20	32.10	4.05	1.70	3.95	4.05	
4	1.80	3.65	5.55	5.85	9.80	30.40	35.50	25.00	4.05	1.45	5.20	5.15	
5	1.35	4.40	7.10	6.95	9.80	37.20	30.40	21.60	3.65	1.40	5.65	5.40	
6	0.90	5.10	8.50	8.35	8.00	35.50	25.50	20.00	2.90	1.35	5.65	5.35	
7	0.70	5.30	9.50	9.40	5.40	28.70	22.00	18.80	2.75	1.25	5.50	5.60	
8	0.75	5.25	10.80	10.45	2.30	25.00	20.60	17.80	2.65	1.40	5.40	6.15	
9	0.90	5.20	10.90	11.70	1.10	23.00	19.00	17.40	2.45	2.25	5.65	6.55	
10	1.20	5.30	11.00	14.04	3.40	25.00	18.00	16.84	2.45	3.85	7.20	4.80	
11	1.15	5.30	11.00	16.04	5.80	28.70	18.60	16.12	2.30	4.85	8.80	2.70	
12	1.95	4.85	11.00	18.20	1.65	40.60	24.00	15.56	2.20	5.30	9.45	1.55	
13	3.20	4.45	11.15	18.40	1.15	44.00	33.80	13.80	2.25	5.40	9.80	1.00	
14	3.80	4.20	11.40	17.50	1.45	44.00	79.70	11.50	2.25	5.45	9.70	0.85	
15	4.15	3.95	10.95	17.50	1.30	54.20	129.00	10.75	2.05	5.50	7.65	0.85	
16	4.65	3.70	10.60	17.60	1.60	69.50	112.00	10.00	1.75	5.65	5.30	0.85	
17	6.75	3.70	9.90	17.70	4.25	74.60	216.90	9.70	1.35	5.60	3.00	1.05	
18	11.60	4.15	8.45	16.84	6.10	69.50	190.80	9.90	2.95	5.25	1.65	1.45	
19	14.20	4.80	7.10	16.04	5.75	49.10	103.50	9.05	5.75	4.70	1.50	3.65	
20	13.64	6.55	4.70	14.44	6.20	38.90	69.50	8.70	5.85	4.05	1.40	6.70	
21	10.35	9.45	1.45	12.95	7.10	33.80	49.10	8.55	5.70	2.95	1.45	3.10	
22	8.25	10.10	0.95	12.70	9.20	37.20	40.60	8.40	5.75	1.70	1.55	3.50	
23	5.80	11.10	0.75	12.50	10.65	89.90	54.20	7.35	5.90	1.40	1.45	5.85	
24	4.25	12.55	0.65	12.45	10.20	181.80	59.30	4.75	5.90	1.30	1.20	7.35	
25	2.95	16.20	0.50	12.40	12.60	183.60	44.00	4.90	6.05	1.35	0.95	9.30	
26	1.45	16.68	0.50	12.75	14.28	202.20	37.20	4.45	7.85	1.40	0.80	7.85	
27	1.30	15.40	0.50	12.65	15.00	306.20	30.40	4.00	8.65	1.30	0.65	6.90	
28	1.60	12.30	0.60	12.45	15.32	225.30	26.00	4.30	8.60	1.15	0.55	6.95	
29	1.85	11.00	0.70	12.05	17.60	154.50	28.70	4.95	8.50	1.00		6.80	
30	1.70	10.15	0.75	11.45	20.00	84.80	38.90	4.60	8.00	0.75		6.70	
31		9.60		11.05	22.50		54.20		4.45	0.60		7.20	
Total	121.59	221.23	188.70	380.15	260.75	2313.50	1748.50	430.57	137.85	85.45	114.50	138.75	6141.54 CMSDAY
Mean	4.05	7.14	6.29	12.26	8.41	77.12	56.40	14.35	4.45	2.76	4.09	4.48	16.83 CMS
Max	14.20	16.68	11.40	18.40	22.50	306.20	216.90	49.10	8.65	5.65	9.80	9.30	306.20 CMS
Min	0.70	1.70	0.50	1.00	1.10	23.00	18.00	4.00	1.35	0.60	0.55	0.85	0.50 CMS
Runoff	10.51	19.11	16.30	32.84	22.53	199.89	151.07	37.20	11.91	7.38	9.89	11.99	530.63 MCM
Momentary Peak	330.60	CMS, at 230.92 m. (MSL.), at 04.00 Hours, on Sep 27, 2021											
Runoff Yield	14.63	Liters/Second/Square KM.			Momentary Peak Yield			287.48	Liters/Second/Square KM.				

## WATER YEAR : 2021

## CHI RIVER BASIN

Lam Pao at Ban Wang Hin , Kalasin (E.87)

Lat 16 - 20 - 26 N Long 103 - 34 - 37 E

Location : on left bank at Ban Wang Hin.

	Ban Wang Hin	Amphoe Kamalalai	Changwat Kalasin
<b>Drainge Area</b>	7,370 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+128.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.	<b>Elevation</b>	+140.068 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.72	131.97	130.16	130.59	131.25	130.95	133.89	135.20	133.49	130.97	130.74	130.83	
2	130.69	131.69	130.09	130.39	131.08	131.00	133.58	135.19	133.16	131.04	130.77	130.83	
3	130.67	131.44	129.98	130.23	130.81	131.03	133.30	135.19	132.76	131.13	130.76	130.84	
4	130.70	131.14	129.96	130.17	130.63	131.00	133.15	135.19	132.23	131.11	130.77	130.88	
5	130.74	130.80	129.96	130.17	130.56	131.03	133.06	135.21	131.81	131.14	130.84	131.01	
6	130.77	130.73	129.94	130.16	130.46	131.60	133.01	135.22	131.52	131.13	130.96	131.06	
7	130.70	130.71	129.95	129.99	130.41	132.14	132.98	135.23	131.32	131.10	131.00	131.18	
8	130.62	130.76	130.39	129.97	130.42	132.37	133.03	135.24	131.13	131.03	130.98	131.57	
9	130.52	130.86	130.92	129.91	130.33	132.53	133.12	135.24	131.03	130.93	130.94	131.84	
10	130.44	130.78	130.72	130.32	130.29	132.92	133.21	135.24	130.96	130.88	130.88	131.80	
11	130.38	130.49	132.00	130.70	130.28	133.09	133.31	135.22	130.97	130.97	130.85	131.60	
12	130.34	130.36	131.92	130.88	130.37	133.04	133.47	135.20	131.15	130.92	130.77	131.53	
13	130.36	130.04	131.80	130.85	130.38	132.98	133.64	135.18	131.22	130.73	130.69	131.48	
14	130.37	129.95	131.55	130.74	130.52	133.25	133.89	135.15	131.12	130.65	130.69	131.38	
15	130.36	129.86	131.47	130.59	130.75	133.57	134.21	135.11	131.10	130.59	130.70	131.32	
16	130.32	129.77	131.52	130.33	131.00	133.75	134.60	135.04	131.18	130.55	130.71	131.26	
17	130.33	129.69	130.96	130.18	131.15	133.84	134.92	134.99	131.10	130.52	130.93	131.21	
18	130.48	129.78	130.46	130.17	131.15	133.83	135.10	134.90	131.09	130.48	131.09	131.18	
19	130.66	129.86	130.35	130.21	131.06	133.74	135.19	134.84	131.16	130.41	131.13	131.19	
20	130.72	129.83	130.31	130.26	130.88	133.49	135.21	134.81	131.19	130.27	131.21	131.27	
21	130.77	129.76	130.15	130.27	130.73	133.29	135.21	134.73	131.10	130.31	131.33	131.43	
22	130.71	129.72	130.14	130.23	130.69	133.21	135.22	134.63	131.08	130.37	131.46	131.45	
23	130.64	129.72	130.15	130.23	130.68	133.21	135.23	134.55	131.05	130.42	131.49	131.48	
24	130.60	129.73	130.14	130.28	130.66	133.54	135.25	134.45	131.08	130.47	131.47	131.53	
25	130.55	130.18	130.16	130.70	130.68	133.83	135.25	134.36	131.13	130.61	131.27	131.48	
26	130.51	130.60	130.21	131.25	130.64	134.04	135.22	134.26	131.07	130.72	131.07	131.57	
27	130.64	130.61	130.18	131.47	130.61	134.21	135.20	134.14	131.05	130.74	130.95	131.63	
28	131.38	130.54	130.26	131.52	130.71	134.29	135.18	134.08	131.16	130.76	130.85	131.60	
29	132.01	130.44	130.63	131.47	130.75	134.25	135.20	133.89	131.20	130.75		131.65	
30	132.12	130.31	130.73	131.40	130.77	134.12	135.21	133.72	131.13	130.76		131.69	
31		130.23		131.36	130.85		135.21		130.99	130.76		131.63	
Mean	130.69	130.40	130.57	130.55	130.70	132.97	134.30	134.85	131.38	130.75	130.97	131.37	
Max	132.12	131.97	132.00	131.52	131.25	134.29	135.25	135.24	133.49	131.14	131.49	131.84	135.25
Min	130.32	129.69	129.94	129.91	130.28	130.95	132.98	133.72	130.96	130.27	130.69	130.83	129.69
Annual Max Momentary Gage Height	135.25												at 07.00 Hours, on Oct 24, 2021
Zero Gage at Bottom Elevation	128.90						129.21						m. (MSL.)
Left Bank Elevation		139.53											m. (MSL.)
Right Bank Elevation		139.96											m. (MSL.)
Drainage Area						7,370							Square Kilometers



## WATER YEAR : 2021

## CHI RIVER BASIN

Huai Mun at Ban Khok Sung , Kalasin (E.88)

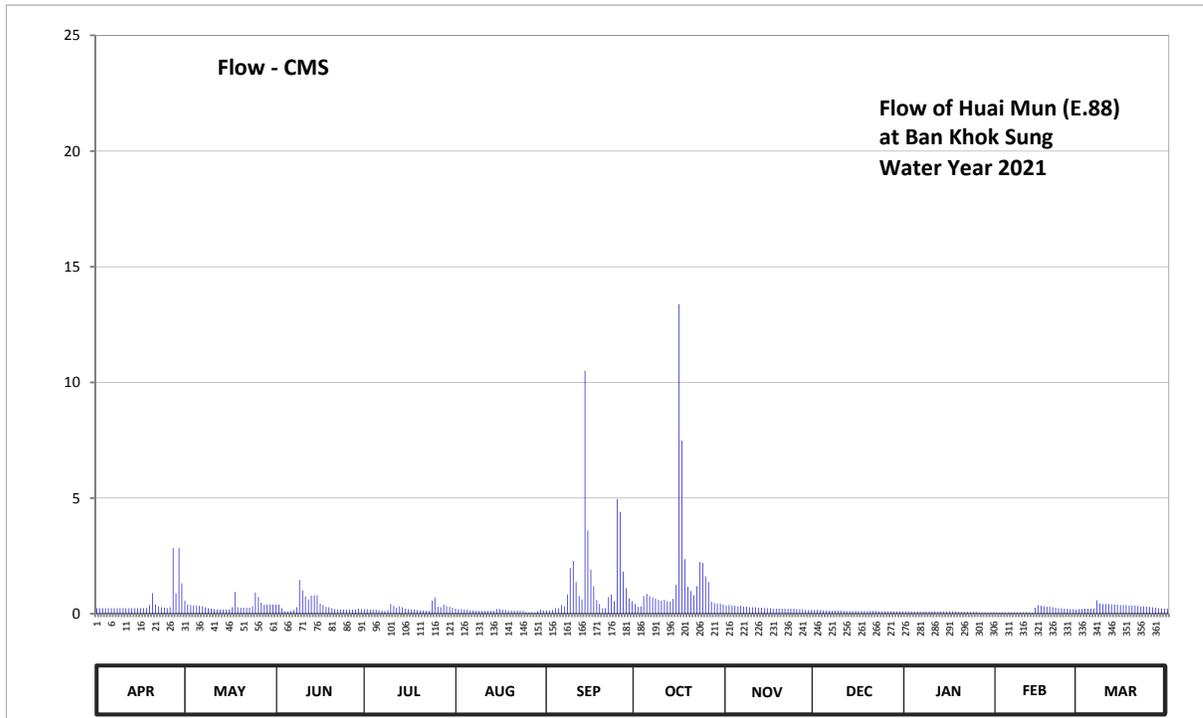
Lat 16 - 49 - 55 N Long 103 - 22 - 10 E

Location : on right bank at Ban Khok Sung.

	<b>Ban Khok Sung</b>	<b>Amphoe</b> Tha Khantho	<b>Changwat</b> Kalasin
<b>Drainage Area</b>	96 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+163.060 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank downstream at the footpath of the bridge.	<b>Elevation</b>	+168.204 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	163.32	163.48	163.40	163.30	163.31	163.27	163.41	163.38	163.28	163.25	163.23	163.30	
2	163.32	163.40	163.40	163.30	163.30	163.27	163.35	163.39	163.28	163.25	163.23	163.30	
3	163.32	163.39	163.32	163.29	163.30	163.28	163.36	163.38	163.28	163.25	163.23	163.31	
4	163.32	163.38	163.25	163.29	163.29	163.32	163.58	163.37	163.27	163.25	163.23	163.31	
5	163.32	163.38	163.25	163.29	163.29	163.32	163.62	163.36	163.27	163.25	163.23	163.31	
6	163.32	163.37	163.26	163.28	163.27	163.39	163.58	163.37	163.27	163.25	163.23	163.31	
7	163.32	163.36	163.28	163.27	163.27	163.36	163.55	163.35	163.27	163.25	163.23	163.49	
8	163.32	163.34	163.34	163.26	163.26	163.61	163.53	163.35	163.27	163.25	163.23	163.42	
9	163.32	163.32	163.82	163.28	163.26	163.99	163.50	163.34	163.27	163.25	163.23	163.41	
10	163.32	163.31	163.67	163.41	163.26	164.07	163.48	163.34	163.27	163.25	163.23	163.41	
11	163.32	163.30	163.57	163.37	163.26	163.79	163.50	163.34	163.26	163.25	163.23	163.41	
12	163.32	163.29	163.51	163.33	163.26	163.58	163.47	163.33	163.26	163.25	163.23	163.40	
13	163.32	163.29	163.59	163.36	163.26	163.51	163.46	163.33	163.26	163.25	163.22	163.40	
14	163.32	163.29	163.60	163.34	163.26	165.30	163.52	163.32	163.26	163.25	163.33	163.40	
15	163.32	163.29	163.60	163.31	163.30	164.40	163.75	163.32	163.26	163.25	163.39	163.39	
16	163.32	163.29	163.42	163.30	163.30	163.97	165.51	163.32	163.26	163.25	163.37	163.39	
17	163.32	163.34	163.39	163.29	163.29	163.73	165.02	163.31	163.26	163.25	163.36	163.39	
18	163.32	163.65	163.35	163.29	163.28	163.50	164.09	163.31	163.26	163.25	163.35	163.38	
19	163.39	163.34	163.34	163.28	163.27	163.41	163.72	163.31	163.26	163.24	163.35	163.38	
20	163.63	163.33	163.32	163.27	163.27	163.32	163.66	163.31	163.26	163.24	163.34	163.38	
21	163.40	163.33	163.30	163.27	163.27	163.32	163.60	163.31	163.26	163.24	163.33	163.37	
22	163.36	163.33	163.29	163.26	163.27	163.56	163.73	163.31	163.26	163.24	163.32	163.36	
23	163.34	163.33	163.29	163.26	163.27	163.61	164.06	163.31	163.25	163.24	163.32	163.36	
24	163.33	163.36	163.29	163.48	163.27	163.47	164.05	163.31	163.25	163.24	163.31	163.35	
25	163.32	163.64	163.29	163.55	163.24	164.66	163.87	163.30	163.25	163.24	163.31	163.35	
26	163.34	163.56	163.29	163.35	163.23	164.56	163.79	163.30	163.25	163.23	163.30	163.34	
27	164.21	163.44	163.29	163.34	163.23	163.94	163.46	163.30	163.25	163.23	163.30	163.33	
28	163.63	163.40	163.29	163.40	163.23	163.70	163.43	163.28	163.25	163.23	163.29	163.32	
29	164.21	163.40	163.31	163.36	163.26	163.53	163.42	163.28	163.25	163.23	163.31	163.31	
30	163.77	163.40	163.30	163.35	163.29	163.47	163.42	163.28	163.25	163.23	163.31	163.31	
31		163.40		163.33	163.27		163.40		163.25	163.23	163.31	163.31	
Mean	163.42	163.38	163.39	163.32	163.27	163.71	163.71	163.33	163.26	163.24	163.28	163.36	
Max	164.21	163.65	163.82	163.55	163.31	165.30	165.51	163.39	163.28	163.25	163.39	163.49	165.51
Min	163.32	163.29	163.25	163.26	163.23	163.27	163.35	163.28	163.25	163.23	163.22	163.30	163.22
Annual Max Momentary Gage Height	166.46		m. (MSL.) ,				at 09.00 Hours, on Sep 14, 2021						
Zero Gage at Bottom Elevation	163.06		m. (MSL.) ,			River Bed	163.00	m. (MSL)					
Left Bank Elevation		167.52		m. (MSL.) ,									
Right Bank Elevation		167.82		m. (MSL.) ,		Drainage Are	96	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.56	0.40	0.20	0.22	0.14	0.42	0.36	0.16	0.10	0.06	0.20	
2	0.24	0.40	0.40	0.20	0.20	0.14	0.30	0.38	0.16	0.10	0.06	0.20	
3	0.24	0.38	0.24	0.18	0.20	0.16	0.32	0.36	0.16	0.10	0.06	0.22	
4	0.24	0.36	0.10	0.18	0.18	0.24	0.76	0.34	0.14	0.10	0.06	0.22	
5	0.24	0.36	0.10	0.18	0.18	0.24	0.86	0.32	0.14	0.10	0.06	0.22	
6	0.24	0.34	0.12	0.16	0.14	0.38	0.76	0.34	0.14	0.10	0.06	0.22	
7	0.24	0.32	0.16	0.14	0.14	0.32	0.70	0.30	0.14	0.10	0.06	0.58	
8	0.24	0.28	0.28	0.12	0.12	0.83	0.66	0.30	0.14	0.10	0.06	0.44	
9	0.24	0.24	1.46	0.16	0.12	1.97	0.60	0.28	0.14	0.10	0.06	0.42	
10	0.24	0.22	1.01	0.42	0.12	2.28	0.56	0.28	0.14	0.10	0.06	0.42	
11	0.24	0.20	0.74	0.34	0.12	1.37	0.60	0.28	0.12	0.10	0.06	0.42	
12	0.24	0.18	0.62	0.26	0.12	0.76	0.54	0.26	0.12	0.10	0.06	0.40	
13	0.24	0.18	0.78	0.32	0.12	0.62	0.52	0.26	0.12	0.10	0.04	0.40	
14	0.24	0.18	0.80	0.28	0.12	10.50	0.64	0.24	0.12	0.10	0.26	0.40	
15	0.24	0.18	0.80	0.22	0.20	3.60	1.25	0.24	0.12	0.10	0.38	0.38	
16	0.24	0.18	0.44	0.20	0.20	1.91	13.38	0.24	0.12	0.10	0.34	0.38	
17	0.24	0.28	0.38	0.18	0.18	1.19	7.48	0.22	0.12	0.10	0.32	0.38	
18	0.24	0.95	0.30	0.18	0.16	0.60	2.36	0.22	0.12	0.10	0.30	0.36	
19	0.38	0.28	0.28	0.16	0.14	0.42	1.16	0.22	0.12	0.08	0.30	0.36	
20	0.89	0.26	0.24	0.14	0.14	0.24	0.98	0.22	0.12	0.08	0.28	0.36	
21	0.40	0.26	0.20	0.14	0.14	0.24	0.80	0.22	0.12	0.08	0.26	0.34	
22	0.32	0.26	0.18	0.12	0.14	0.72	1.19	0.22	0.12	0.08	0.24	0.32	
23	0.28	0.26	0.18	0.12	0.14	0.83	2.24	0.22	0.10	0.08	0.24	0.32	
24	0.26	0.32	0.18	0.56	0.14	0.54	2.20	0.22	0.10	0.08	0.22	0.30	
25	0.24	0.92	0.18	0.70	0.08	4.96	1.61	0.20	0.10	0.08	0.22	0.30	
26	0.28	0.72	0.18	0.30	0.06	4.40	1.37	0.20	0.10	0.06	0.20	0.28	
27	2.84	0.48	0.18	0.28	0.06	1.82	0.52	0.20	0.10	0.06	0.20	0.26	
28	0.89	0.40	0.18	0.40	0.06	1.10	0.46	0.16	0.10	0.06	0.18	0.24	
29	2.84	0.40	0.22	0.32	0.12	0.66	0.44	0.16	0.10	0.06		0.22	
30	1.31	0.40	0.20	0.30	0.18	0.54	0.44	0.16	0.10	0.06		0.22	
31		0.40		0.26	0.14		0.40		0.10	0.06		0.22	
<b>Total</b>	15.25	11.15	11.53	7.72	4.38	43.72	46.52	7.62	3.80	2.72	4.70	10.00	169.11 CMSDAY
<b>Mean</b>	0.51	0.36	0.38	0.25	0.14	1.46	1.50	0.25	0.12	0.09	0.17	0.32	0.46 CMS
<b>Max</b>	2.84	0.95	1.46	0.70	0.22	10.50	13.38	0.38	0.16	0.10	0.38	0.58	13.38 CMS
<b>Min</b>	0.24	0.18	0.10	0.12	0.06	0.14	0.30	0.16	0.10	0.06	0.04	0.20	0.04 CMS
<b>Runoff</b>	1.32	0.96	1.00	0.67	0.38	3.78	4.02	0.66	0.33	0.24	0.41	0.86	14.61 MCM
<b>Momentary Peak</b>	47.60	CMS, at 166.46 m. (MSL), at 09.00 Hours, on Sep 14, 2021											
<b>Runoff Yield</b>	4.83	Liters/Second/Square KM. Momentary Peak Yield 495.83 Liters/Second/Square KM.											

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Nong Sang at Ban Nong Rew Nung , Kalasin (E.89)

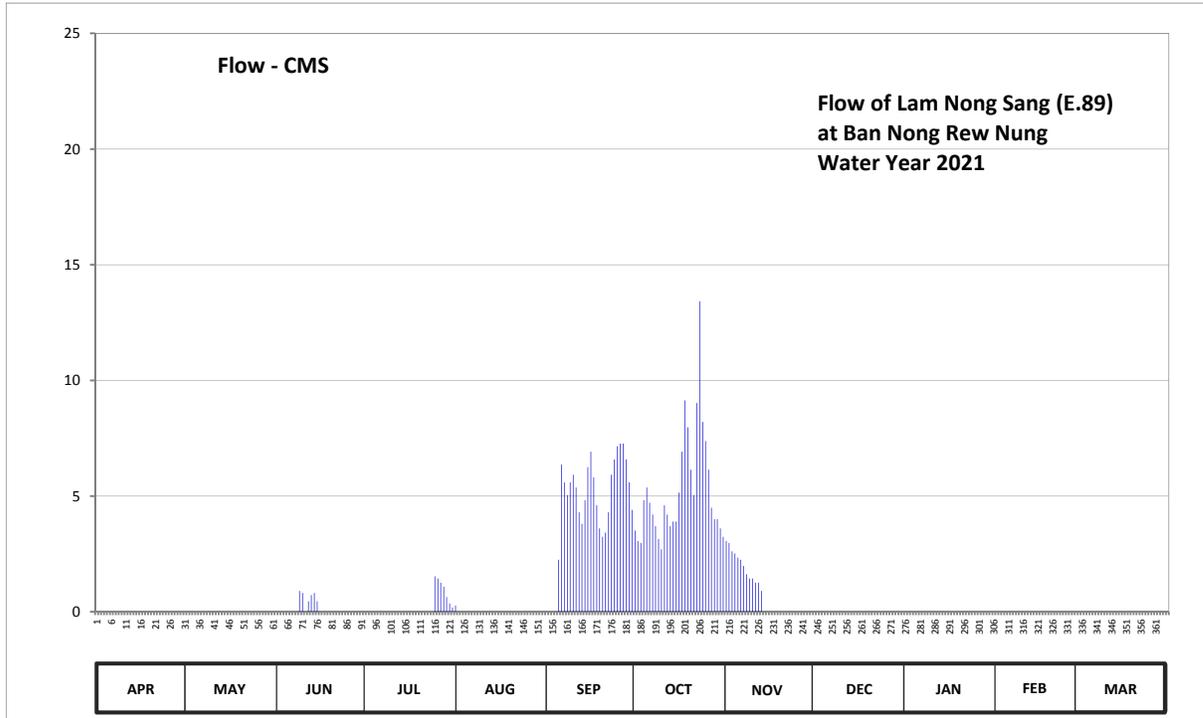
Lat 16 - 40 - 04 N Long 103 - 18 - 16 E

Location : on left bank at Ban Nong Rew Nung.

	<b>Ban Nong Rew Nung</b>	<b>Amphoe Nong Kung Si</b>	<b>Changwat Kalasin</b>
<b>Drainage Area</b>	168 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+170.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank upstream at the footpath of the bridge.	<b>Elevation</b>	+176.238 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	171.82	171.96	171.88	171.84	172.23	171.94	172.59	172.54	171.88	171.86	171.86	171.84	
2	171.82	171.89	171.88	171.84	172.15	171.91	172.54	172.53	171.88	171.86	171.87	171.83	
3	171.83	171.86	171.90	171.83	172.13	171.90	172.53	172.49	171.88	171.86	171.87	171.83	
4	171.83	171.84	171.91	171.83	172.13	171.90	172.72	172.48	171.88	171.86	171.87	171.82	
5	171.83	171.84	172.06	171.83	172.10	172.45	172.77	172.46	171.88	171.86	171.87	171.81	
6	171.83	171.84	171.98	171.83	171.98	172.86	172.71	172.45	171.88	171.86	171.86	171.81	
7	171.83	171.83	172.00	171.85	171.93	172.79	172.66	172.42	171.88	171.86	171.86	171.81	
8	171.83	171.83	172.01	171.86	171.89	172.74	172.61	172.38	171.88	171.86	171.84	171.79	
9	171.83	171.83	172.30	171.88	171.85	172.79	172.55	172.36	171.88	171.86	171.83	171.79	
10	171.83	171.83	172.29	171.94	171.84	172.82	172.50	172.36	171.87	171.86	171.82	171.78	
11	171.83	171.83	172.19	171.90	171.83	172.77	172.70	172.34	171.87	171.86	171.81	171.77	
12	171.83	171.83	172.25	171.89	171.83	172.67	172.66	172.34	171.87	171.86	171.80	171.76	
13	171.83	171.83	172.28	171.88	171.83	172.62	172.61	172.30	171.87	171.86	171.81	171.75	
14	171.83	171.83	172.29	171.88	171.83	172.72	172.63	172.20	171.87	171.86	171.82	171.76	
15	171.83	171.83	172.25	171.88	171.83	172.85	172.63	172.19	171.87	171.86	171.84	171.76	
16	171.85	171.83	172.13	171.87	171.83	172.91	172.75	172.19	171.87	171.86	171.86	171.78	
17	171.85	171.83	172.09	171.86	171.83	172.81	172.91	172.08	171.87	171.86	171.87	171.79	
18	171.85	171.83	172.02	171.85	171.83	172.70	173.10	172.05	171.87	171.86	171.88	171.80	
19	171.85	171.83	171.99	171.84	171.83	172.60	173.00	172.04	171.87	171.86	171.89	171.81	
20	171.85	171.83	171.92	171.84	171.83	172.56	172.84	172.02	171.87	171.86	171.89	171.82	
21	171.85	171.83	171.88	171.84	171.83	172.58	172.74	172.05	171.87	171.86	171.88	171.83	
22	171.85	171.83	171.87	171.83	171.83	172.67	173.09	171.97	171.87	171.86	171.88	171.83	
23	171.85	171.83	171.86	171.83	171.85	172.82	173.44	171.92	171.87	171.86	171.87	171.84	
24	171.85	171.85	171.86	172.07	171.87	172.88	173.02	171.89	171.87	171.86	171.87	171.84	
25	171.85	172.01	171.85	172.37	171.87	172.93	172.95	171.88	171.87	171.86	171.87	171.85	
26	171.86	172.01	171.85	172.36	171.87	172.94	172.84	171.95	171.87	171.86	171.86	171.85	
27	171.94	172.01	171.85	172.34	171.87	172.94	172.69	171.90	171.87	171.86	171.84	171.86	
28	171.92	171.98	171.85	172.32	171.87	172.88	172.64	171.89	171.87	171.86	171.84	171.87	
29	171.92	171.94	171.84	172.27	171.87	172.79	172.64	171.89	171.86	171.86	171.86	171.87	
30	171.98	171.92	171.84	172.24	172.06	172.68	172.60	171.89	171.86	171.86	171.86	171.86	
31		171.89		172.22	172.02		172.56		171.86	171.86		171.85	
Mean	171.85	171.87	172.01	171.96	171.91	172.65	172.75	172.18	171.87	171.86	171.85	171.81	
Max	171.98	172.01	172.30	172.37	172.23	172.94	173.44	172.54	171.88	171.86	171.89	171.87	173.44
Min	171.82	171.83	171.84	171.83	171.83	171.90	172.50	171.88	171.86	171.86	171.80	171.75	171.75
Annual Max Momentary Gage Height	173.64		m. (MSL.) ,				at 02.00 Hours, on Oct 23, 2021						
Zero Gage at Bottom Elevation	170.60		m. (MSL.) ,			River Bed	171.98	m. (MSL)					
Left Bank Elevation		176.32		m. (MSL.) ,									
Right Bank Elevation		176.34		m. (MSL.) ,		Drainage Are	168	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.27	0.00	3.51	3.06	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	3.06	2.97	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	2.97	2.61	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	4.82	2.52	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	2.25	5.37	2.34	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	6.36	4.71	2.25	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	5.59	4.20	1.98	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	5.04	3.70	1.62	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.90	0.00	0.00	5.59	3.15	1.44	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.81	0.00	0.00	5.92	2.70	1.44	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	5.37	4.60	1.26	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.45	0.00	0.00	4.30	4.20	1.26	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.72	0.00	0.00	3.80	3.70	0.90	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.81	0.00	0.00	4.82	3.90	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.45	0.00	0.00	6.25	3.90	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	6.92	5.15	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	5.81	6.92	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	4.60	9.13	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	3.60	7.97	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	3.24	6.14	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	3.42	5.04	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	4.30	9.02	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	5.92	13.42	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	6.58	8.20	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.53	0.00	7.15	7.38	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	1.44	0.00	7.27	6.14	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	1.26	0.00	7.27	4.50	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	1.08	0.00	6.58	4.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.63	0.00	5.59	4.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.36	0.00	4.40	3.60	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.18	0.00	3.24	3.24	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	4.14	6.48	0.27	137.94	162.34	25.65	0.00	0.00	0.00	0.00	336.82 CMSDAY
<b>Mean</b>	0.00	0.00	0.14	0.21	0.01	4.60	5.24	0.86	0.00	0.00	0.00	0.00	0.92 CMS
<b>Max</b>	0.00	0.00	0.90	1.53	0.27	7.27	13.42	3.06	0.00	0.00	0.00	0.00	13.42 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.36	0.56	0.02	11.92	14.03	2.22	0.00	0.00	0.00	0.00	29.10 MCM
<b>Momentary Peak</b>	16.02	CMS, at 173.64 m. (MSL), at 02.00 Hours, on Oct 23, 2021											
<b>Runoff Yield</b>	5.49	Liters/Second/Square KM. Momentary Peak Yield 95.36 Liters/Second/Square KM.											

## WATER YEAR : 2021

## CHI RIVER BASIN

## Hual Sang Kiab at Ban Nong Yang Tai , Kalasin (E.90)

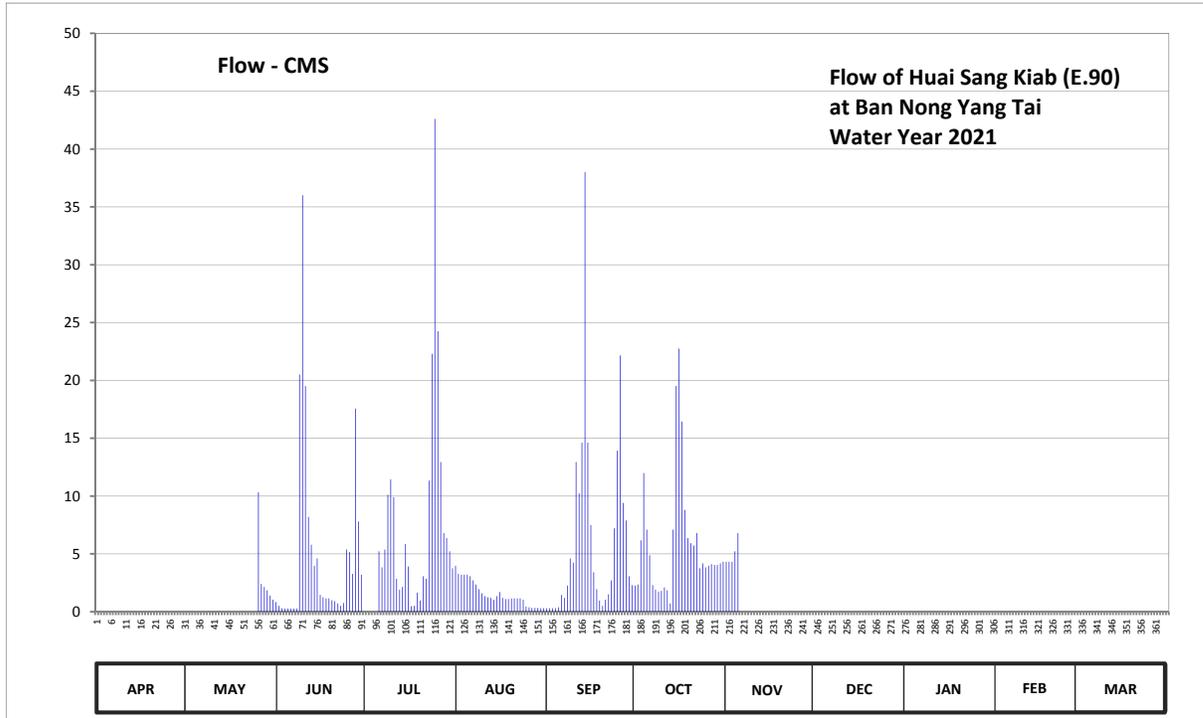
Lat 16 - 46 - 27 N Long 103 - 38 - 40 E

Location : on right bank at Ban Nong Yang Tai.

	Ban Nong Yang Tai	Amphoe Kham Muang	Changwat Kalasin
<b>Drainage Area</b>	181 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+160.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank upstream at the footpath of the bridge.	<b>Elevation</b>	+167.096 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.18	160.60	160.86	160.41	161.41	160.70	161.15	161.46	161.72	161.52	161.06	160.50	
2	160.19	160.60	160.77	160.31	161.31	160.70	161.17	161.46	161.71	161.52	161.05	160.50	
3	160.19	160.60	160.70	160.23	161.30	160.70	161.72	161.46	161.70	161.51	161.03	160.51	
4	160.19	160.59	160.69	160.23	161.30	160.70	162.29	161.59	161.69	161.51	161.02	160.51	
5	160.19	160.58	160.69	160.22	161.30	160.73	161.82	161.79	161.68	161.51	160.99	160.51	
6	160.20	160.56	160.69	161.59	161.28	160.99	161.54	161.80	161.68	161.50	160.95	160.51	
7	160.20	160.55	160.69	161.39	161.23	160.94	161.16	161.79	161.68	161.49	160.91	160.52	
8	160.20	160.54	160.69	161.61	161.17	161.15	161.08	161.79	161.67	161.48	160.86	160.52	
9	160.20	160.53	162.90	162.12	161.09	161.50	161.05	161.82	161.66	161.48	160.82	160.52	
10	160.20	160.52	163.84	162.24	161.02	161.45	161.06	161.82	161.65	161.48	160.78	160.52	
11	160.21	160.52	162.83	162.10	160.97	162.36	161.12	161.82	161.65	161.47	160.74	160.52	
12	160.21	160.51	161.93	161.25	160.95	162.13	161.07	161.82	161.64	161.46	160.70	160.52	
13	160.21	160.51	161.67	161.08	160.94	162.48	160.83	161.82	161.63	161.44	160.67	160.53	
14	160.21	160.51	161.41	161.13	160.91	163.94	161.82	161.82	161.63	161.42	160.66	160.53	
15	160.21	160.51	161.50	161.68	160.97	162.48	162.83	161.82	161.63	161.40	160.65	160.53	
16	160.23	160.50	160.99	161.40	161.04	161.86	163.05	161.82	161.63	161.38	160.62	160.53	
17	160.23	160.50	160.95	160.76	160.94	161.33	162.61	161.80	161.62	161.35	160.60	160.53	
18	160.23	160.50	160.93	160.77	160.92	161.09	161.99	161.80	161.61	161.33	160.58	160.54	
19	160.23	160.48	160.93	161.03	160.92	160.89	161.74	161.80	161.61	161.30	160.55	160.54	
20	160.23	160.47	160.90	160.89	160.93	160.77	161.69	161.80	161.61	161.29	160.54	160.54	
21	160.27	160.46	160.88	161.28	160.93	160.91	161.66	161.80	161.60	161.28	160.53	160.54	
22	160.35	160.44	160.83	161.25	160.93	161.00	161.79	161.79	161.60	161.26	160.53	160.54	
23	160.35	160.43	160.77	162.23	160.93	161.23	161.38	161.79	161.59	161.24	160.52	160.54	
24	160.35	160.47	160.84	163.02	160.91	161.83	161.44	161.78	161.59	161.21	160.52	160.54	
25	160.36	161.31	161.61	164.17	160.75	162.43	161.39	161.77	161.58	161.17	160.51	160.54	
26	160.37	162.14	161.58	163.15	160.73	163.01	161.41	161.76	161.57	161.14	160.51	160.55	
27	160.49	161.18	161.31	162.36	160.71	162.05	161.43	161.75	161.56	161.11	160.50	160.55	
28	160.52	161.13	162.69	161.79	160.71	161.90	161.42	161.74	161.55	161.11	160.50	160.55	
29	160.56	161.07	161.89	161.74	160.71	161.28	161.42	161.74	161.55	161.09	160.55	160.55	
30	160.59	160.98	161.30	161.59	160.70	161.16	161.44	161.73	161.54	161.07	160.55	160.55	
31		160.91		161.38	160.70		161.46		161.52	161.06	160.55	160.55	
Mean	160.28	160.68	161.34	161.50	160.99	161.52	161.58	161.75	161.62	161.34	160.71	160.53	
Max	160.59	162.14	163.84	164.17	161.41	163.94	163.05	161.82	161.72	161.52	161.06	160.55	164.17
Min	160.18	160.43	160.69	160.22	160.70	160.70	160.83	161.46	161.52	161.06	160.50	160.50	160.18
Annual Max Momentary Gage Height	165.13		m. (MSL.) ,				at 16.00 Hours, on Jul 25, 2021						
Zero Gage at Bottom Elevation	160.60		m. (MSL.) ,			River Bed	160.25	m. (MSL)					
Left Bank Elevation		167.04		m. (MSL.) ,									
Right Bank Elevation		166.36		m. (MSL.) ,		Drainage Are	181	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.84	0.00	3.97	0.30	2.25	4.32	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.51	0.00	3.27	0.30	2.35	4.32	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.30	0.00	3.20	0.30	6.18	4.32	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.27	0.00	3.20	0.30	11.99	5.23	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.27	0.00	3.20	0.39	7.10	6.81	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.27	5.23	3.06	1.45	4.88	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.27	3.83	2.71	1.20	2.30	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.27	5.37	2.35	2.25	1.90	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	20.50	10.12	1.95	4.60	1.75	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	36.00	11.44	1.60	4.25	1.80	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	19.52	9.90	1.35	12.94	2.10	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	8.20	2.85	1.25	10.23	1.85	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	5.79	1.90	1.20	14.62	0.72	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	3.97	2.15	1.05	38.00	7.10	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	4.60	5.86	1.35	14.62	19.52	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.45	3.90	1.70	7.50	22.75	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.25	0.48	1.20	3.41	16.44	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	1.15	0.51	1.10	1.95	8.80	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	1.15	1.65	1.10	0.96	6.36	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	1.00	0.96	1.15	0.51	5.93	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.92	3.06	1.15	1.05	5.72	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.72	2.85	1.15	1.50	6.81	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.51	11.33	1.15	2.71	3.76	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.76	22.30	1.05	7.20	4.18	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	5.37	42.60	0.45	13.92	3.83	0.00	0.00	0.00	0.00	0.00	
26	0.00	10.34	5.16	24.25	0.39	22.15	3.97	0.00	0.00	0.00	0.00	0.00	
27	0.00	2.40	3.27	12.94	0.33	9.40	4.11	0.00	0.00	0.00	0.00	0.00	
28	0.00	2.15	17.56	6.81	0.33	7.90	4.04	0.00	0.00	0.00	0.00	0.00	
29	0.00	1.85	7.80	6.36	0.33	3.06	4.04	0.00	0.00	0.00	0.00	0.00	
30	0.00	1.40	3.20	5.23	0.30	2.30	4.18	0.00	0.00	0.00	0.00	0.00	
31	0.00	1.05	3.76	0.30	0.30	0.30	4.32	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	19.19	152.85	207.64	47.89	191.27	183.03	25.00	0.00	0.00	0.00	0.00	826.87 CMSDAY
<b>Mean</b>	0.00	0.62	5.10	6.70	1.54	6.38	5.90	0.83	0.00	0.00	0.00	0.00	2.27 CMS
<b>Max</b>	0.00	10.34	36.00	42.60	3.97	38.00	22.75	6.81	0.00	0.00	0.00	0.00	42.60 CMS
<b>Min</b>	0.00	0.00	0.27	0.00	0.30	0.30	0.72	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	1.66	13.21	17.94	4.14	16.53	15.81	2.16	0.00	0.00	0.00	0.00	71.44 MCM
<b>Momentary Peak</b>	63.09	CMS, at 165.13 m. (MSL), at 16.00 Hours, on Jul 25, 2021											
<b>Runoff Yield</b>	12.52	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		348.56	Liters/Second/Square KM.						

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Don Khanuan , Maha Sarakham (E.91)

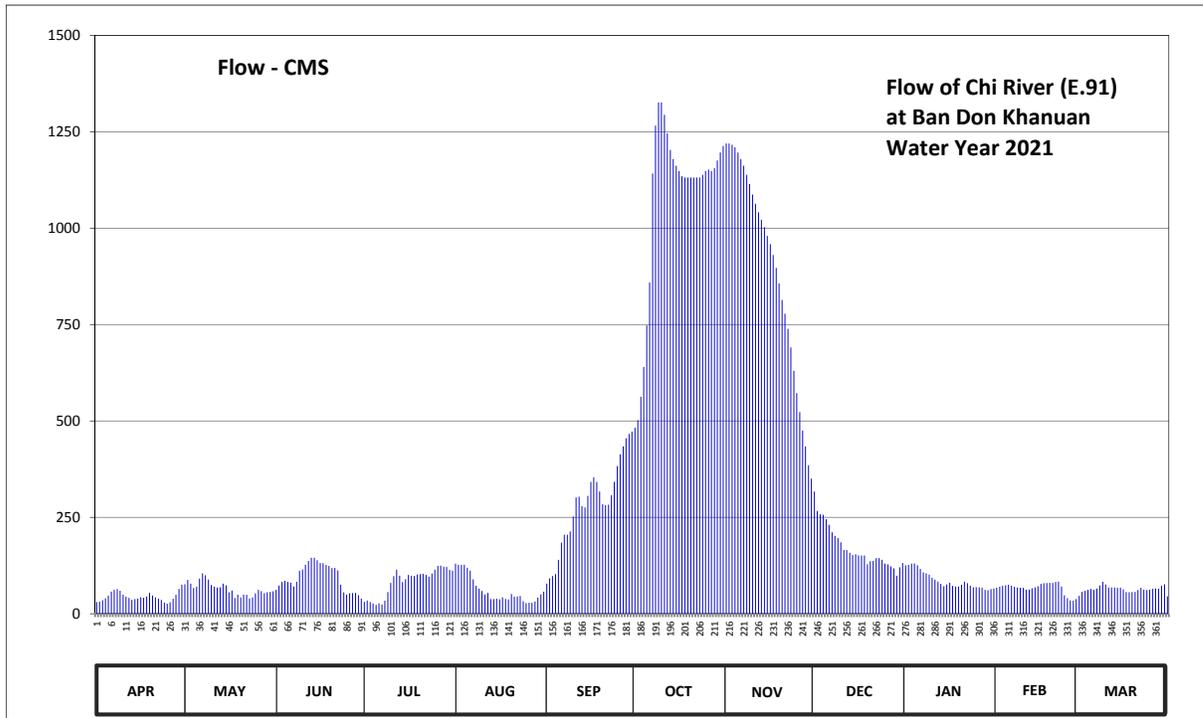
Lat 16 - 21 - 58 N Long 102 - 56 - 59 E

Location : on left bank at Ban Don Khanuan.

	<b>Ban Don Khanuan</b>	<b>Amphoe Kosum Phisai</b>	<b>Changwat Maha Sarakham</b>
<b>Drainage Area</b>	28,958 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+138.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.		<b>Elevation</b> +152.448 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +150.160 m.(MSL.) record are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.10	141.13	140.83	140.12	142.09	141.16	146.99	150.97	144.81	142.02	140.95	140.50	
2	140.13	141.36	141.06	140.21	142.05	141.43	147.21	150.97	144.12	142.04	141.00	140.73	
3	140.23	141.16	141.25	140.10	142.04	141.55	147.87	150.96	144.00	142.09	141.05	140.78	
4	140.35	140.93	141.31	140.02	142.05	141.63	148.59	150.94	143.98	142.10	141.08	140.83	
5	140.52	141.00	141.25	139.93	141.92	142.25	149.28	150.90	143.81	142.03	141.10	140.88	
6	140.74	141.42	141.21	140.02	141.79	142.92	149.82	150.85	143.60	141.87	141.05	140.83	
7	140.83	141.67	141.01	139.95	141.38	143.22	150.74	150.80	143.31	141.71	140.99	140.90	
8	140.87	141.58	141.26	140.20	141.05	143.22	151.09	150.73	143.17	141.67	140.96	141.07	
9	140.79	141.37	141.78	140.71	140.90	143.34	151.24	150.66	143.09	141.61	140.94	141.26	
10	140.57	141.09	141.84	141.20	140.77	143.91	151.24	150.58	142.93	141.47	140.94	141.12	
11	140.46	141.00	142.05	141.54	140.58	144.60	151.16	150.51	142.64	141.37	140.84	140.96	
12	140.38	140.95	142.20	141.83	140.67	144.63	151.04	150.44	142.63	141.27	140.85	140.96	
13	140.25	140.97	142.33	141.56	140.30	144.29	150.92	150.38	142.53	141.15	140.92	140.96	
14	140.30	141.16	142.33	141.24	140.30	144.24	150.85	150.32	142.44	141.03	140.97	140.94	
15	140.34	141.07	142.23	141.39	140.33	144.66	150.80	150.25	142.47	141.12	141.03	140.95	
16	140.42	140.69	142.12	141.60	140.29	145.16	150.76	150.18	142.43	141.21	141.15	140.86	
17	140.39	140.80	142.11	141.56	140.41	145.32	150.72	150.08	142.42	141.04	141.18	140.71	
18	140.46	140.37	142.04	141.55	140.31	145.16	150.71	149.96	142.42	141.01	141.19	140.70	
19	140.67	140.57	142.00	141.62	140.28	144.81	150.71	149.81	142.07	141.01	141.20	140.71	
20	140.53	140.40	141.90	141.63	140.61	144.36	150.71	149.64	142.19	141.10	141.20	140.72	
21	140.41	140.57	141.91	141.65	140.46	144.32	150.71	149.46	142.20	141.27	141.25	140.82	
22	140.33	140.56	141.80	141.60	140.47	144.34	150.71	149.23	142.31	141.18	141.27	140.94	
23	140.25	140.34	141.11	141.52	140.50	144.68	150.71	148.93	142.32	141.05	141.01	140.84	
24	140.07	140.40	140.69	141.66	140.16	145.16	150.73	148.51	142.25	140.97	140.54	140.82	
25	140.00	140.64	140.57	141.83	140.04	145.72	150.76	147.97	142.09	140.98	140.36	140.84	
26	140.09	140.83	140.65	142.00	140.06	146.13	150.77	147.44	142.06	140.97	140.22	140.89	
27	140.32	140.76	140.66	142.01	140.06	146.39	150.76	146.90	141.98	140.94	140.20	140.91	
28	140.56	140.65	140.67	141.96	140.14	146.65	150.78	146.39	141.89	140.83	140.30	140.90	
29	140.88	140.70	140.55	141.95	140.39	146.79	150.84	145.75	141.56	140.81		141.05	
30	141.11	140.72	140.33	141.82	140.59	146.87	150.90	145.27	141.94	140.87		141.13	
31		140.75		141.79	140.74		150.95		142.12	140.91		140.47	
Mean	140.45	140.89	141.44	141.22	140.77	144.30	150.36	149.53	142.70	141.31	140.92	140.87	
Max	141.11	141.67	142.33	142.01	142.09	146.87	151.24	150.97	144.81	142.10	141.27	141.26	151.24
Min	140.00	140.34	140.33	139.93	140.04	141.16	146.99	145.27	141.56	140.81	140.20	140.47	139.93
Annual Max Momentary Gage Height	151.26		m. (MSL.) ,			at 12.00 Hours, on Oct 9, 2021							
Zero Gage at Bottom Elevation	138.00		m. (MSL.) ,			River Bed	139.59	m. (MSL.)					
Left Bank Elevation	151.70		m. (MSL.) ,										
Right Bank Elevation	150.15		m. (MSL.) ,			Drainage Are	28,958	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	30.00	76.50	61.84	30.80	129.76	78.00	482.20	1219.80	316.73	125.28	67.60	46.00		
2	31.20	88.00	73.00	34.40	127.20	91.50	501.90	1219.80	266.70	126.56	70.00	57.04		
3	35.20	78.00	82.50	30.00	126.56	97.90	562.78	1216.40	258.00	129.76	72.50	59.44		
4	40.00	66.64	85.50	26.80	127.20	102.54	639.80	1209.60	256.64	130.40	74.00	61.84		
5	46.96	70.00	82.50	23.20	119.36	140.00	747.60	1196.00	245.08	125.92	75.00	64.24		
6	57.52	91.00	80.50	26.80	111.82	184.56	859.20	1179.00	230.80	116.46	72.50	61.84		
7	61.84	104.86	70.50	24.00	89.00	204.96	1141.60	1162.00	211.08	107.18	69.52	65.20		
8	63.76	99.64	83.00	34.00	72.50	204.96	1266.00	1138.20	201.56	104.86	68.08	73.50		
9	59.92	88.50	111.24	56.08	65.20	213.12	1326.00	1114.40	196.12	101.38	67.12	83.00		
10	49.36	74.50	114.72	80.00	58.96	251.88	1326.00	1087.20	185.24	93.50	67.12	76.00		
11	44.40	70.00	127.20	97.32	49.84	301.50	1294.00	1063.40	165.52	88.50	62.32	68.08		
12	41.20	67.60	136.80	114.14	54.16	303.68	1246.00	1040.80	164.84	83.50	62.80	68.08		
13	36.00	68.56	145.12	98.48	38.00	279.03	1202.80	1021.60	158.04	77.50	66.16	68.08		
14	38.00	78.00	145.12	82.00	38.00	275.40	1179.00	1002.40	152.16	71.50	68.56	67.12		
15	39.60	73.50	138.72	89.50	39.20	305.85	1162.00	980.00	154.08	76.00	71.50	67.60		
16	42.80	55.12	131.68	100.80	37.60	342.10	1148.40	958.40	151.52	80.50	77.50	63.28		
17	41.60	60.40	131.04	98.48	42.40	353.70	1134.80	930.40	150.88	72.00	79.00	56.08		
18	44.40	40.80	126.56	97.90	38.40	342.10	1131.40	896.80	150.88	70.50	79.50	55.60		
19	54.16	49.36	124.00	101.96	37.20	316.73	1131.40	856.60	128.48	70.50	80.00	56.08		
20	47.44	42.00	118.20	102.54	51.28	284.10	1131.40	813.60	136.16	75.00	80.00	56.56		
21	42.40	49.36	118.78	103.70	44.40	281.20	1131.40	778.20	136.80	83.50	82.50	61.36		
22	39.20	48.88	112.40	100.80	44.80	282.65	1131.40	739.10	143.84	79.00	83.50	67.12		
23	36.00	39.60	75.50	96.16	46.00	307.30	1131.40	690.80	144.48	72.50	70.50	62.32		
24	28.80	42.00	55.12	104.28	32.40	342.10	1138.20	630.20	140.00	68.56	47.92	61.36		
25	26.00	52.72	49.36	114.14	27.60	382.70	1148.40	572.18	129.76	69.04	40.40	62.32		
26	29.60	61.84	53.20	124.00	28.40	413.40	1151.80	522.60	127.84	68.56	34.80	64.72		
27	38.80	58.48	53.68	124.64	28.40	434.20	1148.40	475.00	122.84	67.12	34.00	65.68		
28	48.88	53.20	54.16	121.68	31.60	455.00	1155.20	434.20	117.62	61.84	38.00	65.20		
29	64.24	55.60	48.40	121.10	41.60	466.20	1175.60	384.88	98.48	60.88		72.50		
30	75.50	56.56	39.20	113.56	50.32	472.60	1196.00	350.08	120.52	63.76		76.50		
31		58.00		111.82	57.52		1213.00		131.68	65.68		44.80		
Total	1334.78	2019.22	2829.54	2585.08	1886.68	8510.96	33335.08	26883.64	5294.37	2687.24	1862.40	1978.54	91207.53	CMSDAY
Mean	44.49	65.14	94.32	83.39	60.86	283.70	1075.33	896.12	170.79	86.69	66.51	63.82	249.88	CMS
Max	75.50	104.86	145.12	124.64	129.76	472.60	1326.00	1219.80	316.73	130.40	83.50	83.00	1326.00	CMS
Min	26.00	39.60	39.20	23.20	27.60	78.00	482.20	350.08	98.48	60.88	34.00	44.80	23.20	CMS
Runoff	115.32	174.46	244.47	223.35	163.01	735.35	2880.15	2322.75	457.43	232.18	160.91	170.95	7880.33	MCM
Momentary Peak	1334.00	CMS, at 151.26 m. (MSL.), at 12.00 Hours, on Oct 9, 2021												
Runoff Yield	8.63	Liters/Second/Square KM.			Momentary Peak Yield	46.07	Liters/Second/Square KM.							

## WATER YEAR : 2021

## CHI RIVER BASIN

Lam Nam Yang at Ban Tha Ngam , Roi Et (E.92)

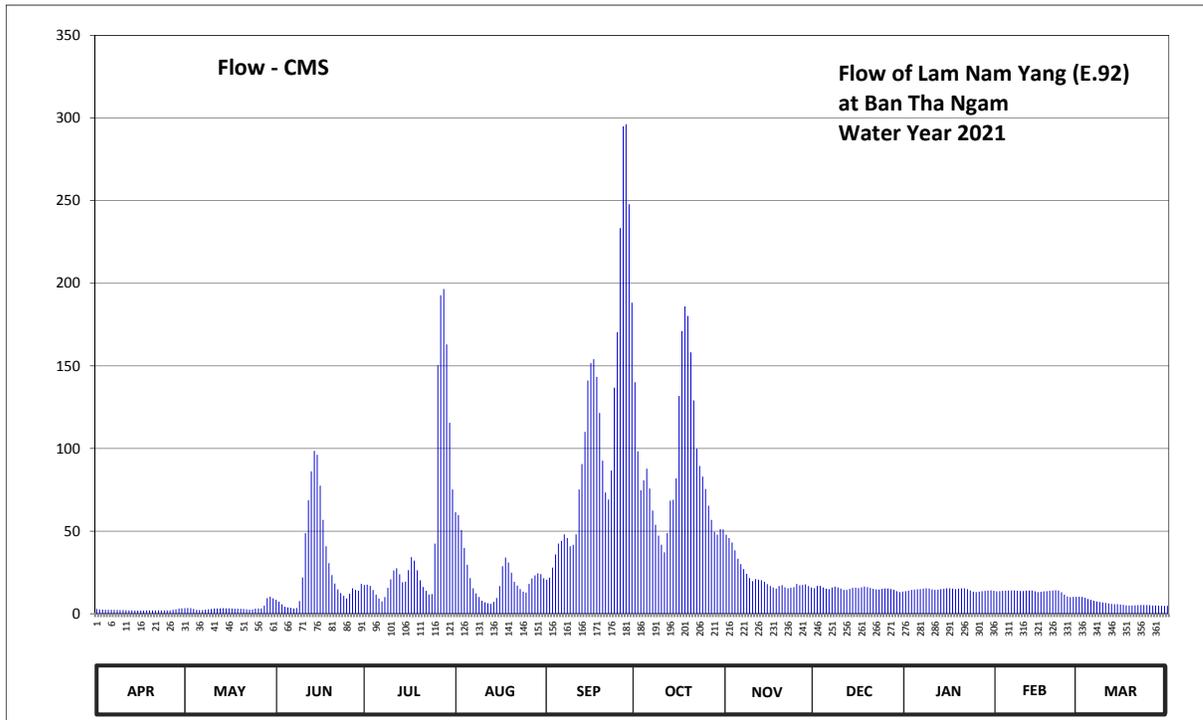
Lat 16 - 06 - 34 N Long 104 - 00 - 40 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Tha Ngam</b>	<b>Amphoe</b>	<b>Selaphum</b>	<b>Changwat</b>	<b>Roi Et</b>
<b>Drainage Area</b>	3,197 sq.km.					
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+124.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the footpath of the bridge.				<b>Elevation</b>	+136.964 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2007 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2007 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2007 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +131.930 m.(MSL.) record are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.81	125.89	126.56	127.64	130.61	127.96	132.71	129.93	127.44	127.21	127.19	126.79	
2	125.76	125.91	126.41	127.66	130.53	128.07	131.88	129.80	127.58	127.25	127.21	126.78	
3	125.73	125.89	126.21	127.58	130.08	128.58	131.18	129.63	127.58	127.30	127.23	126.71	
4	125.72	125.80	126.03	127.29	129.43	129.18	131.41	129.34	127.48	127.33	127.25	126.62	
5	125.72	125.72	125.97	126.94	128.72	129.59	131.62	129.02	127.39	127.35	127.26	126.55	
6	125.72	125.68	125.92	126.65	128.05	129.69	131.22	128.75	127.35	127.37	127.27	126.49	
7	125.71	125.68	125.86	126.44	127.43	129.94	130.66	128.50	127.48	127.40	127.27	126.43	
8	125.70	125.73	125.91	126.76	127.04	129.80	130.24	128.26	127.55	127.42	127.24	126.39	
9	125.69	125.77	126.46	127.46	126.76	129.49	129.89	128.05	127.48	127.41	127.22	126.35	
10	125.68	125.81	128.08	127.98	126.48	129.54	129.55	127.87	127.40	127.34	127.22	126.32	
11	125.67	125.85	129.98	128.43	126.36	129.94	129.26	128.00	127.31	127.30	127.24	126.28	
12	125.66	125.85	130.94	128.54	126.29	131.20	129.99	127.96	127.30	127.33	127.26	126.24	
13	125.65	125.87	131.58	128.24	126.24	131.69	130.93	127.93	127.38	127.36	127.26	126.22	
14	125.64	125.89	131.89	127.81	126.40	132.14	130.95	127.83	127.46	127.39	127.20	126.22	
15	125.63	125.88	131.83	127.84	126.69	132.73	131.46	127.69	127.47	127.42	127.14	126.20	
16	125.63	125.87	131.29	128.45	127.57	132.91	132.56	127.57	127.44	127.43	127.16	126.17	
17	125.64	125.85	130.39	129.08	128.65	132.95	133.23	127.48	127.50	127.40	127.19	126.14	
18	125.65	125.84	129.49	128.93	129.06	132.77	133.44	127.40	127.55	127.37	127.21	126.12	
19	125.66	125.83	128.80	128.44	128.83	132.37	133.36	127.57	127.51	127.40	127.23	126.13	
20	125.66	125.82	128.20	127.92	128.32	131.74	133.02	127.63	127.45	127.42	127.26	126.14	
21	125.66	125.80	127.73	127.52	127.83	131.13	132.51	127.50	127.39	127.42	127.28	126.15	
22	125.66	125.77	127.34	127.23	127.60	130.96	131.92	127.43	127.34	127.36	127.26	126.16	
23	125.66	125.74	127.06	126.95	127.37	131.59	131.66	127.46	127.33	127.26	127.12	126.16	
24	125.66	125.76	126.86	126.99	127.17	132.65	131.50	127.51	127.39	127.17	126.94	126.16	
25	125.66	125.83	126.65	126.59	127.10	133.22	131.21	127.70	127.41	127.13	126.80	126.15	
26	125.66	125.85	127.02	132.89	127.71	134.02	130.79	127.62	127.41	127.17	126.75	126.13	
27	125.72	125.86	127.43	133.53	128.03	134.52	130.39	127.64	127.38	127.21	126.77	126.12	
28	125.77	126.11	127.31	133.58	128.18	134.53	130.03	127.68	127.32	127.23	126.78	126.11	
29	125.86	126.68	127.24	133.10	128.29	134.14	129.93	127.57	127.21	127.26	126.10	126.10	
30	125.88	126.79	127.71	132.25	128.25	133.47	130.11	127.49	127.13	127.27	126.09	126.09	
31		126.67		131.20	128.04		130.10		127.17	127.23	126.10	126.10	
Mean	125.70	125.91	128.00	128.74	127.91	131.42	131.25	128.06	127.41	127.32	127.15	126.28	
Max	125.88	126.79	131.89	133.58	130.61	134.53	133.44	129.93	127.58	127.43	127.28	126.79	134.53
Min	125.63	125.68	125.86	126.44	126.24	127.96	129.26	127.40	127.13	127.13	126.75	126.09	125.63
Annual Max Momentary Gage Height	134.59		m. (MSL.) ,				at 02.00 Hours, on Sep 28, 2021						
Zero Gage at Bottom Elevation	124.50		m. (MSL.) ,			River Bed	125.32	m. (MSL.)					
Left Bank Elevation		131.92		m. (MSL.) ,									
Right Bank Elevation		135.66		m. (MSL.) ,		Drainage Are	3,197	Square Kilometers					



ischarge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.91	3.37	8.48	17.40	61.42	20.60	140.05	47.88	15.52	13.68	13.52	10.32		
2	2.63	3.49	7.28	17.60	59.66	21.84	98.20	45.80	16.80	14.00	13.68	10.24		
3	2.46	3.37	5.68	16.80	50.60	27.96	74.68	43.08	16.80	14.40	13.84	9.68		
4	2.40	2.86	4.24	14.32	39.88	35.88	80.66	38.44	15.84	14.64	14.00	8.96		
5	2.40	2.40	3.83	11.52	29.64	42.44	87.80	33.32	15.12	14.80	14.08	8.40		
6	2.40	2.17	3.54	9.20	21.60	44.04	75.72	30.00	14.80	14.96	14.16	7.92		
7	2.34	2.17	3.20	7.52	15.44	48.04	62.52	27.00	15.84	15.20	14.16	7.44		
8	2.29	2.46	3.49	10.08	12.32	45.80	53.80	24.12	16.50	15.36	13.92	7.12		
9	2.23	2.69	7.68	15.68	10.08	40.84	47.24	21.60	15.84	15.28	13.76	6.80		
10	2.17	2.91	21.96	20.80	7.84	41.64	41.80	19.70	15.20	14.72	13.76	6.56		
11	2.11	3.14	48.68	26.16	6.88	48.04	37.16	21.00	14.48	14.40	13.92	6.24		
12	2.06	3.14	68.68	27.48	6.32	75.20	48.84	20.60	14.40	14.64	14.08	5.92		
13	2.00	3.26	86.20	23.88	5.92	90.60	68.46	20.30	15.04	14.88	14.08	5.76		
14	1.94	3.37	98.60	19.10	7.20	110.00	68.90	19.30	15.68	15.12	13.60	5.76		
15	1.89	3.31	96.20	19.40	9.52	141.15	81.96	17.90	15.76	15.36	13.12	5.60		
16	1.89	3.26	77.54	26.40	16.70	151.60	131.80	16.70	15.52	15.44	13.28	5.36		
17	1.94	3.14	56.80	34.28	28.80	154.00	171.10	15.84	16.00	15.20	13.52	5.12		
18	2.00	3.09	40.84	32.16	33.96	143.35	186.00	15.20	16.50	14.96	13.68	4.96		
19	2.06	3.03	30.60	26.28	30.96	121.50	180.20	16.70	16.10	15.20	13.84	5.04		
20	2.06	2.97	23.40	20.20	24.84	92.60	158.20	17.30	15.60	15.36	14.08	5.12		
21	2.06	2.86	18.30	16.20	19.30	73.38	129.05	16.00	15.12	15.36	14.24	5.20		
22	2.06	2.69	14.72	13.84	17.00	69.12	99.80	15.44	14.72	14.88	14.08	5.28		
23	2.06	2.51	12.48	11.60	14.96	86.60	89.40	15.68	14.64	14.08	12.96	5.28		
24	2.06	2.63	10.88	11.92	13.36	136.75	83.00	16.10	15.12	13.36	11.52	5.28		
25	2.06	3.03	9.20	42.44	12.80	170.40	75.46	18.00	15.28	13.04	10.40	5.20		
26	2.06	3.14	12.16	150.40	18.10	233.40	65.38	17.20	15.28	13.36	10.00	5.04		
27	2.40	3.20	15.44	192.75	21.36	295.00	56.80	17.40	15.04	13.68	10.16	4.96		
28	2.69	4.88	14.48	196.50	23.16	296.25	49.60	17.80	14.56	13.84	10.24	4.88		
29	3.20	9.44	13.92	163.00	24.48	247.80	47.88	16.70	13.68	14.08		4.80		
30	3.31	10.32	18.10	115.50	24.00	188.25	51.20	15.92	13.04	14.16		4.72		
31		9.36		75.20	21.48		51.00		13.36	13.84		4.80		
Total	68.14	113.66	836.60	1385.61	689.58	3294.07	2693.66	678.02	473.18	451.28	369.68	193.76	11247.24	CMSDAY
Mean	2.27	3.67	27.89	44.70	22.24	109.80	86.89	22.60	15.26	14.56	13.20	6.25	30.81	CMS
Max	3.31	10.32	98.60	196.50	61.42	296.25	186.00	47.88	16.80	15.44	14.24	10.32	296.25	CMS
Min	1.89	2.17	3.20	7.52	5.92	20.60	37.16	15.20	13.04	13.04	10.00	4.72	1.89	CMS
Runoff	5.89	9.82	72.28	119.72	59.58	284.61	232.73	58.58	40.88	38.99	31.94	16.74	971.76	MCM
Momentary Peak	303.75	CMS, at 134.59 m. (MSL.), at 02.00 Hours, on Sep 28, 2021												
Runoff Yield	9.64	Liters/Second/Square KM.			Momentary Peak Yield	95.01	Liters/Second/Square KM.							

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Nam Phrom at Ban Yang , Chaiyaphum (E.93)

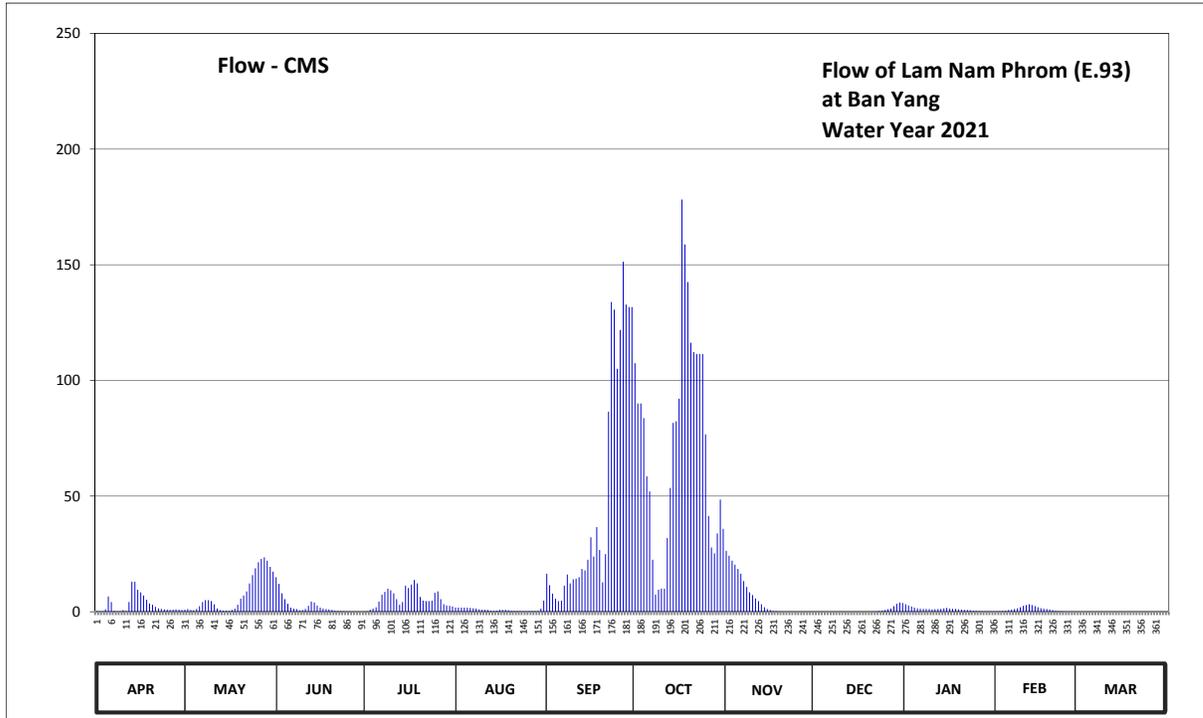
Lat 16 - 18 - 53 N Long 101 - 52 - 31 E

Location : on right bank at the bridge.

	<b>Ban Yang</b>	<b>Amphoe</b> Kaset Sombun	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	947 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+225.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+233.309 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	228.02	228.18	228.93	227.84	228.32	228.98	230.73	229.28	227.66	228.41	227.97	227.66	
2	227.96	228.23	228.82	227.98	228.32	228.80	230.50	229.22	227.65	228.38	228.01	227.66	
3	227.95	228.17	228.65	228.18	228.32	228.64	230.50	229.16	227.65	228.35	228.05	227.65	
4	228.22	228.14	228.52	228.27	228.32	228.53	230.41	229.11	227.64	228.32	228.10	227.65	
5	228.58	228.24	228.42	228.33	228.32	228.48	230.01	229.05	227.63	228.29	228.15	227.65	
6	228.46	228.36	228.32	228.47	228.31	228.49	229.88	228.98	227.62	228.26	228.18	227.64	
7	228.07	228.46	228.26	228.62	228.30	228.79	229.17	228.87	227.64	228.24	228.23	227.63	
8	227.94	228.50	228.23	228.68	228.28	228.97	228.62	228.77	227.65	228.24	228.29	227.63	
9	227.97	228.50	228.14	228.74	228.20	228.83	228.72	228.67	227.67	228.23	228.33	227.62	
10	228.15	228.48	228.15	228.71	228.17	228.90	228.74	228.61	227.69	228.21	228.37	227.61	
11	228.04	228.41	228.25	228.65	228.17	228.91	228.74	228.54	227.68	228.22	228.39	227.60	
12	228.46	228.28	228.37	228.52	228.15	228.93	229.42	228.48	227.67	228.23	228.41	227.60	
13	228.86	228.14	228.47	228.40	228.10	229.05	229.91	228.41	227.65	228.25	228.39	227.61	
14	228.86	228.10	228.45	228.46	228.06	229.03	230.38	228.33	227.64	228.29	228.36	227.61	
15	228.72	228.08	228.38	228.79	228.10	229.17	230.39	228.23	227.63	228.31	228.33	227.62	
16	228.67	228.06	228.32	228.75	228.17	229.43	230.53	228.15	227.62	228.28	228.30	227.64	
17	228.60	228.17	228.27	228.81	228.17	229.21	231.33	228.07	227.61	228.25	228.26	227.65	
18	228.51	228.27	228.23	228.89	228.17	229.54	231.19	227.99	227.65	228.24	228.23	227.66	
19	228.43	228.40	228.20	228.83	228.13	229.29	231.06	227.92	227.72	228.21	228.19	227.67	
20	228.40	228.53	228.16	228.57	228.07	228.85	230.83	227.86	227.78	228.19	228.13	227.68	
21	228.34	228.60	228.09	228.49	228.04	229.24	230.79	227.82	227.87	228.17	228.07	227.69	
22	228.29	228.69	228.04	228.48	228.04	230.45	230.78	227.78	227.94	228.15	228.01	227.69	
23	228.24	228.83	228.01	228.48	228.02	230.99	230.78	227.76	228.03	228.13	227.95	227.71	
24	228.20	228.96	227.97	228.49	228.02	230.96	230.78	227.75	228.09	228.10	227.88	227.74	
25	228.18	229.06	227.93	228.66	228.02	230.70	230.31	227.73	228.15	228.07	227.82	227.75	
26	228.16	229.14	227.90	228.69	228.02	230.88	229.66	227.72	228.22	228.04	227.77	227.74	
27	228.19	229.18	227.88	228.52	228.02	231.13	229.32	227.71	228.28	228.01	227.72	227.74	
28	228.20	229.20	227.86	228.41	228.02	230.98	229.25	227.69	228.36	227.98	227.67	227.73	
29	228.18	229.16	227.85	228.38	228.04	230.97	229.47	227.68	228.42	227.97		227.72	
30	228.15	229.08	227.82	228.37	228.26	230.97	229.81	227.67	228.45	227.96		227.71	
31		229.01		228.35	228.49		229.52		228.44	227.95		227.70	
Mean	228.30	228.54	228.23	228.51	228.17	229.54	230.05	228.30	227.85	228.19	228.13	227.67	
Max	228.86	229.20	228.93	228.89	228.49	231.13	231.33	229.28	228.45	228.41	228.41	227.75	231.33
Min	227.94	228.06	227.82	227.84	228.02	228.48	228.62	227.67	227.61	227.95	227.67	227.60	227.60
Annual Max Momentary Gage Height	231.39		m. (MSL.) ,			at 12.00 Hours, on Oct 17, 2021							
Zero Gage at Bottom Elevation	225.50		m. (MSL.) ,			River Bed	226.11	m. (MSL.)					
Left Bank Elevation	232.52		m. (MSL.) ,										
Right Bank Elevation	231.42		m. (MSL.) ,			Drainage Are	947	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.90	14.90	0.04	1.80	16.40	107.40	26.30	0.00	3.20	0.21	0.00	
2	0.19	1.15	12.00	0.22	1.80	11.50	90.00	24.20	0.00	2.70	0.28	0.00	
3	0.18	0.85	8.00	0.90	1.80	7.80	90.00	22.10	0.00	2.25	0.38	0.00	
4	1.10	0.70	5.40	1.35	1.80	5.60	83.70	20.35	0.00	1.80	0.50	0.00	
5	6.60	1.20	3.40	1.95	1.80	4.60	58.50	18.50	0.00	1.45	0.75	0.00	
6	4.20	2.40	1.80	4.40	1.65	4.80	52.00	16.40	0.00	1.30	0.90	0.00	
7	0.43	4.20	1.30	7.40	1.50	11.25	22.45	13.25	0.00	1.20	1.15	0.00	
8	0.16	5.00	1.15	8.60	1.40	16.10	7.40	10.75	0.00	1.20	1.45	0.00	
9	0.21	5.00	0.70	10.00	1.00	12.25	9.50	8.40	0.00	1.15	1.95	0.00	
10	0.75	4.60	0.75	9.25	0.85	14.00	10.00	7.20	0.00	1.05	2.55	0.00	
11	0.35	3.20	1.25	8.00	0.85	14.30	10.00	5.80	0.00	1.10	2.85	0.00	
12	4.20	1.40	2.55	5.40	0.75	14.90	31.80	4.60	0.00	1.15	3.20	0.00	
13	13.00	0.70	4.40	3.00	0.50	18.50	53.50	3.20	0.00	1.25	2.85	0.00	
14	13.00	0.50	4.00	4.20	0.40	17.90	81.60	1.95	0.00	1.45	2.40	0.00	
15	9.50	0.45	2.70	11.25	0.50	22.45	82.30	1.15	0.00	1.65	1.95	0.00	
16	8.40	0.40	1.80	10.25	0.85	32.20	92.10	0.75	0.00	1.40	1.50	0.00	
17	7.00	0.85	1.35	11.75	0.85	23.85	178.20	0.43	0.00	1.25	1.30	0.00	
18	5.20	1.35	1.15	13.75	0.85	36.60	158.75	0.24	0.00	1.20	1.15	0.00	
19	3.60	3.00	1.00	12.25	0.65	26.65	142.50	0.13	0.00	1.05	0.95	0.00	
20	3.00	5.60	0.80	6.40	0.43	12.75	116.30	0.06	0.00	0.95	0.65	0.00	
21	2.10	7.00	0.48	4.80	0.35	24.90	112.20	0.02	0.07	0.85	0.43	0.00	
22	1.45	8.80	0.35	4.60	0.35	86.50	111.40	0.00	0.16	0.75	0.28	0.00	
23	1.20	12.25	0.28	4.60	0.30	133.90	111.40	0.00	0.33	0.65	0.18	0.00	
24	1.00	15.80	0.21	4.80	0.30	130.60	111.40	0.00	0.48	0.50	0.08	0.00	
25	0.90	18.80	0.15	8.20	0.30	105.00	76.70	0.00	0.75	0.43	0.02	0.00	
26	0.80	21.40	0.10	8.80	0.30	121.80	41.40	0.00	1.10	0.35	0.00	0.00	
27	0.95	22.80	0.08	5.40	0.30	151.25	27.80	0.00	1.40	0.28	0.00	0.00	
28	1.00	23.50	0.06	3.20	0.30	132.80	25.25	0.00	2.40	0.22	0.00	0.00	
29	0.90	22.10	0.05	2.70	0.35	131.70	33.80	0.00	3.40	0.21	0.00	0.00	
30	0.75	19.40	0.02	2.55	1.30	131.70	48.50	0.00	4.00	0.19	0.00	0.00	
31		17.30		2.25	4.80		35.80		3.80	0.18		0.00	
Total	92.42	232.60	72.18	182.26	30.98	1474.55	2213.65	185.78	17.89	34.36	29.91	0.00	4566.58 CMSDAY
Mean	3.08	7.50	2.41	5.88	1.00	49.15	71.41	6.19	0.58	1.11	1.07	0.00	12.51 CMS
Max	13.00	23.50	14.90	13.75	4.80	151.25	178.20	26.30	4.00	3.20	3.20	0.00	178.20 CMS
Min	0.16	0.40	0.02	0.04	0.30	4.60	7.40	0.00	0.00	0.18	0.00	0.00	0.00 CMS
Runoff	7.99	20.10	6.24	15.75	2.68	127.40	191.26	16.05	1.55	2.97	2.58	0.00	394.55 MCM
Momentary Peak		186.60	CMS, at 231.39 m. (MSL.), at 12.00 Hours, on Oct 17, 2021										
Runoff Yield		13.21	Liters/Second/Square KM.			Momentary Peak Yield	197.04	Liters/Second/Square KM.					

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Wang Charoen , Roi Et (E.95)

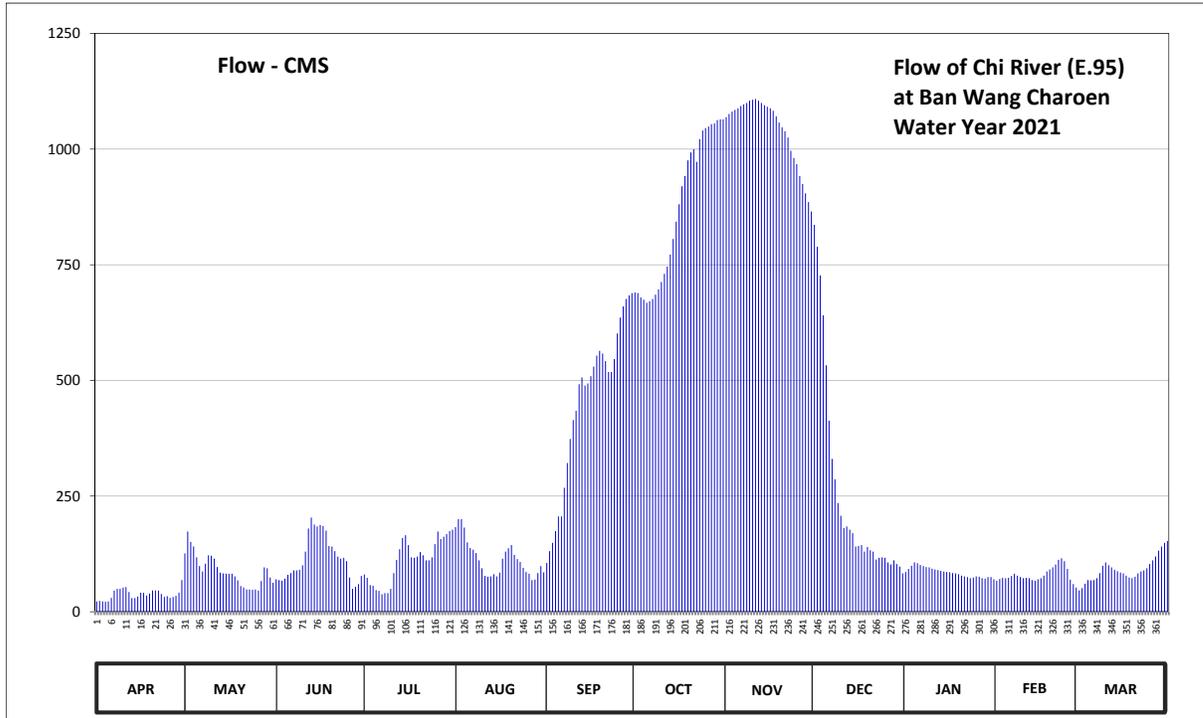
Lat 16 - 10 - 31 N Long 103 - 49 - 59 E

Location : on right bank at Wang Yang Barrage.

	<b>Ban</b> Wang Charoen	<b>Amphoe</b> Chiang Khwan	<b>Changwat</b> Roi Et
<b>Drainge Area</b>	40,963 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+124.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank near the relate.	<b>Elevation</b>	+134.665 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +132.940 m.(MSL.) record are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.81	126.25	125.60	125.73	126.80	126.03	130.47	132.73	131.36	125.80	125.56	125.27	
2	124.83	126.71	125.58	125.64	126.95	126.30	130.46	132.77	131.08	125.88	125.61	125.34	
3	124.81	126.50	125.56	125.43	126.95	126.48	130.40	132.80	130.70	125.96	125.64	125.47	
4	124.79	126.40	125.62	125.41	126.79	126.72	130.37	132.82	130.16	126.04	125.63	125.58	
5	124.81	126.16	125.72	125.28	126.49	127.00	130.33	132.84	129.45	126.02	125.64	125.57	
6	124.98	125.95	125.77	125.25	126.37	127.00	130.35	132.87	128.62	125.98	125.69	125.58	
7	125.26	125.81	125.84	125.13	126.33	127.51	130.38	132.89	128.01	125.95	125.75	125.63	
8	125.32	126.01	125.84	125.17	126.26	127.94	130.44	132.91	127.66	125.93	125.70	125.77	
9	125.32	126.21	125.86	125.17	126.09	128.33	130.51	132.94	127.24	125.92	125.66	125.96	
10	125.36	126.20	125.97	125.32	125.90	128.63	130.61	132.95	127.01	125.89	125.63	126.04	
11	125.37	126.13	126.29	125.77	125.69	128.77	130.72	132.96	126.78	125.87	125.64	125.97	
12	125.21	125.93	126.77	126.10	125.67	129.17	130.82	132.94	126.81	125.85	125.63	125.92	
13	124.97	125.78	126.98	126.34	125.68	129.27	130.98	132.91	126.75	125.83	125.58	125.86	
14	124.97	125.76	126.85	126.58	125.74	129.15	131.18	132.88	126.68	125.81	125.56	125.82	
15	125.04	125.75	126.81	126.64	125.68	129.18	131.40	132.86	126.40	125.80	125.60	125.78	
16	125.19	125.75	126.84	126.43	125.78	129.29	131.62	132.84	126.41	125.79	125.63	125.76	
17	125.18	125.75	126.82	126.16	126.13	129.43	131.85	132.81	126.43	125.77	125.70	125.70	
18	125.08	125.68	126.73	126.15	126.29	129.59	131.98	132.74	126.29	125.76	125.81	125.65	
19	125.15	125.57	126.41	126.18	126.36	129.66	132.18	132.66	126.39	125.74	125.87	125.63	
20	125.27	125.40	126.40	126.28	126.43	129.62	132.28	132.60	126.32	125.70	125.92	125.67	
21	125.27	125.36	126.30	126.21	126.22	129.51	132.32	132.55	126.29	125.68	125.99	125.76	
22	125.26	125.30	126.18	126.09	126.12	129.35	132.16	132.47	126.11	125.66	126.10	125.81	
23	125.14	125.30	126.13	126.09	126.05	129.35	132.45	132.30	126.15	125.63	126.14	125.84	
24	125.02	125.29	126.15	126.16	125.91	129.54	132.56	132.21	126.16	125.65	126.07	125.90	
25	125.05	125.30	126.07	126.45	125.80	129.91	132.59	132.13	126.15	125.68	125.88	126.00	
26	124.98	125.26	125.65	126.71	125.75	130.13	132.61	131.98	126.04	125.67	125.59	126.09	
27	125.02	125.55	125.32	126.56	125.58	130.28	132.64	131.88	125.99	125.63	125.46	126.18	
28	125.07	125.92	125.38	126.61	125.59	130.38	132.65	131.76	126.09	125.62	125.36	126.31	
29	125.19	125.90	125.46	126.66	125.77	130.43	132.69	131.65	126.00	125.66		126.40	
30	125.58	125.65	125.69	126.72	125.95	130.46	132.70	131.53	125.94	125.66		126.48	
31		125.50		126.75	125.79		132.70		125.76	125.60		126.52	
Mean	125.11	125.81	126.09	126.04	126.09	128.81	131.53	132.57	127.20	125.79	125.72	125.85	
Max	125.58	126.71	126.98	126.75	126.95	130.46	132.70	132.96	131.36	126.04	126.14	126.52	132.96
Min	124.79	125.26	125.32	125.13	125.58	126.03	130.33	131.53	125.76	125.60	125.36	125.27	124.79
Annual Max Momentary Gage Height	132.96		m. (MSL.) ,				at 16.00 Hours, on Nov 10, 2021						
Zero Gage at Bottom Elevation	124.00		m. (MSL.) ,			River Bed	125.68	m. (MSL.)					
Left Bank Elevation		134.06		m. (MSL.) ,									
Right Bank Elevation		132.93		m. (MSL.) ,		Drainage Are	40,963	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.40	126.00	70.00	80.40	183.00	105.70	690.20	1069.10	836.20	86.00	67.07	46.20		
2	23.20	173.10	68.53	73.20	200.00	131.00	688.60	1075.90	788.60	92.40	70.80	50.93		
3	22.40	151.00	67.07	57.53	200.00	149.00	679.00	1081.00	727.00	99.40	73.20	60.47		
4	21.60	141.00	71.60	56.07	181.90	174.20	674.20	1084.40	640.60	106.60	72.40	68.53		
5	22.40	117.40	79.60	46.80	150.00	206.00	667.80	1087.80	532.70	104.80	73.20	67.80		
6	30.00	98.50	83.60	45.00	138.00	206.00	671.00	1092.90	413.04	101.20	77.20	68.53		
7	45.60	86.80	89.20	37.80	134.00	267.75	675.80	1096.30	330.34	98.50	82.00	72.40		
8	49.47	103.90	89.20	40.20	127.00	321.50	685.40	1099.70	286.50	96.70	78.00	83.60		
9	49.47	122.00	90.80	40.20	111.10	373.22	696.60	1104.80	234.80	95.80	74.80	99.40		
10	52.40	121.00	100.30	49.47	94.00	414.46	712.60	1106.50	207.20	93.20	72.40	106.60		
11	53.13	114.70	130.00	83.60	77.20	434.34	730.20	1108.20	180.80	91.60	73.20	100.30		
12	42.60	96.70	179.70	112.00	75.60	491.82	746.20	1104.80	184.10	90.00	72.40	95.80		
13	29.50	84.40	203.60	135.00	76.40	506.42	771.80	1099.70	177.50	88.40	68.53	90.80		
14	29.50	82.80	188.50	159.00	81.20	488.90	805.60	1094.60	169.80	86.80	67.07	87.60		
15	33.00	82.00	184.10	165.40	76.40	493.28	843.00	1091.20	141.00	86.00	70.00	84.40		
16	41.40	82.00	187.40	144.00	84.40	509.34	880.40	1087.80	142.00	85.20	72.40	82.80		
17	40.80	82.00	185.20	117.40	114.70	529.78	919.50	1082.70	144.00	83.60	78.00	78.00		
18	35.00	76.40	175.30	116.50	130.00	553.50	941.60	1070.80	130.00	82.80	86.80	74.00		
19	39.00	67.80	142.00	119.20	137.00	564.00	975.60	1057.20	140.00	81.20	91.60	72.40		
20	46.20	55.33	141.00	129.00	144.00	558.00	992.60	1047.00	133.00	78.00	95.80	75.60		
21	46.20	52.40	131.00	122.00	123.00	541.50	999.40	1038.50	130.00	76.40	102.10	82.80		
22	45.60	48.00	119.20	111.10	113.80	518.10	972.20	1024.90	112.90	74.80	112.00	86.80		
23	38.40	48.00	114.70	111.10	107.50	518.10	1021.50	996.00	116.50	72.40	115.60	89.20		
24	32.00	47.40	116.50	117.40	94.90	546.00	1040.20	980.70	117.40	74.00	109.30	94.00		
25	33.50	48.00	109.30	146.00	86.00	601.50	1045.30	967.10	116.50	76.40	92.40	103.00		
26	30.00	45.60	74.00	173.10	82.00	635.80	1048.70	941.60	106.60	75.60	69.27	111.10		
27	32.00	66.33	49.47	157.00	68.53	659.80	1053.80	924.60	102.10	72.40	59.73	119.20		
28	34.50	95.80	53.87	162.10	69.27	675.80	1055.50	904.20	111.10	71.60	52.40	132.00		
29	41.40	94.00	59.73	167.60	83.60	683.80	1062.30	885.50	103.00	74.80		141.00		
30	68.53	74.00	77.20	174.20	98.50	688.60	1064.00	865.10	97.60	74.80		149.00		
31		62.67		177.50	85.20		1064.00		82.80	70.00		153.00		
<b>Total</b>	<b>1131.20</b>	<b>2747.03</b>	<b>3431.67</b>	<b>3426.87</b>	<b>3528.20</b>	<b>13547.21</b>	<b>26874.60</b>	<b>31270.60</b>	<b>7735.68</b>	<b>2641.40</b>	<b>2229.67</b>	<b>2827.26</b>	<b>101391.39</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>37.71</b>	<b>88.61</b>	<b>114.39</b>	<b>110.54</b>	<b>113.81</b>	<b>451.57</b>	<b>866.92</b>	<b>1042.35</b>	<b>249.54</b>	<b>85.21</b>	<b>79.63</b>	<b>91.20</b>	<b>277.78</b>	<b>CMS</b>
<b>Max</b>	<b>68.53</b>	<b>173.10</b>	<b>203.60</b>	<b>177.50</b>	<b>200.00</b>	<b>688.60</b>	<b>1064.00</b>	<b>1108.20</b>	<b>836.20</b>	<b>106.60</b>	<b>115.60</b>	<b>153.00</b>	<b>1108.20</b>	<b>CMS</b>
<b>Min</b>	<b>21.60</b>	<b>45.60</b>	<b>49.47</b>	<b>37.80</b>	<b>68.53</b>	<b>105.70</b>	<b>667.80</b>	<b>865.10</b>	<b>82.80</b>	<b>70.00</b>	<b>52.40</b>	<b>46.20</b>	<b>21.60</b>	<b>CMS</b>
<b>Runoff</b>	<b>97.74</b>	<b>237.34</b>	<b>296.50</b>	<b>296.08</b>	<b>304.84</b>	<b>1170.48</b>	<b>2321.97</b>	<b>2701.78</b>	<b>668.36</b>	<b>228.22</b>	<b>192.64</b>	<b>244.28</b>	<b>8760.22</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1108.20</b>	<b>CMS, at 132.96 m. (MSL.), at 16.00 Hours, on Nov 10, 2021</b>												
<b>Runoff Yield</b>	<b>6.78</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>27.05</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Yasothon-Phanom Prai Barrage , Yasothon (E.97)

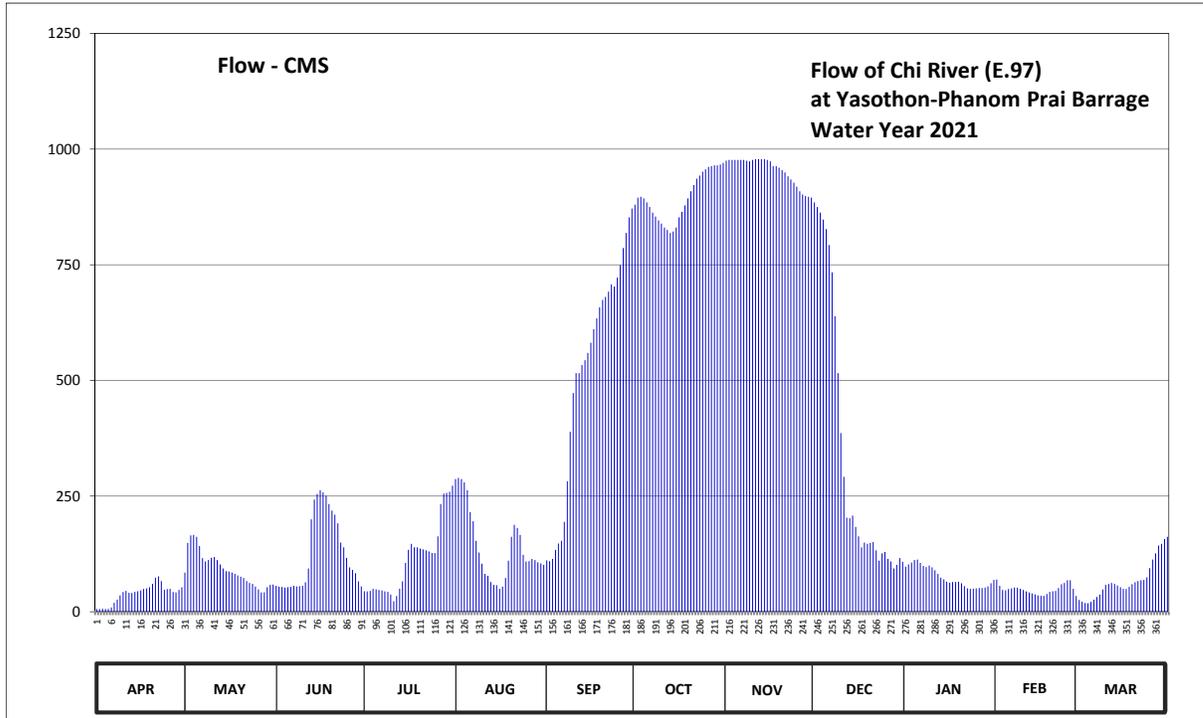
Lat 15 - 39 - 46 N Long 104 - 11 - 15 E

Location : on right bank at Yasothon-Phanom Prai Barrage.

	<b>Ban -</b>	<b>Amphoe</b> Kham Khuean Kao	<b>Changwat</b> Yasothon
<b>Drainage Area</b>	47,473 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+113.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b>	+127.055 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

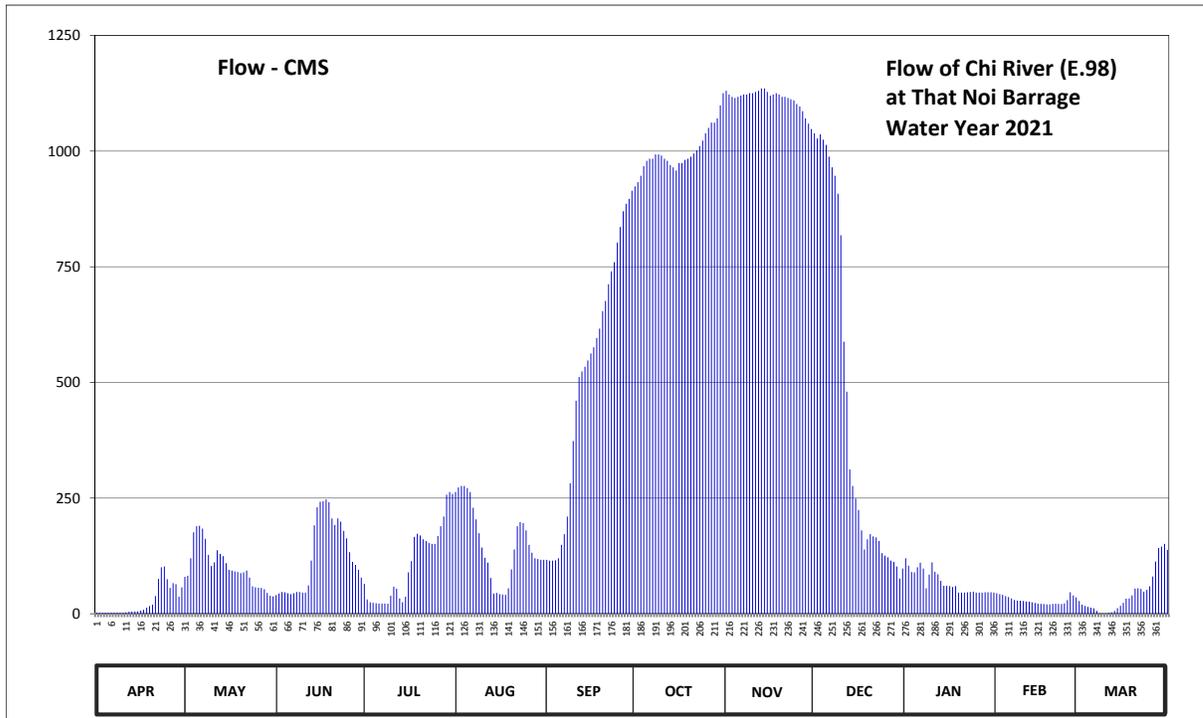
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.79	118.31	117.90	117.69	120.34	118.65	124.41	124.97	124.44	118.48	118.09	117.31	
2	116.79	119.09	117.87	117.68	120.36	118.63	124.50	124.98	124.38	118.54	117.90	117.22	
3	116.82	119.26	117.86	117.70	120.34	118.69	124.51	124.98	124.31	118.59	117.74	117.15	
4	116.80	119.27	117.84	117.79	120.28	118.93	124.49	124.98	124.22	118.66	117.73	117.13	
5	116.81	119.23	117.85	117.77	120.14	119.08	124.44	124.98	124.10	118.67	117.78	117.21	
6	116.91	119.02	117.86	117.74	119.73	119.14	124.38	124.98	123.89	118.58	117.81	117.32	
7	117.16	118.71	117.90	117.72	119.55	119.54	124.31	124.98	123.52	118.50	117.84	117.44	
8	117.32	118.62	117.88	117.68	119.14	120.30	124.26	124.97	122.92	118.47	117.83	117.54	
9	117.51	118.66	117.89	117.66	118.86	121.17	124.21	124.96	122.08	118.51	117.79	117.76	
10	117.65	118.72	117.90	117.54	118.56	121.78	124.17	124.98	121.15	118.46	117.74	117.93	
11	117.70	118.74	118.01	117.24	118.27	122.08	124.12	124.99	120.38	118.38	117.68	117.96	
12	117.62	118.66	118.43	117.48	118.21	122.08	124.09	124.99	119.62	118.27	117.63	117.99	
13	117.61	118.54	119.59	117.80	118.02	122.20	124.05	124.99	119.61	118.15	117.59	117.96	
14	117.66	118.43	119.97	118.04	117.93	122.27	124.07	124.99	119.66	118.10	117.55	117.91	
15	117.69	118.35	120.07	118.58	117.92	122.38	124.12	124.98	119.44	118.03	117.51	117.85	
16	117.72	118.34	120.14	118.93	117.79	122.53	124.25	124.96	119.24	118.00	117.49	117.79	
17	117.78	118.31	120.10	119.07	117.87	122.73	124.32	124.90	118.99	118.02	117.49	117.78	
18	117.81	118.27	120.04	118.99	118.14	122.89	124.40	124.90	119.10	118.02	117.57	117.86	
19	117.85	118.22	119.89	118.99	118.64	123.05	124.49	124.88	119.07	118.03	117.66	117.95	
20	117.96	118.18	119.76	118.96	119.23	123.15	124.58	124.85	119.09	117.98	117.69	118.01	
21	118.15	118.14	119.68	118.94	119.48	123.19	124.66	124.82	119.11	117.89	117.70	118.05	
22	118.19	118.05	119.51	118.92	119.42	123.26	124.74	124.77	118.92	117.81	117.82	118.07	
23	118.05	117.99	119.10	118.89	119.27	123.36	124.78	124.73	118.64	117.79	117.95	118.08	
24	117.75	117.96	118.99	118.85	118.80	123.33	124.83	124.69	118.84	117.80	117.99	118.16	
25	117.78	117.87	118.72	118.85	118.62	123.45	124.86	124.64	118.88	117.81	118.07	118.44	
26	117.79	117.76	118.46	119.24	118.63	123.62	124.89	124.58	118.69	117.82	118.07	118.67	
27	117.65	117.63	118.39	119.89	118.69	123.85	124.90	124.54	118.62	117.82	117.79	118.84	
28	117.63	117.64	118.29	120.08	118.66	124.05	124.91	124.52	118.43	117.84	117.48	119.03	
29	117.74	117.85	118.04	120.09	118.60	124.25	124.91	124.51	118.53	117.88		119.07	
30	117.85	117.93	117.88	120.11	118.57	124.36	124.92	124.50	118.71	117.98		119.18	
31		117.94		120.22	118.53		124.94		118.61	118.08		119.23	
Mean	117.55	118.38	118.73	118.55	118.92	121.93	124.50	124.85	120.49	118.16	117.75	118.00	
Max	118.19	119.27	120.14	120.22	120.36	124.36	124.94	124.99	124.44	118.67	118.09	119.23	124.99
Min	116.79	117.63	117.84	117.24	117.79	118.63	124.05	124.50	118.43	117.79	117.48	117.13	116.79
Annual Max Momentary Gage Height	124.99		m. (MSL.) ,				at 19.00 Hours, on Nov 7, 2021						
Zero Gage at Bottom Elevation	113.00		m. (MSL.) ,			River Bed	113.24	m. (MSL.)					
Left Bank Elevation		126.80		m. (MSL.) ,									
Right Bank Elevation		126.71		m. (MSL.) ,		Drainage Are	47,473	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.80	84.70	56.00	44.50	286.80	111.00	879.70	974.90	884.80	97.40	69.30	25.50		
2	5.80	148.55	54.20	44.00	289.20	109.40	895.00	976.60	874.60	102.20	56.00	21.80		
3	6.60	165.00	53.60	45.00	286.80	114.20	896.70	976.60	862.70	106.20	47.00	19.00		
4	6.00	166.00	52.40	49.50	279.60	133.70	893.30	976.60	847.40	111.80	46.50	18.20		
5	6.30	162.00	53.00	48.50	262.80	147.60	884.80	976.60	827.00	112.60	49.00	21.40		
6	9.40	141.90	53.60	47.00	215.30	153.30	874.60	976.60	792.40	105.40	50.60	26.00		
7	19.40	115.80	56.00	46.00	195.50	194.40	862.70	976.60	733.20	99.00	52.40	32.00		
8	26.00	108.60	54.80	44.00	153.30	282.00	854.20	974.90	638.32	96.60	51.80	37.00		
9	35.50	111.80	55.40	43.00	127.80	388.78	845.70	973.20	515.68	99.80	49.50	48.00		
10	42.50	116.60	56.00	37.00	103.80	472.76	838.90	976.60	386.10	95.80	47.00	58.10		
11	45.00	118.20	63.70	22.60	81.90	515.68	830.40	978.30	291.60	89.60	44.00	60.20		
12	41.00	111.80	93.40	34.00	77.70	515.68	825.30	978.30	203.20	81.90	41.50	62.30		
13	40.50	102.20	199.90	50.00	64.40	533.20	818.50	978.30	202.10	73.50	39.50	60.20		
14	43.00	93.40	242.40	65.80	58.10	543.42	821.90	978.30	207.60	70.00	37.50	56.70		
15	44.50	87.50	254.40	105.40	57.40	559.48	830.40	976.60	183.40	65.10	35.50	53.00		
16	46.00	86.80	262.80	133.70	49.50	581.38	852.50	973.20	163.00	63.00	34.50	49.50		
17	49.00	84.70	258.00	146.65	54.20	610.58	864.40	963.00	139.10	64.40	34.50	49.00		
18	50.60	81.90	250.80	139.10	72.80	633.94	878.00	963.00	149.50	64.40	38.50	53.60		
19	53.00	78.40	232.90	139.10	110.20	658.00	893.30	959.60	146.65	65.10	43.00	59.50		
20	60.20	75.60	218.60	136.40	162.00	674.00	908.60	954.50	148.55	61.60	44.50	63.70		
21	73.50	72.80	209.80	134.60	187.80	680.40	922.20	949.40	150.45	55.40	45.00	66.50		
22	76.30	66.50	191.10	132.80	181.20	691.60	935.80	940.90	132.80	50.60	51.20	67.90		
23	66.50	62.30	149.50	130.20	166.00	707.60	942.60	934.10	110.20	49.50	59.50	68.60		
24	47.50	60.20	139.10	127.00	123.00	702.80	951.10	927.30	126.20	50.00	62.30	74.20		
25	49.00	54.20	116.60	127.00	108.60	722.00	956.20	918.80	129.40	50.60	67.90	94.20		
26	49.50	48.00	95.80	163.00	109.40	749.20	961.30	908.60	114.20	51.20	67.90	112.60		
27	42.50	41.50	90.30	232.90	114.20	786.00	963.00	901.80	108.60	51.20	49.50	126.20		
28	41.50	42.00	83.30	255.60	111.80	818.50	964.70	898.40	93.40	52.40	34.00	142.85		
29	47.00	53.00	65.80	256.80	107.00	852.50	964.70	896.70	101.40	54.80		146.65		
30	53.00	58.10	54.80	259.20	104.60	871.20	966.40	895.00	115.80	61.60		157.10		
31		58.80		272.40	101.40		969.80		107.80	68.60		162.00		
Total	1182.40	2858.85	3818.00	3512.75	4404.10	15514.30	27746.70	28633.30	10487.15	2321.30	1349.40	2093.50	103921.75	CMSDAY
Mean	39.41	92.22	127.27	113.31	142.07	517.14	895.05	954.44	338.30	74.88	48.19	67.53	284.72	CMS
Max	76.30	166.00	262.80	272.40	289.20	871.20	969.80	978.30	884.80	112.60	69.30	162.00	978.30	CMS
Min	5.80	41.50	52.40	22.60	49.50	109.40	818.50	895.00	93.40	49.50	34.00	18.20	5.80	CMS
Runoff	102.16	247.00	329.88	303.50	380.51	1340.44	2397.31	2473.92	906.09	200.56	116.59	180.88	8978.84	MCM
Momentary Peak	978.30	CMS, at 124.99 m. (MSL.), at 19.00 Hours, on Nov 7, 2021												
Runoff Yield	6.00	Liters/Second/Square KM.			Momentary Peak Yield	20.61	Liters/Second/Square KM.							





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.20	79.60	40.20	64.70	263.00	116.50	923.50	1130.20	1038.50	120.10	44.40	27.50		
2	2.40	82.00	43.70	31.00	273.00	114.70	932.70	1122.40	1027.00	103.90	42.30	19.60		
3	2.20	120.10	47.20	24.80	276.00	114.70	946.50	1117.20	1036.20	90.00	40.90	16.80		
4	2.40	176.00	46.50	23.60	276.00	115.60	967.20	1114.60	1024.70	89.20	38.10	14.80		
5	2.20	189.00	44.40	22.80	271.50	120.10	978.70	1117.20	1013.20	100.30	36.00	13.20		
6	2.40	190.00	42.30	22.00	263.00	149.00	983.30	1119.80	987.90	110.20	33.00	11.60		
7	2.40	184.00	44.40	22.00	229.00	172.00	983.30	1122.40	964.90	97.60	29.50	6.00		
8	2.40	162.00	47.20	22.00	204.00	210.00	992.50	1122.40	946.50	54.90	28.50	0.90		
9	2.20	127.30	47.20	21.60	174.00	282.00	992.50	1125.00	907.60	84.40	28.00	0.60		
10	2.40	103.00	45.80	38.80	143.00	373.50	990.20	1125.00	818.00	111.10	27.50	0.50		
11	3.00	111.10	45.80	58.40	121.00	460.50	983.30	1127.60	588.00	90.80	26.50	2.00		
12	4.50	137.00	61.20	54.20	110.20	511.50	978.70	1130.20	480.00	85.20	26.00	3.00		
13	4.80	129.10	114.70	33.00	77.30	523.50	969.50	1135.40	312.00	71.00	24.80	6.00		
14	5.10	124.60	191.00	24.80	43.70	534.00	964.90	1135.40	276.00	60.50	23.20	12.00		
15	5.10	109.30	230.00	36.70	45.10	547.50	958.00	1127.60	249.00	60.50	21.60	17.20		
16	6.80	94.90	242.00	89.20	42.30	562.50	974.10	1119.80	224.00	59.80	21.20	23.20		
17	8.40	93.20	243.00	113.80	41.60	576.00	974.10	1122.40	180.00	57.70	20.80	32.50		
18	13.20	91.60	247.00	166.00	40.90	596.00	981.00	1125.00	139.00	59.80	20.40	33.00		
19	16.40	90.00	241.00	173.00	54.90	616.00	983.30	1122.40	161.00	45.80	20.40	39.50		
20	19.60	87.60	206.00	169.00	95.80	654.00	987.90	1117.20	172.00	45.80	21.20	54.20		
21	38.10	89.20	192.00	161.00	139.00	676.00	994.80	1117.20	167.00	45.80	21.60	54.90		
22	75.20	93.20	206.00	157.00	189.00	712.00	1001.70	1114.60	165.00	46.50	21.20	53.50		
23	100.30	78.00	199.00	153.00	198.00	740.00	1010.90	1112.00	157.00	47.20	20.80	47.90		
24	102.10	59.10	179.00	151.00	196.00	760.00	1022.40	1109.40	131.00	47.90	22.40	51.40		
25	74.50	57.00	163.00	151.00	180.00	802.00	1038.50	1101.60	125.50	45.80	29.50	59.10		
26	55.60	56.30	133.00	168.00	149.00	836.00	1050.00	1096.40	121.90	45.80	46.50	80.40		
27	66.10	55.60	112.00	189.00	132.00	870.00	1061.50	1086.00	114.70	45.80	39.50	112.90		
28	64.00	52.80	105.70	210.00	120.10	886.00	1061.50	1070.70	112.00	46.50	35.50	142.00		
29	36.70	45.10	94.90	257.00	118.30	896.60	1070.70	1059.20	102.10	46.50		145.00		
30	57.00	38.80	78.00	263.00	116.50	914.30	1099.00	1047.70	75.90	46.50		151.00		
31		37.40		259.00	116.50		1125.00		97.60	45.80		138.00		
<b>Total</b>	<b>779.70</b>	<b>3143.90</b>	<b>3733.20</b>	<b>3330.40</b>	<b>4699.70</b>	<b>15442.50</b>	<b>30981.20</b>	<b>33394.00</b>	<b>13915.20</b>	<b>2108.70</b>	<b>811.30</b>	<b>1370.20</b>	<b>113710.00</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>25.99</b>	<b>101.42</b>	<b>124.44</b>	<b>107.43</b>	<b>151.60</b>	<b>514.75</b>	<b>999.39</b>	<b>1113.13</b>	<b>448.88</b>	<b>68.02</b>	<b>28.97</b>	<b>44.20</b>	<b>311.53</b>	<b>CMS</b>
<b>Max</b>	<b>102.10</b>	<b>190.00</b>	<b>247.00</b>	<b>263.00</b>	<b>276.00</b>	<b>914.30</b>	<b>1125.00</b>	<b>1135.40</b>	<b>1038.50</b>	<b>120.10</b>	<b>46.50</b>	<b>151.00</b>	<b>1135.40</b>	<b>CMS</b>
<b>Min</b>	<b>2.20</b>	<b>37.40</b>	<b>40.20</b>	<b>21.60</b>	<b>40.90</b>	<b>114.70</b>	<b>923.50</b>	<b>1047.70</b>	<b>75.90</b>	<b>45.80</b>	<b>20.40</b>	<b>0.50</b>	<b>0.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>67.37</b>	<b>271.63</b>	<b>322.55</b>	<b>287.75</b>	<b>406.05</b>	<b>1334.23</b>	<b>2676.78</b>	<b>2885.24</b>	<b>1202.27</b>	<b>182.19</b>	<b>70.10</b>	<b>118.39</b>	<b>9824.54</b>	<b>MCM</b>
<b>Momentary Peak</b>	1138.00 CMS, at 117.25 m. (MSL.), at 21.00 Hours, on Nov 13, 2021													
<b>Runoff Yield</b>	6.40 Liters/Second/Square KM.			Momentary Peak Yield			23.39 Liters/Second/Square KM.							

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Dan Taka, Nakhon Ratchasima (M.2A)

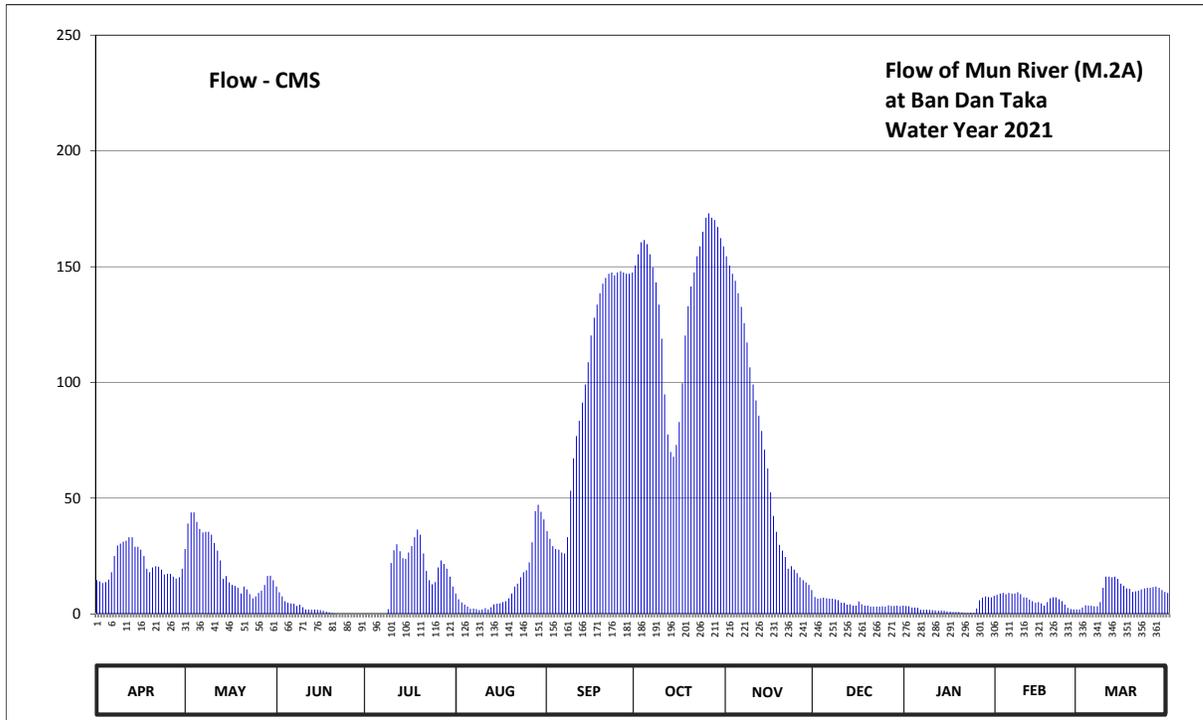
Lat 14 - 58 - 05 N Long 102 - 14 - 16 E

Location : on left bank at Ban Dan Taka.

	<b>Ban Dan Taka</b>	<b>Amphoe</b> Chaloem Phra Kiat	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	4,724 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+161.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream at the footpath.		<b>Elevation</b> +169.284 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	162.98	163.52	162.87	161.18	162.75	163.79	167.23	167.28	162.69	162.49	162.73	162.38	
2	162.96	163.90	162.77	161.12	162.64	163.68	167.29	167.23	162.65	162.48	162.75	162.45	
3	162.93	164.06	162.70	161.07	162.57	163.57	167.35	167.18	162.66	162.45	162.76	162.51	
4	162.95	164.06	162.60	161.03	162.52	163.52	167.36	167.13	162.67	162.45	162.74	162.50	
5	162.99	163.92	162.56	161.00	162.47	163.51	167.34	167.04	162.66	162.44	162.76	162.50	
6	163.12	163.82	162.55	161.00	162.41	163.46	167.29	166.90	162.65	162.36	162.75	162.48	
7	163.40	163.77	162.54	161.01	162.42	163.44	167.22	166.70	162.65	162.34	162.75	162.48	
8	163.58	163.78	162.49	161.11	162.39	163.70	167.12	166.46	162.64	162.36	162.77	162.58	
9	163.61	163.78	162.52	162.40	162.33	164.37	166.93	166.15	162.62	162.34	162.74	162.85	
10	163.64	163.74	162.46	163.28	162.37	164.84	166.51	165.90	162.56	162.33	162.68	163.04	
11	163.65	163.62	162.38	163.50	162.43	165.16	165.76	165.67	162.56	162.28	162.67	163.04	
12	163.70	163.49	162.38	163.60	162.38	165.38	165.18	165.45	162.52	162.27	162.63	163.03	
13	163.70	163.32	162.35	163.48	162.46	165.64	164.93	165.23	162.53	162.28	162.60	163.04	
14	163.56	163.00	162.38	163.36	162.53	165.90	164.86	164.96	162.50	162.26	162.56	163.00	
15	163.56	163.05	162.34	163.35	162.54	166.22	165.03	164.69	162.50	162.22	162.58	162.92	
16	163.51	162.94	162.31	163.46	162.55	166.55	165.36	164.35	162.59	162.16	162.55	162.88	
17	163.40	162.90	162.26	163.57	162.58	166.77	165.92	164.01	162.53	162.13	162.50	162.84	
18	163.18	162.88	162.17	163.70	162.60	166.93	166.55	163.78	162.50	162.13	162.58	162.83	
19	163.12	162.85	162.04	163.81	162.66	167.04	166.91	163.59	162.50	162.09	162.66	162.78	
20	163.20	162.75	161.93	163.74	162.75	167.11	167.09	163.49	162.47	162.03	162.68	162.79	
21	163.22	162.87	161.84	163.44	162.87	167.15	167.19	163.38	162.47	161.93	162.68	162.80	
22	163.21	162.82	161.75	163.14	162.92	167.18	167.28	163.18	162.47	161.94	162.64	162.82	
23	163.16	162.74	161.66	162.98	163.03	167.19	167.33	163.22	162.47	162.01	162.60	162.84	
24	163.08	162.66	161.57	162.91	163.12	167.17	167.40	163.16	162.48	161.94	162.52	162.85	
25	163.09	162.70	161.51	162.95	163.15	167.19	167.46	163.10	162.47	162.42	162.44	162.85	
26	163.09	162.76	161.44	163.20	163.29	167.20	167.48	163.03	162.51	162.62	162.39	162.86	
27	163.04	162.80	161.38	163.32	163.63	167.19	167.46	162.98	162.49	162.67	162.38	162.87	
28	163.01	162.90	161.33	163.26	164.08	167.18	167.45	162.94	162.49	162.70	162.38	162.85	
29	163.03	163.05	161.28	163.18	164.17	167.18	167.42	162.90	162.50	162.69		162.81	
30	163.18	163.06	161.23	163.04	164.07	167.19	167.37	162.81	162.48	162.68		162.78	
31		162.98		162.87	163.96		167.33		162.50	162.71		162.76	
Mean	163.26	163.24	162.12	162.71	162.86	165.75	166.79	164.80	162.55	162.33	162.62	162.77	
Max	163.70	164.06	162.87	163.81	164.17	167.20	167.48	167.28	162.69	162.71	162.77	163.04	167.48
Min	162.93	162.66	161.23	161.00	162.33	163.44	164.86	162.81	162.47	161.93	162.38	162.38	161.00
Annual Max Momentary Gage Height	167.48			m. (MSL.) ,			at 19.00 Hours ,						on Oct 25, 2021
Zero Gage at Bottom Elevation		161.00		m. (MSL.) ,		River Bed	159.21	m. (MSL.)					
Left Bank Elevation		169.02		m. (MSL.) ,									
Right Bank Elevation		169.03		m. (MSL.) ,		Drainage Are	4,724	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.50	28.00	11.75	0.00	8.75	35.70	150.40	154.40	7.30	3.35	8.25	1.90		
2	14.00	39.00	9.25	0.00	6.30	32.40	155.20	150.40	6.50	3.20	8.75	2.75		
3	13.25	43.80	7.50	0.00	4.90	29.25	160.50	146.80	6.70	2.75	9.00	3.70		
4	13.75	43.80	5.50	0.00	3.90	28.00	161.40	143.80	6.90	2.75	8.50	3.50		
5	14.75	39.60	4.70	0.00	3.05	27.75	159.60	138.40	6.70	2.60	9.00	3.50		
6	18.00	36.60	4.50	0.00	2.15	26.50	155.20	132.50	6.50	1.80	8.75	3.20		
7	25.00	35.10	4.30	0.00	2.30	26.00	149.60	125.50	6.50	1.70	8.75	3.20		
8	29.50	35.40	3.35	0.00	1.95	33.00	143.20	117.10	6.30	1.80	9.25	5.10		
9	30.30	35.40	3.90	2.00	1.65	53.10	133.55	106.50	5.90	1.70	8.50	11.25		
10	31.20	34.20	2.90	22.00	1.85	67.20	118.85	99.00	4.70	1.65	7.10	16.00		
11	31.50	30.60	1.90	27.50	2.45	76.80	94.80	92.10	4.70	1.40	6.90	16.00		
12	33.00	27.25	1.90	30.00	1.90	83.40	77.40	85.50	3.90	1.35	6.10	15.75		
13	33.00	23.00	1.75	27.00	2.90	91.20	69.90	78.90	4.10	1.40	5.50	16.00		
14	29.00	15.00	1.90	24.00	4.10	99.00	67.80	70.80	3.50	1.30	4.70	15.00		
15	29.00	16.25	1.70	23.75	4.30	108.70	72.90	62.70	3.50	1.10	5.10	13.00		
16	27.75	13.50	1.55	26.50	4.50	120.25	82.80	52.50	5.30	0.90	4.50	12.00		
17	25.00	12.50	1.30	29.25	5.10	127.95	99.60	42.30	4.10	0.83	3.50	11.00		
18	19.50	12.00	0.93	33.00	5.50	133.55	120.25	35.40	3.50	0.83	5.10	10.75		
19	18.00	11.25	0.60	36.30	6.70	138.40	132.85	29.75	3.50	0.73	6.70	9.50		
20	20.00	8.75	0.33	34.20	8.75	142.60	141.40	27.25	3.05	0.58	7.10	9.75		
21	20.50	11.75	0.10	26.00	11.75	145.00	147.40	24.50	3.05	0.33	7.10	10.00		
22	20.25	10.50	0.00	18.50	13.00	146.80	154.40	19.50	3.05	0.35	6.30	10.50		
23	19.00	8.50	0.00	14.50	15.75	147.40	158.70	20.50	3.05	0.53	5.50	11.00		
24	17.00	6.70	0.00	12.75	18.00	146.20	165.00	19.00	3.20	0.35	3.90	11.25		
25	17.25	7.50	0.00	13.75	18.75	147.40	171.00	17.50	3.05	2.30	2.60	11.25		
26	17.25	9.00	0.00	20.00	22.25	148.00	173.00	15.75	3.70	5.90	1.95	11.50		
27	16.00	10.00	0.00	23.00	30.90	147.40	171.00	14.50	3.35	6.90	1.90	11.75		
28	15.25	12.50	0.00	21.50	44.40	146.80	170.00	13.50	3.35	7.50	1.90	11.25		
29	15.75	16.25	0.00	19.50	47.10	146.80	167.00	12.50	3.50	7.30		10.25		
30	19.50	16.50	0.00	16.00	44.10	147.40	162.30	10.25	3.20	7.10		9.50		
31		14.50		11.75	40.80		158.70		3.50	7.75		9.00		
<b>Total</b>	<b>647.75</b>	<b>664.70</b>	<b>71.61</b>	<b>512.75</b>	<b>389.80</b>	<b>2949.95</b>	<b>4245.70</b>	<b>2059.10</b>	<b>139.15</b>	<b>80.03</b>	<b>172.20</b>	<b>300.10</b>	<b>12232.84</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>21.59</b>	<b>21.44</b>	<b>2.39</b>	<b>16.54</b>	<b>12.57</b>	<b>98.33</b>	<b>136.96</b>	<b>68.64</b>	<b>4.49</b>	<b>2.58</b>	<b>6.15</b>	<b>9.68</b>	<b>33.51</b>	<b>CMS</b>
<b>Max</b>	<b>33.00</b>	<b>43.80</b>	<b>11.75</b>	<b>36.30</b>	<b>47.10</b>	<b>148.00</b>	<b>173.00</b>	<b>154.40</b>	<b>7.30</b>	<b>7.75</b>	<b>9.25</b>	<b>16.00</b>	<b>173.00</b>	<b>CMS</b>
<b>Min</b>	<b>13.25</b>	<b>6.70</b>	<b>0.00</b>	<b>0.00</b>	<b>1.65</b>	<b>26.00</b>	<b>67.80</b>	<b>10.25</b>	<b>3.05</b>	<b>0.33</b>	<b>1.90</b>	<b>1.90</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>55.97</b>	<b>57.43</b>	<b>6.19</b>	<b>44.30</b>	<b>33.68</b>	<b>254.88</b>	<b>366.83</b>	<b>177.91</b>	<b>12.02</b>	<b>6.91</b>	<b>14.88</b>	<b>25.93</b>	<b>1056.92</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>173.00 CMS. at 167.48 m. (MSL.) at 19.00 Hours , on Oct 25, 2021</b>													
<b>Runoff Yield</b>	<b>7.09 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>36.62 Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Phong Sawai, Surin (M.4)

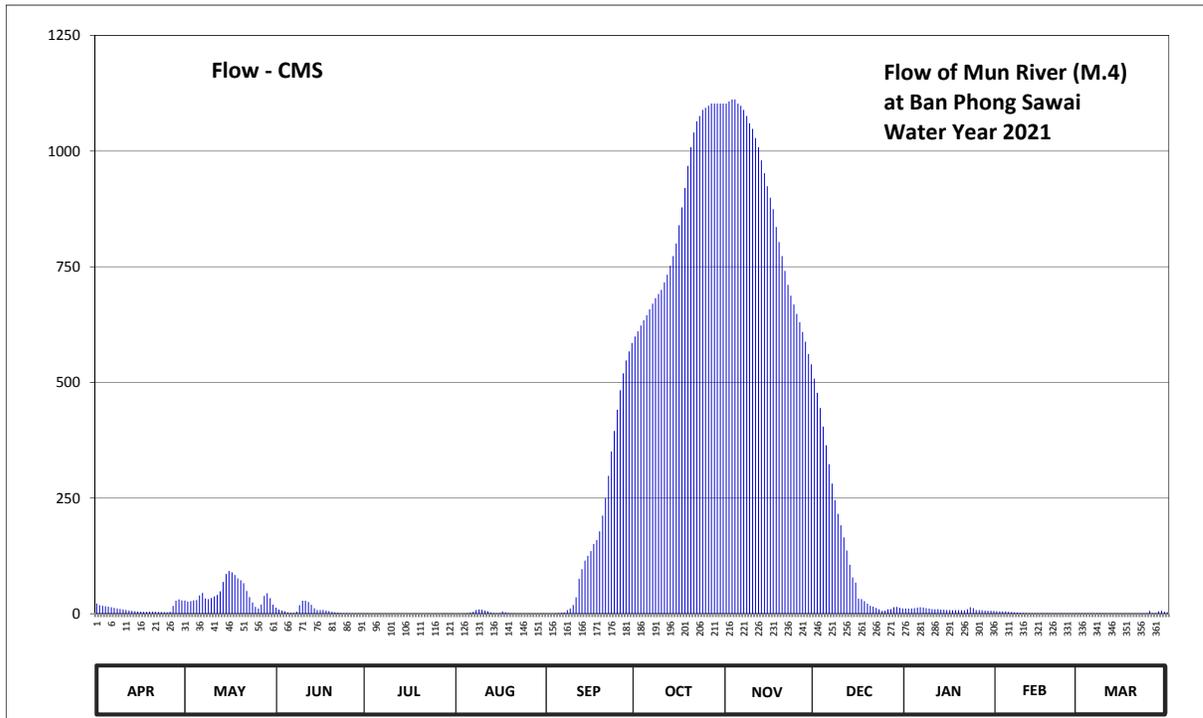
Lat 15 - 19 - 46 N Long 103 - 40 - 57 E

Location : on left bank at the bridge on highway.

	Ban Phong Sawai	Amphoe Tha Tum	Changwat Surin
<b>Drainage Area</b>	34,623 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+117.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.		<b>Elevation</b> +128.995 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1996-1997, 2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996-1997, 2005 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996-1997, 2005 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 53 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	118.04	118.17	117.80	117.03	116.85	116.97	123.53	125.35	122.88	118.52	118.41	118.18	
2	117.96	118.13	117.66	117.01	116.84	116.92	123.61	125.36	122.66	118.52	118.40	118.18	
3	117.93	118.14	117.59	116.98	116.84	116.93	123.70	125.37	122.42	118.52	118.40	118.16	
4	117.90	118.18	117.51	116.95	116.89	117.01	123.78	125.37	122.11	118.53	118.40	118.15	
5	117.87	118.19	117.41	116.92	117.16	117.25	123.86	125.35	121.80	118.55	118.38	118.14	
6	117.84	118.39	117.32	116.90	117.35	117.31	123.95	125.34	121.46	118.56	118.37	118.12	
7	117.79	118.47	117.28	116.88	117.46	117.40	124.03	125.32	121.11	118.55	118.35	118.13	
8	117.74	118.26	117.47	116.85	117.63	117.63	124.10	125.29	120.78	118.53	118.34	118.14	
9	117.71	118.23	117.96	116.82	117.68	117.74	124.15	125.25	120.49	118.52	118.33	118.14	
10	117.68	118.28	118.16	116.80	117.65	117.97	124.20	125.22	120.24	118.50	118.32	118.13	
11	117.64	118.35	118.16	116.79	117.59	118.31	124.26	125.17	119.98	118.49	118.31	118.11	
12	117.60	118.41	118.11	116.77	117.52	118.91	124.32	125.12	119.68	118.50	118.30	118.10	
13	117.56	118.52	117.98	116.77	117.38	119.18	124.39	125.05	119.30	118.48	118.29	118.08	
14	117.53	118.81	117.75	116.77	117.23	119.41	124.46	124.98	118.95	118.47	118.28	118.05	
15	117.49	119.05	117.63	116.76	117.13	119.54	124.55	124.91	118.79	118.46	118.28	118.03	
16	117.47	119.13	117.63	116.75	117.23	119.67	124.67	124.84	118.76	118.46	118.27	118.03	
17	117.46	119.09	117.64	116.75	117.51	119.84	124.78	124.77	118.75	118.45	118.25	118.03	
18	117.46	119.02	117.60	116.75	117.40	119.92	124.90	124.66	118.71	118.46	118.23	118.03	
19	117.48	118.92	117.54	116.74	117.24	120.11	125.02	124.56	118.65	118.46	118.23	118.05	
20	117.47	118.86	117.46	116.73	117.12	120.45	125.12	124.46	118.60	118.45	118.23	118.04	
21	117.46	118.77	117.40	116.71	117.05	120.83	125.20	124.35	118.58	118.45	118.23	118.04	
22	117.44	118.53	117.33	116.68	116.99	121.25	125.26	124.24	118.54	118.49	118.23	118.05	
23	117.43	118.32	117.24	116.68	116.96	121.69	125.29	124.13	118.49	118.56	118.22	118.09	
24	117.42	118.09	117.18	116.70	116.96	122.04	125.32	124.02	118.42	118.53	118.22	118.30	
25	117.41	117.86	117.15	116.77	116.95	122.39	125.33	123.88	118.43	118.46	118.22	118.42	
26	117.47	117.74	117.11	116.85	116.95	122.70	125.34	123.75	118.49	118.46	118.22	118.22	
27	117.92	118.00	117.08	116.85	116.95	122.96	125.35	123.60	118.50	118.45	118.21	118.23	
28	118.16	118.37	117.05	116.86	116.94	123.16	125.35	123.45	118.56	118.44	118.19	118.40	
29	118.22	118.46	117.04	116.88	116.96	123.30	125.35	123.26	118.57	118.43		118.43	
30	118.18	118.27	117.05	116.87	117.01	123.43	125.35	123.10	118.54	118.43		118.38	
31		117.99		116.86	117.01		125.35		118.52	118.42		118.35	
Mean	117.69	118.42	117.51	116.82	117.18	119.74	124.64	124.65	119.67	118.49	118.29	118.16	
Max	118.22	119.13	118.16	117.03	117.68	123.43	125.35	125.37	122.88	118.56	118.41	118.43	125.37
Min	117.41	117.74	117.04	116.68	116.84	116.92	123.53	123.10	118.42	118.42	118.19	118.03	116.68
Annual Max Momentary Gage Height	125.37		m. (MSL.) ,			at 01.00 Hours ,		on Nov 3, 2021					
Zero Gage at Bottom Elevation	117.00		m. (MSL.) ,			River Bed	115.84	m. (MSL.)					
Left Bank Elevation		128.76		m. (MSL.) ,									
Right Bank Elevation		129.31		m. (MSL.) ,		Drainage Are	34,623	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.00	28.50	13.00	0.58	0.13	0.43	599.20	1102.50	508.20	11.40	5.50	0.88		
2	18.40	26.50	8.80	0.53	0.10	0.30	610.40	1107.00	477.40	11.40	5.00	0.88		
3	17.20	27.00	6.80	0.45	0.10	0.33	623.00	1111.50	444.60	11.40	5.00	0.87		
4	16.00	29.00	5.20	0.38	0.23	0.53	634.20	1111.50	404.30	12.10	5.00	0.86		
5	15.10	29.50	3.20	0.30	0.90	1.50	645.40	1102.50	364.00	13.50	4.20	0.85		
6	14.20	39.50	2.20	0.25	2.50	2.10	658.00	1098.00	323.20	14.20	3.80	0.84		
7	12.70	44.90	1.80	0.20	4.20	3.00	670.10	1089.00	281.20	13.50	3.00	0.84		
8	11.20	33.00	4.40	0.13	7.90	7.90	682.00	1076.00	245.00	12.10	2.60	0.85		
9	10.30	31.50	18.40	0.05	9.40	11.20	691.00	1060.00	216.00	11.40	2.20	0.85		
10	9.40	34.00	28.00	0.00	8.50	18.80	700.00	1048.00	191.00	10.00	1.80	0.84		
11	8.20	37.50	28.00	0.00	6.80	35.50	716.20	1028.00	165.00	9.50	1.40	0.83		
12	7.00	40.70	25.50	0.00	5.40	75.70	732.60	1008.00	136.40	10.00	1.00	0.82		
13	6.20	48.40	19.20	0.00	2.80	96.40	752.20	980.00	106.00	9.00	0.99	0.80		
14	5.60	68.70	11.50	0.00	1.30	114.80	773.00	952.00	78.50	8.50	0.98	0.78		
15	4.80	86.00	7.90	0.00	0.83	125.20	800.00	924.00	67.30	8.00	0.98	0.76		
16	4.40	92.40	7.90	0.00	1.30	135.60	839.50	899.00	32.60	8.00	0.97	0.76		
17	4.20	89.20	8.20	0.00	5.20	151.00	878.00	874.50	31.50	7.50	0.95	0.76		
18	4.20	83.60	7.00	0.00	3.00	159.00	920.00	836.00	27.10	8.00	0.93	0.76		
19	4.60	76.40	5.80	0.00	1.40	178.00	968.00	803.00	21.50	8.00	0.93	0.78		
20	4.40	72.20	4.20	0.00	0.80	212.00	1008.00	773.00	17.00	7.50	0.93	0.77		
21	4.20	65.90	3.00	0.00	0.63	250.00	1040.00	741.00	15.60	7.50	0.93	0.77		
22	3.80	49.10	2.30	0.00	0.48	298.00	1064.00	710.80	12.80	9.50	0.93	0.78		
23	3.60	36.00	1.40	0.00	0.40	350.80	1076.00	687.40	9.50	14.20	0.92	0.81		
24	3.40	24.50	0.95	0.00	0.40	395.20	1089.00	668.40	6.00	12.10	0.92	1.00		
25	3.20	14.80	0.88	0.00	0.38	440.70	1093.50	648.20	6.50	8.00	0.92	6.00		
26	4.40	11.20	0.78	0.13	0.38	483.00	1098.00	630.00	9.50	8.00	0.92	0.92		
27	16.80	20.00	0.70	0.13	0.38	519.40	1102.50	609.00	10.00	7.50	0.91	0.93		
28	28.00	38.50	0.63	0.15	0.35	547.40	1102.50	588.00	14.20	7.00	0.89	5.00		
29	31.00	44.20	0.60	0.20	0.40	567.00	1102.50	561.40	14.90	6.50		6.50		
30	29.00	33.50	0.63	0.18	0.53	585.20	1102.50	539.00	12.80	6.50		4.20		
31		19.60		0.15	0.53		1102.50		11.40	6.00		3.00		
<b>Total</b>	<b>327.50</b>	<b>1375.80</b>	<b>228.87</b>	<b>3.81</b>	<b>67.65</b>	<b>5765.99</b>	<b>26873.80</b>	<b>26366.70</b>	<b>4261.00</b>	<b>297.80</b>	<b>55.50</b>	<b>46.29</b>	<b>65670.71</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>10.92</b>	<b>44.38</b>	<b>7.63</b>	<b>0.12</b>	<b>2.18</b>	<b>192.20</b>	<b>866.90</b>	<b>878.89</b>	<b>137.45</b>	<b>9.61</b>	<b>1.98</b>	<b>1.49</b>	<b>179.92</b>	<b>CMS</b>
<b>Max</b>	<b>31.00</b>	<b>92.40</b>	<b>28.00</b>	<b>0.58</b>	<b>9.40</b>	<b>585.20</b>	<b>1102.50</b>	<b>1111.50</b>	<b>508.20</b>	<b>14.20</b>	<b>5.50</b>	<b>6.50</b>	<b>1111.50</b>	<b>CMS</b>
<b>Min</b>	<b>3.20</b>	<b>11.20</b>	<b>0.60</b>	<b>0.00</b>	<b>0.10</b>	<b>0.30</b>	<b>599.20</b>	<b>539.00</b>	<b>6.00</b>	<b>6.00</b>	<b>0.89</b>	<b>0.76</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>28.30</b>	<b>118.87</b>	<b>19.77</b>	<b>0.33</b>	<b>5.84</b>	<b>498.18</b>	<b>2321.90</b>	<b>2278.08</b>	<b>368.15</b>	<b>25.73</b>	<b>4.80</b>	<b>4.00</b>	<b>5673.95</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1111.50 CMS. at 125.37 m. (MSL.) at 01.00 Hours , on Nov 3, 2021</b>													
<b>Runoff Yield</b>	<b>5.20 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>32.10 Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Mueang Kong, Si Sa Ket (M.5)

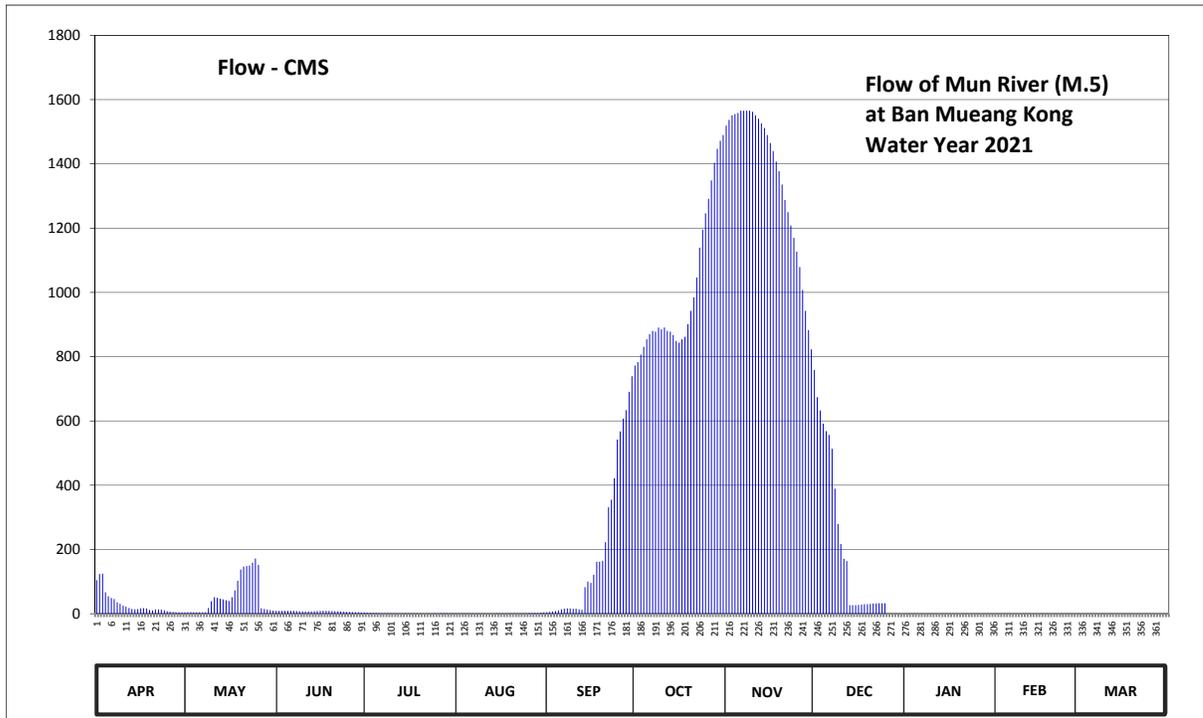
Lat 15 - 20 - 21 N Long 104 - 09 - 14 E

Location : on left bank infront of Amphoe Rasi Salai Office.

	<b>Ban</b>	<b>Mueang Kong</b>	<b>Amphoe</b>	<b>Rasi Salai</b>	<b>Changwat</b>	<b>Si Sa Ket</b>
<b>Drainage Area</b>	45,136	sq.km.				
<b>Type of Gage</b>	Water- stage recorder.					
<b>Zero Gage at Bottom</b>	+110.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.				<b>Elevation</b>	+124.814 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1995 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1972 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1972 to date					
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	112.43	110.41	111.09	110.58	110.29	110.65	117.79	120.33	117.71	112.60	112.54	112.31	
2	112.69	110.42	111.09	110.53	110.28	110.75	117.85	120.38	117.15	112.60	112.54	112.31	
3	112.70	110.44	111.08	110.50	110.27	110.87	117.98	120.42	116.83	112.59	112.53	112.31	
4	111.85	110.43	111.08	110.46	110.26	111.02	118.08	120.43	116.47	112.60	112.53	112.31	
5	111.64	110.43	111.08	110.44	110.25	111.21	118.17	120.44	116.26	112.60	112.52	112.30	
6	111.55	110.43	111.07	110.39	110.24	111.50	118.23	120.46	116.15	112.61	112.52	112.29	
7	111.49	110.42	111.09	110.36	110.22	111.68	118.27	120.46	115.76	112.62	112.51	112.28	
8	111.29	110.42	111.05	110.34	110.21	111.75	118.26	120.46	114.63	112.63	112.49	112.27	
9	111.19	110.52	110.99	110.34	110.19	111.71	118.31	120.46	113.57	112.64	112.48	112.26	
10	111.08	110.90	110.95	110.32	110.17	111.62	118.29	120.45	112.95	112.65	112.47	112.25	
11	111.00	111.10	110.93	110.29	110.17	111.65	118.31	120.42	112.49	112.65	112.46	112.24	
12	110.89	111.07	110.93	110.26	110.21	111.45	118.27	120.39	112.42	112.65	112.45	112.24	
13	110.80	111.02	110.94	110.23	110.19	111.40	118.26	120.35	112.43	112.67	112.45	112.24	
14	110.76	110.99	110.98	110.24	110.20	111.53	118.22	120.31	112.43	112.68	112.45	112.24	
15	110.78	110.95	111.05	110.31	110.25	111.72	118.15	120.25	112.44	112.67	112.44	112.23	
16	110.86	110.91	111.07	110.30	110.26	111.68	118.13	120.18	112.47	112.67	112.43	112.22	
17	110.88	111.10	111.13	110.28	110.27	111.96	118.17	120.11	112.51	112.66	112.42	112.22	
18	110.84	111.41	111.14	110.26	110.26	112.40	118.20	120.02	112.54	112.66	112.41	112.22	
19	110.69	111.75	111.09	110.24	110.26	112.40	118.35	119.93	112.54	112.65	112.40	112.27	
20	110.65	112.14	111.04	110.23	110.28	112.43	118.51	119.80	112.57	112.65	112.40	112.32	
21	110.75	112.24	110.99	110.21	110.28	113.01	118.66	119.65	112.59	112.65	112.39	112.31	
22	110.75	112.26	110.97	110.19	110.28	114.09	118.87	119.53	112.60	112.65	112.38	112.28	
23	110.73	112.28	110.94	110.15	110.30	114.32	119.18	119.40	112.61	112.64	112.37	112.26	
24	110.67	112.37	110.86	110.18	110.34	114.92	119.36	119.28	112.62	112.63	112.36	112.25	
25	110.56	112.50	110.79	110.24	110.36	116.02	119.52	119.14	112.62	112.63	112.34	112.24	
26	110.52	112.30	110.74	110.30	110.38	116.25	119.66	118.98	112.62	112.62	112.33	112.23	
27	110.48	111.74	110.69	110.32	110.41	116.61	119.84	118.74	112.62	112.61	112.32	112.23	
28	110.45	111.57	110.65	110.31	110.44	116.84	120.01	118.51	112.62	112.60	112.31	112.23	
29	110.41	111.43	110.62	110.31	110.46	117.27	120.13	118.28	112.62	112.59		112.22	
30	110.40	111.31	110.61	110.30	110.52	117.59	120.20	118.05	112.62	112.56		112.19	
31		111.19		110.31	110.58		120.25		112.61	112.54		112.16	
Mean	111.06	111.24	110.96	110.31	110.29	112.94	118.69	119.85	113.58	112.63	112.44	112.26	
Max	112.70	112.50	111.14	110.58	110.58	117.59	120.25	120.46	117.71	112.68	112.54	112.32	120.46
Min	110.40	110.41	110.61	110.15	110.17	110.65	117.79	118.05	112.42	112.54	112.31	112.16	110.15
Annual Max Momentary Gage Height	120.46		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	110.00		m. (MSL.) ,			River Bed	108.92		m. (MSL.)				
Left Bank Elevation		124.56		m. (MSL.) ,									
Right Bank Elevation		122.47		m. (MSL.) ,		Drainage Are	45,136		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.25	4.20	8.90	3.80	1.14	4.50	772.30	1518.80	758.70	0.00	0.00	0.00	
2	123.75	4.40	8.90	3.30	1.08	5.50	783.00	1536.80	674.00	0.00	0.00	0.00	
3	124.50	4.80	8.80	3.00	1.02	6.70	806.40	1551.20	632.60	0.00	0.00	0.00	
4	67.00	4.60	8.80	2.60	0.96	8.20	830.80	1554.80	591.70	0.00	0.00	0.00	
5	54.40	4.60	8.80	2.40	0.90	10.13	854.20	1558.40	568.60	0.00	0.00	0.00	
6	49.00	4.60	8.70	1.92	0.84	13.75	869.80	1565.60	556.50	0.00	0.00	0.00	
7	45.50	4.40	8.90	1.68	0.72	16.00	880.20	1565.60	513.60	0.00	0.00	0.00	
8	35.50	4.40	8.50	1.52	0.66	16.88	877.60	1565.60	389.30	0.00	0.00	0.00	
9	30.50	18.00	7.90	1.52	0.56	16.38	890.60	1565.60	279.00	0.00	0.00	0.00	
10	25.20	39.00	7.50	1.36	0.48	15.25	885.40	1562.00	217.00	0.00	0.00	0.00	
11	22.00	51.50	7.30	1.14	0.48	15.63	890.60	1551.20	171.00	0.00	0.00	0.00	
12	17.70	49.55	7.30	0.96	0.66	13.13	880.20	1540.40	164.00	0.00	0.00	0.00	
13	15.00	46.30	7.40	0.78	0.56	12.50	877.60	1526.00	26.60	0.00	0.00	0.00	
14	13.80	44.40	7.80	0.84	0.60	82.70	867.20	1511.60	26.60	0.00	0.00	0.00	
15	14.40	42.00	8.50	1.28	0.90	99.80	849.00	1490.00	26.80	0.00	0.00	0.00	
16	16.80	39.60	8.70	1.20	0.96	96.20	843.80	1464.80	27.40	0.00	0.00	0.00	
17	17.40	51.50	9.30	1.08	1.02	121.40	854.20	1439.60	28.40	0.00	0.00	0.00	
18	16.20	72.80	9.40	0.96	0.96	162.00	862.00	1407.20	29.60	0.00	0.00	0.00	
19	11.70	102.50	8.90	0.84	0.96	162.00	901.00	1377.60	29.60	0.00	0.00	0.00	
20	10.50	137.60	8.40	0.78	1.08	165.00	942.80	1336.00	30.80	0.00	0.00	0.00	
21	13.50	146.60	7.90	0.66	1.08	223.00	984.80	1288.00	31.60	0.00	0.00	0.00	
22	13.50	148.40	7.70	0.56	1.08	331.00	1046.00	1249.60	32.00	0.00	0.00	0.00	
23	12.90	150.20	7.40	0.40	1.20	355.20	1139.00	1208.00	32.40	0.00	0.00	0.00	
24	11.10	159.00	6.60	0.52	1.52	421.20	1195.20	1169.80	32.80	0.00	0.00	0.00	
25	7.80	172.00	5.90	0.84	1.68	542.20	1246.40	1127.00	32.80	0.00	0.00	0.00	
26	6.60	152.00	5.40	1.20	1.84	567.50	1291.20	1079.00	0.00	0.00	0.00	0.00	
27	5.60	16.75	4.90	1.36	2.10	607.10	1348.80	1007.60	0.00	0.00	0.00	0.00	
28	5.00	14.63	4.50	1.28	2.40	633.80	1403.60	942.80	0.00	0.00	0.00	0.00	
29	4.20	12.88	4.20	1.28	2.60	690.80	1446.80	882.80	0.00	0.00	0.00	0.00	
30	4.00	11.38	4.10	1.20	3.20	739.40	1472.00	823.00	0.00	0.00	0.00	0.00	
31		9.90		1.28	3.80		1490.00		0.00	0.00	0.00	0.00	
<b>Total</b>	<b>899.30</b>	<b>1724.49</b>	<b>227.30</b>	<b>43.54</b>	<b>39.04</b>	<b>6154.85</b>	<b>31282.50</b>	<b>40966.40</b>	<b>5903.40</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>87240.82</b> CMSDAY
<b>Mean</b>	<b>29.98</b>	<b>55.63</b>	<b>7.58</b>	<b>1.40</b>	<b>1.26</b>	<b>205.16</b>	<b>1009.11</b>	<b>1365.55</b>	<b>190.43</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>239.02</b> CMS
<b>Max</b>	<b>124.50</b>	<b>172.00</b>	<b>9.40</b>	<b>3.80</b>	<b>3.80</b>	<b>739.40</b>	<b>1490.00</b>	<b>1565.60</b>	<b>758.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1565.60</b> CMS
<b>Min</b>	<b>4.00</b>	<b>4.20</b>	<b>4.10</b>	<b>0.40</b>	<b>0.48</b>	<b>4.50</b>	<b>772.30</b>	<b>823.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>77.70</b>	<b>149.00</b>	<b>19.64</b>	<b>3.76</b>	<b>3.37</b>	<b>531.78</b>	<b>2702.81</b>	<b>3539.50</b>	<b>510.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7537.61</b> MCM
<b>Momentary Peak</b>	<b>1565.60 CMS. at 120.46 m. (MSL.) at 06.00 Hours , on Nov 6, 2021</b>												
<b>Runoff Yield</b>	<b>5.30 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 34.69 Liters/Second/Square KM.</b>									

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Satuk, Buri Ram (M.6A)

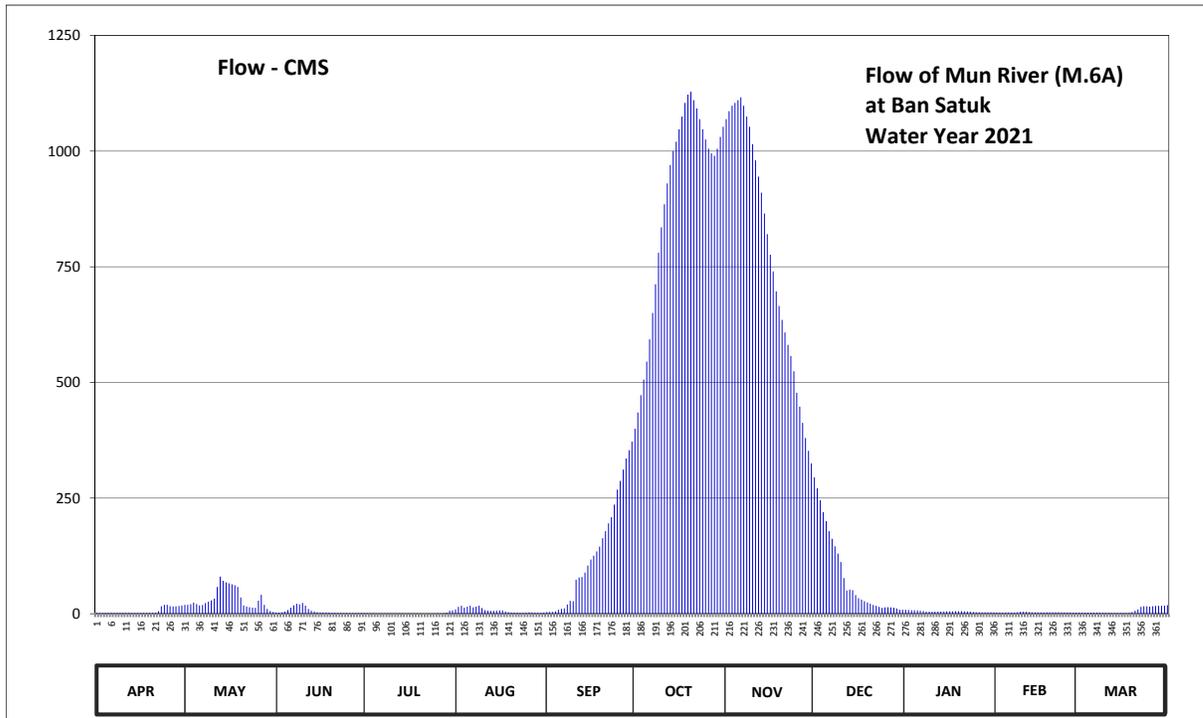
Lat 15 - 18 - 00 N Long 103 - 17 - 32 E

Location : on right bank at Satuk.

	<b>Ban Satuk</b>	<b>Amphoe Satuk</b>	<b>Changwat Buri Ram</b>
<b>Drainage Area</b>	28,357 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+123.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.		<b>Elevation</b> +133.541 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1964 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1976 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1976 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +130.500 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 63 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.05	124.16	123.22	123.01	123.66	123.28	128.95	130.78	128.30	123.62	123.23	123.17	
2	123.05	124.16	123.20	123.00	123.93	123.32	129.10	130.81	128.06	123.61	123.22	123.17	
3	123.06	124.22	123.27	122.97	124.06	123.32	129.25	130.83	127.80	123.58	123.20	123.17	
4	123.08	124.34	123.36	122.94	123.85	123.40	129.37	130.84	127.54	123.56	123.22	123.16	
5	123.14	124.23	123.59	122.92	123.95	123.63	129.50	130.85	127.30	123.54	123.22	123.16	
6	123.14	124.09	123.86	122.90	124.06	123.73	129.66	130.86	127.03	123.51	123.21	123.16	
7	123.12	124.14	124.11	122.89	123.88	123.79	129.85	130.83	126.80	123.45	123.20	123.15	
8	123.11	124.30	124.26	122.90	123.95	124.19	130.03	130.79	126.57	123.36	123.25	123.15	
9	123.10	124.44	124.21	122.89	124.07	124.51	130.20	130.75	126.34	123.36	123.35	123.12	
10	123.10	124.55	124.32	122.88	123.82	124.48	130.32	130.68	126.08	123.37	123.33	123.10	
11	123.09	124.72	124.07	122.87	123.58	125.45	130.42	130.61	125.50	123.37	123.34	123.09	
12	123.08	125.21	123.71	122.86	123.51	125.52	130.51	130.54	125.10	123.38	123.30	123.08	
13	123.07	125.55	123.50	122.87	123.48	125.54	130.59	130.47	125.13	123.39	123.26	123.07	
14	123.06	125.41	123.39	122.87	123.48	125.70	130.65	130.38	125.11	123.39	123.24	123.06	
15	123.06	125.36	123.29	122.85	123.49	125.95	130.69	130.29	124.95	123.40	123.23	123.06	
16	123.06	125.33	123.21	122.85	123.55	126.16	130.74	130.19	124.76	123.42	123.22	123.05	
17	123.06	125.30	123.21	122.83	123.54	126.28	130.79	130.10	124.62	123.42	123.23	123.04	
18	123.07	125.27	123.21	122.80	123.38	126.41	130.84	129.99	124.47	123.43	123.25	123.08	
19	123.10	125.21	123.18	122.78	123.28	126.56	130.87	129.90	124.36	123.44	123.24	123.28	
20	123.09	124.81	123.13	122.77	123.23	126.82	130.88	129.80	124.26	123.43	123.24	123.50	
21	123.10	124.10	123.08	122.75	123.18	127.03	130.85	129.71	124.15	123.42	123.25	123.67	
22	123.43	123.98	123.04	122.74	123.15	127.24	130.82	129.62	124.06	123.39	123.24	123.94	
23	124.01	123.91	123.01	122.73	123.13	127.41	130.78	129.54	123.94	123.36	123.23	124.01	
24	124.16	123.86	123.00	122.74	123.14	127.71	130.74	129.43	123.84	123.32	123.22	124.00	
25	124.16	123.83	123.03	122.80	123.19	128.03	130.70	129.27	123.89	123.28	123.22	123.98	
26	124.03	124.52	123.00	122.86	123.25	128.22	130.66	129.15	123.91	123.26	123.21	124.01	
27	123.99	124.96	122.99	122.85	123.21	128.41	130.64	129.01	123.89	123.24	123.20	124.04	
28	124.00	124.16	123.00	122.87	123.16	128.57	130.63	128.85	123.85	123.24	123.19	124.06	
29	124.04	123.72	122.99	123.20	123.13	128.69	130.66	128.68	123.76	123.25		124.05	
30	124.09	123.46	123.02	123.49	123.11	128.81	130.71	128.50	123.63	123.25		124.07	
31		123.31		123.55	123.16		130.75		123.63	123.24		124.13	
Mean	123.36	124.47	123.38	122.91	123.50	125.94	130.36	130.07	125.25	123.40	123.24	123.44	
Max	124.16	125.55	124.32	123.55	124.07	128.81	130.88	130.86	128.30	123.62	123.35	124.13	130.88
Min	123.05	123.31	122.99	122.73	123.11	123.28	128.95	128.50	123.63	123.24	123.19	123.04	122.73
Annual Max Momentary Gage Height	130.88		m. (MSL.) ,			at 12.00 Hours ,		on Oct 19, 2021					
Zero Gage at Bottom Elevation	123.00		m. (MSL.) ,			River Bed	121.16	m. (MSL.)					
Left Bank Elevation		130.49		m. (MSL.) ,									
Right Bank Elevation		131.14		m. (MSL.) ,		Drainage Are	28,357	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.75	19.20	2.70	1.55	9.20	3.30	400.00	1069.00	295.00	8.40	2.80	2.35	
2	1.75	19.20	2.50	1.50	14.60	3.80	435.00	1086.00	271.00	8.20	2.70	2.35	
3	1.80	20.60	3.20	1.35	17.20	3.80	472.50	1098.00	245.00	7.70	2.50	2.35	
4	1.90	23.93	4.40	1.20	13.00	5.00	506.00	1104.00	219.60	7.40	2.70	2.30	
5	2.20	20.90	7.85	1.10	15.00	8.60	545.00	1110.00	200.00	7.10	2.70	2.30	
6	2.20	17.80	13.20	1.00	17.20	10.60	593.00	1116.00	178.40	6.65	2.60	2.30	
7	2.10	18.80	18.20	0.96	13.60	11.80	650.00	1098.00	162.00	5.75	2.50	2.25	
8	2.05	23.00	21.80	1.00	15.00	19.80	712.00	1074.50	145.90	4.40	3.00	2.25	
9	2.00	26.27	20.30	0.96	17.40	27.90	780.00	1052.50	129.80	4.40	4.25	2.10	
10	2.00	28.83	23.47	0.92	12.40	27.20	835.00	1015.00	111.80	4.55	3.95	2.00	
11	1.95	32.80	17.40	0.88	7.70	73.67	885.00	980.00	77.00	4.55	4.10	1.95	
12	1.90	57.67	10.20	0.84	6.65	78.20	930.00	945.00	50.33	4.70	3.50	1.90	
13	1.85	80.00	6.50	0.88	6.20	79.40	970.00	910.00	52.33	4.85	3.10	1.85	
14	1.80	71.00	4.85	0.88	6.20	89.00	1000.00	865.00	51.00	4.85	2.90	1.80	
15	1.80	67.67	3.40	0.80	6.35	104.00	1020.00	820.50	40.33	5.00	2.80	1.80	
16	1.80	65.67	2.60	0.80	7.25	117.20	1047.00	776.00	33.73	5.30	2.70	1.75	
17	1.80	63.67	2.60	0.72	7.10	125.60	1074.50	740.00	30.47	5.30	2.80	1.70	
18	1.85	61.67	2.60	0.60	4.70	134.70	1104.00	696.50	26.97	5.45	3.00	1.90	
19	2.00	57.67	2.40	0.54	3.30	145.20	1122.00	665.00	24.40	5.60	2.90	3.30	
20	1.95	34.90	2.15	0.51	2.80	163.40	1128.00	635.00	21.80	5.45	2.90	6.50	
21	2.00	18.00	1.90	0.45	2.40	178.40	1110.00	608.00	19.00	5.30	3.00	9.40	
22	5.45	15.60	1.70	0.42	2.25	195.20	1092.00	581.00	17.20	4.85	2.90	14.80	
23	16.20	14.20	1.55	0.39	2.15	208.80	1069.00	557.00	14.80	4.40	2.80	16.20	
24	19.20	13.20	1.50	0.42	2.20	236.00	1047.00	524.00	12.80	3.80	2.70	16.00	
25	19.20	12.60	1.65	0.60	2.45	268.00	1025.00	477.50	13.80	3.30	2.70	15.60	
26	16.60	28.13	1.50	0.84	3.00	287.00	1005.00	447.50	14.20	3.10	2.60	16.20	
27	15.80	41.00	1.45	0.80	2.60	311.50	995.00	412.50	13.80	2.90	2.50	16.80	
28	16.00	19.20	1.50	0.88	2.30	335.50	990.00	380.00	13.00	2.90	2.45	17.20	
29	16.80	10.40	1.45	2.50	2.15	353.50	1005.00	352.00	11.20	3.00		17.00	
30	17.80	5.90	1.60	6.35	2.05	372.00	1030.50	325.00	8.60	3.00		17.40	
31		3.65		7.25	2.30		1052.50		8.60	2.90		18.60	
<b>Total</b>	183.50	993.13	188.12	39.89	228.70	3978.07	27630.00	23520.50	2513.86	155.05	82.05	222.20	59735.07 CMSDAY
<b>Mean</b>	6.12	32.04	6.27	1.29	7.38	132.60	891.29	784.02	81.09	5.00	2.93	7.17	163.66 CMS
<b>Max</b>	19.20	80.00	23.47	7.25	17.40	372.00	1128.00	1116.00	295.00	8.40	4.25	18.60	1128.00 CMS
<b>Min</b>	1.75	3.65	1.45	0.39	2.05	3.30	400.00	325.00	8.60	2.90	2.45	1.70	0.39 CMS
<b>Runoff</b>	15.85	85.81	16.25	3.45	19.76	343.71	2387.23	2032.17	217.20	13.40	7.09	19.20	5161.11 MCM
<b>Momentary Peak</b>	1128.00 CMS. at 130.88 m. (MSL.) at 12.00 Hours , on Oct 19, 2021												
<b>Runoff Yield</b>	5.77 Liters/Second/Square KM.			Momentary Peak Yield 39.78 Liters/Second/Square KM.									

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Chumchondeengam, Ubon Ratchathani (M.7)

Lat 15 - 13 - 21 N Long 104 - 51 - 33 E

Location : on left bank at Seri Prachathipatai Bridge.

	<b>Ban</b>	Chumchondeengam	<b>Amphoe</b>	Warin Chamrap	<b>Changwat</b>	Ubon Ratchathani
<b>Drainage Area</b>	107,238	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+105.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of 200 years Krung Ratanakosin				<b>Elevation</b>	+121.152 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1944 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1956 - 1958, 1964 - 1981, 1983 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1956 - 1958, 1964 - 1981, 1983 to date					
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Pak Mun barrage situated about 90 kilometers downstream from the gage site. Stage-discharge relation defined by 88 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	107.25	107.23	107.16	107.20	107.75	107.25	112.37	112.49	111.44	108.05	108.08	108.10	
2	107.27	107.27	107.18	107.15	107.75	107.37	112.43	112.53	111.30	108.09	108.06	108.06	
3	107.37	107.31	107.19	107.06	107.75	107.46	112.47	112.59	111.09	108.06	108.07	107.95	
4	107.23	107.36	107.20	107.00	107.73	107.55	112.49	112.64	110.84	108.03	108.06	107.92	
5	107.16	107.43	107.21	107.05	107.69	107.70	112.49	112.68	110.68	108.01	108.05	107.96	
6	107.18	107.44	107.21	107.11	107.61	107.85	112.46	112.71	110.57	108.04	108.08	107.90	
7	107.19	107.43	107.25	107.18	107.52	108.01	112.42	112.72	110.48	108.05	108.06	107.88	
8	107.20	107.39	107.25	107.17	107.43	108.16	112.35	112.74	110.31	108.02	108.04	107.84	
9	107.19	107.37	107.25	107.16	107.35	108.42	112.28	112.73	110.00	108.02	108.03	107.81	
10	107.20	107.33	107.22	107.14	107.29	108.83	112.20	112.72	109.62	108.02	108.07	107.78	
11	107.20	107.33	107.25	107.14	107.18	109.15	112.10	112.69	109.20	108.08	108.07	107.80	
12	107.19	107.42	107.34	107.27	107.16	109.22	111.99	112.68	108.70	108.13	108.07	107.80	
13	107.18	107.46	107.45	107.32	107.19	109.21	111.87	112.66	108.17	108.06	108.05	107.74	
14	107.17	107.43	107.50	107.24	107.39	109.20	111.72	112.63	108.13	107.99	108.06	107.67	
15	107.20	107.41	107.62	107.26	107.78	109.27	111.61	112.61	108.21	107.97	108.06	107.62	
16	107.17	107.38	107.69	107.28	107.79	109.31	111.64	112.58	108.18	107.96	108.06	107.61	
17	107.16	107.34	107.71	107.29	107.59	109.26	111.75	112.54	108.18	107.98	108.05	107.61	
18	107.15	107.38	107.66	107.30	107.39	109.27	111.85	112.49	108.11	107.99	108.04	107.56	
19	107.15	107.38	107.63	107.36	107.26	109.26	111.91	112.44	108.11	108.07	108.05	107.55	
20	107.21	107.44	107.59	107.46	107.21	109.41	111.97	112.39	108.13	108.05	108.05	107.52	
21	107.22	107.49	107.48	107.49	107.33	109.62	112.00	112.34	108.14	108.05	108.05	107.51	
22	107.25	107.53	107.41	107.45	107.41	109.84	112.06	112.28	108.09	108.03	108.05	107.46	
23	107.32	107.54	107.49	107.38	107.46	110.14	112.11	112.20	108.10	108.03	108.08	107.45	
24	107.33	107.53	107.49	107.44	107.51	110.45	112.16	112.12	108.09	108.03	108.09	107.42	
25	107.30	107.49	107.42	107.69	107.51	111.06	112.22	112.04	108.06	108.04	108.09	107.38	
26	107.27	107.44	107.35	108.00	107.45	111.55	112.28	111.96	108.05	108.02	108.09	107.37	
27	107.26	107.29	107.25	107.98	107.36	111.85	112.32	111.87	108.06	108.03	108.10	107.36	
28	107.26	107.14	107.22	107.86	107.27	112.04	112.36	111.77	108.07	108.07	108.10	107.34	
29	107.24	107.04	107.23	107.86	107.22	112.17	112.39	111.67	108.06	108.05		107.36	
30	107.24	106.98	107.20	107.85	107.21	112.28	112.43	111.56	108.05	108.06		107.32	
31		107.04		107.79	107.20		112.46		108.02	108.06		107.30	
Mean	107.22	107.36	107.37	107.38	107.44	109.41	112.17	112.40	108.98	108.04	108.06	107.64	
Max	107.37	107.54	107.71	108.00	107.79	112.28	112.49	112.74	111.44	108.13	108.10	108.10	112.74
Min	107.15	106.98	107.16	107.00	107.16	107.25	111.61	111.56	108.02	107.96	108.03	107.30	106.98
Annual Max Momentary Gage Height	112.74		m. (MSL.) ,				at 12.00 Hours ,						on Nov 8, 2021
Zero Gage at Bottom Elevation	105.00		m. (MSL.) ,			River Bed	100.40		m. (MSL.)				
Left Bank Elevation	120.96		m. (MSL.) ,										
Right Bank Elevation	117.61		m. (MSL.) ,			Drainage Are	107,238		Square Kilometers				



## WATER YEAR : 2021

## MUN RIVER BASIN

## Huai Samran at Ban Saphan Khao Community, Si Sa ket (M.9)

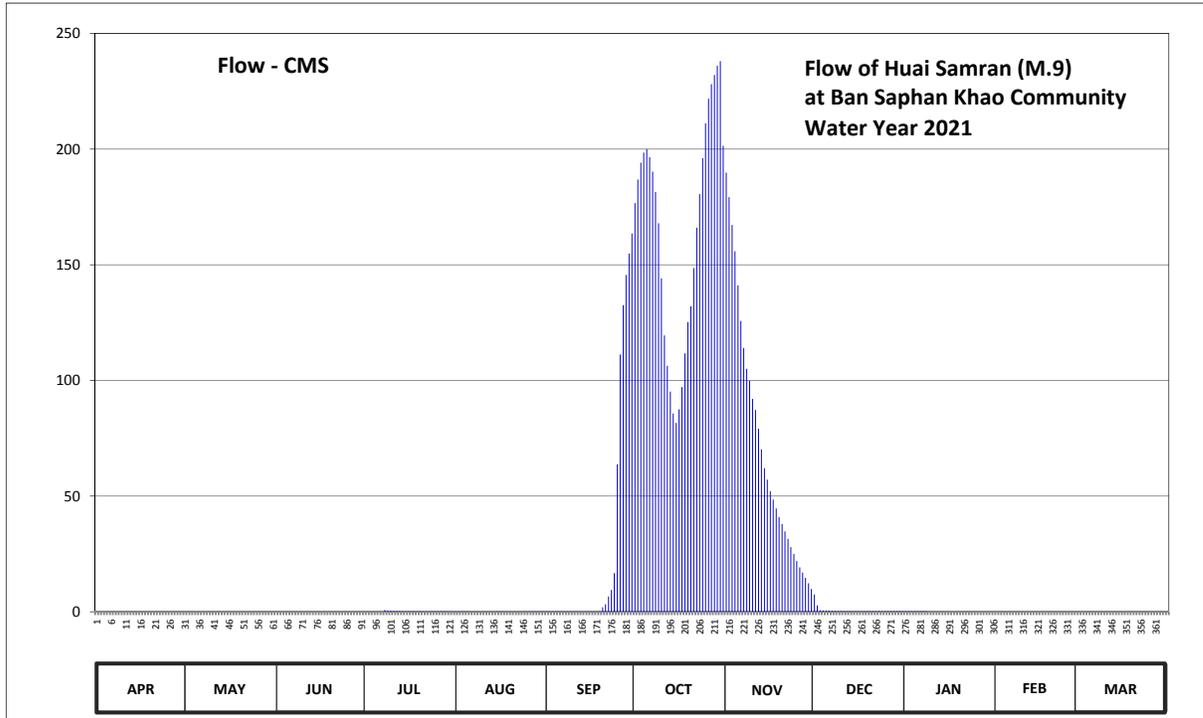
Lat 15 - 07 - 05 N Long 104 - 19 - 07 E

Location : on right bank at the bridge on Highway.

	<b>Ban</b>	Saphan Khao Community	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Si Sa Ket
<b>Drainage Area</b>	3,042	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+109.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank at the top staff gage.				<b>Elevation</b>	+124.692 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1954, 1972 - 1981, 1987 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1954, 1972 - 1981, 1987 to date					
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. The Water Supply weir situated above gage site. Stage-discharge relation defined by 37 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

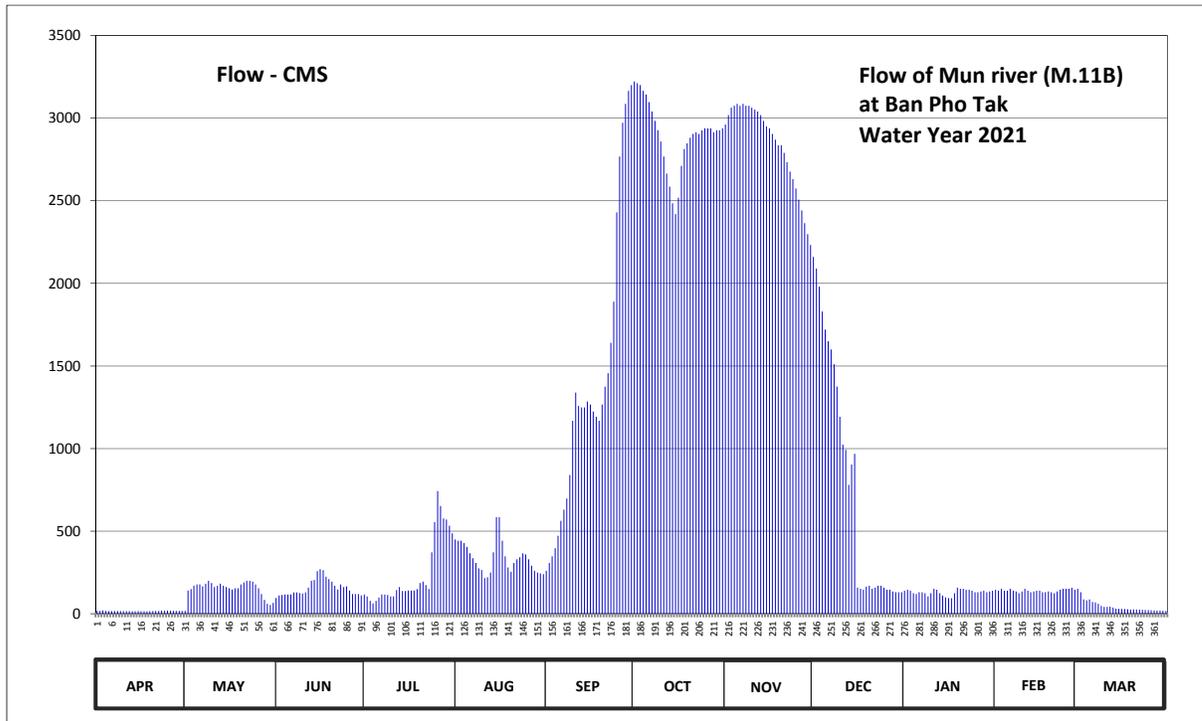
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.18	114.55	114.58	114.53	112.31	112.19	117.84	119.02	115.33	112.97	113.11	112.81	
2	114.18	114.54	114.57	114.52	112.30	112.17	118.05	118.98	114.90	112.96	113.09	112.78	
3	114.18	114.55	114.57	114.52	112.28	112.20	118.20	118.93	114.22	112.96	113.08	112.76	
4	114.20	114.54	114.56	114.51	112.20	112.17	118.29	118.88	114.11	112.95	113.07	112.75	
5	114.21	114.53	114.55	114.51	112.03	112.11	118.32	118.81	114.14	112.94	113.05	112.72	
6	114.22	114.57	114.55	114.52	111.93	112.06	118.25	118.73	114.11	112.94	113.05	112.69	
7	114.22	114.56	114.59	114.53	111.89	112.11	118.12	118.66	113.97	112.93	113.04	112.69	
8	114.21	114.54	114.59	114.47	111.85	112.11	117.94	118.60	113.60	112.93	113.02	112.68	
9	114.18	114.53	114.59	114.15	111.82	112.13	117.66	118.56	113.30	112.95	113.01	112.67	
10	114.18	114.53	114.60	113.80	111.81	112.27	117.17	118.50	113.19	112.98	112.99	112.66	
11	114.15	114.53	114.60	113.50	111.82	112.20	116.66	118.46	113.14	113.01	112.97	112.65	
12	114.13	114.52	114.63	113.32	111.85	112.11	116.39	118.39	113.12	113.03	112.98	112.63	
13	114.13	114.52	114.68	113.29	111.86	112.09	116.16	118.29	113.11	113.05	112.99	112.61	
14	114.15	114.52	114.67	113.01	111.94	112.16	115.96	118.18	113.10	113.06	112.99	112.58	
15	114.23	114.58	114.68	112.79	112.12	112.13	115.87	118.08	113.10	113.08	112.96	112.56	
16	114.23	114.60	114.66	112.59	112.07	112.16	116.00	117.96	113.10	113.09	112.93	112.54	
17	114.24	114.58	114.64	112.49	111.95	112.23	116.20	117.85	113.10	113.08	112.93	112.56	
18	114.27	114.61	114.63	112.44	111.92	112.34	116.50	117.72	113.08	113.09	112.91	112.56	
19	114.35	114.60	114.61	112.42	111.89	112.64	116.78	117.57	113.07	113.10	112.91	112.64	
20	114.44	114.58	114.60	112.44	111.87	113.25	116.92	117.42	113.06	113.11	112.91	112.64	
21	114.45	114.56	114.59	112.41	111.85	113.41	117.26	117.26	113.05	113.10	112.89	112.64	
22	114.46	114.55	114.56	112.41	111.83	113.65	117.62	117.10	113.04	113.10	112.90	112.66	
23	114.47	114.55	114.54	112.38	111.86	113.82	117.92	116.92	113.03	113.11	112.87	112.67	
24	114.47	114.55	114.54	112.45	111.95	114.14	118.24	116.73	113.03	113.09	112.84	112.70	
25	114.47	114.65	114.54	112.63	111.99	115.47	118.55	116.53	113.03	113.10	112.84	112.71	
26	114.49	114.63	114.54	112.65	112.03	116.49	118.77	116.34	113.02	113.11	112.85	112.69	
27	114.53	114.62	114.54	112.54	112.08	116.93	118.90	116.16	113.01	113.09	112.85	112.69	
28	114.52	114.61	114.54	112.47	112.15	117.20	118.98	115.97	112.99	113.07	112.83	112.76	
29	114.55	114.60	114.54	112.42	112.20	117.39	119.06	115.77	112.98	113.08		112.79	
30	114.57	114.59	114.54	112.38	112.26	117.57	119.10	115.55	112.98	113.09		112.80	
31		114.58		112.33	112.25		119.06		112.97	113.11		112.81	
Mean	114.31	114.57	114.59	113.21	112.01	113.36	117.64	117.73	113.39	113.04	112.96	112.68	
Max	114.57	114.65	114.68	114.53	112.31	117.57	119.10	119.02	115.33	113.11	113.11	112.81	119.10
Min	114.13	114.52	114.54	112.33	111.81	112.06	115.87	115.55	112.97	112.93	112.83	112.54	111.81
Annual Max Momentary Gage Height	119.11												at 12.00 Hours , on Oct 30, 2021
Zero Gage at Bottom Elevation	109.00						109.22						m. (MSL.)
Left Bank Elevation		122.86											m. (MSL.)
Right Bank Elevation		125.00											m. (MSL.)
Drainage Area						3,042							Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.15	0.13	176.64	189.80	7.43	0.25	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.15	0.13	186.83	179.20	2.70	0.24	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.14	0.13	194.10	167.20	0.60	0.24	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.13	0.13	198.47	155.80	0.55	0.24	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.11	0.12	199.92	141.10	0.57	0.24	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.09	0.11	196.53	125.70	0.55	0.24	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.09	0.12	190.22	114.00	0.50	0.24	0.00	0.00	
8	0.00	0.00	0.00	0.77	0.09	0.12	181.49	105.00	0.39	0.24	0.00	0.00	
9	0.00	0.00	0.00	0.57	0.08	0.12	167.91	99.80	0.31	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.45	0.08	0.14	144.15	92.00	0.29	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.36	0.08	0.13	119.41	87.20	0.28	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.31	0.09	0.12	106.32	79.10	0.27	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.31	0.09	0.11	95.16	70.20	0.27	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.25	0.09	0.12	85.70	62.00	0.27	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.22	0.12	0.12	81.65	57.10	0.27	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.19	0.11	0.12	87.50	52.10	0.27	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.17	0.10	0.14	97.10	48.50	0.27	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.17	0.09	0.15	111.65	44.60	0.27	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.16	0.09	0.20	125.23	40.90	0.26	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.17	0.09	1.90	132.02	37.90	0.26	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.16	0.09	3.24	148.51	34.70	0.26	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.16	0.08	6.60	165.97	31.50	0.26	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.16	0.09	9.40	180.52	27.90	0.26	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.17	0.10	16.70	196.04	24.95	0.26	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.20	0.10	63.65	211.08	21.95	0.26	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.20	0.11	111.17	221.75	19.16	0.25	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.18	0.11	132.51	228.05	16.92	0.25	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.17	0.12	145.60	232.01	14.64	0.25	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.16	0.13	154.82	236.00	12.27	0.25	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.16	0.14	163.55	238.00	9.85	0.25	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.15	0.14		201.40		0.25	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	5.97	3.27	811.60	5137.33	2163.04	19.38	1.93	0.00	0.00	8142.52 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.19	0.11	27.05	165.72	72.10	0.63	0.06	0.00	0.00	22.31 CMS
<b>Max</b>	0.00	0.00	0.00	0.77	0.15	163.55	238.00	189.80	7.43	0.25	0.00	0.00	238.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.08	0.11	81.65	9.85	0.25	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.52	0.28	70.12	443.87	186.89	1.67	0.17	0.00	0.00	703.51 MCM
<b>Momentary Peak</b>	238.50	CMS. at 119.11 m. (MSL.) at 12.00 Hours , on Oct 30, 2021											
<b>Runoff Yield</b>	7.33	Liters/Second/Square KM. Momentary Peak Yield 78.40 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.00	17.40	96.00	117.00	450.00	260.00	3222.50	2960.88	2160.00	140.00	146.00	152.00		
2	18.00	141.00	111.00	105.00	442.50	308.00	3211.12	3017.75	2090.00	146.00	140.00	130.00		
3	20.40	150.00	114.00	78.00	442.50	348.00	3199.75	3063.25	1980.00	140.00	152.00	87.00		
4	17.70	170.00	117.00	63.00	427.50	397.50	3165.62	3074.63	1830.00	125.00	140.00	81.00		
5	15.60	178.00	117.00	78.00	405.00	472.50	3142.87	3086.00	1720.00	120.00	140.00	87.00		
6	15.90	178.00	117.00	99.00	366.00	562.50	3097.38	3074.63	1650.00	130.00	152.00	72.00		
7	16.50	166.00	129.00	117.00	336.00	630.00	3040.50	3086.00	1600.00	130.00	140.00	69.00		
8	16.50	182.00	129.00	117.00	308.00	697.50	2983.63	3074.63	1510.00	125.00	135.00	60.00		
9	16.50	200.00	126.00	114.00	275.00	840.00	2926.75	3074.63	1375.00	105.00	125.00	48.00		
10	16.50	186.00	123.00	105.00	265.00	1168.00	2858.50	3063.25	1192.00	125.00	135.00	42.00		
11	16.50	162.00	129.00	105.00	216.00	1339.00	2767.50	3051.88	1024.00	152.00	152.00	42.00		
12	16.50	170.00	158.00	144.00	220.50	1258.00	2665.13	3040.50	992.00	146.00	140.00	44.00		
13	16.20	182.00	200.00	162.00	250.00	1249.00	2585.50	3017.75	780.00	125.00	130.00	38.40		
14	15.90	170.00	205.00	138.00	372.00	1249.00	2485.00	2983.63	904.00	110.00	135.00	31.30		
15	16.50	162.00	258.00	138.00	585.00	1285.00	2419.00	2949.50	968.00	100.00	140.00	29.90		
16	15.60	154.00	270.00	141.00	585.00	1267.00	2518.00	2938.13	158.00	95.00	140.00	29.20		
17	15.60	147.00	264.00	141.00	442.50	1224.00	2710.63	2904.00	152.00	95.00	130.00	28.85		
18	15.30	154.00	225.00	141.00	348.00	1192.00	2813.00	2869.88	146.00	125.00	130.00	27.30		
19	15.60	154.00	210.00	150.00	280.50	1168.00	2847.13	2835.75	164.00	158.00	135.00	25.80		
20	17.10	178.00	195.00	186.00	255.00	1267.00	2881.25	2835.75	170.00	152.00	130.00	26.70		
21	17.70	190.00	170.00	195.00	308.00	1375.00	2904.00	2790.25	152.00	152.00	125.00	26.40		
22	18.00	200.00	147.00	174.00	330.00	1456.00	2915.38	2733.38	158.00	146.00	135.00	25.20		
23	19.50	200.00	178.00	150.00	342.00	1640.00	2904.00	2676.50	170.00	146.00	146.00	24.60		
24	20.10	195.00	162.00	372.00	366.00	1890.00	2926.75	2631.00	170.00	140.00	152.00	23.10		
25	19.50	178.00	166.00	555.00	360.00	2430.00	2938.13	2574.13	158.00	130.00	152.00	22.20		
26	18.30	154.00	141.00	742.50	330.00	2767.50	2938.13	2507.00	146.00	130.00	152.00	21.30		
27	18.00	120.00	120.00	652.50	291.50	2972.25	2938.13	2441.00	146.00	135.00	158.00	20.70		
28	18.00	84.00	120.00	577.50	260.00	3086.00	2915.38	2364.00	135.00	140.00	146.00	20.10		
29	17.70	60.00	120.00	570.00	250.00	3165.62	2926.75	2298.00	130.00	130.00		19.80		
30	17.70	53.20	111.00	532.50	245.00	3199.75	2926.75	2232.00	130.00	135.00		18.60		
31		66.00		487.50	240.00		2938.13		130.00	140.00		18.00		
<b>Total</b>	<b>516.90</b>	<b>4701.60</b>	<b>4728.00</b>	<b>7447.50</b>	<b>10594.50</b>	<b>42164.12</b>	<b>89712.29</b>	<b>85249.68</b>	<b>24190.00</b>	<b>4068.00</b>	<b>3933.00</b>	<b>1391.45</b>	<b>278697.04</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>17.23</b>	<b>151.66</b>	<b>157.60</b>	<b>240.24</b>	<b>341.76</b>	<b>1405.47</b>	<b>2893.94</b>	<b>2841.66</b>	<b>780.32</b>	<b>131.23</b>	<b>140.46</b>	<b>44.89</b>	<b>763.55</b>	<b>CMS</b>
<b>Max</b>	<b>20.40</b>	<b>200.00</b>	<b>270.00</b>	<b>742.50</b>	<b>585.00</b>	<b>3199.75</b>	<b>3222.50</b>	<b>3086.00</b>	<b>2160.00</b>	<b>158.00</b>	<b>158.00</b>	<b>152.00</b>	<b>3222.50</b>	<b>CMS</b>
<b>Min</b>	<b>15.30</b>	<b>17.40</b>	<b>96.00</b>	<b>63.00</b>	<b>216.00</b>	<b>260.00</b>	<b>2419.00</b>	<b>2232.00</b>	<b>130.00</b>	<b>95.00</b>	<b>125.00</b>	<b>18.00</b>	<b>15.30</b>	<b>CMS</b>
<b>Runoff</b>	<b>44.66</b>	<b>406.22</b>	<b>408.50</b>	<b>643.46</b>	<b>915.36</b>	<b>3642.98</b>	<b>7751.14</b>	<b>7365.57</b>	<b>2090.02</b>	<b>351.48</b>	<b>339.81</b>	<b>120.22</b>	<b>24079.42</b>	<b>MCM</b>
<b>Momentary Peak</b>	3222.50 CMS. at 110.20 m. (MSL) at 08.00 Hours , on Oct 1, 2021													
<b>Runoff Yield</b>	6.56 Liters/Second/Square KM.			Momentary Peak Yield				27.70 Liters/Second/Square KM.						

## WATER YEAR : 2021

## MUN RIVER BASIN

Lam Se Bai at Ban Chiang Pheng, Yasothon (M.32)

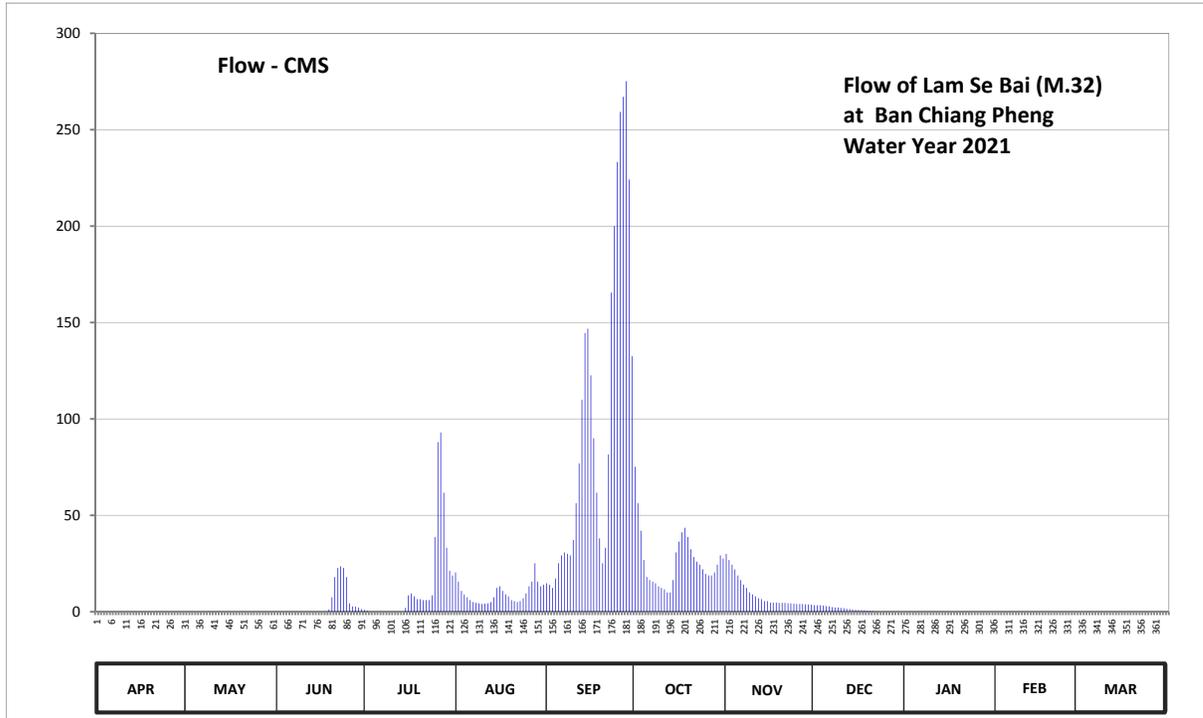
Lat 15 - 50 - 24 N Long 104 - 27 - 21 E

Location : on right bank at Phawaphutanon bridge.

	<b>Ban</b>	<b>Chiang Pheng</b>	<b>Amphoe Pa Tiu</b>	<b>Changwat</b>	<b>Yasothon</b>
<b>Drainage Area</b>	1,648	sq.km.			
<b>Type of Gage</b>	Water - stage recorder.				
<b>Zero Gage at Bottom</b>	+120.300 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank at the automatic gage building.			<b>Elevation</b>	+130.837 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings				
<b>Period of Available Gage Records</b>	1968 - 1974, 1997 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1968 - 1974, 1997 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	1968 - 1974, 1997 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. The concrete weir situated about 3 kilometers downstream from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	120.09	120.72	119.92	124.09	124.53	124.46	125.18	124.65	124.22	123.83	122.98	121.83	
2	120.12	120.71	119.94	124.05	124.47	124.45	124.97	124.61	124.22	123.81	122.92	121.77	
3	120.08	120.71	119.93	124.00	124.41	124.43	124.80	124.58	124.22	123.79	122.87	121.70	
4	120.02	120.71	119.93	123.96	124.38	124.49	124.61	124.55	124.21	123.77	122.81	121.64	
5	120.00	120.70	119.92	123.93	124.35	124.59	124.50	124.51	124.20	123.74	122.75	121.57	
6	119.98	120.70	119.92	123.90	124.32	124.64	124.48	124.48	124.19	123.71	122.68	121.50	
7	120.05	120.70	119.94	123.86	124.30	124.66	124.47	124.45	124.17	123.68	122.63	121.42	
8	120.77	120.69	119.95	123.78	124.28	124.65	124.46	124.43	124.16	123.64	122.58	121.34	
9	121.04	120.69	119.94	123.72	124.27	124.64	124.44	124.40	124.16	123.61	122.53	121.30	
10	120.93	120.69	119.94	123.75	124.25	124.74	124.43	124.38	124.15	123.58	122.47	121.27	
11	120.91	120.68	119.97	123.70	124.26	124.97	124.42	124.36	124.14	123.53	122.43	121.22	
12	120.90	120.63	119.98	123.69	124.27	125.20	124.40	124.34	124.13	123.49	122.39	121.17	
13	120.86	120.59	119.98	123.73	124.30	125.54	124.40	124.33	124.12	123.48	122.34	121.12	
14	120.82	120.54	119.98	123.81	124.35	125.86	124.48	124.31	124.11	123.50	122.29	121.07	
15	120.79	120.49	119.99	124.15	124.43	125.88	124.66	124.31	124.10	123.50	122.24	121.02	
16	120.78	120.46	121.99	124.37	124.44	125.66	124.73	124.29	124.09	123.49	122.19	120.97	
17	120.80	120.42	122.90	124.39	124.41	125.34	124.79	124.29	124.08	123.47	122.15	120.91	
18	120.81	120.37	123.75	124.36	124.38	125.03	124.82	124.29	124.07	123.40	122.10	120.92	
19	120.82	120.32	124.11	124.33	124.36	124.75	124.76	124.28	124.06	123.36	122.08	120.96	
20	120.80	120.28	124.35	124.33	124.32	124.59	124.68	124.28	124.04	123.43	122.05	120.97	
21	120.75	120.23	124.50	124.32	124.31	124.69	124.63	124.28	124.03	123.25	122.03	120.96	
22	120.75	120.20	124.56	124.32	124.30	125.25	124.60	124.27	124.01	123.21	122.00	120.96	
23	120.75	120.16	124.57	124.32	124.31	126.05	124.58	124.27	123.98	123.15	121.97	120.95	
24	120.74	120.12	124.56	124.37	124.34	126.35	124.55	124.26	123.96	123.08	121.96	120.94	
25	120.74	120.07	124.50	124.76	124.39	126.61	124.52	124.25	123.93	123.03	121.93	120.97	
26	120.73	120.03	124.27	125.32	124.44	126.81	124.51	124.25	123.92	123.00	121.92	120.98	
27	120.73	120.02	124.19	125.37	124.47	126.87	124.51	124.25	123.90	123.01	121.90	120.99	
28	120.73	120.00	124.18	125.03	124.59	126.93	124.53	124.24	123.88	123.02	121.88	120.97	
29	120.72	119.97	124.16	124.69	124.47	126.54	124.58	124.24	123.87	123.03		120.97	
30	120.72	119.95	124.12	124.54	124.44	125.75	124.64	124.23	123.86	123.01		120.98	
31		119.92		124.51	124.45		124.62		123.85	123.01		120.98	
Mean	120.62	120.40	122.00	124.24	124.37	125.35	124.60	124.36	124.07	123.41	122.32	121.17	
Max	121.04	120.72	124.57	125.37	124.59	126.93	125.18	124.65	124.22	123.83	122.98	121.83	126.93
Min	119.98	119.92	119.92	123.69	124.25	124.43	124.40	124.23	123.85	123.00	121.88	120.91	119.92
Annual Max Momentary Gage Height	126.95		m. (MSL.) ,				at 16.00 Hours ,						on Sep 28, 2021
Zero Gage at Bottom Elevation	120.30		m. (MSL.) ,			River Bed	118.15		m. (MSL)				
Left Bank Elevation		130.60		m. (MSL.) ,									
Right Bank Elevation		130.57		m. (MSL.) ,		Drainage Are	1,648		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.90	20.40	14.80	75.20	30.00	3.40	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.50	15.60	14.00	56.30	26.80	3.40	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	10.80	12.40	42.00	24.40	3.40	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	9.00	17.20	26.80	22.00	3.20	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	7.50	25.20	18.00	18.80	3.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	6.00	29.20	16.40	16.40	2.80	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	5.00	30.80	15.60	14.00	2.40	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	4.60	30.00	14.80	12.40	2.20	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	4.40	29.20	13.20	10.00	2.20	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	4.00	37.20	12.40	9.00	2.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	4.20	56.30	11.60	8.00	1.80	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	4.40	77.00	10.00	7.00	1.60	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	5.00	110.00	10.00	6.50	1.40	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	7.50	144.60	16.40	5.50	1.20	0.00	0.00	0.00	
15	0.00	0.00	0.00	2.00	12.40	146.80	30.80	5.50	1.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	8.50	13.20	122.60	36.40	4.80	0.90	0.00	0.00	0.00	
17	0.00	0.00	0.00	9.50	10.80	90.00	41.20	4.80	0.80	0.00	0.00	0.00	
18	0.00	0.00	0.00	8.00	9.00	61.70	43.60	4.80	0.70	0.00	0.00	0.00	
19	0.00	0.00	1.20	6.50	8.00	38.00	38.80	4.60	0.60	0.00	0.00	0.00	
20	0.00	0.00	7.50	6.50	6.00	25.20	32.40	4.60	0.40	0.00	0.00	0.00	
21	0.00	0.00	18.00	6.00	5.50	33.20	28.40	4.60	0.30	0.00	0.00	0.00	
22	0.00	0.00	22.80	6.00	5.00	81.50	26.00	4.40	0.10	0.00	0.00	0.00	
23	0.00	0.00	23.60	6.00	5.50	165.50	24.40	4.40	0.00	0.00	0.00	0.00	
24	0.00	0.00	22.80	8.50	7.00	200.00	22.00	4.20	0.00	0.00	0.00	0.00	
25	0.00	0.00	18.00	38.80	9.50	233.30	19.60	4.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	4.40	88.00	13.20	259.30	18.80	4.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	2.80	93.00	15.60	267.10	18.80	4.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.60	61.70	25.20	275.20	20.40	3.80	0.00	0.00	0.00	0.00	
29	0.00	0.00	2.20	33.20	15.60	224.20	24.40	3.80	0.00	0.00	0.00	0.00	
30	0.00	0.00	1.40	21.20	13.20	132.50	29.20	3.60	0.00	0.00	0.00	0.00	
31	0.00	0.00	18.80	14.00		27.60		0.00	0.00				
<b>Total</b>	0.00	0.00	127.30	423.60	297.10	2984.00	821.50	280.70	38.80	0.00	0.00	0.00	4973.00 CMSDAY
<b>Mean</b>	0.00	0.00	4.24	13.66	9.58	99.47	26.50	9.36	1.25	0.00	0.00	0.00	13.62 CMS
<b>Max</b>	0.00	0.00	23.60	93.00	25.20	275.20	75.20	30.00	3.40	0.00	0.00	0.00	275.20 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	4.00	12.40	10.00	3.60	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	11.00	36.60	25.67	257.82	70.98	24.25	3.35	0.00	0.00	0.00	429.67 MCM
<b>Momentary Peak</b>	278.00 CMS. at 126.95 m. (MSL.) at 16.00 Hours , on Sep 28, 2021												
<b>Runoff Yield</b>	8.27 Liters/Second/Square KM.			Momentary Peak Yield 168.69 Liters/Second/Square KM.									

**WATER YEAR : 2021****MUN RIVER BASIN****Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)**

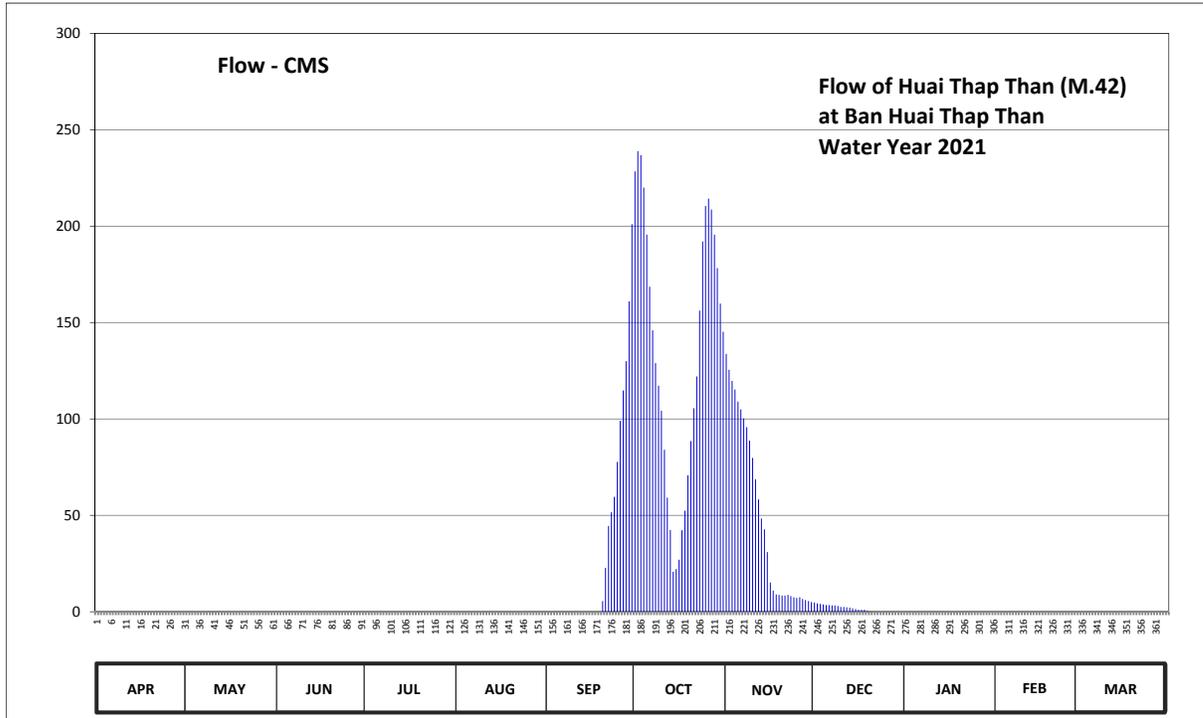
Lat 15 - 02 - 54 N Long 104 - 01 - 15 E

Location : on right bank at the bridge on highway.

	<b>Ban</b>	Huai Thap Than	<b>Amphoe</b>	Huai Thap Thun	<b>Changwat</b>	Si Sa Ket
<b>Drainage Area</b>	2,878	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+118.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank at the footpath of the bridge.				<b>Elevation</b>	+130.445 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1972 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1972 - 1981, 1987 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1972 - 1981, 1987 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow effected by the local weir about 800 meters downstream from the gage site. Stage-discharge relation defined by 31 discharge measurements made in 2021.					

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.49	122.47	122.41	122.42	122.37	122.71	128.54	127.83	123.25	122.85	122.85	122.75	
2	122.48	122.49	122.41	122.41	122.37	122.71	128.59	127.67	123.23	122.84	122.85	122.74	
3	122.47	122.48	122.40	122.40	122.36	122.70	128.58	127.51	123.22	122.83	122.86	122.73	
4	122.46	122.48	122.39	122.39	122.35	122.70	128.50	127.33	123.21	122.82	122.86	122.72	
5	122.46	122.47	122.38	122.39	122.35	122.69	128.37	127.08	123.20	122.81	122.86	122.72	
6	122.45	122.46	122.37	122.38	122.34	122.69	128.21	126.92	123.20	122.80	122.86	122.71	
7	122.44	122.46	122.43	122.38	122.33	122.68	128.00	126.73	123.19	122.78	122.86	122.70	
8	122.44	122.45	122.44	122.38	122.32	122.67	127.74	126.55	123.19	122.77	122.86	122.70	
9	122.44	122.44	122.44	122.39	122.31	122.68	127.41	126.27	123.17	122.76	122.86	122.69	
10	122.45	122.44	122.43	122.38	122.30	122.68	126.89	125.91	123.14	122.76	122.86	122.68	
11	122.44	122.43	122.44	122.37	122.30	122.67	126.08	125.47	123.14	122.76	122.86	122.68	
12	122.44	122.42	122.44	122.37	122.30	122.66	125.05	125.01	123.13	122.77	122.86	122.67	
13	122.43	122.41	122.44	122.36	122.30	122.65	124.04	124.49	123.12	122.77	122.86	122.66	
14	122.43	122.41	122.44	122.35	122.29	122.65	123.61	124.07	123.10	122.78	122.85	122.65	
15	122.43	122.41	122.46	122.35	122.29	122.65	123.63	123.73	123.08	122.78	122.85	122.64	
16	122.42	122.42	122.46	122.34	122.28	122.67	123.70	123.52	123.06	122.79	122.85	122.64	
17	122.42	122.41	122.49	122.34	122.27	122.67	124.03	123.44	123.06	122.79	122.85	122.64	
18	122.42	122.42	122.48	122.33	122.27	122.66	124.72	123.40	123.06	122.80	122.84	122.64	
19	122.42	122.41	122.48	122.32	122.27	122.92	125.55	123.39	123.03	122.80	122.81	122.66	
20	122.41	122.40	122.47	122.32	122.27	123.28	126.26	123.38	123.01	122.81	122.80	122.65	
21	122.41	122.40	122.46	122.31	122.26	123.64	126.94	123.38	122.99	122.82	122.80	122.64	
22	122.40	122.39	122.46	122.31	122.26	124.22	127.60	123.39	122.98	122.82	122.80	122.64	
23	122.40	122.38	122.45	122.30	122.26	124.68	128.11	123.37	122.97	122.82	122.78	122.64	
24	122.39	122.37	122.44	122.31	122.50	125.07	128.35	123.35	122.96	122.83	122.78	122.64	
25	122.38	122.38	122.43	122.37	122.73	125.83	128.45	123.34	122.95	122.83	122.77	122.63	
26	122.37	122.38	122.43	122.40	122.73	126.68	128.47	123.35	122.94	122.83	122.76	122.62	
27	122.36	122.43	122.42	122.40	122.73	127.31	128.44	123.32	122.92	122.84	122.76	122.60	
28	122.36	122.44	122.41	122.39	122.73	127.76	128.37	123.30	122.91	122.84	122.76	122.61	
29	122.38	122.43	122.40	122.39	122.72	128.15	128.27	123.28	122.90	122.84	122.84	122.61	
30	122.45	122.43	122.42	122.38	122.73	128.40	128.14	123.26	122.88	122.84	122.84	122.60	
31		122.42		122.38	122.72		127.99		122.87	122.84		122.60	
Mean	122.42	122.43	122.43	122.36	122.41	123.87	126.99	124.77	123.07	122.81	122.83	122.66	
Max	122.49	122.49	122.49	122.42	122.73	128.40	128.59	127.83	123.25	122.85	122.86	122.75	128.59
Min	122.36	122.37	122.37	122.30	122.26	122.65	123.61	123.26	122.87	122.76	122.76	122.60	122.26
Annual Max Momentary Gage Height	128.60		m. (MSL.) ,				at 13.00 Hours ,						on Oct 2, 2021
Zero Gage at Bottom Elevation	118.90		m. (MSL.) ,			River Bed	118.00		m. (MSL.)				
Left Bank Elevation		130.26		m. (MSL.) ,									
Right Bank Elevation		130.25		m. (MSL.) ,		Drainage Are	2,878		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	228.40	133.80	4.75	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	238.90	125.50	4.25	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	236.80	119.75	4.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	220.00	115.25	3.75	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	195.60	109.00	3.50	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	168.60	105.00	3.50	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	146.00	100.25	3.33	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	129.00	95.75	3.33	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	117.25	88.75	2.98	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	104.25	79.75	2.45	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	84.00	68.75	2.45	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	59.13	58.23	2.28	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	42.36	48.35	2.10	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	20.70	42.71	1.75	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	22.10	30.90	1.40	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	27.00	15.20	1.05	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	42.25	11.00	1.05	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	52.40	9.00	1.05	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	70.75	8.70	0.53	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	5.50	88.50	8.40	0.18	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	22.80	105.50	8.40	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	44.48	122.00	8.70	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	51.60	156.20	8.10	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	59.58	192.00	7.50	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	77.75	210.50	7.20	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	99.00	214.30	7.50	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	114.75	208.60	6.60	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	130.00	195.60	6.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	161.00	178.20	5.50	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	201.00	159.80	5.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00		145.20		0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	0.00	967.46	4181.89	1444.54	49.68	0.00	0.00	0.00	6643.57 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	32.25	134.90	48.15	1.60	0.00	0.00	0.00	18.20 CMS
Max	0.00	0.00	0.00	0.00	0.00	201.00	238.90	133.80	4.75	0.00	0.00	0.00	238.90 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	20.70	5.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	0.00	83.59	361.32	124.81	4.29	0.00	0.00	0.00	574.00 MCM
Momentary Peak	241.00	CMS. at 128.60 m. (MSL.) at 13.00 Hours , on Oct 2, 2021											
Runoff Yield	6.32	Liters/Second/Square KM. Momentary Peak Yield 83.74 Liters/Second/Square KM.											

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima (M.43A)

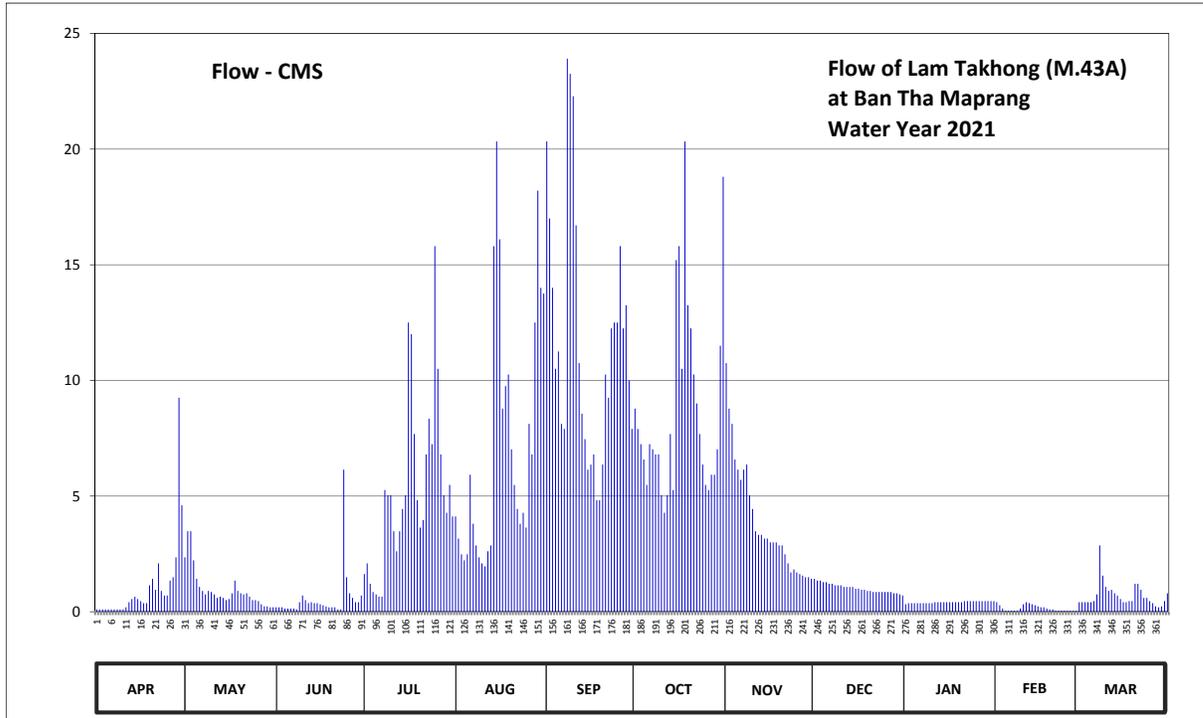
Lat 14 - 30 - 43 N Long 101 - 22 - 49 E

Location : on left bank about 2 kilometers downstream from M.43

	<b>Ban Tha Maprang</b>	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	153 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+371.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.	<b>Elevation</b>	+378.675 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1989 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The weir situated above gage site. Stage-discharge relation defined by 41 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	372.31	372.65	372.33	372.59	372.77	373.41	372.99	373.07	372.56	372.36	372.38	372.38	
2	372.31	372.73	372.33	372.63	372.71	373.30	372.95	372.99	372.55	372.37	372.35	372.38	
3	372.31	372.73	372.33	372.53	372.66	373.20	372.92	372.96	372.55	372.37	372.32	372.38	
4	372.31	372.64	372.32	372.47	372.64	373.06	372.89	372.89	372.54	372.37	372.30	372.38	
5	372.31	372.56	372.32	372.45	372.66	373.09	372.84	372.87	372.54	372.37	372.29	372.38	
6	372.31	372.51	372.32	372.43	372.86	372.96	372.92	372.85	372.53	372.37	372.29	372.39	
7	372.31	372.48	372.32	372.43	372.75	372.95	372.91	372.87	372.53	372.37	372.29	372.45	
8	372.31	372.45	372.31	372.83	372.69	373.52	372.90	372.88	372.52	372.37	372.30	372.69	
9	372.31	372.48	372.38	372.82	372.65	373.50	372.90	372.82	372.52	372.37	372.32	372.58	
10	372.31	372.47	372.44	372.82	372.63	373.47	372.82	372.79	372.52	372.37	372.36	372.51	
11	372.33	372.45	372.40	372.73	372.62	373.29	372.78	372.73	372.51	372.38	372.38	372.48	
12	372.38	372.42	372.37	372.67	372.67	373.07	372.82	372.72	372.51	372.38	372.37	372.49	
13	372.41	372.43	372.38	372.73	372.69	372.98	372.94	372.72	372.51	372.38	372.36	372.46	
14	372.43	372.42	372.37	372.79	373.26	372.93	372.83	372.71	372.51	372.38	372.35	372.44	
15	372.41	372.40	372.37	372.82	373.41	372.87	373.24	372.71	372.50	372.38	372.34	372.41	
16	372.39	372.41	372.36	373.14	373.27	372.88	373.26	372.70	372.50	372.38	372.33	372.38	
17	372.37	372.46	372.35	373.12	372.99	372.90	373.06	372.70	372.49	372.38	372.33	372.38	
18	372.37	372.55	372.34	372.94	373.03	372.81	373.41	372.70	372.49	372.38	372.32	372.39	
19	372.52	372.48	372.33	372.81	373.05	372.81	373.17	372.69	372.48	372.38	372.31	372.39	
20	372.56	372.46	372.33	372.74	372.91	372.88	373.13	372.69	372.48	372.38	372.31	372.53	
21	372.49	372.45	372.33	372.76	372.84	373.05	373.05	372.66	372.47	372.39	372.30	372.53	
22	372.63	372.46	372.31	372.90	372.79	373.01	373.00	372.63	372.47	372.39	372.30	372.49	
23	372.48	372.43	372.31	372.97	372.75	373.13	372.94	372.60	372.47	372.39	372.30	372.42	
24	372.44	372.40	372.87	372.92	372.78	373.14	372.88	372.61	372.47	372.39	372.30	372.42	
25	372.44	372.40	372.57	373.26	372.74	373.14	372.84	372.60	372.47	372.39	372.29	372.39	
26	372.55	372.39	372.46	373.06	372.96	373.26	372.83	372.59	372.47	372.39	372.28	372.37	
27	372.57	372.36	372.42	372.90	372.90	373.13	372.86	372.58	372.47	372.39	372.28	372.34	
28	372.65	372.34	372.38	372.82	373.14	373.17	372.86	372.57	372.46	372.39	372.28	372.33	
29	373.01	372.34	372.38	372.78	373.34	373.04	372.91	372.57	372.46	372.39		372.34	
30	372.80	372.33	372.44	372.84	373.20	372.95	373.10	372.56	372.45	372.39		372.39	
31		372.33		372.77	373.19		373.36		372.44	372.39		372.46	
Mean	372.44	372.46	372.38	372.79	372.89	373.10	372.98	372.73	372.50	372.38	372.32	372.43	
Max	373.01	372.73	372.87	373.26	373.41	373.52	373.41	373.07	372.56	372.39	372.38	372.69	373.52
Min	372.31	372.33	372.31	372.43	372.62	372.81	372.78	372.56	372.44	372.36	372.28	372.33	372.28
Annual Max Momentary Gage Height	374.35		m. (MSL.) ,				at 21.00 Hours ,						on Sep 9, 2021
Zero Gage at Bottom Elevation	371.70		m. (MSL.) ,			River Bed	371.90		m. (MSL.)				
Left Bank Elevation		378.42		m. (MSL.) ,									
Right Bank Elevation		378.32		m. (MSL.) ,		Drainage Are	153		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	2.35	0.19	1.63	4.12	20.33	8.78	10.75	1.42	0.32	0.41	0.41	
2	0.10	3.48	0.19	2.09	3.16	17.00	7.90	8.78	1.35	0.37	0.28	0.41	
3	0.10	3.48	0.19	1.21	2.48	14.00	7.24	8.12	1.35	0.37	0.14	0.41	
4	0.10	2.22	0.14	0.85	2.22	10.50	6.58	6.58	1.28	0.37	0.05	0.41	
5	0.10	1.42	0.14	0.75	2.48	11.25	5.48	6.14	1.28	0.37	0.05	0.41	
6	0.10	1.07	0.14	0.65	5.92	8.12	7.24	5.70	1.21	0.37	0.05	0.46	
7	0.10	0.90	0.14	0.65	3.80	7.90	7.02	6.14	1.21	0.37	0.05	0.75	
8	0.10	0.75	0.10	5.26	2.87	23.90	6.80	6.36	1.14	0.37	0.05	2.87	
9	0.10	0.90	0.41	5.04	2.35	23.25	6.80	5.04	1.14	0.37	0.14	1.56	
10	0.10	0.85	0.70	5.04	2.09	22.28	5.04	4.44	1.14	0.37	0.32	1.07	
11	0.19	0.75	0.50	3.48	1.96	16.70	4.28	3.48	1.07	0.41	0.41	0.90	
12	0.41	0.60	0.37	2.61	2.61	10.75	5.04	3.32	1.07	0.41	0.37	0.95	
13	0.55	0.65	0.41	3.48	2.87	8.56	7.68	3.32	1.07	0.41	0.32	0.80	
14	0.65	0.60	0.37	4.44	15.80	7.46	5.26	3.16	1.07	0.41	0.28	0.70	
15	0.55	0.50	0.37	5.04	20.33	6.14	15.20	3.16	1.00	0.41	0.23	0.55	
16	0.46	0.55	0.32	12.50	16.10	6.36	15.80	3.00	1.00	0.41	0.19	0.41	
17	0.37	0.80	0.28	12.00	8.78	6.80	10.50	3.00	0.95	0.41	0.19	0.41	
18	0.37	1.35	0.23	7.68	9.75	4.82	20.33	3.00	0.95	0.41	0.14	0.46	
19	1.14	0.90	0.19	4.82	10.25	4.82	13.25	2.87	0.90	0.41	0.10	0.46	
20	1.42	0.80	0.19	3.64	7.02	6.36	12.25	2.87	0.90	0.41	0.10	1.21	
21	0.95	0.75	0.19	3.96	5.48	10.25	10.25	2.48	0.85	0.46	0.05	1.21	
22	2.09	0.80	0.10	6.80	4.44	9.25	9.00	2.09	0.85	0.46	0.05	0.95	
23	0.90	0.65	0.10	8.34	3.80	12.25	7.68	1.70	0.85	0.46	0.05	0.60	
24	0.70	0.50	6.14	7.24	4.28	12.50	6.36	1.83	0.85	0.46	0.05	0.60	
25	0.70	0.50	1.49	15.80	3.64	12.50	5.48	1.70	0.85	0.46	0.05	0.46	
26	1.35	0.46	0.80	10.50	8.12	15.80	5.26	1.63	0.85	0.46	0.04	0.37	
27	1.49	0.32	0.60	6.80	6.80	12.25	5.92	1.56	0.85	0.46	0.04	0.23	
28	2.35	0.23	0.41	5.04	12.50	13.25	5.92	1.49	0.80	0.46	0.04	0.19	
29	9.25	0.23	0.41	4.28	18.20	10.00	7.02	1.49	0.80	0.46		0.23	
30	4.60	0.19	0.70	5.48	14.00	7.90	11.50	1.42	0.75	0.46		0.46	
31		0.19		4.12	13.75		18.80		0.70	0.46		0.80	
<b>Total</b>	31.49	29.74	16.51	161.22	221.97	353.25	271.66	116.62	31.50	12.81	4.24	21.71	1272.72 CMSDAY
<b>Mean</b>	1.05	0.96	0.55	5.20	7.16	11.78	8.76	3.89	1.02	0.41	0.15	0.70	3.49 CMS
<b>Max</b>	9.25	3.48	6.14	15.80	20.33	23.90	20.33	10.75	1.42	0.46	0.41	2.87	23.90 CMS
<b>Min</b>	0.10	0.19	0.10	0.65	1.96	4.82	4.28	1.42	0.70	0.32	0.04	0.19	0.04 CMS
<b>Runoff</b>	2.72	2.57	1.43	13.93	19.18	30.52	23.47	10.08	2.72	1.11	0.37	1.88	109.96 MCM
<b>Momentary Peak</b>	55.50	CMS. at 374.35 m. (MSL.) at 21.00 Hours , on Sep 9, 2021											
<b>Runoff Yield</b>	22.79	Liters/Second/Square KM. Momentary Peak Yield 362.75 Liters/Second/Square KM.											

## WATER YEAR : 2021

## MUN RIVER BASIN

Huai Khayung at Ban Wang Chom Pu, Si Sa Ket (M.66)

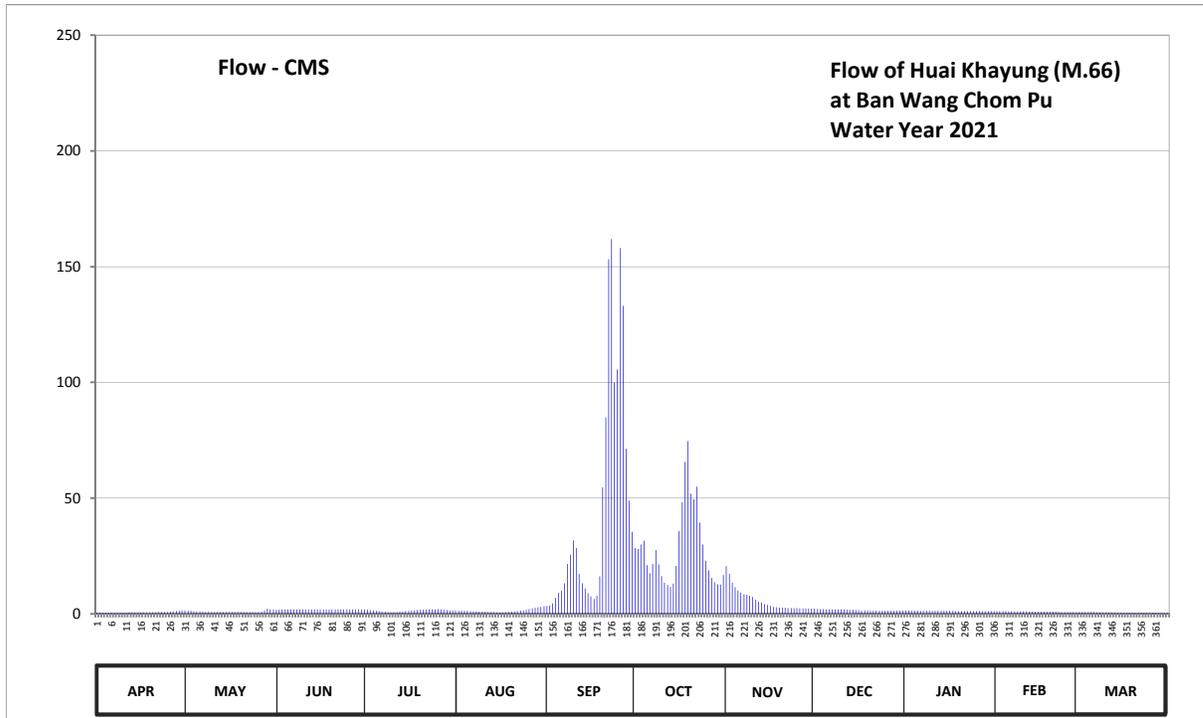
Lat 14 - 38 - 36 N Long 104 - 39 - 34 E

Location : on right bank about 50 meters upstream from the bridge of Kantharalak - Det Udom Road.

	Ban Wang Chom Pu	Amphoe Kantharalak	Changwat Si Sa Ket
<b>Drainage Area</b>	551 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+143.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	At the automatic gage building.		<b>Elevation</b> +153.718 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00,09.00, 12.00,15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1965 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1965 - 1968, 1972 - 1981, 1987 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1965 - 1968, 1972 - 1981, 1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.22	142.59	142.74	142.77	142.59	143.04	144.52	144.13	142.85	142.55	142.50	142.33	
2	142.22	142.56	142.74	142.71	142.57	143.06	144.50	143.97	142.83	142.55	142.49	142.33	
3	142.22	142.53	142.75	142.66	142.56	143.15	144.60	143.77	142.82	142.55	142.48	142.32	
4	142.23	142.50	142.75	142.60	142.55	143.33	144.68	143.64	142.81	142.55	142.48	142.32	
5	142.23	142.46	142.76	142.55	142.53	143.47	144.15	143.55	142.80	142.55	142.47	142.31	
6	142.23	142.43	142.76	142.49	142.50	143.54	143.98	143.48	142.80	142.54	142.46	142.31	
7	142.24	142.40	142.75	142.44	142.47	143.75	144.18	143.44	142.79	142.54	142.46	142.30	
8	142.24	142.36	142.76	142.38	142.45	144.18	144.48	143.42	142.78	142.54	142.45	142.30	
9	142.24	142.34	142.76	142.32	142.42	144.38	144.17	143.39	142.77	142.54	142.45	142.29	
10	142.25	142.32	142.76	142.28	142.40	144.69	143.92	143.35	142.76	142.54	142.44	142.28	
11	142.25	142.32	142.76	142.31	142.38	144.52	143.77	143.28	142.75	142.53	142.43	142.27	
12	142.26	142.32	142.76	142.36	142.36	143.97	143.70	143.22	142.73	142.53	142.42	142.26	
13	142.26	142.32	142.76	142.41	142.35	143.75	143.65	143.19	142.71	142.53	142.42	142.26	
14	142.26	142.32	142.76	142.46	142.32	143.60	143.74	143.13	142.70	142.53	142.41	142.25	
15	142.27	142.32	142.76	142.50	142.30	143.46	144.14	143.08	142.68	142.53	142.41	142.24	
16	142.27	142.32	142.76	142.55	142.28	143.37	144.87	143.05	142.66	142.53	142.40	142.24	
17	142.27	142.32	142.76	142.59	142.28	143.30	145.37	143.00	142.63	142.53	142.39	142.23	
18	142.28	142.32	142.76	142.63	142.31	143.39	146.07	142.98	142.61	142.52	142.39	142.23	
19	142.28	142.32	142.76	142.67	142.36	143.91	146.39	142.96	142.60	142.52	142.38	142.23	
20	142.29	142.32	142.76	142.70	142.41	145.63	145.52	142.94	142.58	142.52	142.38	142.23	
21	142.30	142.32	142.77	142.71	142.47	146.73	145.42	142.92	142.58	142.51	142.37	142.23	
22	142.31	142.32	142.78	142.73	142.52	148.32	145.64	142.91	142.57	142.51	142.36	142.22	
23	142.32	142.32	142.78	142.75	142.57	148.46	145.02	142.91	142.57	142.51	142.36	142.22	
24	142.33	142.32	142.78	142.78	142.63	147.17	144.60	142.90	142.57	142.51	142.35	142.22	
25	142.33	142.32	142.78	142.80	142.73	147.33	144.25	142.89	142.56	142.51	142.34	142.21	
26	142.37	142.32	142.78	142.81	142.81	148.40	144.04	142.88	142.56	142.51	142.34	142.21	
27	142.44	142.37	142.78	142.79	142.86	147.94	143.88	142.88	142.56	142.50	142.33	142.21	
28	142.50	142.60	142.78	142.74	142.93	146.28	143.78	142.87	142.55	142.50	142.33	142.20	
29	142.55	142.85	142.78	142.68	142.99	145.40	143.72	142.86	142.55	142.50		142.20	
30	142.60	142.79	142.78	142.62	143.01	144.86	143.71	142.86	142.55	142.50		142.20	
31		142.75		142.60	143.03		143.94		142.55	142.50		142.20	
Mean	142.30	142.42	142.76	142.59	142.55	144.88	144.46	143.19	142.67	142.53	142.41	142.25	
Max	142.60	142.85	142.78	142.81	143.03	148.46	146.39	144.13	142.85	142.55	142.50	142.33	148.46
Min	142.22	142.32	142.74	142.28	142.28	143.04	143.65	142.86	142.55	142.50	142.33	142.20	142.20
Annual Max Momentary Gage Height	149.29	m. (MSL.) ,		at 02.00 Hours , on Sep 23, 2021									
Zero Gage at Bottom Elevation	143.90	m. (MSL.) ,		River Bed 141.36 m. (MSL)									
Left Bank Elevation	153.47	m. (MSL.) ,											
Right Bank Elevation	153.48	m. (MSL.) ,		Drainage Are 551 Square Kilometers									



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	1.48	1.85	1.93	1.48	3.40	28.40	20.60	2.25	1.38	1.25	0.83	
2	0.55	1.40	1.85	1.78	1.43	3.60	28.00	17.40	2.15	1.38	1.23	0.83	
3	0.55	1.33	1.88	1.65	1.40	4.50	30.00	13.55	2.10	1.38	1.20	0.80	
4	0.58	1.25	1.88	1.50	1.38	6.95	31.60	11.60	2.05	1.38	1.20	0.80	
5	0.58	1.15	1.90	1.38	1.33	9.05	21.00	10.25	2.00	1.38	1.18	0.78	
6	0.58	1.08	1.90	1.23	1.25	10.10	17.60	9.20	2.00	1.35	1.15	0.78	
7	0.60	1.00	1.88	1.10	1.18	13.25	21.60	8.60	1.98	1.35	1.15	0.75	
8	0.60	0.90	1.90	0.95	1.13	21.60	27.60	8.30	1.95	1.35	1.13	0.75	
9	0.60	0.85	1.90	0.80	1.05	25.60	21.40	7.85	1.93	1.35	1.13	0.73	
10	0.63	0.80	1.90	0.70	1.00	31.80	16.40	7.25	1.90	1.35	1.10	0.70	
11	0.63	0.80	1.90	0.78	0.95	28.40	13.55	6.20	1.88	1.33	1.08	0.68	
12	0.65	0.80	1.90	0.90	0.90	17.40	12.50	5.30	1.83	1.33	1.05	0.65	
13	0.65	0.80	1.90	1.03	0.88	13.25	11.75	4.90	1.78	1.33	1.05	0.65	
14	0.65	0.80	1.90	1.15	0.80	11.00	13.10	4.30	1.75	1.33	1.03	0.63	
15	0.68	0.80	1.90	1.25	0.75	8.90	20.80	3.80	1.70	1.33	1.03	0.60	
16	0.68	0.80	1.90	1.38	0.70	7.55	35.75	3.50	1.65	1.33	1.00	0.60	
17	0.68	0.80	1.90	1.48	0.70	6.50	48.25	3.00	1.58	1.33	0.98	0.58	
18	0.70	0.80	1.90	1.58	0.78	7.85	65.75	2.90	1.53	1.30	0.98	0.58	
19	0.70	0.80	1.90	1.68	0.90	16.20	74.70	2.80	1.50	1.30	0.95	0.58	
20	0.73	0.80	1.90	1.75	1.03	54.75	52.00	2.70	1.45	1.30	0.95	0.58	
21	0.75	0.80	1.93	1.78	1.18	84.90	49.50	2.60	1.45	1.28	0.93	0.58	
22	0.78	0.80	1.95	1.83	1.30	153.20	55.00	2.55	1.43	1.28	0.90	0.55	
23	0.80	0.80	1.95	1.88	1.43	161.90	39.50	2.55	1.43	1.28	0.90	0.55	
24	0.83	0.80	1.95	1.95	1.58	99.95	30.00	2.50	1.43	1.28	0.88	0.55	
25	0.83	0.80	1.95	2.00	1.83	105.55	23.00	2.45	1.40	1.28	0.85	0.53	
26	0.93	0.80	1.95	2.05	2.05	158.00	18.80	2.40	1.40	1.28	0.85	0.53	
27	1.10	0.93	1.95	1.98	2.30	133.00	15.60	2.40	1.40	1.25	0.83	0.53	
28	1.25	1.50	1.95	1.85	2.65	71.40	13.70	2.35	1.38	1.25	0.83	0.50	
29	1.38	2.25	1.95	1.70	2.95	49.00	12.80	2.30	1.38	1.25		0.50	
30	1.50	1.98	1.95	1.55	3.10	35.50	12.65	2.30	1.38	1.25		0.50	
31		1.88		1.50	3.30		16.80		1.38	1.25		0.50	
<b>Total</b>	22.72	32.58	57.32	46.07	44.69	1354.05	879.10	178.40	52.42	40.79	28.79	19.70	2756.63 CMSDAY
<b>Mean</b>	0.76	1.05	1.91	1.49	1.44	45.14	28.36	5.95	1.69	1.32	1.03	0.64	7.55 CMS
<b>Max</b>	1.50	2.25	1.95	2.05	3.30	161.90	74.70	20.60	2.25	1.38	1.25	0.83	161.90 CMS
<b>Min</b>	0.55	0.80	1.85	0.70	0.70	3.40	11.75	2.30	1.38	1.25	0.83	0.50	0.50 CMS
<b>Runoff</b>	1.96	2.81	4.95	3.98	3.86	116.99	75.95	15.41	4.53	3.52	2.49	1.70	238.17 MCM
<b>Momentary Peak</b>	218.30	CMS.	at 149.29 m. (MSL.)	at 02.00 Hours									
<b>Runoff Yield</b>	13.71	Liters/Second/Square KM.					396.19	Liters/Second/Square KM.					

## WATER YEAR : 2021

## MUN RIVER BASIN

Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)

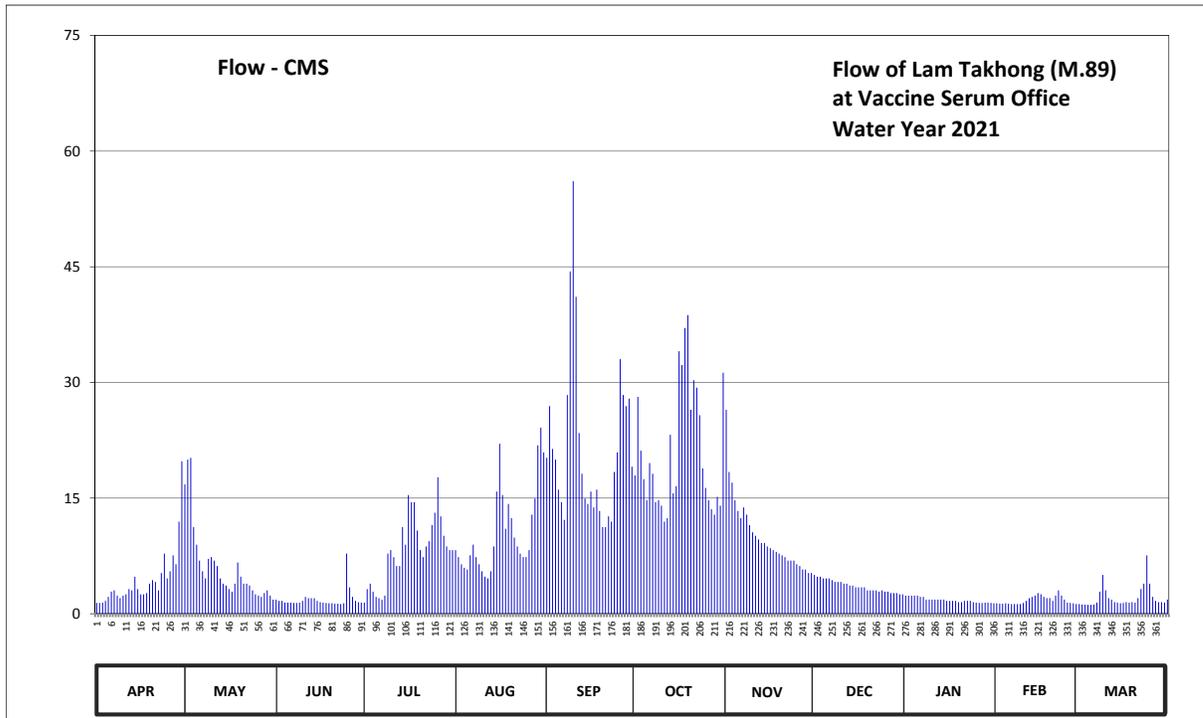
Lat 14 - 41 - 52 N Long 101 - 24 - 55 E

Location : on left bank at the bridge in front of Vaccine Serum Office.

	<b>Ban</b>	-	<b>Amphoe</b>	Pak Chong	<b>Changwat</b>	Nakhon Ratchasima
<b>Drainage Area</b>	680	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+290.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+299.985 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1970 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1971 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1971 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.78	293.49	292.82	292.79	293.12	293.64	293.54	293.91	292.98	292.85	292.77	292.75	
2	292.78	293.63	292.81	292.90	293.08	293.93	293.98	293.56	292.97	292.85	292.76	292.74	
3	292.79	293.64	292.81	292.93	293.04	293.69	293.68	293.50	292.97	292.85	292.76	292.74	
4	292.81	293.25	292.79	292.88	293.02	293.63	293.52	293.40	292.96	292.85	292.77	292.73	
5	292.84	293.15	292.79	292.84	293.01	293.46	293.40	293.34	292.96	292.85	292.76	292.73	
6	292.88	293.06	292.79	292.83	293.09	293.39	293.61	293.30	292.96	292.84	292.75	292.74	
7	292.89	293.00	292.78	292.82	293.15	293.29	293.55	293.36	292.95	292.84	292.75	292.79	
8	292.85	292.96	292.78	292.85	293.08	293.99	293.39	293.32	292.94	292.82	292.75	292.88	
9	292.83	293.07	292.79	293.10	293.04	294.58	293.40	293.26	292.94	292.82	292.75	292.98	
10	292.85	293.08	292.81	293.12	293.00	294.97	293.37	293.22	292.94	292.82	292.78	292.89	
11	292.86	293.06	292.84	293.08	292.97	294.47	293.28	293.20	292.93	292.82	292.81	292.83	
12	292.90	293.03	292.83	293.03	292.96	293.78	293.30	293.18	292.93	292.82	292.83	292.82	
13	292.89	292.96	292.83	293.03	293.00	293.55	293.77	293.16	292.92	292.82	292.84	292.80	
14	292.97	292.93	292.83	293.25	293.14	293.41	293.44	293.16	292.92	292.82	292.85	292.79	
15	292.90	292.92	292.81	293.15	293.45	293.38	293.48	293.14	292.91	292.81	292.87	292.77	
16	292.86	292.90	292.80	293.43	293.72	293.45	294.22	293.13	292.91	292.81	292.86	292.78	
17	292.86	292.88	292.79	293.39	293.43	293.36	294.15	293.12	292.91	292.81	292.84	292.80	
18	292.87	292.93	292.78	293.39	293.24	293.46	294.33	293.11	292.91	292.81	292.83	292.79	
19	292.93	293.05	292.77	293.23	293.38	293.34	294.39	293.10	292.89	292.80	292.83	292.80	
20	292.95	292.97	292.77	293.12	293.30	293.25	293.91	293.09	292.89	292.80	292.81	292.79	
21	292.94	292.93	292.76	293.08	293.19	293.25	294.07	293.08	292.89	292.81	292.85	292.83	
22	292.89	292.93	292.76	293.14	293.14	293.31	294.03	293.06	292.89	292.81	292.89	292.90	
23	292.99	292.92	292.75	293.17	293.10	293.28	293.88	293.06	292.88	292.81	292.85	292.93	
24	293.10	292.89	292.77	293.26	293.08	293.56	293.58	293.06	292.89	292.80	292.82	293.09	
25	292.96	292.86	293.10	293.33	293.08	293.67	293.47	293.04	292.88	292.79	292.79	292.93	
26	293.00	292.85	292.91	293.53	293.12	294.18	293.40	293.03	292.88	292.78	292.78	292.84	
27	293.09	292.84	292.84	293.31	293.32	293.99	293.35	293.01	292.87	292.78	292.77	292.81	
28	293.04	292.87	292.81	293.20	293.41	293.93	293.32	293.01	292.87	292.79	292.75	292.80	
29	293.28	292.89	292.80	293.14	293.71	293.97	293.42	292.99	292.87	292.79		292.80	
30	293.62	292.85	292.79	293.12	293.81	293.59	293.37	292.99	292.86	292.78		292.79	
31		292.82		293.12	293.67		294.11		292.86	292.77		292.82	
Mean	292.94	293.02	292.81	293.11	293.22	293.69	293.67	293.20	292.91	292.81	292.80	292.82	
Max	293.62	293.64	293.10	293.53	293.81	294.97	294.39	293.91	292.98	292.85	292.89	293.09	294.97
Min	292.78	292.82	292.75	292.79	292.96	293.25	293.28	292.99	292.86	292.77	292.75	292.73	292.73
Annual Max Momentary Gage Height	295.12		m. (MSL.) ,			at 19.00 Hours ,	on Sep 10, 2021						
Zero Gage at Bottom Elevation	290.90		m. (MSL.) ,			River Bed	291.29	m. (MSL.)					
Left Bank Elevation	299.98		m. (MSL.) ,										
Right Bank Elevation	299.98		m. (MSL.) ,			Drainage Are	713	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.40	16.77	1.84	1.45	8.26	20.22	17.92	26.44	5.04	2.35	1.35	1.25		
2	1.40	19.99	1.67	3.20	7.34	26.92	28.12	18.38	4.81	2.35	1.30	1.20		
3	1.45	20.22	1.67	3.89	6.42	21.37	21.14	17.00	4.81	2.35	1.30	1.20		
4	1.67	11.25	1.45	2.86	5.96	19.99	17.46	14.70	4.58	2.35	1.35	1.15		
5	2.18	8.95	1.45	2.18	5.73	16.08	14.70	13.32	4.58	2.35	1.30	1.15		
6	2.86	6.88	1.45	2.01	7.57	14.47	19.53	12.40	4.58	2.18	1.25	1.20		
7	3.03	5.50	1.40	1.84	8.95	12.17	18.15	13.78	4.35	2.18	1.25	1.45		
8	2.35	4.58	1.40	2.35	7.34	28.36	14.47	12.86	4.12	1.84	1.25	2.86		
9	2.01	7.11	1.45	7.80	6.42	44.40	14.70	11.48	4.12	1.84	1.25	5.04		
10	2.35	7.34	1.67	8.26	5.50	56.10	14.01	10.56	4.12	1.84	1.40	3.03		
11	2.52	6.88	2.18	7.34	4.81	41.10	11.94	10.10	3.89	1.84	1.67	2.01		
12	3.20	6.19	2.01	6.19	4.58	23.44	12.40	9.64	3.89	1.84	2.01	1.84		
13	3.03	4.58	2.01	6.19	5.50	18.15	23.21	9.18	3.66	1.84	2.18	1.50		
14	4.81	3.89	2.01	11.25	8.72	14.93	15.62	9.18	3.66	1.84	2.35	1.45		
15	3.20	3.66	1.67	8.95	15.85	14.24	16.54	8.72	3.43	1.67	2.69	1.35		
16	2.52	3.20	1.50	15.39	22.06	15.85	34.04	8.49	3.43	1.67	2.52	1.40		
17	2.52	2.86	1.45	14.47	15.39	13.78	32.25	8.26	3.43	1.67	2.18	1.50		
18	2.69	3.89	1.40	14.47	11.02	16.08	37.04	8.03	3.43	1.67	2.01	1.45		
19	3.89	6.65	1.35	10.79	14.24	13.32	38.72	7.80	3.03	1.50	2.01	1.50		
20	4.35	4.81	1.35	8.26	12.40	11.25	26.44	7.57	3.03	1.50	1.67	1.45		
21	4.12	3.89	1.30	7.34	9.87	11.25	30.28	7.34	3.03	1.67	2.35	2.01		
22	3.03	3.89	1.30	8.72	8.72	12.63	29.32	6.88	3.03	1.67	3.03	3.20		
23	5.27	3.66	1.25	9.41	7.80	11.94	25.74	6.88	2.86	1.67	2.35	3.89		
24	7.80	3.03	1.35	11.48	7.34	18.38	18.84	6.88	3.03	1.50	1.84	7.57		
25	4.58	2.52	7.80	13.09	7.34	20.91	16.31	6.42	2.86	1.45	1.45	3.89		
26	5.50	2.35	3.43	17.69	8.26	33.00	14.70	6.19	2.86	1.40	1.40	2.18		
27	7.57	2.18	2.18	12.63	12.86	28.36	13.55	5.73	2.69	1.40	1.35	1.67		
28	6.42	2.69	1.67	10.10	14.93	26.92	12.86	5.73	2.69	1.45	1.25	1.50		
29	11.94	3.03	1.50	8.72	21.83	27.88	15.16	5.27	2.69	1.45		1.50		
30	19.76	2.35	1.45	8.26	24.13	19.07	14.01	5.27	2.52	1.40		1.45		
31		1.84		8.26	20.91		31.25		2.52	1.35		1.84		
<b>Total</b>	129.42	186.63	55.61	254.84	328.05	652.56	650.42	300.48	110.77	55.08	49.31	65.68	2838.85	CMSDAY
<b>Mean</b>	4.31	6.02	1.85	8.22	10.58	21.75	20.98	10.02	3.57	1.78	1.76	2.12	7.78	CMS
<b>Max</b>	19.76	20.22	7.80	17.69	24.13	56.10	38.72	26.44	5.04	2.35	3.03	7.57	56.10	CMS
<b>Min</b>	1.40	1.84	1.25	1.45	4.58	11.25	11.94	5.27	2.52	1.35	1.25	1.15	1.15	CMS
<b>Runoff</b>	11.18	16.12	4.80	22.02	28.34	56.38	56.20	25.96	9.57	4.76	4.26	5.67	245.28	MCM
<b>Momentary Peak</b>	60.60	CMS.	at 295.12 m. (MSL.)											
<b>Runoff Yield</b>	11.44	Liters/Second/Square KM.												
<b>Momentary Peak Yield</b>						89.12	Liters/Second/Square KM.							

**WATER YEAR : 2021****MUN RIVER BASIN****Lam Sieo Yai at Ban Ku, Roi Et. (M.95A)**

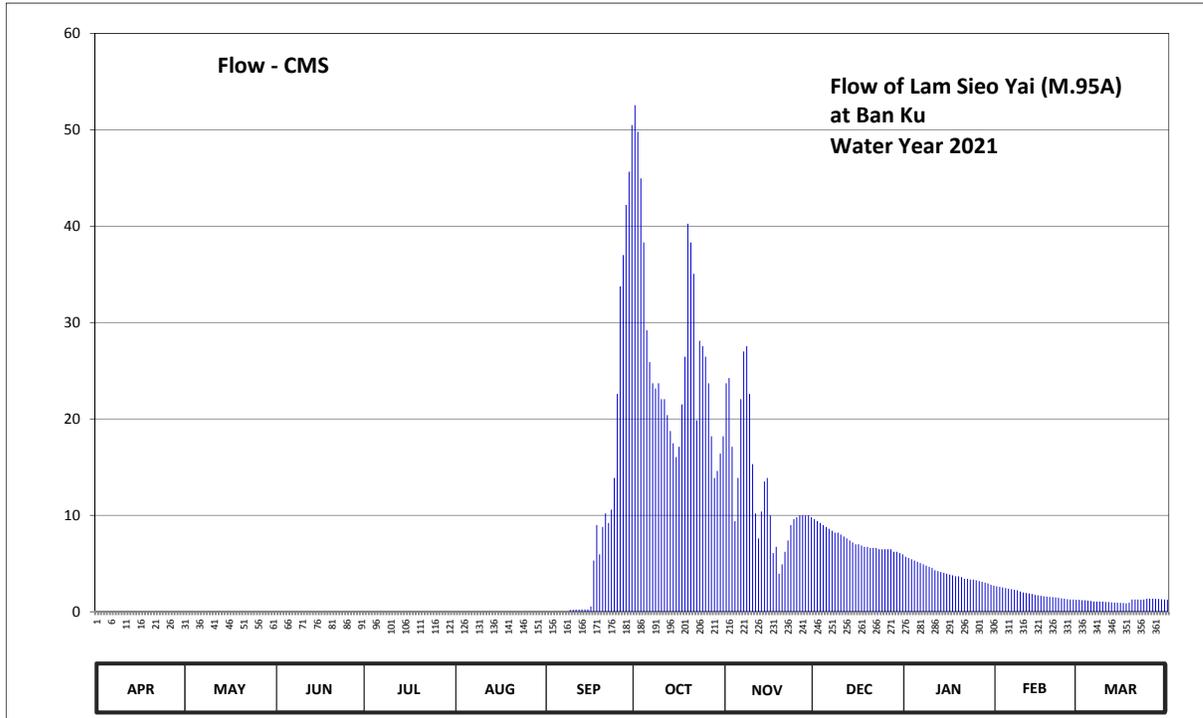
Lat 15 - 35 - 12 N Long 103 - 47 - 21 E

**Location : on left bank at the bridge on Highway.**

	<b>Ban Ku</b>	<b>Amphoe Suwannaphum</b>	<b>Changwat Roi Et</b>
<b>Drainage Area</b>	3,153 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+115.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+124.105 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00 ,09.00, 12.00,15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1978 - 1989, 2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1978 - 1989, 2005 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1978 - 1989, 2005 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

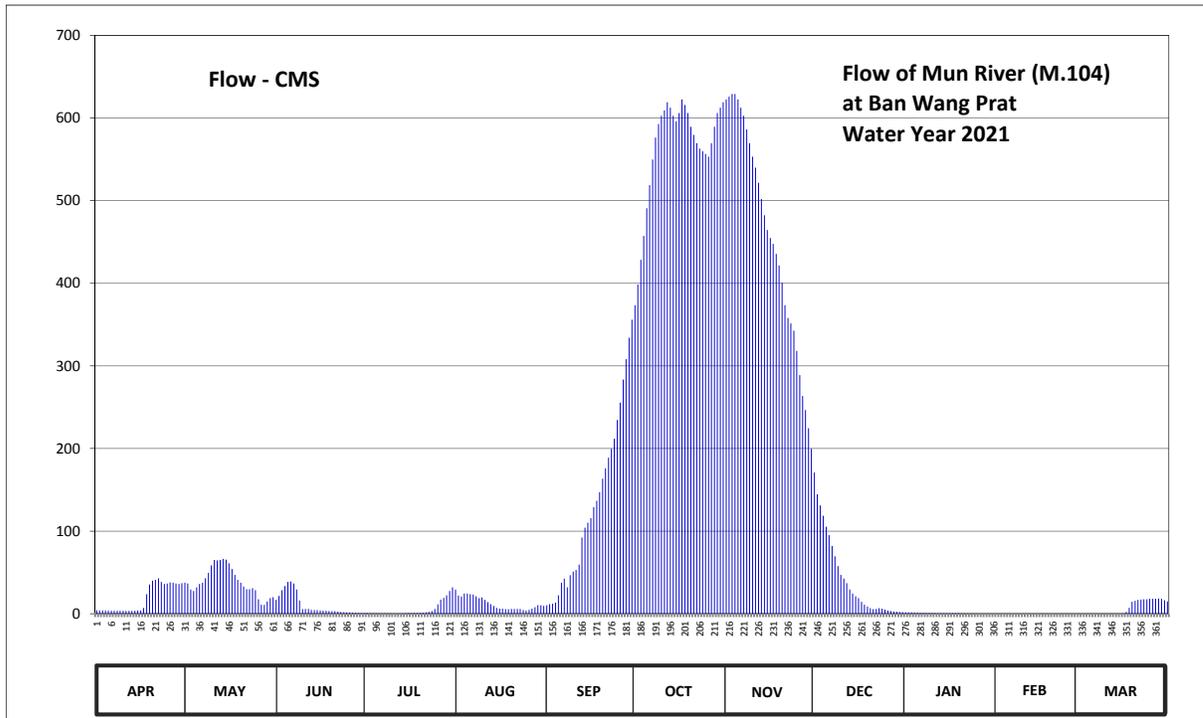
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.35	119.20	119.02	119.06	119.20	119.07	121.55	121.10	120.73	120.50	120.19	119.88	
2	119.35	119.19	119.01	119.07	119.19	119.07	121.51	121.11	120.72	120.49	120.18	119.87	
3	119.34	119.19	119.00	119.06	119.18	119.08	121.44	120.97	120.71	120.48	120.17	119.86	
4	119.34	119.18	118.99	119.06	119.18	119.07	121.34	120.72	120.70	120.47	120.16	119.85	
5	119.33	119.17	118.98	119.05	119.17	119.09	121.20	120.88	120.69	120.46	120.15	119.84	
6	119.33	119.16	118.97	119.04	119.17	119.09	121.14	121.07	120.68	120.45	120.14	119.82	
7	119.32	119.15	119.02	119.06	119.15	119.10	121.10	121.16	120.67	120.44	120.13	119.82	
8	119.31	119.15	119.02	119.08	119.15	119.09	121.09	121.17	120.66	120.43	120.12	119.82	
9	119.30	119.14	119.01	119.11	119.14	119.19	121.10	121.08	120.66	120.42	120.10	119.82	
10	119.29	119.13	119.00	119.11	119.13	119.22	121.07	120.92	120.65	120.41	120.08	119.81	
11	119.28	119.12	119.04	119.11	119.12	119.23	121.07	120.76	120.64	120.39	120.07	119.80	
12	119.26	119.12	119.04	119.11	119.11	119.23	121.04	120.63	120.63	120.38	120.06	119.79	
13	119.25	119.10	119.06	119.11	119.11	119.24	121.01	120.77	120.62	120.37	120.05	119.78	
14	119.24	119.10	119.06	119.11	119.12	119.24	120.98	120.87	120.61	120.36	120.03	119.77	
15	119.24	119.09	119.06	119.11	119.12	119.24	120.94	120.88	120.60	120.35	120.02	119.76	
16	119.23	119.09	119.05	119.11	119.12	119.54	120.97	120.75	120.60	120.34	120.01	119.75	
17	119.22	119.08	119.05	119.10	119.12	120.47	121.06	120.53	120.59	120.33	120.00	119.74	
18	119.22	119.07	119.06	119.10	119.11	120.70	121.15	120.58	120.58	120.32	119.99	119.77	
19	119.21	119.06	119.05	119.10	119.10	120.52	121.37	120.35	120.58	120.32	119.98	119.89	
20	119.21	119.05	119.05	119.08	119.09	120.69	121.34	120.44	120.57	120.31	119.97	119.89	
21	119.19	119.05	119.04	119.07	119.09	120.76	121.29	120.54	120.57	120.29	119.96	119.89	
22	119.19	119.05	119.04	119.07	119.08	120.71	121.03	120.62	120.57	120.29	119.95	119.88	
23	119.18	119.05	119.04	119.06	119.08	120.78	121.18	120.70	120.56	120.28	119.93	119.89	
24	119.17	119.05	119.04	119.08	119.09	120.88	121.17	120.73	120.56	120.28	119.92	119.92	
25	119.17	119.05	119.04	119.15	119.09	121.08	121.15	120.74	120.56	120.27	119.90	119.92	
26	119.16	119.05	119.03	119.21	119.08	121.27	121.10	120.75	120.56	120.26	119.89	119.92	
27	119.15	119.04	119.05	119.22	119.08	121.32	121.00	120.75	120.56	120.25	119.89	119.91	
28	119.17	119.04	119.05	119.20	119.08	121.40	120.88	120.75	120.54	120.24	119.88	119.91	
29	119.18	119.04	119.05	119.20	119.08	121.45	120.90	120.75	120.54	120.23	119.90	119.90	
30	119.19	119.04	119.05	119.20	119.08	121.52	120.95	120.74	120.53	120.21	119.89	119.89	
31		119.04		119.20	119.08		121.00		120.52	120.20	119.88	119.88	
Mean	119.25	119.10	119.03	119.11	119.12	120.01	121.13	120.79	120.61	120.35	120.03	119.85	
Max	119.35	119.20	119.06	119.22	119.20	121.52	121.55	121.17	120.73	120.50	120.19	119.92	121.55
Min	119.15	119.04	118.97	119.04	119.08	119.07	120.88	120.35	120.52	120.20	119.88	119.74	118.97
Annual Max Momentary Gage Height	121.55		m. (MSL.) ,			at 06.00 Hours ,	on Oct 1, 2021						
Zero Gage at Bottom Elevation	115.80		m. (MSL.) ,			River Bed	118.25	m. (MSL.)					
Left Bank Elevation		124.41		m. (MSL.) ,									
Right Bank Elevation		124.10		m. (MSL.) ,		Drainage Are	3,153	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	52.55	23.70	9.60	5.70	2.64	1.24	
2	0.00	0.00	0.00	0.00	0.00	0.00	49.79	24.25	9.40	5.57	2.58	1.21	
3	0.00	0.00	0.00	0.00	0.00	0.00	44.96	17.12	9.20	5.44	2.52	1.18	
4	0.00	0.00	0.00	0.00	0.00	0.00	38.30	9.40	9.00	5.31	2.46	1.15	
5	0.00	0.00	0.00	0.00	0.00	0.00	29.20	13.88	8.80	5.18	2.40	1.12	
6	0.00	0.00	0.00	0.00	0.00	0.00	25.90	22.05	8.60	5.05	2.34	1.06	
7	0.00	0.00	0.00	0.00	0.00	0.00	23.70	27.00	8.40	4.92	2.28	1.06	
8	0.00	0.00	0.00	0.00	0.00	0.00	23.15	27.55	8.20	4.79	2.22	1.06	
9	0.00	0.00	0.00	0.00	0.00	0.19	23.70	22.60	8.20	4.66	2.10	1.06	
10	0.00	0.00	0.00	0.00	0.00	0.22	22.05	15.32	8.00	4.53	2.00	1.03	
11	0.00	0.00	0.00	0.00	0.00	0.23	22.05	10.20	7.80	4.31	1.95	1.00	
12	0.00	0.00	0.00	0.00	0.00	0.23	20.40	7.60	7.60	4.22	1.90	0.98	
13	0.00	0.00	0.00	0.00	0.00	0.24	18.75	10.40	7.40	4.13	1.85	0.96	
14	0.00	0.00	0.00	0.00	0.00	0.24	17.48	13.52	7.20	4.04	1.75	0.94	
15	0.00	0.00	0.00	0.00	0.00	0.24	16.04	13.88	7.00	3.95	1.70	0.92	
16	0.00	0.00	0.00	0.00	0.00	0.54	17.12	10.00	7.00	3.86	1.65	0.90	
17	0.00	0.00	0.00	0.00	0.00	5.31	21.50	6.09	6.87	3.77	1.60	0.88	
18	0.00	0.00	0.00	0.00	0.00	9.00	26.45	6.74	6.74	3.68	1.57	0.94	
19	0.00	0.00	0.00	0.00	0.00	5.96	40.25	3.95	6.74	3.68	1.54	1.27	
20	0.00	0.00	0.00	0.00	0.00	8.80	38.30	4.92	6.61	3.59	1.51	1.27	
21	0.00	0.00	0.00	0.00	0.00	10.20	35.05	6.22	6.61	3.42	1.48	1.27	
22	0.00	0.00	0.00	0.00	0.00	9.20	19.85	7.40	6.61	3.42	1.45	1.24	
23	0.00	0.00	0.00	0.00	0.00	10.60	28.10	9.00	6.48	3.34	1.39	1.27	
24	0.00	0.00	0.00	0.00	0.00	13.88	27.55	9.60	6.48	3.34	1.36	1.36	
25	0.00	0.00	0.00	0.00	0.00	22.60	26.45	9.80	6.48	3.26	1.30	1.36	
26	0.00	0.00	0.00	0.00	0.00	33.75	23.70	10.00	6.48	3.18	1.27	1.36	
27	0.00	0.00	0.00	0.00	0.00	37.00	18.20	10.00	6.48	3.10	1.27	1.33	
28	0.00	0.00	0.00	0.00	0.00	42.20	13.88	10.00	6.22	3.02	1.24	1.33	
29	0.00	0.00	0.00	0.00	0.00	45.65	14.60	10.00	6.22	2.94		1.30	
30	0.00	0.00	0.00	0.00	0.00	50.48	16.40	9.80	6.09	2.78		1.27	
31	0.00	0.00	0.00	0.00	0.00		18.20		5.96	2.70		1.24	
Total	0.00	0.00	0.00	0.00	0.00	306.76	813.62	381.99	228.47	124.88	51.32	35.56	1942.60 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	10.23	26.25	12.73	7.37	4.03	1.83	1.15	5.32 CMS
Max	0.00	0.00	0.00	0.00	0.00	50.48	52.55	27.55	9.60	5.70	2.64	1.36	52.55 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	13.88	3.95	5.96	2.70	1.24	0.88	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	0.00	26.50	70.30	33.00	19.74	10.79	4.43	3.07	167.84 MCM
Momentary Peak	52.55	CMS. at 121.55 m. (MSL.) at 06.00 Hours , on Oct 1, 2021											
Runoff Yield	1.69	Liters/Second/Square KM. Momentary Peak Yield 16.67 Liters/Second/Square KM.											





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.20	37.50	16.80	0.85	29.20	10.10	373.40	622.40	171.00	1.80	0.00	0.00	
2	4.00	36.50	21.60	0.90	22.00	11.60	398.40	625.70	144.60	1.75	0.00	0.00	
3	4.00	29.20	28.40	0.80	20.80	12.20	428.40	629.00	131.10	1.65	0.00	0.00	
4	4.00	27.60	33.50	0.80	24.40	13.40	457.20	629.00	118.50	1.45	0.00	0.00	
5	3.80	32.00	38.50	0.75	24.40	22.40	490.80	622.40	105.40	1.30	0.00	0.00	
6	3.70	36.00	39.00	0.55	23.60	37.50	518.80	612.50	95.20	1.15	0.00	0.00	
7	3.70	37.50	36.50	0.45	23.20	42.50	549.80	602.60	82.00	1.05	0.00	0.00	
8	3.70	43.00	29.20	0.50	21.20	32.00	576.20	586.10	69.50	1.00	0.00	0.00	
9	3.70	49.50	16.00	0.45	18.80	46.50	592.70	569.60	57.50	0.95	0.00	0.00	
10	3.60	58.50	5.60	0.35	19.60	51.00	602.60	553.10	47.00	0.90	0.00	0.00	
11	3.50	65.00	5.80	0.25	16.80	53.00	609.20	539.90	42.50	0.80	0.00	0.00	
12	3.50	64.50	5.80	0.20	14.00	59.50	619.10	521.60	37.00	0.65	0.00	0.00	
13	3.40	65.00	4.60	0.25	11.60	92.20	612.50	502.00	29.20	0.55	0.00	0.00	
14	3.70	66.50	4.40	0.35	9.50	104.20	602.60	482.40	24.40	0.50	0.00	0.00	
15	4.00	65.50	4.40	0.65	7.20	110.20	596.00	464.40	21.20	0.50	0.00	0.00	
16	4.00	61.00	4.00	0.80	6.20	115.70	605.90	454.80	18.80	0.65	0.00	0.40	
17	7.00	54.00	3.90	0.85	6.20	129.00	622.40	447.60	14.40	0.75	0.00	2.20	
18	23.60	47.00	3.60	0.90	5.60	136.70	615.80	435.60	11.00	0.75	0.00	7.20	
19	35.50	41.00	3.30	1.00	5.40	147.00	605.90	421.40	8.60	0.60	0.00	14.40	
20	40.00	37.50	3.10	1.15	5.80	163.50	589.40	400.70	6.80	0.45	0.00	15.60	
21	41.00	33.00	3.00	1.40	5.80	176.00	579.50	373.40	5.60	0.35	0.00	16.80	
22	43.00	29.60	2.70	1.80	5.80	188.80	569.60	358.00	5.80	0.25	0.00	17.20	
23	38.50	29.60	2.20	2.30	5.80	199.60	563.00	351.40	6.80	0.20	0.00	17.60	
24	36.00	31.00	1.85	3.30	4.60	211.80	559.70	342.60	6.20	0.15	0.00	17.60	
25	36.50	28.40	1.65	5.80	3.90	234.50	556.40	318.00	5.00	0.10	0.00	18.00	
26	38.00	17.60	1.45	11.30	4.60	255.50	553.10	288.80	3.80	0.00	0.00	18.00	
27	37.50	11.00	1.25	17.20	6.20	283.40	569.60	263.60	3.20	0.00	0.00	18.00	
28	36.50	10.70	1.15	19.20	7.80	308.00	589.40	246.50	2.70	0.00	0.00	18.40	
29	36.00	14.80	0.95	22.40	10.40	334.00	605.90	224.40	2.40	0.00	0.00	18.00	
30	37.00	18.80	0.75	27.60	10.10	355.80	612.50	199.60	2.20	0.00	0.00	16.40	
31		20.00		32.00	9.50		619.10		1.95	0.00		14.80	
Total	546.60	1198.80	324.95	157.10	390.00	3937.60	17444.90	13689.10	1281.35	20.25	0.00	230.60	39221.25 CMSDAY
Mean	18.22	38.67	10.83	5.07	12.58	131.25	562.74	456.30	41.33	0.65	0.00	7.44	107.46 CMS
Max	43.00	66.50	39.00	32.00	29.20	355.80	622.40	629.00	171.00	1.80	0.00	18.40	629.00 CMS
Min	3.40	10.70	0.75	0.20	3.90	10.10	373.40	199.60	1.95	0.00	0.00	0.00	0.00 CMS
Runoff	47.23	103.58	28.08	13.57	33.70	340.21	1507.24	1182.74	110.71	1.75	0.00	19.92	3388.72 MCM
Momentary Peak	629.00 CMS. at 136.70 m. (MSL.) at 01.00 Hours , on Nov 3, 2021												
Runoff Yield	4.29 Liters/Second/Square KM.			Momentary Peak Yield				25.12 Liters/Second/Square KM.					

## WATER YEAR : 2021

## MUN RIVER BASIN

## Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani (M.127)

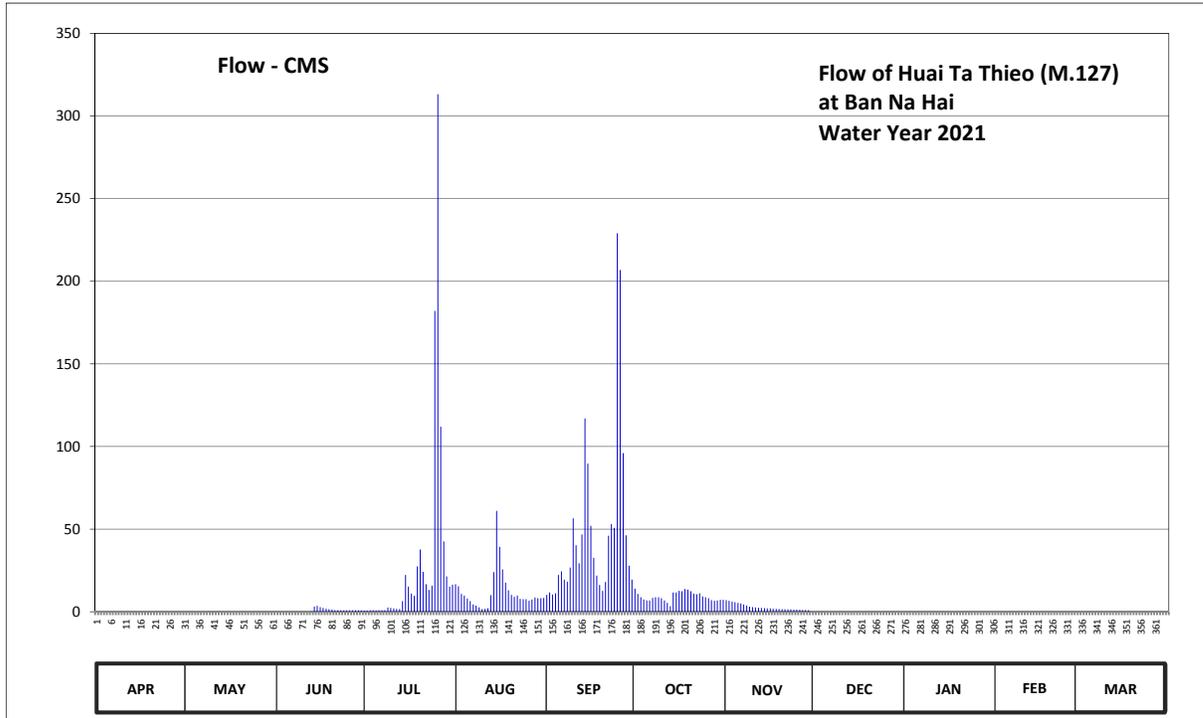
Lat 15 - 38 - 42 N Long 104 - 55 - 43 E

Location : on left bank at the bridge on road.

	<b>Ban</b>	<b>Na Hai</b>	<b>Amphoe</b>	<b>Trakan Phutphon</b>	<b>Changwat</b>	<b>Ubon Ratchathani</b>	
<b>Drainage Area</b>	425	sq.km.					
<b>Type of Gage</b>	Staff gage						
<b>Zero Gage at Bottom</b>	+115.300 m. (MSL.)						
<b>Bench Mark</b>	B.M.-H.D.						
<b>Location BM</b>	On left bank downstream side at the abutment of the bridge.					<b>Elevation</b>	+126.877 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00 ,09.00, 12.00,15.00 and 18.00 hours.						
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings						
<b>Period of Available Gage Records</b>	1984 to date						
<b>Rating Operation</b>							
<b>Period of Rating</b>	1987 to date						
<b>Rated by Float</b>	-						
<b>Rated by Current Meter</b>	1987 to date						
<b>Stability of Channel Regimes</b>	Stable.						
<b>Overbank Flow Conditions</b>	No overbank flow.						
<b>General Description</b>	Records good. The weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 2021.						

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.10	115.94	115.95	116.53	117.53	117.21	117.40	117.05	116.60	116.54	116.41	116.27	
2	116.10	115.95	115.95	116.53	117.47	117.28	117.24	117.03	116.60	116.54	116.41	116.27	
3	116.10	115.99	115.95	116.56	117.24	117.22	117.14	117.01	116.60	116.54	116.40	116.27	
4	116.10	115.98	115.94	116.58	117.19	117.26	117.07	116.99	116.60	116.53	116.40	116.27	
5	116.09	115.98	115.94	116.55	117.10	117.81	117.04	116.97	116.60	116.53	116.39	116.27	
6	116.08	115.97	115.99	116.58	117.02	117.92	117.04	116.95	116.60	116.53	116.37	116.26	
7	116.07	115.96	116.14	116.60	116.92	117.67	117.12	116.92	116.60	116.53	116.36	116.25	
8	116.06	115.96	116.15	116.60	116.87	117.61	117.14	116.87	116.59	116.52	116.35	116.24	
9	116.06	115.94	116.14	116.76	116.77	118.04	117.14	116.81	116.59	116.52	116.34	116.23	
10	116.06	115.94	116.14	116.73	116.65	119.34	117.11	116.78	116.59	116.52	116.34	116.23	
11	116.05	115.94	116.16	116.70	116.67	118.69	117.04	116.76	116.59	116.51	116.33	116.22	
12	116.05	115.94	116.16	116.67	116.71	118.17	116.97	116.74	116.59	116.51	116.33	116.22	
13	116.05	115.94	116.31	116.66	117.20	118.95	116.84	116.73	116.59	116.51	116.32	116.22	
14	116.05	115.93	116.81	117.02	117.90	121.06	117.28	116.72	116.58	116.50	116.32	116.22	
15	116.04	115.93	116.86	117.81	119.52	120.39	117.28	116.70	116.58	116.50	116.31	116.23	
16	116.04	115.92	116.78	117.46	118.65	119.16	117.33	116.70	116.58	116.50	116.31	116.25	
17	116.03	115.91	116.73	117.25	117.98	118.33	117.32	116.68	116.58	116.49	116.31	116.24	
18	116.02	115.91	116.68	117.18	117.58	117.79	117.39	116.67	116.57	116.48	116.30	116.24	
19	116.01	115.90	116.65	118.07	117.35	117.51	117.37	116.66	116.57	116.47	116.30	116.24	
20	116.00	115.90	116.63	118.58	117.21	117.33	117.32	116.65	116.57	116.46	116.30	116.23	
21	115.99	115.89	116.60	117.91	117.15	117.60	117.25	116.65	116.57	116.45	116.30	116.23	
22	115.99	115.89	116.57	117.53	117.19	118.92	117.23	116.64	116.57	116.44	116.29	116.24	
23	115.98	115.88	116.56	117.36	117.09	119.20	117.26	116.64	116.57	116.43	116.29	116.24	
24	115.97	115.92	116.55	117.49	117.08	119.11	117.16	116.63	116.57	116.43	116.29	116.25	
25	115.97	115.98	116.55	122.05	117.08	122.60	117.14	116.63	116.56	116.43	116.28	116.25	
26	115.96	115.98	116.56	123.36	117.03	122.35	117.11	116.62	116.56	116.43	116.28	116.25	
27	115.95	115.98	116.55	120.95	117.07	120.55	117.05	116.61	116.56	116.43	116.27	116.25	
28	115.95	115.98	116.55	118.78	117.13	118.93	117.03	116.61	116.56	116.42	116.27	116.24	
29	115.95	115.97	116.54	117.77	117.11	118.09	117.04	116.60	116.56	116.42	116.27	116.24	
30	115.94	115.97	116.54	117.46	117.11	117.67	117.06	116.60	116.56	116.42	116.27	116.23	
31		115.97		117.52	117.12		117.06		116.55	116.42	116.27	116.23	
Mean	116.03	115.94	116.39	117.66	117.28	118.66	117.16	116.75	116.58	116.48	116.33	116.24	
Max	116.10	115.99	116.86	123.36	119.52	122.60	117.40	117.05	116.60	116.54	116.41	116.27	123.36
Min	115.94	115.88	115.94	116.53	116.65	117.21	116.84	116.60	116.55	116.42	116.27	116.22	115.88
Annual Max Momentary Gage Height	123.48		m. (MSL.) ,			at 12.00 Hours ,	on Jul 26, 2021						
Zero Gage at Bottom Elevation	115.30		m. (MSL.) ,			River Bed	113.36	m. (MSL.)					
Left Bank Elevation		126.61		m. (MSL.) ,									
Right Bank Elevation		126.60		m. (MSL.) ,		Drainage Are	425	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.79	16.60	10.20	14.00	7.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.79	15.40	11.60	10.80	6.60	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.88	10.80	10.40	8.80	6.20	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.94	9.80	11.20	7.40	5.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.85	8.00	22.20	6.80	5.40	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.94	6.40	24.40	6.80	5.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	1.00	4.40	19.40	8.40	4.40	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.00	3.70	18.20	8.80	3.70	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	2.60	2.70	26.80	8.80	3.10	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	2.30	1.50	56.50	8.20	2.80	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	2.00	1.70	40.25	6.80	2.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.70	2.10	29.40	5.40	2.40	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.22	1.60	10.00	46.75	3.40	2.30	0.00	0.00	0.00	0.00	
14	0.00	0.00	3.10	6.40	24.00	117.00	11.60	2.20	0.00	0.00	0.00	0.00	
15	0.00	0.00	3.60	22.20	61.00	89.60	11.60	2.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	2.80	15.20	39.25	52.00	12.60	2.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	2.30	11.00	25.60	32.60	12.40	1.80	0.00	0.00	0.00	0.00	
18	0.00	0.00	1.80	9.60	17.60	21.80	13.80	1.70	0.00	0.00	0.00	0.00	
19	0.00	0.00	1.50	27.40	13.00	16.20	13.40	1.60	0.00	0.00	0.00	0.00	
20	0.00	0.00	1.30	37.60	10.20	12.60	12.40	1.50	0.00	0.00	0.00	0.00	
21	0.00	0.00	1.00	24.20	9.00	18.00	11.00	1.50	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.91	16.60	9.80	46.00	10.60	1.40	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.88	13.20	7.80	53.00	11.20	1.40	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.85	15.80	7.60	50.75	9.20	1.30	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.85	182.00	7.60	229.00	8.80	1.30	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.88	313.20	6.60	206.75	8.20	1.20	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.85	112.00	7.40	96.00	7.00	1.10	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.85	42.50	8.60	46.25	6.60	1.10	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.82	21.40	8.20	27.80	6.80	1.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.82	15.20	8.20	19.40	7.20	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00		16.40	8.40		7.20		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	25.33	919.29	372.95	1462.05	286.00	81.40	0.00	0.00	0.00	0.00	3147.02 CMSDAY
<b>Mean</b>	0.00	0.00	0.84	29.65	12.03	48.73	9.23	2.71	0.00	0.00	0.00	0.00	8.62 CMS
<b>Max</b>	0.00	0.00	3.60	313.20	61.00	229.00	14.00	7.00	0.00	0.00	0.00	0.00	313.20 CMS
<b>Min</b>	0.00	0.00	0.00	0.79	1.50	10.20	3.40	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	2.19	79.43	32.22	126.32	24.71	7.03	0.00	0.00	0.00	0.00	271.90 MCM
<b>Momentary Peak</b>	329.20	CMS, at 123.48 m. (MSL) , at 12.00 Hours , on Jul 26, 2021											
<b>Runoff Yield</b>	20.29	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		774.59	Liters/Second/Square KM.						

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima (M.145)

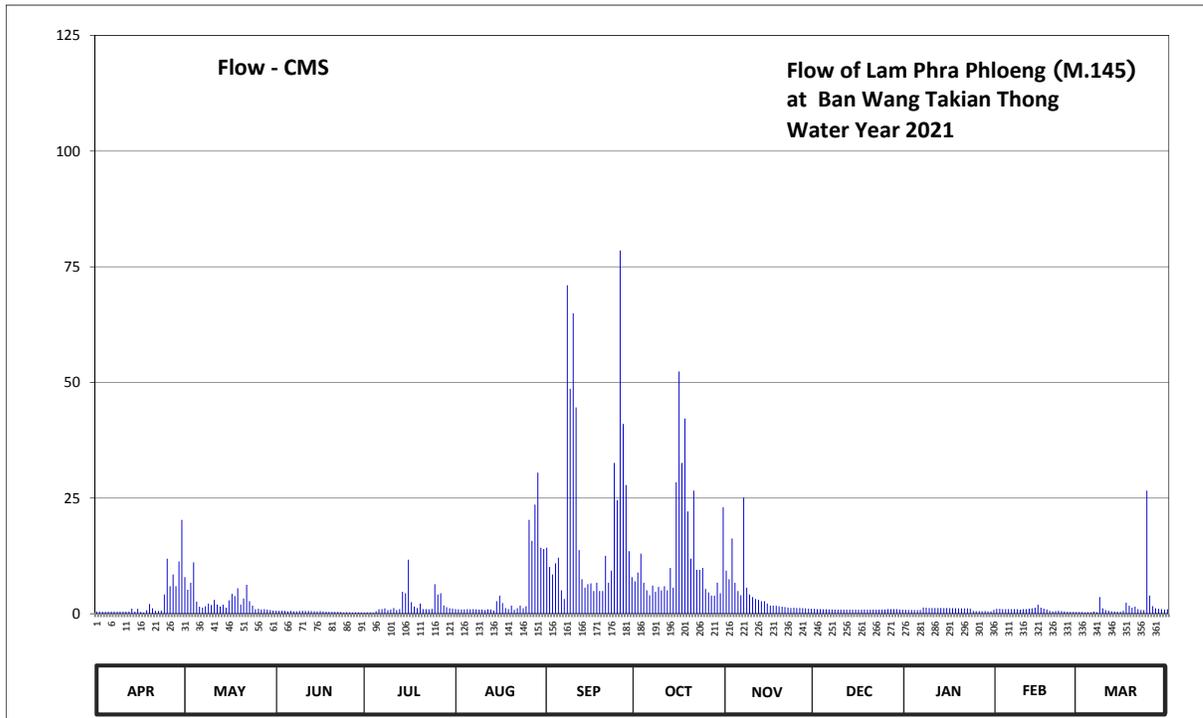
Lat 14 - 29 - 33 N Long 101 - 41 - 00 E

Location : on right bank at Ban Wang Takian Thong.

	<b>Ban</b>	<b>Wang Takian Thong</b>	<b>Amphoe</b>	<b>Pak Chong</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	338	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+383.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 12 meters from the top staff gage.				<b>Elevation</b>	+390.970 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1990 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1990 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1990 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 55 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.39	387.26	386.46	386.28	386.59	387.57	387.20	387.34	386.61	386.54	386.61	386.33	
2	386.39	387.08	386.44	386.30	386.58	387.38	387.32	387.23	386.60	386.53	386.61	386.33	
3	386.38	387.18	386.46	386.30	386.57	387.30	387.52	387.65	386.59	386.53	386.60	386.31	
4	386.38	387.43	386.44	386.29	386.57	387.42	387.18	387.18	386.58	386.53	386.60	386.32	
5	386.39	386.86	386.41	386.42	386.60	387.48	387.07	387.06	386.58	386.52	386.60	386.31	
6	386.39	386.70	386.45	386.58	386.58	387.07	387.00	387.00	386.57	386.53	386.60	386.39	
7	386.39	386.66	386.40	386.60	386.59	386.92	387.14	387.97	386.57	386.67	386.60	386.32	
8	386.39	386.72	386.40	386.63	386.58	389.14	387.05	387.11	386.56	386.66	386.59	386.96	
9	386.39	386.82	386.45	386.51	386.55	388.64	387.12	387.01	386.55	386.65	386.55	386.63	
10	386.39	386.78	386.46	386.57	386.55	389.01	387.07	386.96	386.55	386.65	386.59	386.52	
11	386.39	386.90	386.45	386.65	386.52	388.54	387.13	386.92	386.55	386.65	386.59	386.46	
12	386.39	386.80	386.44	386.51	386.58	387.55	387.07	386.90	386.56	386.65	386.62	386.42	
13	386.62	386.71	386.43	386.60	386.57	387.23	387.37	386.87	386.55	386.65	386.63	386.39	
14	386.38	386.79	386.42	387.05	386.48	387.11	387.11	386.87	386.55	386.64	386.66	386.38	
15	386.61	386.66	386.40	387.03	386.87	387.16	388.08	386.82	386.55	386.65	386.79	386.36	
16	386.35	386.89	386.43	387.46	386.99	387.17	388.73	386.75	386.54	386.64	386.66	386.46	
17	386.29	387.02	386.40	386.85	386.83	387.06	388.22	386.75	386.55	386.64	386.62	386.84	
18	386.50	386.98	386.38	386.71	386.65	387.18	388.48	386.74	386.57	386.64	386.57	386.75	
19	386.81	387.10	386.36	386.65	386.59	387.06	387.87	386.72	386.56	386.63	386.44	386.66	
20	386.63	386.80	386.36	386.82	386.75	387.06	387.47	386.71	386.55	386.63	386.40	386.71	
21	386.46	386.93	386.35	386.60	386.54	387.50	388.02	386.69	386.56	386.63	386.43	386.59	
22	386.45	387.15	386.36	386.59	386.64	387.18	387.35	386.67	386.56	386.63	386.46	386.53	
23	386.47	386.87	386.34	386.58	386.75	387.34	387.35	386.65	386.56	386.62	386.43	386.52	
24	387.01	386.75	386.31	386.61	386.64	388.22	387.37	386.66	386.56	386.45	386.40	388.02	
25	387.47	386.58	386.32	387.16	386.72	387.95	387.09	386.65	386.56	386.43	386.38	386.99	
26	387.13	386.61	386.31	387.01	387.81	389.29	387.04	386.65	386.60	386.43	386.36	386.73	
27	387.30	386.57	386.29	387.03	387.63	388.45	386.99	386.64	386.60	386.42	386.35	386.63	
28	387.13	386.60	386.30	386.76	387.92	388.06	386.99	386.63	386.59	386.43	386.34	386.61	
29	387.44	386.56	386.30	386.68	388.15	387.54	387.18	386.62	386.60	386.41		386.59	
30	387.81	386.51	386.30	386.64	387.57	387.26	387.03	386.61	386.56	386.41		386.56	
31		386.48		386.62	387.56		387.90		386.55	386.54		386.58	
Mean	386.65	386.83	386.39	386.68	386.86	387.66	387.40	386.90	386.57	386.57	386.54	386.59	
Max	387.81	387.43	386.46	387.46	388.15	389.29	388.73	387.97	386.61	386.67	386.79	388.02	389.29
Min	386.29	386.48	386.29	386.28	386.48	386.92	386.99	386.61	386.54	386.41	386.34	386.31	386.28
Annual Max Momentary Gage Height	389.80		m. (MSL.) ,				at 18.00 Hours , on Sep 10, 2021						
Zero Gage at Bottom Elevation	383.00		m. (MSL.) ,			River Bed	385.16	m. (MSL.)					
Left Bank Elevation		391.23		m. (MSL.) ,									
Right Bank Elevation		391.55		m. (MSL.) ,		Drainage Are	338	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.48	7.90	0.65	0.26	0.98	14.25	7.00	9.30	1.05	0.85	1.05	0.36	
2	0.48	5.20	0.60	0.30	0.95	10.10	8.90	7.45	1.00	0.83	1.05	0.36	
3	0.46	6.70	0.65	0.30	0.93	8.50	13.00	16.25	0.98	0.83	1.00	0.32	
4	0.46	11.10	0.60	0.28	0.93	10.90	6.70	6.70	0.95	0.83	1.00	0.34	
5	0.48	2.60	0.53	0.55	1.00	12.10	5.05	4.90	0.95	0.80	1.00	0.32	
6	0.48	1.50	0.63	0.95	0.95	5.05	4.00	4.00	0.93	0.83	1.00	0.48	
7	0.48	1.30	0.50	1.00	0.98	3.20	6.10	25.10	0.93	1.35	1.00	0.34	
8	0.48	1.60	0.50	1.15	0.95	71.00	4.75	5.65	0.90	1.30	0.98	3.60	
9	0.48	2.20	0.63	0.78	0.88	48.60	5.80	4.15	0.88	1.25	0.88	1.15	
10	0.48	1.90	0.65	0.93	0.88	64.95	5.05	3.60	0.88	1.25	0.98	0.80	
11	0.48	3.00	0.63	1.25	0.80	44.60	5.95	3.20	0.88	1.25	0.98	0.65	
12	0.48	2.00	0.60	0.78	0.95	13.75	5.05	3.00	0.90	1.25	1.10	0.55	
13	1.10	1.55	0.58	1.00	0.93	7.45	9.90	2.70	0.88	1.25	1.15	0.48	
14	0.46	1.95	0.55	4.75	0.70	5.65	5.65	2.70	0.88	1.20	1.30	0.46	
15	1.05	1.30	0.50	4.45	2.70	6.40	28.40	2.20	0.88	1.25	1.95	0.42	
16	0.40	2.90	0.58	11.70	3.90	6.55	52.35	1.75	0.85	1.20	1.30	0.65	
17	0.28	4.30	0.50	2.50	2.30	4.90	32.60	1.75	0.88	1.20	1.10	2.40	
18	0.75	3.80	0.46	1.55	1.25	6.70	42.20	1.70	0.93	1.20	0.93	1.75	
19	2.10	5.50	0.42	1.25	0.98	4.90	22.10	1.60	0.90	1.15	0.60	1.30	
20	1.15	2.00	0.42	2.20	1.75	4.90	11.90	1.55	0.88	1.15	0.50	1.55	
21	0.65	3.30	0.40	1.00	0.85	12.50	26.60	1.45	0.90	1.15	0.58	0.98	
22	0.63	6.25	0.42	0.98	1.20	6.70	9.50	1.35	0.90	1.15	0.65	0.83	
23	0.68	2.70	0.38	0.95	1.75	9.30	9.50	1.25	0.90	1.10	0.58	0.80	
24	4.15	1.75	0.32	1.05	1.20	32.60	9.90	1.30	0.90	0.63	0.50	26.60	
25	11.90	0.95	0.34	6.40	1.60	24.50	5.35	1.25	0.90	0.58	0.46	3.90	
26	5.95	1.05	0.32	4.15	20.30	78.50	4.60	1.25	1.00	0.58	0.42	1.65	
27	8.50	0.93	0.28	4.45	15.75	41.00	3.90	1.20	1.00	0.55	0.40	1.15	
28	5.95	1.00	0.30	1.80	23.60	27.80	3.90	1.15	0.98	0.58	0.38	1.05	
29	11.30	0.90	0.30	1.40	30.50	13.50	6.70	1.10	1.00	0.53		0.98	
30	20.30	0.78	0.30	1.20	14.25	7.90	4.45	1.05	0.90	0.53		0.90	
31		0.70		1.10	14.00		23.00		0.88	0.85		0.95	
<b>Total</b>	<b>83.02</b>	<b>90.61</b>	<b>14.54</b>	<b>62.41</b>	<b>150.69</b>	<b>608.75</b>	<b>389.85</b>	<b>121.60</b>	<b>28.57</b>	<b>30.45</b>	<b>24.82</b>	<b>58.07</b>	<b>1663.38</b> CMSDAY
<b>Mean</b>	<b>2.77</b>	<b>2.92</b>	<b>0.48</b>	<b>2.01</b>	<b>4.86</b>	<b>20.29</b>	<b>12.58</b>	<b>4.05</b>	<b>0.92</b>	<b>0.98</b>	<b>0.89</b>	<b>1.87</b>	<b>4.56</b> CMS
<b>Max</b>	<b>20.30</b>	<b>11.10</b>	<b>0.65</b>	<b>11.70</b>	<b>30.50</b>	<b>78.50</b>	<b>52.35</b>	<b>25.10</b>	<b>1.05</b>	<b>1.35</b>	<b>1.95</b>	<b>26.60</b>	<b>78.50</b> CMS
<b>Min</b>	<b>0.28</b>	<b>0.70</b>	<b>0.28</b>	<b>0.26</b>	<b>0.70</b>	<b>3.20</b>	<b>3.90</b>	<b>1.05</b>	<b>0.85</b>	<b>0.53</b>	<b>0.38</b>	<b>0.32</b>	<b>0.26</b> CMS
<b>Runoff</b>	<b>7.17</b>	<b>7.83</b>	<b>1.26</b>	<b>5.39</b>	<b>13.02</b>	<b>52.60</b>	<b>33.68</b>	<b>10.51</b>	<b>2.47</b>	<b>2.63</b>	<b>2.14</b>	<b>5.02</b>	<b>143.72</b> MCM
<b>Momentary Peak</b>	<b>105.00 CMS, at 389.80 m. (MSL.) , at 18.00 Hours , on Sep 10, 2021</b>												
<b>Runoff Yield</b>	<b>13.48</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>			<b>310.65</b>	<b>Liters/Second/Square KM.</b>					

## WATER YEAR : 2021

## MUN RIVER BASIN

Huai La - ong at Ban Na Phu, Amnart Charoen (M.155)

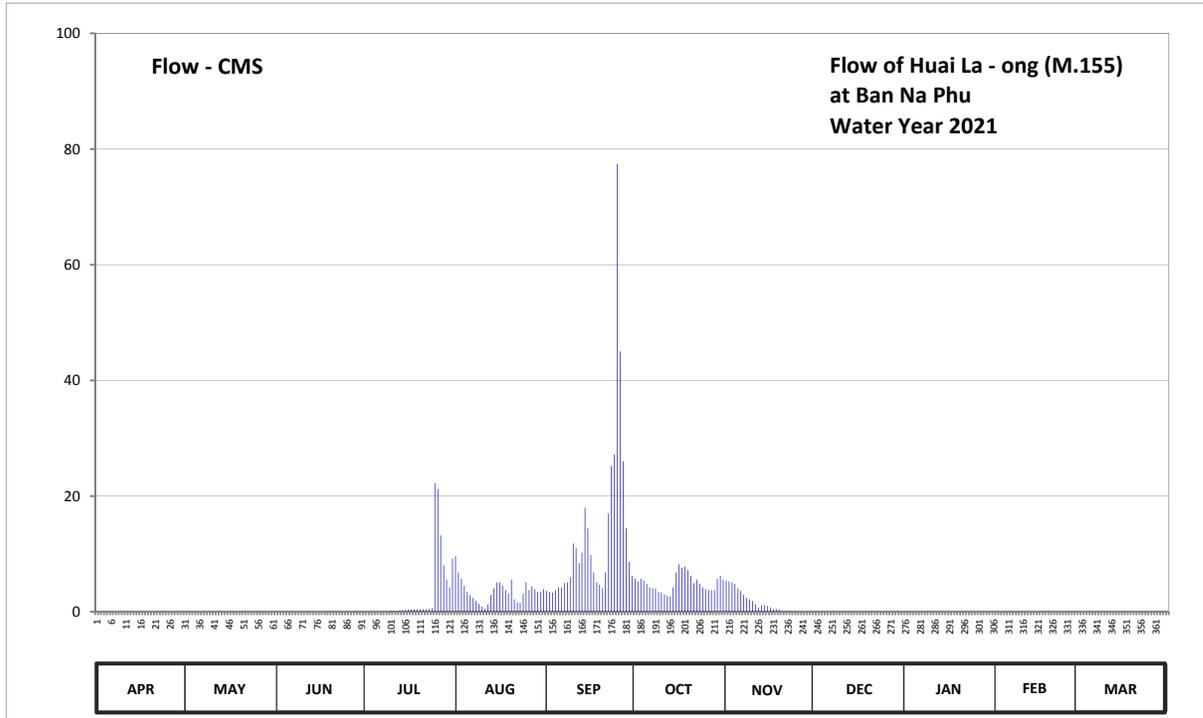
Lat 16 - 00 - 21 N Long 104 - 38 - 23 E

Location : on left bank at the bridge on road.

	<b>Ban Na Phu</b>	<b>Amphoe Mueang</b>	<b>Changwat Amnart Charoen</b>
<b>Drainage Area</b>	218 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+136.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank upstream side at the footpath of the bridge.	<b>Elevation</b>	+144.588 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1997 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The weir situated about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.79	136.75	136.72	136.79	137.58	137.24	137.38	137.36	136.83	136.84	136.82	136.81	
2	136.79	136.74	136.71	136.79	137.44	137.23	137.35	137.35	136.83	136.84	136.82	136.81	
3	136.79	136.80	136.70	136.78	137.38	137.22	137.38	137.34	136.82	136.85	136.82	136.82	
4	136.79	136.79	136.70	136.78	137.30	137.25	137.36	137.32	136.82	136.85	136.82	136.82	
5	136.78	136.79	136.70	136.78	137.23	137.28	137.32	137.27	136.81	136.84	136.82	136.82	
6	136.77	136.78	136.72	136.78	137.19	137.28	137.28	137.24	136.80	136.84	136.82	136.82	
7	136.76	136.78	136.72	136.80	137.15	137.33	137.27	137.19	136.81	136.82	136.82	136.83	
8	136.75	136.77	136.72	136.80	137.11	137.34	137.27	137.15	136.85	136.82	136.81	136.83	
9	136.75	136.77	136.71	136.81	137.07	137.40	137.23	137.13	136.88	136.82	136.81	136.83	
10	136.75	136.76	136.73	136.86	137.03	137.69	137.22	137.11	136.90	136.82	136.81	136.83	
11	136.76	136.76	136.80	136.84	137.00	137.65	137.20	137.06	136.90	136.82	136.81	136.83	
12	136.77	136.75	136.80	136.82	137.06	137.52	137.18	137.02	136.90	136.82	136.81	136.83	
13	136.77	136.74	136.80	136.86	137.19	137.61	137.17	137.05	136.90	136.82	136.81	136.83	
14	136.77	136.73	136.79	136.90	137.27	138.00	137.28	137.05	136.89	136.82	136.81	136.82	
15	136.80	136.72	136.78	136.92	137.34	137.82	137.44	137.04	136.89	136.83	136.80	136.82	
16	136.79	136.74	136.80	136.94	137.34	137.59	137.51	137.02	136.88	136.84	136.80	136.81	
17	136.80	136.76	136.80	136.98	137.30	137.44	137.48	137.00	136.87	136.84	136.80	136.80	
18	136.80	136.77	136.80	136.97	137.25	137.34	137.49	137.00	136.87	136.84	136.79	136.79	
19	136.80	136.77	136.82	136.97	137.21	137.31	137.46	136.97	136.86	136.84	136.79	136.79	
20	136.78	136.77	136.81	136.97	137.37	137.27	137.41	136.86	136.85	136.84	136.79	136.79	
21	136.77	136.75	136.80	136.97	137.13	137.44	137.33	136.84	136.85	136.84	136.83	136.79	
22	136.76	136.73	136.80	136.97	137.09	137.95	137.37	136.83	136.84	136.85	136.82	136.79	
23	136.76	136.71	136.79	136.99	137.08	138.36	137.32	136.84	136.83	136.85	136.81	136.79	
24	136.75	136.71	136.79	137.01	137.21	138.46	137.28	136.84	136.83	136.84	136.78	136.80	
25	136.75	136.78	136.81	138.21	137.34	140.97	137.26	136.84	136.85	136.84	136.75	136.80	
26	136.75	136.83	136.80	138.16	137.25	139.35	137.25	136.84	136.87	136.83	136.74	136.80	
27	136.77	136.79	136.80	137.76	137.29	138.40	137.25	136.83	136.87	136.83	136.73	136.80	
28	136.77	136.77	136.83	137.50	137.26	137.82	137.25	136.83	136.87	136.83	136.72	136.80	
29	136.76	136.76	136.81	137.37	137.23	137.53	137.38	136.83	136.86	136.82		136.80	
30	136.76	136.75	136.80	137.28	137.23	137.41	137.41	136.83	136.86	136.82		136.80	
31		136.74		137.56	137.26		137.37		136.85	136.82		136.80	
Mean	136.77	136.76	136.77	137.06	137.23	137.75	137.33	137.03	136.86	136.83	136.80	136.81	
Max	136.80	136.83	136.83	138.21	137.58	140.97	137.51	137.36	136.90	136.85	136.83	136.83	140.97
Min	136.75	136.71	136.70	136.78	137.00	137.22	137.17	136.83	136.80	136.82	136.72	136.79	136.70
Annual Max Momentary Gage Height	141.06		m. (MSL.) ,				at 17.00 Hours, on Sep 25, 2021						
Zero Gage at Bottom Elevation	136.20		m. (MSL.) ,			River Bed	136.07	m. (MSL)					
Left Bank Elevation		144.59		m. (MSL.) ,									
Right Bank Elevation		144.61		m. (MSL.) ,		Drainage Are	218	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	9.60	3.60	5.70	5.40	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	6.80	3.45	5.25	5.25	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	5.70	3.30	5.70	5.10	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	4.50	3.75	5.40	4.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	3.45	4.20	4.80	4.05	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	2.88	4.20	4.20	3.60	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	2.38	4.95	4.05	2.88	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	1.88	5.10	4.05	2.38	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.03	1.38	6.00	3.45	2.13	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.15	0.88	11.80	3.30	1.88	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.10	0.50	11.00	3.00	1.25	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.05	1.25	8.40	2.75	0.75	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.15	2.88	10.20	2.63	1.13	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.25	4.05	18.00	4.20	1.13	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.30	5.10	14.40	6.80	1.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.35	5.10	9.80	8.20	0.75	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.45	4.50	6.80	7.60	0.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.43	3.75	5.10	7.80	0.50	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.05	0.43	3.15	4.65	7.20	0.43	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.03	0.43	5.55	4.05	6.20	0.15	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.43	2.13	6.80	4.95	0.10	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.43	1.63	17.00	5.55	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.48	1.50	25.20	4.80	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.63	3.15	27.20	4.20	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.03	22.20	5.10	77.40	3.90	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.08	0.00	21.20	3.75	45.00	3.75	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	13.20	4.35	26.00	3.75	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.08	8.00	3.90	14.40	3.75	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.03	5.55	3.45	8.60	5.70	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	4.20	3.45	6.20	6.20	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	9.20	3.90		5.55	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.08	0.22	88.64	111.59	396.55	154.38	45.16	0.00	0.00	0.00	0.00	796.62 CMSDAY
Mean	0.00	0.00	0.01	2.86	3.60	13.22	4.98	1.51	0.00	0.00	0.00	0.00	2.18 CMS
Max	0.00	0.08	0.08	22.20	9.60	77.40	8.20	5.40	0.00	0.00	0.00	0.00	77.40 CMS
Min	0.00	0.00	0.00	0.00	0.50	3.30	2.63	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.01	0.02	7.66	9.64	34.26	13.34	3.90	0.00	0.00	0.00	0.00	68.83 MCM
Momentary Peak	79.20	CMS, at 141.06 m. (MSL), at 17.00 Hours, on Sep 25, 2021											
Runoff Yield	10.01	Liters/Second/Square KM. Momentary Peak Yield 363.30 Liters/Second/Square KM.											

## WATER YEAR : 2021

## MUN RIVER BASIN

## Huai Ban at Ban Na Phu, Amnart Charoen (M.156)

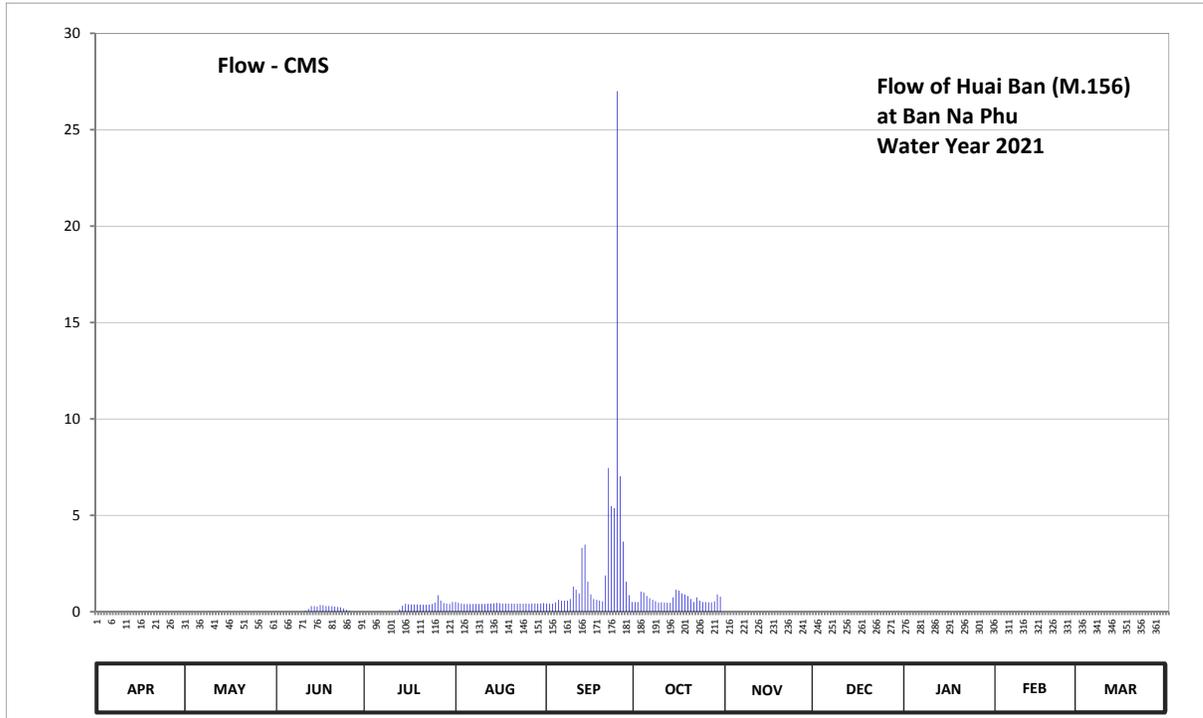
Lat 15 - 59 - 23 N Long 104 - 38 - 14 E

Location : on left bank at the bridge on road.

	<b>Ban Na Phu</b>	<b>Amphoe Mueang</b>	<b>Changwat Amnart Charoen</b>
<b>Drainage Area</b>	45 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+139.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the footpath of the bridge.	<b>Elevation</b>	+144.660 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1997 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The concrete weir situated about 250 meters downstream from the gage site. Stage-discharge relation defined by 13 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.74	139.74	139.74	139.80	140.50	140.43	140.50	140.49	140.36	140.36	140.31	140.30	
2	139.74	139.74	139.74	139.80	140.46	140.42	140.50	140.49	140.36	140.36	140.31	140.29	
3	139.74	139.74	139.74	139.80	140.42	140.42	140.63	140.48	140.36	140.36	140.30	140.28	
4	139.74	139.74	139.74	139.88	140.40	140.49	140.62	140.48	140.36	140.36	140.30	140.27	
5	139.74	139.74	139.74	139.96	140.40	140.53	140.58	140.47	140.36	140.36	140.29	140.25	
6	139.74	139.74	139.74	140.02	140.40	140.52	140.55	140.47	140.36	140.37	140.28	140.23	
7	139.74	139.74	139.74	140.02	140.40	140.52	140.53	140.46	140.38	140.38	140.27	140.21	
8	139.74	139.74	139.74	139.97	140.40	140.52	140.51	140.46	140.38	140.38	140.26	140.19	
9	139.74	139.74	139.74	139.92	140.40	140.54	140.48	140.46	140.39	140.37	140.24	140.17	
10	139.74	139.74	139.82	140.00	140.40	140.68	140.49	140.45	140.39	140.37	140.24	140.15	
11	139.74	139.74	140.06	140.00	140.40	140.65	140.48	140.44	140.39	140.37	140.23	140.13	
12	139.74	139.74	140.15	140.00	140.42	140.61	140.47	140.43	140.38	140.37	140.23	140.11	
13	139.74	139.74	140.30	140.12	140.43	140.94	140.46	140.42	140.38	140.37	140.22	140.09	
14	139.74	139.74	140.29	140.31	140.44	140.96	140.56	140.41	140.37	140.36	140.21	140.07	
15	139.74	139.74	140.27	140.41	140.46	140.72	140.65	140.40	140.37	140.36	140.20	140.05	
16	139.74	139.74	140.35	140.39	140.44	140.60	140.64	140.39	140.37	140.36	140.19	140.03	
17	139.74	139.74	140.34	140.38	140.43	140.54	140.61	140.38	140.37	140.35	140.18	140.01	
18	139.74	139.74	140.30	140.38	140.43	140.53	140.60	140.38	140.37	140.35	140.17	140.02	
19	139.74	139.74	140.30	140.38	140.42	140.52	140.58	140.37	140.37	140.35	140.16	140.37	
20	139.74	139.74	140.29	140.37	140.42	140.51	140.54	140.37	140.37	140.34	140.18	140.36	
21	139.74	139.74	140.27	140.36	140.42	140.76	140.50	140.37	140.37	140.34	140.38	140.36	
22	139.74	139.74	140.25	140.36	140.42	141.36	140.56	140.37	140.37	140.33	140.37	140.36	
23	139.74	139.74	140.23	140.37	140.42	141.18	140.52	140.37	140.37	140.33	140.36	140.36	
24	139.74	139.74	140.17	140.40	140.42	141.17	140.50	140.37	140.37	140.33	140.35	140.36	
25	139.74	139.74	140.10	140.48	140.42	142.70	140.50	140.37	140.37	140.32	140.34	140.37	
26	139.74	139.74	140.05	140.59	140.41	141.32	140.49	140.37	140.37	140.32	140.33	140.37	
27	139.74	139.74	139.99	140.52	140.43	140.98	140.49	140.37	140.37	140.32	140.32	140.37	
28	139.74	139.74	139.95	140.45	140.43	140.72	140.51	140.36	140.36	140.32	140.31	140.37	
29	139.74	139.74	139.88	140.42	140.42	140.59	140.60	140.36	140.36	140.31		140.37	
30	139.74	139.74	139.82	140.40	140.43	140.50	140.57	140.36	140.36	140.31		140.37	
31		139.74		140.50	140.45		140.50		140.36	140.31		140.37	
Mean	139.74	139.74	140.03	140.22	140.42	140.76	140.54	140.41	140.37	140.35	140.27	140.25	
Max	139.74	139.74	140.35	140.59	140.50	142.70	140.65	140.49	140.39	140.38	140.38	140.37	142.70
Min	139.74	139.74	139.74	139.80	140.40	140.42	140.46	140.36	140.36	140.31	140.16	140.01	139.74
Annual Max Momentary Gage Height	142.90		m. (MSL.) ,			at 12.00 Hours, on Sep 25, 2021							
Zero Gage at Bottom Elevation	139.10		m. (MSL.) ,			River Bed	139.74	m. (MSL)					
Left Bank Elevation	144.66		m. (MSL.) ,										
Right Bank Elevation	144.68		m. (MSL.) ,			Drainage Are	45	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.50	0.43	0.50	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.46	0.42	0.50	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.42	0.42	1.05	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.40	0.49	1.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.40	0.62	0.82	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.02	0.40	0.58	0.70	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.02	0.40	0.58	0.62	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.40	0.58	0.54	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.40	0.66	0.48	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.40	1.30	0.49	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.06	0.00	0.40	1.15	0.48	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.15	0.00	0.42	0.95	0.47	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.30	0.12	0.43	3.32	0.46	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.29	0.31	0.44	3.48	0.74	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.27	0.41	0.46	1.56	1.15	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.35	0.39	0.44	0.90	1.10	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.34	0.38	0.43	0.66	0.95	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.30	0.38	0.43	0.62	0.90	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.30	0.38	0.42	0.58	0.82	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.29	0.37	0.42	0.54	0.66	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.27	0.36	0.42	1.88	0.50	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.25	0.36	0.42	7.46	0.74	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.23	0.37	0.42	5.48	0.58	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.17	0.40	0.42	5.37	0.50	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.10	0.48	0.42	27.00	0.50	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.05	0.86	0.41	7.02	0.49	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.58	0.43	3.64	0.49	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.45	0.43	1.56	0.54	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.42	0.42	0.86	0.90	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.40	0.43	0.50	0.78	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.50	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	3.72	7.96	13.14	80.61	20.45	0.00	0.00	0.00	0.00	0.00	125.88 CMSDAY
Mean	0.00	0.00	0.12	0.26	0.42	2.69	0.66	0.00	0.00	0.00	0.00	0.00	0.34 CMS
Max	0.00	0.00	0.35	0.86	0.50	27.00	1.15	0.00	0.00	0.00	0.00	0.00	27.00 CMS
Min	0.00	0.00	0.00	0.00	0.40	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.32	0.69	1.14	6.96	1.77	0.00	0.00	0.00	0.00	0.00	10.88 MCM
Momentary Peak	30.80	CMS, at 142.90 m. (MSL), at 12.00 Hours, on Sep 25, 2021											
Runoff Yield	7.66	Liters/Second/Square KM.		Momentary Peak Yield		684.44	Liters/Second/Square KM.						

## WATER YEAR : 2021

## MUN RIVER BASIN

Huai Lam Phong at Ban Nikhom, Yasothon (M.157)

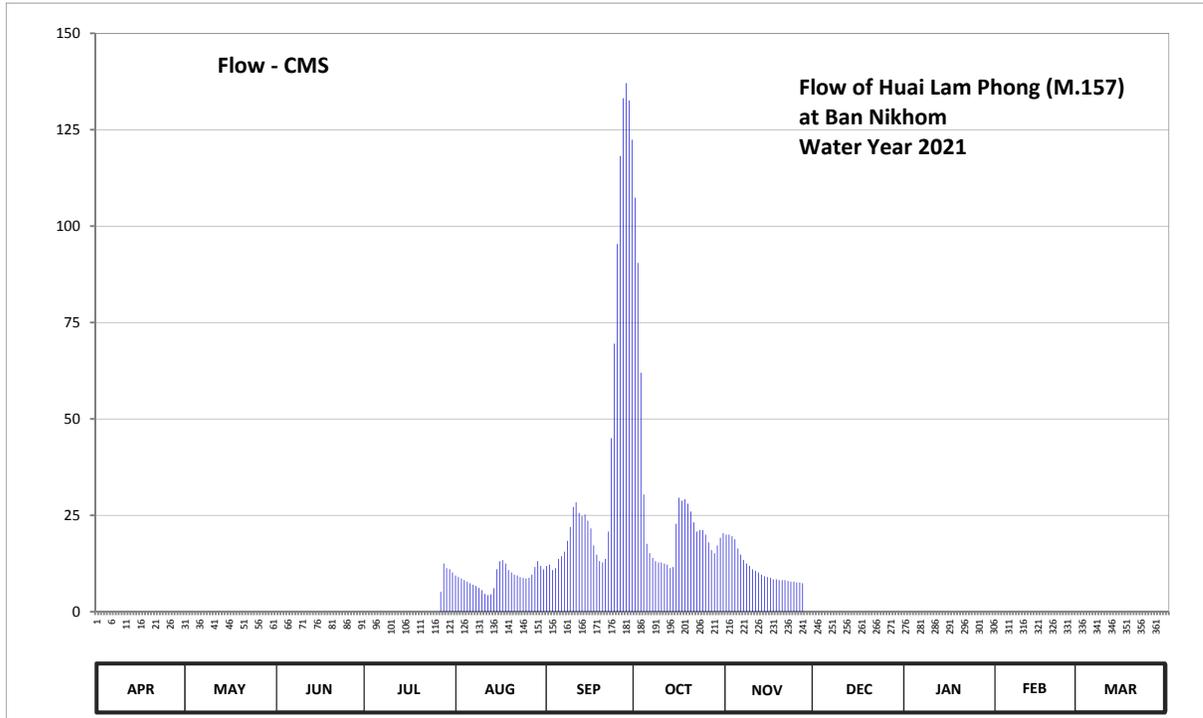
Lat 15 - 48 - 23 N Long 104 - 19 - 41 E

Location : on right bank at the bridge of Arun Prasoet road.

	Ban Nikhom	Amphoe Pa Tio	Changwat Yasothon
<b>Drainage Area</b>	731 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+121.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank upstream side of the footpath of the bridge.	<b>Elevation</b>	+131.518 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 - 1999, 2001 - 2010 , 2019 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1997 - 1999, 2001 - 2010 , 2019 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.10	123.02	122.97	122.90	125.52	125.63	127.64	125.85	125.41	125.48	125.21	125.31	
2	123.09	123.06	122.98	122.89	125.50	125.64	127.35	125.85	125.41	125.48	125.30	125.27	
3	123.08	123.06	122.96	122.88	125.48	125.59	126.78	125.84	125.40	125.38	125.43	125.23	
4	123.07	123.05	122.95	122.86	125.46	125.61	126.11	125.82	125.40	125.37	125.47	125.19	
5	123.06	123.05	122.95	122.83	125.44	125.69	125.79	125.76	125.40	125.36	125.48	125.16	
6	123.05	123.04	122.95	122.82	125.42	125.71	125.73	125.72	125.40	125.35	125.46	125.13	
7	123.04	123.04	122.96	122.82	125.40	125.74	125.70	125.68	125.40	125.35	125.47	125.11	
8	123.03	123.03	122.96	122.80	125.37	125.81	125.67	125.65	125.40	125.35	125.47	125.10	
9	123.02	123.03	122.96	122.77	125.32	125.90	125.66	125.63	125.39	125.35	125.46	125.10	
10	123.01	123.02	122.97	122.74	125.26	126.03	125.66	125.60	125.39	125.34	125.45	125.07	
11	123.00	123.02	122.98	122.70	125.16	126.06	125.65	125.58	125.39	125.33	125.45	125.02	
12	123.00	123.01	122.99	122.69	125.13	125.99	125.64	125.56	125.39	125.30	125.47	125.00	
13	122.99	123.00	123.00	122.67	125.15	125.97	125.61	125.53	125.39	125.27	125.49	124.99	
14	122.99	123.00	123.00	122.67	125.31	125.98	125.62	125.51	125.39	125.26	125.47	124.97	
15	122.99	122.99	123.00	122.66	125.60	125.94	125.92	125.50	125.40	125.25	125.48	124.95	
16	122.99	122.99	123.00	122.64	125.67	125.89	126.09	125.49	125.41	125.25	125.48	124.93	
17	122.99	123.00	123.00	122.60	125.68	125.78	126.07	125.47	125.42	125.24	125.47	124.91	
18	122.99	123.00	122.99	122.60	125.65	125.72	126.08	125.47	125.42	125.24	125.47	124.90	
19	122.99	123.00	122.99	122.61	125.59	125.67	126.05	125.46	125.41	125.23	125.46	124.92	
20	123.00	122.99	122.98	122.62	125.56	125.66	126.00	125.46	125.41	125.22	125.46	124.92	
21	123.00	122.98	122.96	122.62	125.53	125.69	125.93	125.46	125.40	125.18	125.46	124.91	
22	123.00	122.97	122.92	122.61	125.52	125.87	125.87	125.45	125.40	125.15	125.45	124.91	
23	123.00	122.95	122.90	122.62	125.50	126.44	125.88	125.44	125.40	125.14	125.44	124.91	
24	123.00	122.95	122.90	122.67	125.49	126.93	125.88	125.44	125.40	125.14	125.43	124.91	
25	123.00	122.95	122.93	122.80	125.48	127.44	125.85	125.43	125.40	125.12	125.40	124.92	
26	123.00	122.96	122.93	123.04	125.49	127.82	125.80	125.43	125.40	125.11	125.38	124.94	
27	123.00	122.96	122.92	125.22	125.53	128.07	125.75	125.42	125.40	125.09	125.37	125.06	
28	123.00	122.96	122.92	125.65	125.62	128.13	125.73	125.42	125.40	125.08	125.36	125.21	
29	123.00	122.96	122.91	125.61	125.67	128.06	125.78	125.42	125.39	125.08		125.35	
30	123.00	122.96	122.90	125.60	125.63	127.89	125.83	125.42	125.39	125.08		125.42	
31		122.96		125.56	125.60		125.86		125.39	125.16		125.43	
Mean	123.02	123.00	122.96	123.19	125.48	126.28	125.97	125.56	125.40	125.25	125.44	125.07	
Max	123.10	123.06	123.00	125.65	125.68	128.13	127.64	125.85	125.42	125.48	125.49	125.43	128.13
Min	122.99	122.95	122.90	122.60	125.13	125.59	125.61	125.42	125.39	125.08	125.21	124.90	122.60
Annual Max Momentary Gage Height	128.14		m. (MSL.) ,				at 09.00 Hours, on Sep 28, 2021						
Zero Gage at Bottom Elevation	121.50		m. (MSL.) ,			River Bed	122.75	m. (MSL)					
Left Bank Elevation		131.57		m. (MSL.) ,									
Right Bank Elevation		131.65		m. (MSL.) ,		Drainage Are	731	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	9.40	11.90	107.40	20.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	9.00	12.20	90.50	20.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	8.60	10.80	62.00	19.60	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	8.20	11.30	30.40	18.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	7.80	13.70	17.60	16.40	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	7.40	14.40	15.20	14.80	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	7.00	15.60	14.00	13.40	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	6.70	18.40	13.10	12.50	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	6.20	22.00	12.80	11.90	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	5.60	27.20	12.80	11.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	4.60	28.40	12.50	10.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	4.30	25.60	12.20	10.20	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	4.50	24.80	11.30	9.60	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	6.10	25.20	11.60	9.20	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	11.00	23.60	22.80	9.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	13.10	21.60	29.60	8.80	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	13.40	17.20	28.80	8.40	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	12.50	14.80	29.20	8.40	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	10.80	13.10	28.00	8.20	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	10.20	12.80	26.00	8.20	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	9.60	13.70	23.20	8.20	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	9.40	20.80	20.80	8.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	9.00	45.00	21.20	7.80	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	8.80	69.50	21.20	7.80	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	8.60	95.40	20.00	7.60	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	8.80	118.20	18.00	7.60	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	5.20	9.60	133.20	16.00	7.40	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	12.50	11.60	137.10	15.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	11.30	13.10	132.60	17.20	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	11.00	11.90	122.40	19.20	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	10.20	11.00		20.40	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	50.20	277.80	1252.50	800.20	303.40	0.00	0.00	0.00	0.00	2684.10 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	1.62	8.96	41.75	25.81	10.11	0.00	0.00	0.00	0.00	7.35 CMS
<b>Max</b>	0.00	0.00	0.00	12.50	13.40	137.10	107.40	20.00	0.00	0.00	0.00	0.00	137.10 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	4.30	10.80	11.30	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	4.34	24.00	108.22	69.14	26.21	0.00	0.00	0.00	0.00	231.91 MCM
<b>Momentary Peak</b>	137.80	CMS, at 128.14 m. (MSL), at 09.00 Hours, on Sep 28, 2021											
<b>Runoff Yield</b>	10.06	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		188.51	Liters/Second/Square KM.						

## WATER YEAR : 2021

## MUN RIVER BASIN

Lam Chi at Ban Lum Din, Surin (M.159)

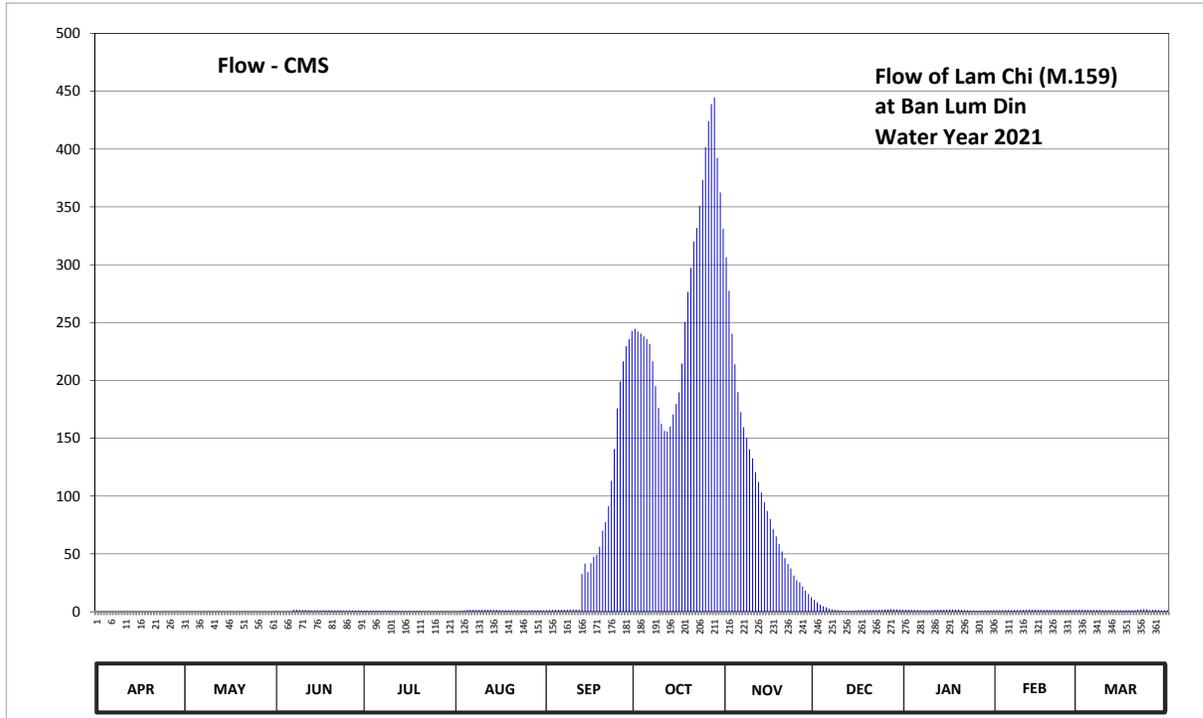
Lat 15 - 08 - 28 N Long 103 - 25 - 45 E

Location : on right bank at Ban Lum Din.

	<b>Ban Lum Din</b>	<b>Amphoe Chom Phra</b>	<b>Changwat Surin</b>
<b>Drainage Area</b>	4,765 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+120.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at staff gage line.		<b>Elevation</b> +131.079 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 44 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.84	123.14	123.14	122.92	122.14	123.09	128.76	130.38	124.94	123.36	123.09	123.20	
2	122.84	123.13	123.13	122.90	122.49	123.12	128.72	130.14	124.72	123.35	123.11	123.19	
3	122.84	123.12	123.12	122.87	122.69	123.18	128.69	129.79	124.45	123.33	123.13	123.19	
4	122.83	123.14	123.11	122.83	123.00	123.22	128.65	129.52	124.20	123.29	123.14	123.18	
5	122.83	123.19	123.10	122.80	123.25	123.19	128.61	129.24	123.94	123.19	123.14	123.18	
6	122.84	123.16	123.12	122.77	123.32	123.25	128.54	129.03	123.64	123.12	123.15	123.17	
7	122.84	123.15	123.23	122.76	123.31	123.26	128.29	128.86	123.40	123.08	123.16	123.16	
8	122.84	123.13	123.30	122.73	123.19	123.24	127.88	128.73	123.20	123.06	123.16	123.13	
9	122.85	123.13	123.22	122.72	123.17	123.37	127.49	128.59	123.03	123.10	123.17	123.08	
10	122.85	123.12	123.18	122.68	123.19	123.40	127.20	128.46	122.79	123.15	123.21	123.09	
11	122.86	123.12	123.19	122.65	123.19	123.33	127.07	128.26	122.57	123.20	123.24	123.10	
12	122.86	123.14	123.06	122.60	123.20	123.27	127.06	128.11	122.63	123.23	123.26	123.10	
13	122.86	123.26	123.02	122.58	123.22	123.47	127.15	127.94	122.60	123.26	123.28	123.11	
14	122.86	123.29	123.04	122.59	123.23	123.82	127.37	127.77	122.68	123.29	123.26	123.10	
15	122.87	123.16	123.05	122.57	123.19	123.53	127.56	127.60	122.95	123.32	123.25	123.08	
16	122.87	123.14	123.03	122.53	123.14	123.84	127.77	127.43	123.07	123.35	123.24	123.08	
17	122.87	123.12	123.10	122.50	123.08	124.06	128.26	127.21	123.11	123.35	123.24	123.06	
18	122.87	123.10	123.11	122.52	123.05	124.12	128.86	127.05	123.14	123.34	123.24	123.06	
19	122.89	123.09	123.08	122.61	123.09	124.36	129.28	126.89	123.18	123.30	123.24	123.05	
20	122.98	123.08	123.04	122.52	123.11	124.82	129.57	126.71	123.19	123.25	123.25	123.11	
21	123.07	123.08	123.00	122.32	123.10	125.06	129.87	126.54	123.15	123.16	123.24	123.30	
22	123.13	123.06	122.99	122.20	123.10	125.48	130.01	126.39	123.15	123.04	123.25	123.44	
23	123.19	123.03	122.98	122.15	123.07	126.08	130.21	126.26	123.24	122.95	123.25	123.51	
24	123.25	123.03	122.96	122.12	123.05	126.74	130.41	126.05	123.24	122.92	123.24	123.46	
25	123.30	123.07	122.96	122.14	123.03	127.48	130.61	125.89	123.29	122.90	123.23	123.09	
26	123.35	123.18	122.95	122.16	123.03	127.96	130.74	125.81	123.38	122.89	123.22	123.21	
27	123.23	123.27	122.94	122.14	123.05	128.29	130.82	125.66	123.49	122.94	123.20	123.21	
28	123.14	123.28	122.94	122.07	123.08	128.51	130.85	125.50	123.42	122.98	123.20	123.10	
29	123.13	123.15	122.92	121.90	123.08	128.61	130.82	125.32	123.40	123.01		122.98	
30	123.13	123.15	122.93	121.92	123.06	128.73	130.75	125.13	123.39	123.04		122.98	
31		123.18		121.99	123.04		130.57		123.38	123.06		123.07	
Mean	122.97	123.14	123.06	122.48	123.06	124.80	128.98	127.54	123.35	123.16	123.21	123.15	
Max	123.35	123.29	123.30	122.92	123.32	128.73	130.85	130.38	124.94	123.36	123.28	123.51	130.85
Min	122.83	123.03	122.92	121.90	122.14	123.09	127.06	125.13	122.57	122.89	123.09	122.98	121.90
Annual Max Momentary Gage Height	130.86		m. (MSL.) ,			at 04.00 Hours, on Oct 28, 2021							
Zero Gage at Bottom Elevation	120.90		m. (MSL.) ,			River Bed	120.79	m. (MSL.)					
Left Bank Elevation		132.20		m. (MSL.) ,									
Right Bank Elevation		132.26		m. (MSL.) ,		Drainage Area	4,765	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1.04	0.37	1.38	244.60	306.40	10.34	1.92	1.38	1.60		
2	0.00	0.00	0.00	1.00	0.59	1.44	242.20	277.40	8.08	1.90	1.42	1.58		
3	0.00	0.00	0.00	0.97	0.79	1.56	240.40	240.45	6.00	1.86	1.46	1.58		
4	0.00	0.00	0.00	0.93	1.20	1.64	238.00	213.80	4.70	1.78	1.48	1.56		
5	0.00	0.00	0.00	0.90	1.70	1.58	235.60	189.90	3.79	1.58	1.48	1.56		
6	0.00	0.00	0.00	0.87	1.84	1.70	231.40	172.40	2.74	1.44	1.50	1.54		
7	0.00	0.00	1.66	0.86	1.82	1.72	216.40	159.50	2.00	1.36	1.52	1.52		
8	0.00	0.00	1.80	0.83	1.58	1.68	195.00	150.10	1.60	1.32	1.52	1.46		
9	0.00	0.00	1.64	0.82	1.54	1.94	176.28	140.40	1.26	1.40	1.54	1.36		
10	0.00	0.00	1.56	0.78	1.58	2.00	162.50	132.60	0.89	1.50	1.62	1.38		
11	0.00	0.00	1.58	0.75	1.58	1.86	156.33	120.60	0.67	1.60	1.68	1.40		
12	0.00	0.00	1.32	0.70	1.60	1.74	155.85	112.05	0.73	1.66	1.72	1.40		
13	0.00	0.00	1.24	0.68	1.64	32.75	160.13	103.00	0.70	1.72	1.76	1.42		
14	0.00	0.00	1.28	0.69	1.66	41.50	170.58	94.65	0.78	1.78	1.72	1.40		
15	0.00	0.00	1.30	0.67	1.58	34.25	179.60	87.00	1.10	1.84	1.70	1.36		
16	0.00	0.00	1.26	0.63	1.48	42.00	189.58	80.20	1.34	1.90	1.68	1.36		
17	0.00	0.00	1.40	0.60	1.36	47.50	214.60	71.40	1.42	1.90	1.68	1.32		
18	0.00	0.00	1.42	0.62	1.30	49.10	250.60	65.00	1.48	1.88	1.68	1.32		
19	0.00	0.00	1.36	0.71	1.38	56.30	276.60	58.64	1.56	1.80	1.68	1.30		
20	0.00	0.00	1.28	0.62	1.42	70.10	297.25	52.16	1.58	1.70	1.70	1.42		
21	0.00	0.00	1.20	0.46	1.40	77.45	320.10	46.36	1.50	1.52	1.68	1.80		
22	0.00	0.00	1.18	0.40	1.40	91.30	331.90	41.30	1.50	1.28	1.70	2.12		
23	0.00	0.00	1.16	0.38	1.34	113.20	351.00	37.40	1.68	1.10	1.70	2.33		
24	0.00	0.00	1.12	0.36	1.30	140.65	373.30	31.30	1.68	1.04	1.68	2.18		
25	0.00	0.00	1.12	0.37	1.26	175.80	401.70	27.16	1.78	1.00	1.66	1.38		
26	0.00	0.00	1.10	0.38	1.26	199.00	424.20	25.24	1.96	0.99	1.64	1.62		
27	0.00	0.00	1.08	0.37	1.30	216.40	438.80	21.82	2.27	1.08	1.60	1.62		
28	0.00	0.00	1.08	0.34	1.36	229.60	444.50	18.30	2.06	1.16	1.60	1.40		
29	0.00	0.00	1.04	0.25	1.36	235.60	392.40	15.32	2.00	1.22		1.16		
30	0.00	0.00	1.06	0.26	1.32	242.80	362.50	12.49	1.98	1.28		1.16		
31	0.00	0.00		0.30	1.28		331.10		1.96	1.32		1.34		
<b>Total</b>	0.00	0.00	31.24	19.54	42.59	2115.54	8405.00	3104.34	73.13	46.83	45.18	46.95	13930.34	CMSDAY
<b>Mean</b>	0.00	0.00	1.04	0.63	1.37	70.52	271.13	103.48	2.36	1.51	1.61	1.51	38.17	CMS
<b>Max</b>	0.00	0.00	1.80	1.04	1.84	242.80	444.50	306.40	10.34	1.92	1.76	2.33	444.50	CMS
<b>Min</b>	0.00	0.00	0.00	0.25	0.37	1.38	155.85	12.49	0.67	0.99	1.38	1.16	0.00	CMS
<b>Runoff</b>	0.00	0.00	2.70	1.69	3.68	182.78	726.19	268.21	6.32	4.05	3.90	4.06	1203.58	MCM
<b>Momentary Peak</b>	446.40	CMS.	at 130.86 m. (MSL.)	at 04.00 Hours	, on Oct 28, 2021									
<b>Runoff Yield</b>	8.01	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	93.68	Liters/Second/Square KM.							

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Dom Yai at Ban Kham Samran, Ubon Ratehathani (M.170)

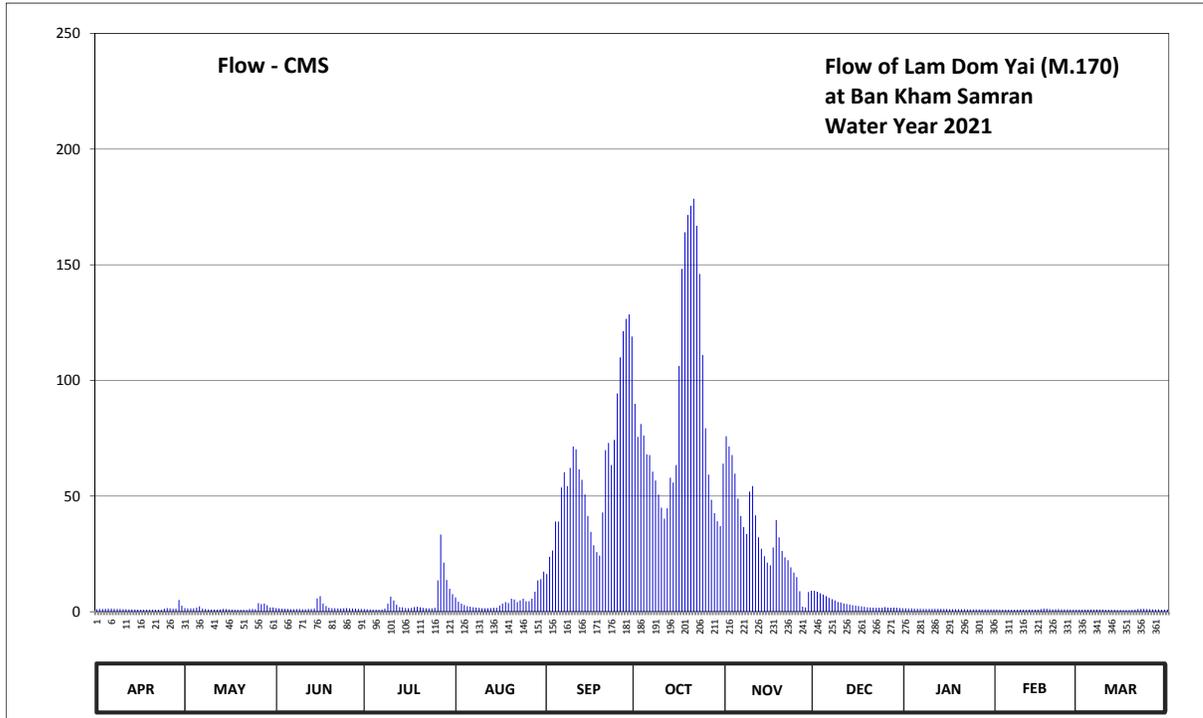
Lat 14 - 47 - 27 N Long 105 - 06 - 10 E

Location : on right bank at the bridge

	<b>Ban</b> Kham Samran	<b>Amphoe</b> Det Udom	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	1,744 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+123.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank upstream at the footpath	<b>Elevation</b>	+133.374 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable with variable water surface slope.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 84 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.86	124.10	124.10	123.88	124.52	125.08	127.60	127.18	124.68	124.04	123.80	123.75	
2	123.91	124.02	124.03	123.84	124.42	125.41	127.17	127.04	124.66	124.02	123.79	123.76	
3	123.93	124.02	123.96	123.81	124.35	125.52	127.34	126.92	124.62	124.01	123.79	123.76	
4	123.95	124.03	123.90	123.78	124.29	125.97	127.19	126.66	124.59	123.98	123.77	123.76	
5	123.97	124.14	123.88	123.77	124.24	125.97	126.93	126.30	124.55	123.96	123.75	123.77	
6	123.97	124.23	123.85	123.76	124.22	126.46	126.92	126.05	124.51	123.94	123.74	123.76	
7	123.95	123.98	123.85	123.80	124.18	126.68	126.69	125.89	124.48	123.93	123.73	123.78	
8	123.91	123.88	123.89	124.00	124.15	126.48	126.56	125.79	124.45	123.91	123.73	123.79	
9	123.91	123.83	123.91	124.35	124.11	126.74	126.36	126.40	124.41	123.90	123.73	123.77	
10	123.86	123.79	123.86	124.54	124.07	127.04	126.17	126.48	124.40	123.90	123.73	123.75	
11	123.84	123.77	123.86	124.45	124.06	127.00	126.01	126.06	124.36	123.90	123.72	123.74	
12	123.82	123.75	123.90	124.30	124.05	126.72	126.16	125.74	124.33	123.90	123.73	123.73	
13	123.80	123.77	123.92	124.20	124.10	126.57	126.60	125.55	124.31	123.90	123.75	123.73	
14	123.78	123.91	124.01	124.18	124.13	126.36	126.53	125.42	124.28	123.89	123.76	123.72	
15	123.77	123.87	124.50	124.09	124.13	126.05	126.78	125.31	124.26	123.88	123.77	123.71	
16	123.76	123.81	124.55	124.06	124.27	125.82	128.08	125.26	124.25	123.86	123.89	123.69	
17	123.74	123.77	124.36	124.11	124.35	125.61	129.15	125.57	124.23	123.84	124.00	123.68	
18	123.74	123.74	124.25	124.19	124.41	125.49	129.48	125.99	124.21	123.84	123.94	123.68	
19	123.74	123.75	124.12	124.21	124.38	125.43	129.63	125.74	124.18	123.84	123.87	123.71	
20	123.76	123.73	124.07	124.18	124.49	126.10	129.71	125.51	124.16	123.85	123.82	123.75	
21	123.74	123.73	124.06	124.11	124.47	126.99	129.77	125.40	124.15	123.84	123.85	123.89	
22	123.73	123.72	124.02	124.06	124.41	127.09	129.74	125.35	124.13	123.83	123.88	123.93	
23	123.76	123.88	123.99	124.01	124.45	126.78	129.62	125.22	124.12	123.82	123.83	123.92	
24	123.94	123.90	124.06	124.02	124.49	127.13	129.20	125.11	124.13	123.82	123.81	123.88	
25	124.09	123.86	124.08	124.12	124.43	127.73	128.41	125.01	124.19	123.83	123.80	123.85	
26	124.01	124.37	124.02	124.93	124.43	128.19	127.63	124.67	124.14	123.81	123.79	123.83	
27	123.94	124.33	123.98	125.78	124.49	128.50	127.09	124.22	124.12	123.81	123.77	123.78	
28	124.00	124.36	123.94	125.31	124.66	128.64	126.74	124.16	124.14	123.81	123.75	123.80	
29	124.46	124.28	123.92	124.94	124.93	128.69	126.53	124.65	124.13	123.81		123.75	
30	124.26	124.17	123.90	124.73	124.96	128.44	126.40	124.68	124.09	123.80		123.74	
31		124.16		124.60	125.13		126.80		124.07	123.80		123.78	
Mean	123.90	123.96	124.02	124.26	124.38	126.69	127.58	125.64	124.30	123.88	123.80	123.77	
Max	124.46	124.37	124.55	125.78	125.13	128.69	129.77	127.18	124.68	124.04	124.00	123.93	129.77
Min	123.73	123.72	123.85	123.76	124.05	125.08	126.01	124.16	124.07	123.80	123.72	123.68	123.68
Annual Max Momentary Gage Height	129.79		m. (MSL.) ,				at 12.00 Hours, on Oct 21, 2021						
Zero Gage at Bottom Elevation	123.30		m. (MSL.) ,			River Bed	122.88	m. (MSL.)					
Left Bank Elevation		133.07		m. (MSL.) ,									
Right Bank Elevation		133.10		m. (MSL.) ,		Drainage Area	1,744	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.12	1.60	1.60	1.16	6.16	16.32	89.90	75.86	9.04	1.48	1.00	0.90	
2	1.22	1.44	1.46	1.08	4.36	23.75	75.54	71.44	8.68	1.44	0.98	0.92	
3	1.26	1.44	1.32	1.02	3.50	26.50	81.12	67.72	7.96	1.42	0.98	0.92	
4	1.30	1.46	1.20	0.96	2.90	39.00	76.18	59.70	7.42	1.36	0.94	0.92	
5	1.34	1.76	1.16	0.94	2.40	39.00	68.03	48.90	6.70	1.32	0.90	0.94	
6	1.34	2.30	1.10	0.92	2.20	53.70	67.72	41.40	5.98	1.28	0.88	0.92	
7	1.30	1.36	1.10	1.00	1.92	60.30	60.60	36.60	5.44	1.26	0.86	0.96	
8	1.22	1.16	1.18	1.40	1.80	54.30	56.70	33.61	4.90	1.22	0.86	0.98	
9	1.22	1.06	1.22	3.50	1.64	62.14	50.70	51.90	4.18	1.20	0.86	0.94	
10	1.12	0.98	1.12	6.52	1.54	71.44	45.00	54.30	4.00	1.20	0.86	0.90	
11	1.08	0.94	1.12	4.90	1.52	70.20	40.20	41.70	3.60	1.20	0.84	0.88	
12	1.04	0.90	1.20	3.00	1.50	61.52	44.70	32.16	3.30	1.20	0.86	0.86	
13	1.00	0.94	1.24	2.00	1.60	57.00	57.90	27.25	3.10	1.20	0.90	0.86	
14	0.96	1.22	1.42	1.92	1.72	50.70	55.80	24.00	2.80	1.18	0.92	0.84	
15	0.94	1.14	5.80	1.58	1.72	41.40	63.38	21.25	2.60	1.16	0.94	0.82	
16	0.92	1.02	6.70	1.52	2.70	34.50	106.22	20.08	2.50	1.12	1.18	0.78	
17	0.88	0.94	3.60	1.64	3.50	28.75	148.20	27.75	2.30	1.08	1.40	0.76	
18	0.88	0.88	2.50	1.96	4.18	25.75	164.00	39.60	2.10	1.08	1.28	0.76	
19	0.88	0.90	1.68	2.10	3.80	24.25	171.50	32.16	1.92	1.08	1.14	0.82	
20	0.92	0.86	1.54	1.92	5.62	42.90	175.50	26.25	1.84	1.10	1.04	0.90	
21	0.88	0.86	1.52	1.64	5.26	69.89	178.50	23.50	1.80	1.08	1.10	1.18	
22	0.86	0.84	1.44	1.52	4.18	72.99	166.80	22.25	1.72	1.06	1.16	1.26	
23	0.92	1.16	1.38	1.42	4.90	63.38	146.00	19.16	1.68	1.04	1.06	1.24	
24	1.28	1.20	1.52	1.44	5.62	74.26	111.00	16.90	1.72	1.04	1.02	1.16	
25	1.58	1.12	1.56	1.68	4.54	94.32	79.30	14.99	1.96	1.06	1.00	1.10	
26	1.42	3.70	1.44	13.54	4.54	109.96	59.25	8.86	1.76	1.02	0.98	1.06	
27	1.28	3.30	1.36	33.32	5.62	121.20	48.39	2.20	1.68	1.02	0.94	0.96	
28	1.40	3.60	1.28	21.25	8.68	126.56	42.61	1.84	1.76	1.02	0.90	1.00	
29	5.08	2.80	1.24	13.72	13.54	128.51	39.15	8.50	1.72	1.02		0.90	
30	2.60	1.88	1.20	9.94	14.08	118.98	37.00	9.04	1.58	1.00		0.88	
31		1.84		7.60	17.30		64.00		1.54	1.00		0.96	
<b>Total</b>	<b>39.24</b>	<b>46.60</b>	<b>53.20</b>	<b>148.11</b>	<b>144.54</b>	<b>1863.47</b>	<b>2670.89</b>	<b>960.87</b>	<b>109.28</b>	<b>35.94</b>	<b>27.78</b>	<b>29.28</b>	<b>6129.20</b> CMSDAY
<b>Mean</b>	<b>1.31</b>	<b>1.50</b>	<b>1.77</b>	<b>4.78</b>	<b>4.66</b>	<b>62.12</b>	<b>86.16</b>	<b>32.03</b>	<b>3.53</b>	<b>1.16</b>	<b>0.99</b>	<b>0.94</b>	<b>16.79</b> CMS
<b>Max</b>	<b>5.08</b>	<b>3.70</b>	<b>6.70</b>	<b>33.32</b>	<b>17.30</b>	<b>128.51</b>	<b>178.50</b>	<b>75.86</b>	<b>9.04</b>	<b>1.48</b>	<b>1.40</b>	<b>1.26</b>	<b>178.50</b> CMS
<b>Min</b>	<b>0.86</b>	<b>0.84</b>	<b>1.10</b>	<b>0.92</b>	<b>1.50</b>	<b>16.32</b>	<b>37.00</b>	<b>1.84</b>	<b>1.54</b>	<b>1.00</b>	<b>0.84</b>	<b>0.76</b>	<b>0.76</b> CMS
<b>Runoff</b>	<b>3.39</b>	<b>4.03</b>	<b>4.60</b>	<b>12.80</b>	<b>12.49</b>	<b>161.00</b>	<b>230.76</b>	<b>83.02</b>	<b>9.44</b>	<b>3.11</b>	<b>2.40</b>	<b>2.53</b>	<b>529.56</b> MCM
<b>Momentary Peak</b>	179.50 CMS. at 129.79 m. (MSL.) at 12.00 Hours , on Oct 21, 2021												
<b>Runoff Yield</b>	9.63 Liters/Second/Square KM.			Momentary Peak Yield			102.92 Liters/Second/Square KM.						

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima (M.171)

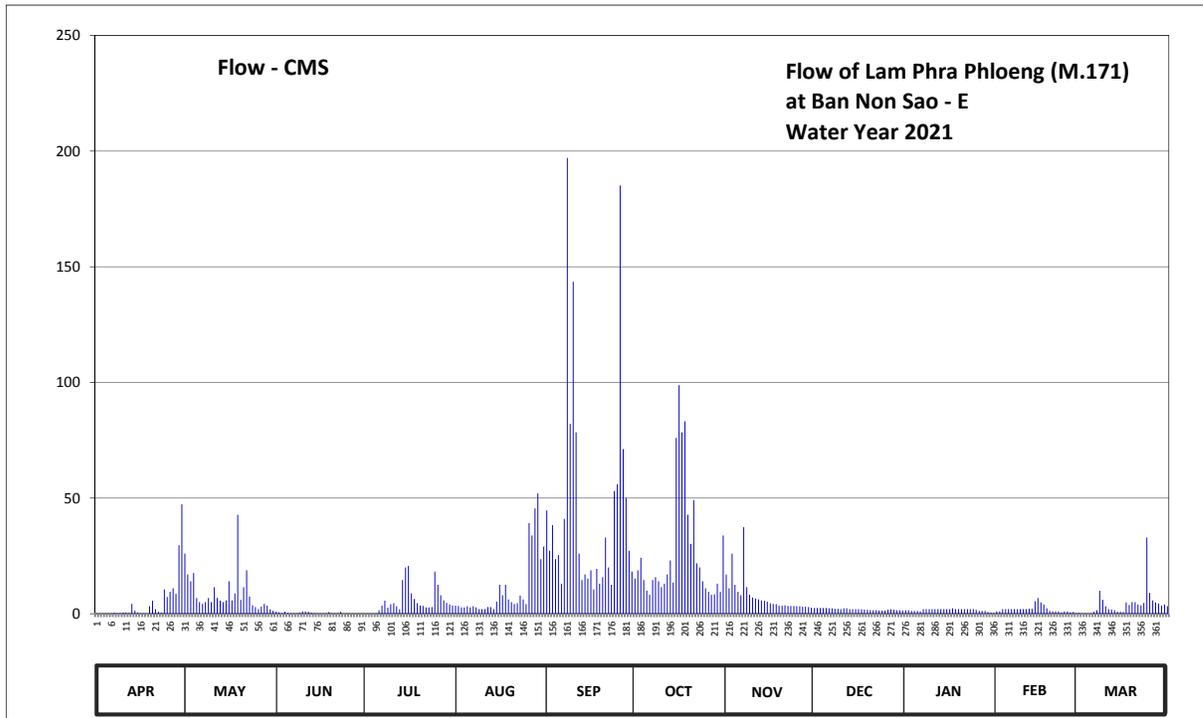
Lat 14 - 30 - 05 N Long 101 - 46 - 07 E

Location : on right bank at Ban Non Sao - E.

	<b>Ban Non Sao - E</b>	<b>Amphoe Wang Nam Khieo</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	561 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+272.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream at the footpath	<b>Elevation</b>	+280.170 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2002 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2002 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2002 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 48 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	272.60	273.50	272.69	272.48	272.90	273.74	273.32	273.35	272.83	272.75	272.70	272.62	
2	272.60	273.35	272.66	272.45	272.89	273.52	273.38	273.24	272.83	272.75	272.70	272.60	
3	272.60	273.30	272.61	272.45	272.85	273.67	273.47	273.50	272.83	272.72	272.80	272.60	
4	272.60	273.36	272.69	272.45	272.85	273.46	273.31	273.27	272.83	272.72	272.80	272.60	
5	272.60	273.09	272.63	272.60	272.88	273.49	273.22	273.21	272.83	272.72	272.80	272.60	
6	272.60	273.00	272.60	272.75	272.85	273.28	273.16	273.15	272.82	272.70	272.80	272.68	
7	272.64	272.95	272.60	272.90	272.88	273.70	273.31	273.66	272.82	272.80	272.80	272.75	
8	272.60	273.00	272.60	273.03	272.85	274.90	273.33	273.25	272.81	272.80	272.80	273.22	
9	272.62	273.09	272.65	272.84	272.80	274.10	273.30	273.16	272.81	272.80	272.80	273.05	
10	272.65	273.00	272.70	272.94	272.80	274.57	273.25	273.10	272.80	272.80	272.80	272.88	
11	272.65	273.25	272.70	272.97	272.80	274.07	273.28	273.08	272.82	272.80	272.80	272.80	
12	272.62	273.09	272.69	272.88	272.86	273.50	273.35	273.06	272.82	272.80	272.81	272.78	
13	272.95	273.03	272.64	272.79	272.86	273.31	273.45	273.04	272.80	272.80	272.81	272.75	
14	272.74	273.00	272.62	273.31	272.80	273.35	273.29	273.03	272.80	272.80	273.02	272.69	
15	272.65	273.04	272.60	273.40	273.01	273.32	274.05	273.01	272.80	272.80	273.09	272.68	
16	272.60	273.30	272.60	273.41	273.27	273.38	274.24	272.97	272.80	272.80	272.99	272.67	
17	272.59	273.04	272.60	273.19	273.15	273.23	274.07	272.95	272.79	272.82	272.93	272.99	
18	272.54	273.19	272.59	273.07	273.27	273.39	274.11	272.94	272.78	272.80	272.82	272.92	
19	272.88	273.72	272.67	272.97	273.06	273.28	273.72	272.90	272.77	272.80	272.72	273.00	
20	273.03	273.05	272.62	272.90	273.00	273.33	273.57	272.90	272.76	272.80	272.70	273.00	
	272.80	273.25	272.59	272.89	272.95	273.61	273.79	272.91	272.75	272.80	272.70	272.93	
21													
22	272.68	273.38	272.61	272.85	272.97	273.40	273.43	272.89	272.75	272.80	272.70	272.91	
23	272.64	273.12	272.69	272.85	273.14	273.27	273.40	272.89	272.74	272.80	272.64	272.98	
24	273.23	272.91	272.53	272.86	273.06	273.83	273.30	272.89	272.74	272.80	272.70	273.61	
25	273.11	272.86	272.50	273.37	272.94	273.86	273.24	272.88	272.74	272.77	272.70	273.20	
26	273.21	272.80	272.50	273.27	273.68	274.83	273.21	272.88	272.77	272.72	272.66	273.04	
27	273.24	272.87	272.50	273.15	273.62	274.01	273.16	272.87	272.79	272.72	272.68	272.99	
28	273.18	272.95	272.48	273.04	273.75	273.80	273.17	272.87	272.77	272.72	272.62	272.96	
29	273.56	272.90	272.46	272.98	273.82	273.52	273.28	272.86	272.75	272.67		272.90	
30	273.77	272.79	272.46	272.93	273.46	273.37	273.21	272.84	272.75	272.65		272.93	
31		272.73		272.90	273.55		273.62		272.74	272.63		272.88	
Mean	272.83	273.09	272.60	272.93	273.08	273.67	273.45	273.05	272.79	272.76	272.78	272.88	
Max	273.77	273.72	272.70	273.41	273.82	274.90	274.24	273.66	272.83	272.82	273.09	273.61	274.90
Min	272.54	272.73	272.46	272.45	272.80	273.23	273.16	272.84	272.74	272.63	272.62	272.60	272.45
Annual Max Momentary Gage Height	275.21		m. (MSL.) ,			at 06.00 Hours, on Sep 8, 2021							
Zero Gage at Bottom Elevation	272.20		m. (MSL.) ,			River Bed	272.11	m. (MSL.)					
Left Bank Elevation		279.40		m. (MSL.) ,									
Right Bank Elevation		280.09		m. (MSL.) ,		Drainage Are	561	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	26.00	0.91	0.04	3.50	44.60	15.20	17.00	2.45	1.50	1.00	0.28	
2	0.10	17.00	0.64	0.03	3.35	27.20	18.80	11.00	2.45	1.50	1.00	0.10	
3	0.10	14.00	0.19	0.03	2.75	38.30	24.20	26.00	2.45	1.20	2.00	0.10	
4	0.10	17.60	0.91	0.03	2.75	23.60	14.60	12.50	2.45	1.20	2.00	0.10	
5	0.10	6.80	0.37	0.10	3.20	25.40	10.00	9.50	2.45	1.20	2.00	0.10	
6	0.10	5.00	0.10	1.50	2.75	13.00	8.20	8.00	2.30	1.00	2.00	0.82	
7	0.46	4.25	0.10	3.50	3.20	41.00	14.60	37.40	2.30	2.00	2.00	1.50	
8	0.10	5.00	0.10	5.60	2.75	197.00	15.80	11.50	2.15	2.00	2.00	10.00	
9	0.28	6.80	0.55	2.60	2.00	82.00	14.00	8.20	2.15	2.00	2.00	6.00	
10	0.55	5.00	1.00	4.10	2.00	143.50	11.50	7.00	2.00	2.00	2.00	3.20	
11	0.55	11.50	1.00	4.55	2.00	78.40	13.00	6.60	2.30	2.00	2.00	2.00	
12	0.28	6.80	0.91	3.20	2.90	26.00	17.00	6.20	2.30	2.00	2.15	1.80	
13	4.25	5.60	0.46	1.90	2.90	14.60	23.00	5.80	2.00	2.00	2.15	1.50	
14	1.40	5.00	0.28	14.60	2.00	17.00	13.50	5.60	2.00	2.00	5.40	0.91	
15	0.55	5.80	0.10	20.00	5.20	15.20	76.00	5.20	2.00	2.00	6.80	0.82	
16	0.10	14.00	0.10	20.60	12.50	18.80	98.80	4.55	2.00	2.00	4.85	0.73	
17	0.10	5.80	0.10	8.80	8.00	10.50	78.40	4.25	1.90	2.30	3.95	4.85	
18	0.07	8.80	0.10	6.40	12.50	19.40	83.20	4.10	1.80	2.00	2.30	3.80	
19	3.20	42.80	0.73	4.55	6.20	13.00	42.80	3.50	1.70	2.00	1.20	5.00	
20	5.60	6.00	0.28	3.50	5.00	15.80	30.20	3.50	1.60	2.00	1.00	5.00	
21	2.00	11.50	0.10	3.35	4.25	32.90	49.10	3.65	1.50	2.00	1.00	3.95	
22	0.82	18.80	0.19	2.75	4.55	20.00	21.80	3.35	1.50	2.00	1.00	3.65	
23	0.46	7.40	0.91	2.75	7.80	12.50	20.00	3.35	1.40	2.00	0.46	4.70	
24	10.50	3.65	0.07	2.90	6.20	53.00	14.00	3.35	1.40	2.00	1.00	32.90	
25	7.20	2.90	0.05	18.20	4.10	56.00	11.00	3.20	1.40	1.70	1.00	9.00	
26	9.50	2.00	0.05	12.50	39.20	185.10	9.50	3.20	1.70	1.20	0.64	5.80	
27	11.00	3.05	0.05	8.00	33.80	71.20	8.20	3.05	1.90	1.20	0.82	4.85	
28	8.60	4.25	0.04	5.80	45.50	50.00	8.40	3.05	1.70	1.20	0.28	4.40	
29	29.60	3.50	0.03	4.70	52.00	27.20	13.00	2.90	1.50	0.73		3.50	
30	47.30	1.90	0.03	3.95	23.60	18.20	9.50	2.60	1.50	0.55		3.95	
31		1.30		3.50	29.00		33.80		1.40	0.37		3.20	
<b>Total</b>	145.07	279.80	10.45	174.03	337.45	1390.40	821.10	229.10	59.65	50.85	56.00	128.51	3682.41 CMSDAY
<b>Mean</b>	4.84	9.03	0.35	5.61	10.89	46.35	26.49	7.64	1.92	1.64	2.00	4.15	10.09 CMS
<b>Max</b>	47.30	42.80	1.00	20.60	52.00	197.00	98.80	37.40	2.45	2.30	6.80	32.90	197.00 CMS
<b>Min</b>	0.07	1.30	0.03	0.03	2.00	10.50	8.20	2.60	1.40	0.37	0.28	0.10	0.03 CMS
<b>Runoff</b>	12.53	24.17	0.90	15.04	29.16	120.13	70.94	19.79	5.15	4.39	4.84	11.10	318.16 MCM
<b>Momentary Peak</b>		254.90 CMS.		at 275.21 m. (MSL.)		at 06.00 Hours ,		on Sep 8, 2021					
<b>Runoff Yield</b>		17.98		Liters/Second/Square KM.		Momentary Peak Yield	454.37			Liters/Second/Square KM.			

## WATER YEAR : 2021

## MUN RIVER BASIN

## Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima (M.172)

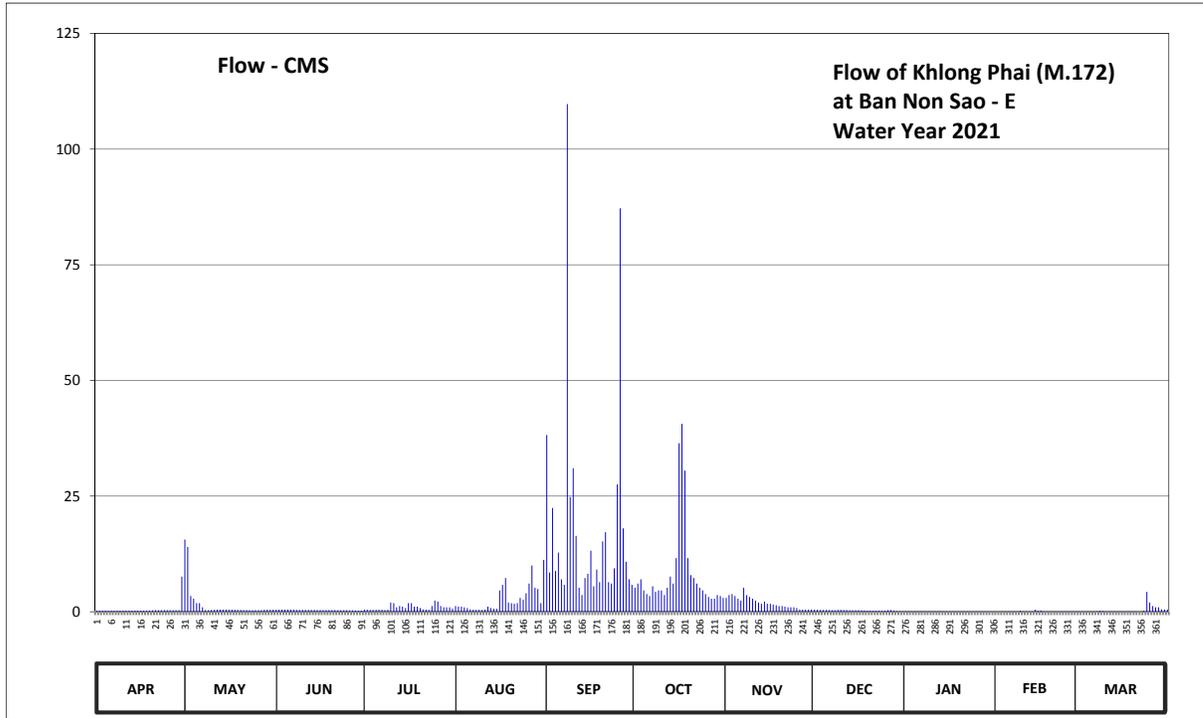
Lat 14 - 29 - 21 N Long 101 - 46 - 34 E

Location : on right bank at the bridge.

<b>Ban</b>	Non Sao - E	<b>Amphoe</b>	Wang Nam Khieo	<b>Changwat</b>	Nakhon Ratchasima
<b>Drainage Area</b>	143	sq.km.			
<b>Type of Gage</b>	Staff gage.				
<b>Zero Gage at Bottom</b>	+293.200 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.			<b>Elevation</b>	+299.100 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings				
<b>Period of Available Gage Records</b>	2003 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	2003 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	2003 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	293.10	293.74	293.17	293.17	293.25	294.22	293.44	293.35	293.18	293.04	293.01	293.02	
2	293.10	293.70	293.17	293.18	293.24	293.55	293.47	293.38	293.16	293.04	293.01	293.02	
3	293.10	293.37	293.17	293.16	293.24	293.91	293.50	293.39	293.15	293.04	293.02	293.02	
4	293.10	293.34	293.17	293.16	293.23	293.56	293.42	293.37	293.15	293.04	293.02	293.02	
5	293.10	293.29	293.17	293.17	293.22	293.67	293.39	293.34	293.15	293.04	293.02	293.02	
6	293.10	293.29	293.17	293.19	293.20	293.50	293.37	293.32	293.15	293.04	293.02	293.02	
7	293.10	293.23	293.17	293.17	293.17	293.46	293.45	293.44	293.14	293.04	293.02	293.02	
8	293.10	293.14	293.16	293.15	293.16	295.23	293.41	293.38	293.14	293.04	293.01	293.09	
9	293.10	293.14	293.16	293.18	293.16	293.97	293.42	293.36	293.16	293.04	293.09	293.07	
10	293.10	293.15	293.16	293.30	293.15	294.10	293.42	293.34	293.16	293.04	293.02	293.03	
11	293.10	293.16	293.16	293.29	293.18	293.76	293.38	293.32	293.15	293.04	293.02	293.02	
12	293.10	293.17	293.16	293.23	293.24	293.44	293.44	293.30	293.15	293.04	293.02	293.02	
13	293.10	293.18	293.16	293.25	293.22	293.38	293.52	293.28	293.14	293.04	293.02	293.02	
14	293.10	293.18	293.16	293.24	293.21	293.51	293.47	293.31	293.14	293.03	293.18	293.02	
15	293.10	293.18	293.15	293.22	293.21	293.54	293.64	293.28	293.13	293.03	293.10	293.02	
16	293.10	293.18	293.15	293.29	293.42	293.68	294.19	293.28	293.13	293.03	293.11	293.02	
17	293.10	293.17	293.15	293.29	293.46	293.45	294.26	293.27	293.12	293.03	293.03	293.02	
18	293.10	293.17	293.15	293.24	293.51	293.57	294.09	293.26	293.11	293.03	293.03	293.03	
19	293.11	293.16	293.15	293.24	293.30	293.48	293.64	293.25	293.10	293.03	293.02	293.03	
20	293.12	293.16	293.15	293.22	293.29	293.73	293.53	293.25	293.09	293.03	293.02	293.03	
21	293.13	293.15	293.15	293.19	293.28	293.78	293.51	293.24	293.08	293.02	293.02	292.99	
22	293.13	293.15	293.14	293.18	293.29	293.48	293.47	293.23	293.08	293.02	293.01	292.98	
23	293.13	293.14	293.14	293.16	293.35	293.47	293.44	293.23	293.08	293.02	293.02	293.09	
24	293.13	293.14	293.14	293.25	293.33	293.58	293.42	293.23	293.08	293.02	293.02	293.41	
25	293.13	293.14	293.13	293.32	293.40	294.03	293.39	293.22	293.10	293.02	293.02	293.30	
26	293.13	293.13	293.12	293.31	293.47	294.96	293.36	293.19	293.14	293.02	293.02	293.25	
27	293.13	293.13	293.12	293.25	293.60	293.80	293.34	293.19	293.15	293.02	293.02	293.23	
28	293.13	293.18	293.11	293.23	293.44	293.62	293.34	293.19	293.09	293.02	293.02	293.23	
29	293.14	293.18	293.10	293.23	293.43	293.50	293.38	293.19	293.05	293.01		293.20	
30	293.52	293.17	293.10	293.23	293.29	293.46	293.37	293.19	293.04	293.01		293.19	
31		293.17		293.21	293.63		293.35		293.04	293.01		293.17	
Mean	293.12	293.22	293.15	293.22	293.31	293.75	293.51	293.29	293.12	293.03	293.03	293.08	
Max	293.52	293.74	293.17	293.32	293.63	295.23	294.26	293.44	293.18	293.04	293.18	293.41	295.23
Min	293.10	293.13	293.10	293.15	293.15	293.38	293.34	293.19	293.04	293.01	293.01	292.98	292.98
Annual Max Momentary Gage Height	296.14		m. (MSL.) ,										at 06.00 Hours, on Sep 8, 2021
Zero Gage at Bottom Elevation	293.20		m. (MSL.) ,			River Bed	292.45	m. (MSL.)					
Left Bank Elevation	299.11		m. (MSL.) ,										
Right Bank Elevation	299.07		m. (MSL.) ,			Drainage Are	143	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	15.60	0.43	0.43	1.25	38.20	5.20	3.00	0.45	0.10	0.03	0.05	
2	0.25	14.00	0.43	0.45	1.10	8.50	6.10	3.60	0.40	0.10	0.03	0.05	
3	0.25	3.40	0.43	0.40	1.10	22.40	7.00	3.80	0.38	0.10	0.05	0.05	
4	0.25	2.80	0.43	0.40	0.95	8.80	4.60	3.40	0.38	0.10	0.05	0.05	
5	0.25	1.85	0.43	0.43	0.80	12.80	3.80	2.80	0.38	0.10	0.05	0.05	
6	0.25	1.85	0.43	0.48	0.50	7.00	3.40	2.40	0.38	0.10	0.05	0.08	
7	0.25	0.95	0.43	0.43	0.43	5.80	5.50	5.20	0.35	0.10	0.05	0.08	
8	0.25	0.35	0.40	0.38	0.40	109.70	4.30	3.60	0.35	0.10	0.03	0.23	
9	0.25	0.35	0.40	0.45	0.40	24.80	4.60	3.20	0.40	0.10	0.23	0.18	
10	0.25	0.38	0.40	2.00	0.38	31.00	4.60	2.80	0.40	0.10	0.05	0.08	
11	0.25	0.40	0.40	1.85	0.45	16.40	3.60	2.40	0.38	0.10	0.05	0.05	
12	0.25	0.43	0.40	0.95	1.10	5.20	5.20	2.00	0.38	0.10	0.05	0.05	
13	0.25	0.45	0.40	1.25	0.80	3.60	7.60	1.70	0.35	0.10	0.05	0.05	
14	0.25	0.45	0.40	1.10	0.65	7.30	6.10	2.20	0.35	0.08	0.45	0.05	
15	0.25	0.45	0.38	0.80	0.65	8.20	11.60	1.70	0.33	0.08	0.25	0.05	
16	0.25	0.45	0.38	1.85	4.60	13.20	36.40	1.70	0.33	0.08	0.28	0.05	
17	0.25	0.43	0.38	1.85	5.80	5.50	40.60	1.55	0.30	0.08	0.08	0.05	
18	0.25	0.43	0.38	1.10	7.30	9.10	30.50	1.40	0.28	0.08	0.08	0.08	
19	0.28	0.40	0.38	1.10	2.00	6.40	11.60	1.25	0.25	0.08	0.05	0.08	
20	0.30	0.40	0.38	0.80	1.85	15.20	7.90	1.25	0.23	0.08	0.05	0.08	
21	0.33	0.38	0.38	0.48	1.70	17.20	7.30	1.10	0.20	0.05	0.05	0.00	
22	0.33	0.38	0.35	0.45	1.85	6.40	6.10	0.95	0.20	0.05	0.03	0.00	
23	0.33	0.35	0.35	0.40	3.00	6.10	5.20	0.95	0.20	0.05	0.05	0.23	
24	0.33	0.35	0.35	1.25	2.60	9.40	4.60	0.95	0.20	0.05	0.05	4.30	
25	0.33	0.35	0.33	2.40	4.00	27.50	3.80	0.80	0.25	0.05	0.05	2.00	
26	0.33	0.33	0.30	2.20	6.10	87.20	3.20	0.48	0.35	0.05	0.05	1.25	
27	0.33	0.33	0.30	1.25	10.00	18.00	2.80	0.48	0.38	0.05	0.05	0.95	
28	0.33	0.45	0.28	0.95	5.20	10.80	2.80	0.48	0.23	0.05	0.05	0.95	
29	0.35	0.45	0.25	0.95	4.90	7.00	3.60	0.48	0.13	0.03	0.03	0.50	
30	7.60	0.43	0.25	0.95	1.85	5.80	3.40	0.48	0.10	0.03	0.03	0.48	
31		0.43		0.65	11.20		3.00		0.10	0.03		0.43	
<b>Total</b>	15.67	50.05	11.23	30.43	84.91	554.50	256.00	58.10	9.39	2.35	2.39	12.58	1087.60 CMSDAY
<b>Mean</b>	0.52	1.61	0.37	0.98	2.74	18.48	8.26	1.94	0.30	0.08	0.09	0.41	2.98 CMS
<b>Max</b>	7.60	15.60	0.43	2.40	11.20	109.70	40.60	5.20	0.45	0.10	0.45	4.30	109.70 CMS
<b>Min</b>	0.25	0.33	0.25	0.38	0.38	3.60	2.80	0.48	0.10	0.03	0.03	0.00	0.00 CMS
<b>Runoff</b>	1.35	4.32	0.97	2.63	7.34	47.91	22.12	5.02	0.81	0.20	0.21	1.09	93.97 MCM
<b>Momentary Peak</b>	196.00	CMS. at 296.14 m. (MSL.) at 06.00 Hours , on Sep 8, 2021											
<b>Runoff Yield</b>	20.84	Liters/Second/Square KM. Momentary Peak Yield 1370.63 Liters/Second/Square KM.											

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Non Sa - at, Nakhon Ratchasima (M.173)

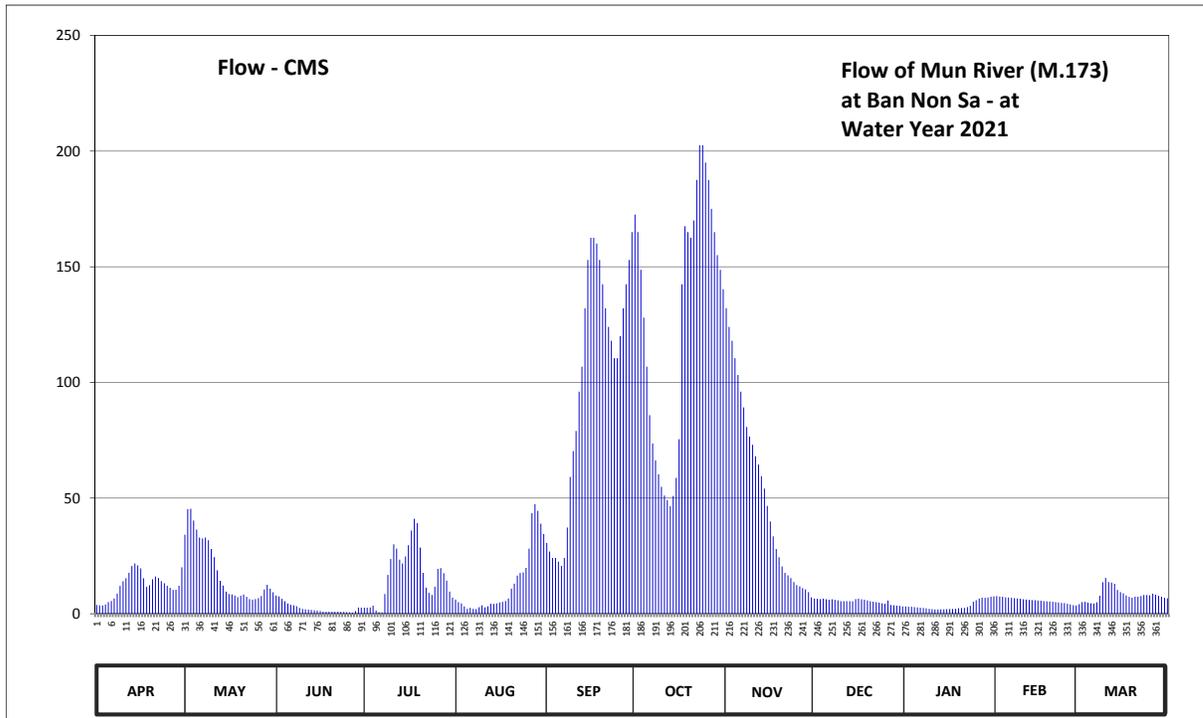
Lat 14 - 44 - 42 N Long 102 - 12 - 42 E

Location : on right bank at Ban Non Sa - at.

	<b>Ban Non Sa - at</b>	<b>Amphoe Chok Chai</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	4,222 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+174.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+183.884 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

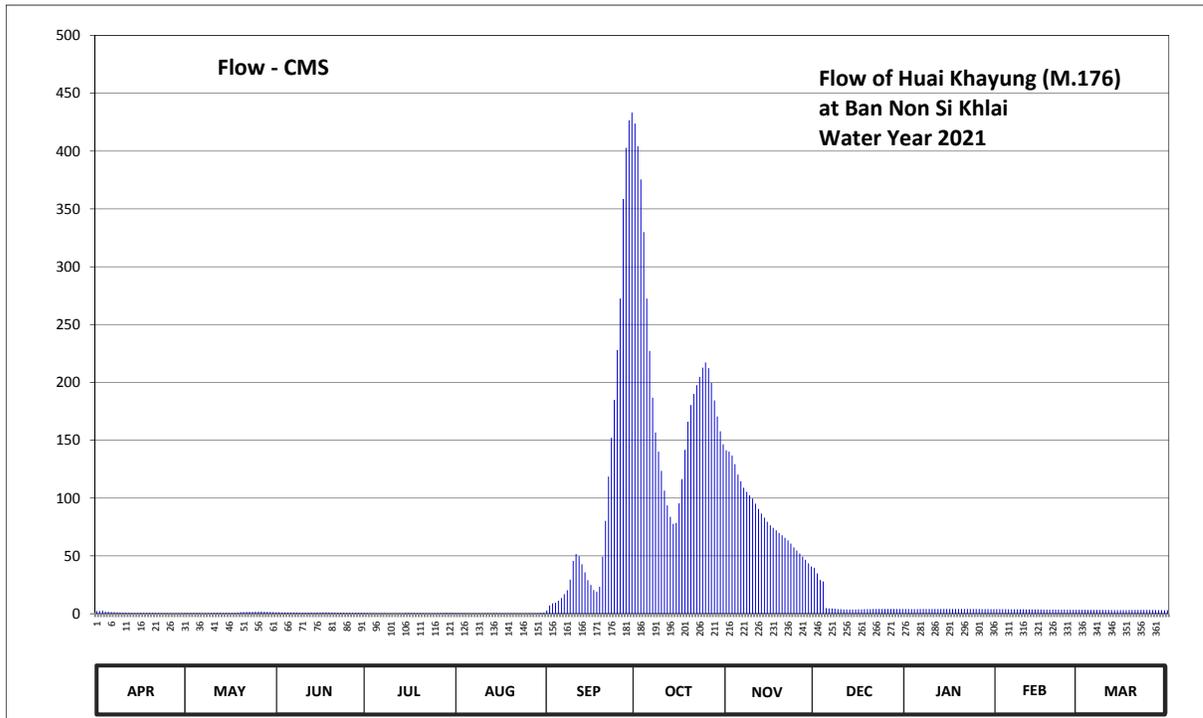
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.44	179.41	176.99	176.28	176.75	179.17	181.87	181.69	176.80	176.35	176.95	176.48	
2	176.42	180.15	176.93	176.28	176.60	178.87	181.84	181.65	176.79	176.34	176.92	176.60	
3	176.41	180.16	176.79	176.30	176.53	178.65	181.77	181.62	176.78	176.34	176.91	176.62	
4	176.46	179.82	176.66	176.40	176.35	178.65	181.67	181.58	176.80	176.32	176.88	176.57	
5	176.60	179.56	176.52	176.12	176.22	178.52	181.56	181.54	176.77	176.30	176.87	176.54	
6	176.67	179.33	176.45	176.02	176.27	178.37	181.44	181.50	176.74	176.28	176.85	176.52	
7	176.81	179.30	176.42	176.01	176.22	178.65	181.31	181.46	176.77	176.26	176.83	176.59	
8	177.09	179.33	176.36	177.07	176.20	179.62	181.16	181.41	176.73	176.24	176.81	176.97	
9	177.50	179.25	176.27	177.98	176.31	180.88	180.94	181.36	176.70	176.22	176.79	177.66	
10	177.70	178.96	176.21	178.61	176.42	181.25	180.67	181.30	176.66	176.20	176.77	177.85	
11	177.83	178.68	176.19	179.12	176.30	181.40	180.48	181.21	176.66	176.18	176.75	177.67	
12	178.07	178.18	176.17	178.97	176.36	181.50	180.38	181.10	176.66	176.18	176.73	177.65	
13	178.36	177.72	176.15	178.59	176.51	181.56	180.23	180.90	176.66	176.19	176.72	177.59	
14	178.46	177.52	176.13	178.46	176.50	181.69	180.47	180.63	176.65	176.19	176.71	177.31	
15	178.39	177.21	176.12	178.70	176.53	181.79	180.86	180.24	176.78	176.20	176.69	177.18	
16	178.26	177.07	176.09	179.09	176.58	181.83	181.34	179.79	176.80	176.21	176.68	177.11	
17	177.83	177.04	176.05	179.53	176.62	181.83	181.74	179.36	176.77	176.21	176.66	176.99	
18	177.46	176.98	176.05	179.87	176.67	181.82	181.85	178.96	176.74	176.22	176.65	176.90	
19	177.53	176.89	176.05	179.74	176.81	181.79	181.84	178.67	176.70	176.25	176.64	176.86	
20	177.79	176.97	176.05	179.01	177.38	181.74	181.83	178.34	176.66	176.26	176.62	176.91	
21	177.91	177.04	176.05	178.07	177.60	181.69	181.86	178.07	176.63	176.27	176.60	176.91	
22	177.85	176.90	176.05	177.43	177.95	181.65	181.93	177.96	176.60	176.32	176.58	176.95	
23	177.71	176.78	176.04	177.13	178.06	181.62	181.99	177.84	176.57	176.39	176.56	177.01	
24	177.62	176.74	176.04	177.01	178.09	181.58	181.99	177.67	176.54	176.63	176.55	177.01	
25	177.51	176.78	176.02	177.47	178.28	181.58	181.96	177.54	176.51	176.71	176.51	177.00	
26	177.42	176.83	176.01	178.24	178.97	181.63	181.93	177.48	176.69	176.81	176.47	177.09	
27	177.31	176.95	176.00	178.27	180.03	181.69	181.88	177.41	176.44	176.86	176.43	177.03	
28	177.32	177.33	176.09	178.05	180.29	181.74	181.84	177.34	176.42	176.85	176.41	176.97	
29	177.51	177.55	176.29	177.73	180.10	181.79	181.80	177.18	176.40	176.87		176.91	
30	178.31	177.38	176.28	177.21	179.73	181.84	181.77	176.88	176.38	176.91		176.85	
31		177.17		176.86	179.43		181.73		176.35	176.94		176.82	
Mean	177.49	177.97	176.25	177.79	177.38	180.88	181.48	179.66	176.65	176.40	176.70	177.00	
Max	178.46	180.16	176.99	179.87	180.29	181.84	181.99	181.69	176.80	176.94	176.95	177.85	181.99
Min	176.41	176.74	176.00	176.01	176.20	178.37	180.23	176.88	176.35	176.18	176.41	176.48	176.00
Annual Max Momentary Gage Height	182.00		m. (MSL.) ,				at 13.00 Hours, on Oct 23, 2021						
Zero Gage at Bottom Elevation	174.80		m. (MSL.) ,			River Bed	175.49	m. (MSL.)					
Left Bank Elevation		183.88		m. (MSL.) ,									
Right Bank Elevation		183.85		m. (MSL.) ,		Drainage Are	4,222	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.80	34.15	7.93	2.60	6.13	30.63	172.50	132.00	6.50	3.13	7.63	4.10		
2	3.65	45.25	7.48	2.60	5.00	26.88	165.00	124.00	6.43	3.05	7.40	5.00		
3	3.58	45.40	6.43	2.75	4.48	24.13	148.70	118.00	6.35	3.05	7.33	5.15		
4	3.95	40.30	5.45	3.50	3.13	24.13	128.00	110.40	6.50	2.90	7.10	4.78		
5	5.00	36.40	4.40	1.40	2.15	22.50	106.80	103.20	6.28	2.75	7.03	4.55		
6	5.53	32.95	3.88	0.65	2.53	20.70	85.80	96.00	6.05	2.60	6.88	4.40		
7	6.58	32.50	3.65	0.58	2.15	24.13	73.60	89.20	6.28	2.45	6.73	4.93		
8	8.68	32.95	3.20	8.53	2.00	37.30	66.30	80.70	5.98	2.30	6.58	7.78		
9	12.00	31.75	2.53	16.80	2.83	59.10	60.30	76.60	5.75	2.15	6.43	13.60		
10	14.00	28.00	2.08	23.63	3.65	70.25	54.90	73.00	5.45	2.00	6.28	15.50		
11	15.30	24.50	1.93	30.00	2.75	79.00	51.10	68.05	5.45	1.85	6.13	13.70		
12	17.70	18.80	1.78	28.13	3.20	96.00	49.10	64.50	5.45	1.85	5.98	13.50		
13	20.60	14.20	1.63	23.38	4.33	106.80	46.45	59.50	5.45	1.93	5.90	12.90		
14	21.75	12.20	1.48	21.75	4.25	132.00	50.90	54.10	5.38	1.93	5.83	10.33		
15	20.90	9.58	1.40	24.75	4.48	152.90	58.70	46.60	6.35	2.00	5.68	9.35		
16	19.60	8.53	1.18	29.63	4.85	162.50	75.40	39.85	6.50	2.08	5.60	8.83		
17	15.30	8.30	0.88	35.95	5.15	162.50	142.40	33.40	6.28	2.08	5.45	7.93		
18	11.60	7.85	0.88	41.05	5.53	160.00	167.50	28.00	6.05	2.15	5.38	7.25		
19	12.30	7.18	0.88	39.10	6.58	152.90	165.00	24.38	5.75	2.38	5.30	6.95		
20	14.90	7.78	0.88	28.63	10.85	142.40	162.50	20.40	5.45	2.45	5.15	7.33		
21	16.10	8.30	0.88	17.70	13.00	132.00	170.00	17.70	5.23	2.53	5.00	7.33		
22	15.50	7.25	0.88	11.30	16.50	124.00	187.50	16.60	5.00	2.90	4.85	7.63		
23	14.10	6.35	0.80	8.98	17.60	118.00	202.50	15.40	4.78	3.43	4.70	8.08		
24	13.20	6.05	0.80	8.08	17.90	110.40	202.50	13.70	4.55	5.23	4.63	8.08		
25	12.10	6.35	0.65	11.70	19.80	110.40	195.00	12.40	4.33	5.83	4.33	8.00		
26	11.20	6.73	0.58	19.40	28.13	120.00	187.50	11.80	5.68	6.58	4.03	8.68		
27	10.33	7.63	0.50	19.70	43.45	132.00	175.00	11.10	3.80	6.95	3.73	8.23		
28	10.40	10.48	1.18	17.50	47.35	142.40	165.00	10.55	3.65	6.88	3.58	7.78		
29	12.10	12.50	2.68	14.30	44.50	152.90	155.00	9.35	3.50	7.03		7.33		
30	20.10	10.85	2.60	9.58	38.95	165.00	148.70	7.10	3.35	7.33		6.88		
31		9.28		6.95	34.45		140.30		3.13	7.55		6.65		
<b>Total</b>	<b>371.85</b>	<b>570.34</b>	<b>71.50</b>	<b>510.60</b>	<b>407.65</b>	<b>2993.85</b>	<b>3959.95</b>	<b>1567.58</b>	<b>166.68</b>	<b>109.32</b>	<b>160.64</b>	<b>252.53</b>	<b>11142.49</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>12.40</b>	<b>18.40</b>	<b>2.38</b>	<b>16.47</b>	<b>13.15</b>	<b>99.80</b>	<b>127.74</b>	<b>52.25</b>	<b>5.38</b>	<b>3.53</b>	<b>5.74</b>	<b>8.15</b>	<b>30.53</b>	<b>CMS</b>
<b>Max</b>	<b>21.75</b>	<b>45.40</b>	<b>7.93</b>	<b>41.05</b>	<b>47.35</b>	<b>165.00</b>	<b>202.50</b>	<b>132.00</b>	<b>6.50</b>	<b>7.55</b>	<b>7.63</b>	<b>15.50</b>	<b>202.50</b>	<b>CMS</b>
<b>Min</b>	<b>3.58</b>	<b>6.05</b>	<b>0.50</b>	<b>0.58</b>	<b>2.00</b>	<b>20.70</b>	<b>46.45</b>	<b>7.10</b>	<b>3.13</b>	<b>1.85</b>	<b>3.58</b>	<b>4.10</b>	<b>0.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>32.13</b>	<b>49.28</b>	<b>6.18</b>	<b>44.12</b>	<b>35.22</b>	<b>258.67</b>	<b>342.14</b>	<b>135.44</b>	<b>14.40</b>	<b>9.45</b>	<b>13.88</b>	<b>21.82</b>	<b>962.71</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>205.00 CMS. at 182.00 m. (MSL.) at 13.00 Hours , on Oct 23, 2021</b>													
<b>Runoff Yield</b>	<b>7.23 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 48.56 Liters/Second/Square KM.</b>										





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.38	0.62	1.19	0.76	0.70	2.71	423.75	141.25	39.80	4.08	3.95	3.40	
2	2.53	0.62	1.16	0.62	0.59	7.20	404.00	140.13	34.80	4.05	3.93	3.38	
3	2.68	0.65	1.15	0.55	0.54	8.92	375.40	136.75	29.20	4.03	3.95	3.38	
4	1.97	0.62	1.14	0.54	0.50	9.44	329.90	129.25	27.92	4.00	3.93	3.35	
5	1.72	0.61	1.14	0.52	0.46	11.26	272.40	120.35	4.78	4.03	3.90	3.33	
6	1.56	0.61	1.13	0.47	0.42	13.60	227.20	114.60	4.55	4.08	3.88	3.30	
7	1.43	0.59	1.15	0.48	0.38	16.96	186.80	108.90	4.48	4.08	3.85	3.30	
8	1.29	0.58	1.08	0.48	0.36	20.32	156.63	105.30	4.40	4.10	3.83	3.30	
9	1.15	0.56	1.02	0.44	0.36	29.60	140.13	102.30	4.03	4.13	3.78	3.28	
10	1.02	0.68	0.97	0.41	0.37	45.60	123.50	99.60	3.98	4.15	3.78	3.28	
11	0.91	0.79	0.97	0.41	0.43	51.60	106.50	95.10	3.65	4.15	3.75	3.25	
12	0.79	0.79	1.01	0.41	0.52	49.60	93.60	90.60	3.65	4.15	3.73	3.23	
13	0.70	0.76	1.04	0.43	0.44	42.80	83.70	86.70	3.68	4.15	3.73	3.20	
14	0.67	0.72	1.02	0.46	0.48	35.80	77.75	83.10	3.73	4.15	3.70	3.18	
15	0.66	0.67	1.07	0.64	0.50	29.00	78.50	79.50	3.75	4.15	3.68	3.15	
16	0.77	0.61	1.13	0.71	0.41	24.89	95.40	76.50	3.83	4.13	3.65	3.15	
17	0.71	0.62	1.18	0.73	0.37	20.46	116.40	74.25	3.88	4.13	3.63	3.15	
18	0.68	0.79	1.19	0.66	0.35	19.06	141.63	72.00	3.93	4.10	3.60	3.23	
19	0.77	1.02	1.13	0.59	0.35	23.38	166.00	69.80	4.00	4.13	3.60	3.30	
20	0.79	1.33	1.06	0.52	0.35	49.40	180.40	67.80	4.03	4.10	3.58	3.30	
21	0.70	1.56	1.00	0.44	0.35	80.25	190.00	65.60	4.08	4.08	3.58	3.33	
22	0.52	1.63	1.00	0.42	0.37	118.50	197.60	63.40	4.08	4.05	3.58	3.35	
23	0.50	1.67	1.00	0.44	0.37	152.13	204.80	60.60	4.08	4.05	3.55	3.30	
24	0.49	1.66	0.95	0.46	0.33	184.80	212.80	57.40	4.10	4.05	3.53	3.28	
25	0.52	1.75	0.86	0.59	0.34	228.00	217.20	54.60	4.13	4.05	3.48	3.25	
26	0.49	1.86	0.83	0.59	0.37	272.40	212.40	52.00	4.13	4.05	3.48	3.25	
27	0.44	1.89	0.82	0.61	0.40	358.50	199.60	49.20	4.13	4.03	3.45	3.20	
28	0.43	1.78	0.79	0.71	0.43	402.70	184.40	46.60	4.13	4.00	3.43	3.15	
29	0.41	1.64	0.80	0.82	0.50	426.45	170.50	43.60	4.10	3.98	3.43	3.10	
30	0.54	1.49	0.85	0.82	0.80	433.20	157.75	40.80	4.10	3.95	3.43	3.05	
31		1.33		0.78	1.00		146.50		4.10	3.95		3.03	
<b>Total</b>	30.22	32.50	30.83	17.51	14.14	3168.53	5873.14	2527.58	241.23	126.31	103.51	100.73	12266.23 CMSDAY
<b>Mean</b>	1.01	1.05	1.03	0.56	0.46	105.62	189.46	84.25	7.78	4.07	3.70	3.25	33.61 CMS
<b>Max</b>	2.68	1.89	1.19	0.82	1.00	433.20	423.75	141.25	39.80	4.15	3.95	3.40	433.20 CMS
<b>Min</b>	0.41	0.56	0.79	0.41	0.33	2.71	77.75	40.80	3.65	3.95	3.43	3.03	0.33 CMS
<b>Runoff</b>	2.61	2.81	2.66	1.51	1.22	273.76	507.44	218.38	20.84	10.91	8.94	8.70	1059.80 MCM
<b>Momentary Peak</b>	435.90 CMS, at 121.74 m. (MSL.), at 12.00 Hours, on Sep 30, 2021												
<b>Runoff Yield</b>	11.18 Liters/Second/Square KM.			Momentary Peak Yield 144.96 Liters/Second/Square KM.									

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Ta Khong at Ban Non Sawang, Nakhon Ratchasima (M.177)

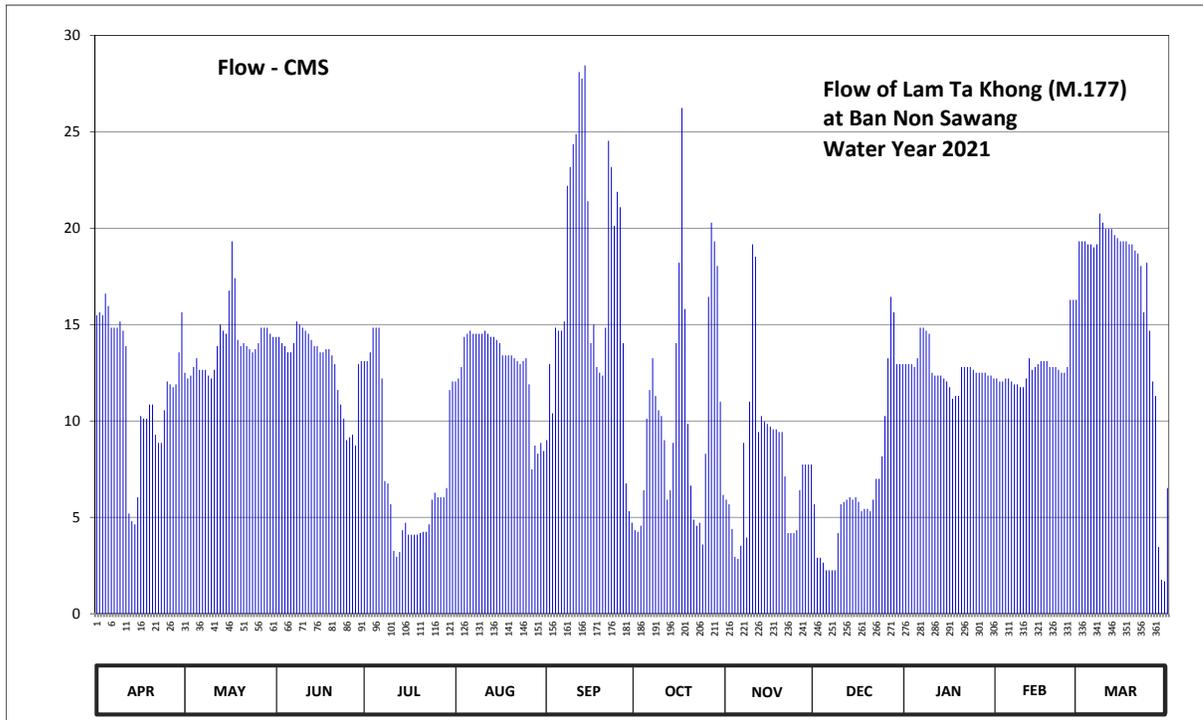
Lat 14 - 51 - 01 N Long 101 - 37 - 00 E

Location : on right bank at the bridge.

	<b>Ban Non Sawang</b>	<b>Amphoe Si Khui</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	1,464 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+236.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+243.940 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

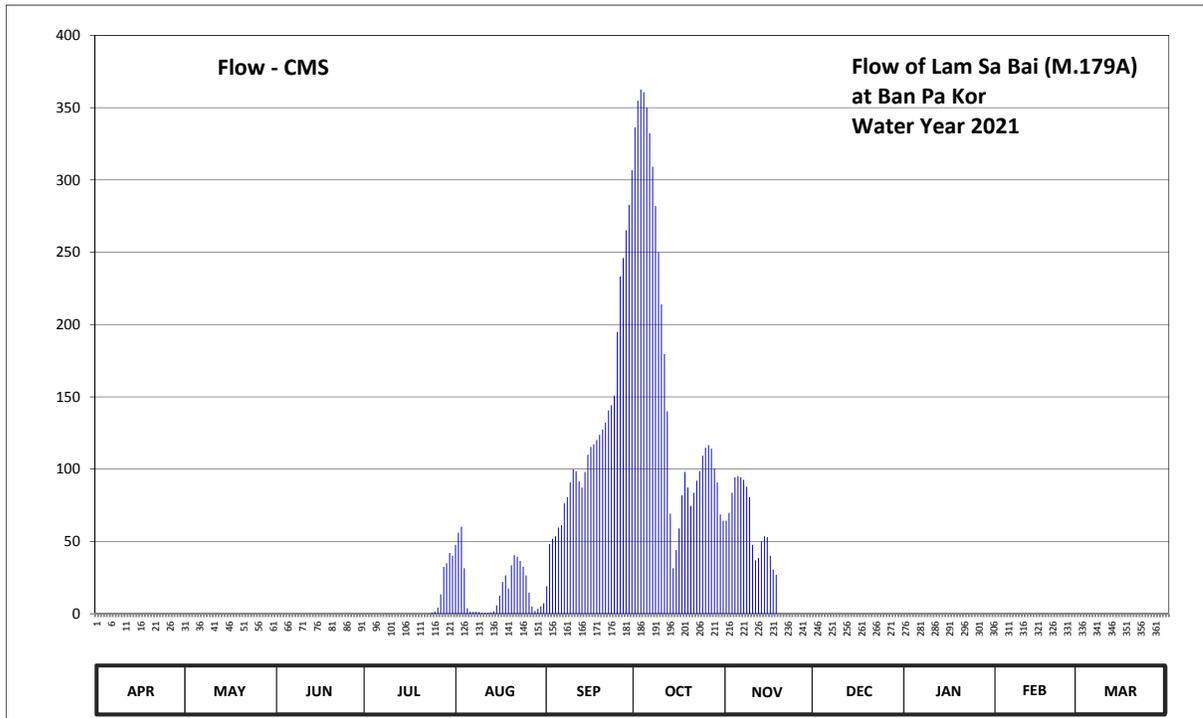
## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.93	239.74	239.86	239.78	239.71	239.50	239.09	239.26	239.24	239.77	239.72	240.17	
2	239.94	239.72	239.86	239.78	239.72	239.77	239.08	239.24	238.88	239.77	239.71	240.17	
3	239.93	239.73	239.84	239.81	239.76	239.60	239.12	239.10	238.88	239.77	239.71	240.17	
4	240.00	239.76	239.83	239.89	239.86	239.89	239.30	238.89	238.83	239.76	239.72	240.16	
5	239.96	239.79	239.81	239.89	239.87	239.88	239.58	238.87	238.75	239.79	239.72	240.16	
6	239.89	239.75	239.81	239.89	239.88	239.88	239.68	238.98	238.75	239.89	239.71	240.15	
7	239.89	239.75	239.84	239.72	239.87	239.91	239.79	239.49	238.75	239.89	239.70	240.16	
8	239.89	239.75	239.91	239.34	239.87	240.35	239.66	239.04	238.75	239.88	239.70	240.26	
9	239.91	239.73	239.90	239.33	239.87	240.41	239.61	239.64	239.07	239.87	239.69	240.23	
10	239.88	239.72	239.89	239.24	239.87	240.48	239.59	240.16	239.24	239.74	239.69	240.21	
11	239.83	239.75	239.88	238.94	239.88	240.51	239.50	240.12	239.25	239.73	239.72	240.21	
12	239.20	239.83	239.87	238.89	239.87	240.70	239.26	239.53	239.26	239.73	239.79	240.21	
13	239.15	239.90	239.85	238.93	239.86	240.68	239.30	239.59	239.27	239.73	239.75	240.19	
14	239.13	239.88	239.83	239.09	239.86	240.72	239.49	239.57	239.26	239.72	239.76	240.18	
15	239.27	239.87	239.83	239.14	239.85	240.30	239.84	239.56	239.27	239.71	239.77	240.17	
16	239.59	240.01	239.81	239.06	239.84	239.84	240.10	239.55	239.25	239.69	239.78	240.17	
17	239.58	240.17	239.81	239.06	239.80	239.90	240.59	239.54	239.21	239.65	239.78	240.17	
18	239.58	240.05	239.82	239.06	239.80	239.76	239.95	239.54	239.22	239.66	239.78	240.16	
19	239.63	239.85	239.82	239.06	239.80	239.74	239.56	239.53	239.22	239.66	239.76	240.16	
20	239.63	239.83	239.80	239.07	239.80	239.73	239.32	239.53	239.21	239.76	239.76	240.14	
21	239.52	239.84	239.77	239.08	239.79	239.89	239.16	239.36	239.26	239.76	239.76	240.13	
22	239.49	239.83	239.68	239.08	239.78	240.49	239.12	239.07	239.35	239.76	239.75	240.09	
23	239.49	239.82	239.63	239.13	239.77	240.41	239.14	239.07	239.35	239.76	239.74	239.94	
24	239.61	239.81	239.58	239.26	239.78	240.22	238.99	239.07	239.44	239.75	239.74	240.10	
25	239.71	239.82	239.50	239.29	239.79	240.33	239.45	239.09	239.59	239.74	239.76	239.88	
26	239.70	239.84	239.51	239.27	239.70	240.28	239.99	239.30	239.79	239.74	239.98	239.71	
27	239.69	239.89	239.52	239.27	239.39	239.84	240.23	239.41	239.99	239.74	239.98	239.66	
28	239.70	239.89	239.48	239.27	239.48	239.33	240.17	239.41	239.94	239.74	239.98	238.97	
29	239.81	239.89	239.77	239.31	239.45	239.21	240.09	239.41	239.77	239.73	239.73	238.64	
30	239.94	239.87	239.78	239.68	239.49	239.14	239.64	239.41	239.77	239.77	239.73	238.62	
31		239.86		239.71	239.46		239.28		239.77	239.72		239.31	
Mean	239.68	239.84	239.77	239.33	239.76	240.02	239.57	239.38	239.28	239.75	239.76	239.96	
Max	240.00	240.17	239.91	239.89	239.88	240.72	240.59	240.16	239.99	239.89	239.98	240.26	240.72
Min	239.13	239.72	239.48	238.89	239.39	239.14	238.99	238.87	238.75	239.65	239.69	238.62	238.62
Annual Max Momentary Gage Height	241.03		m. (MSL.) ,			at 05.00 Hours, on Oct 17, 2021							
Zero Gage at Bottom Elevation	236.70		m. (MSL.) ,			River Bed	237.69	m. (MSL.)					
Left Bank Elevation	243.95		m. (MSL.) ,										
Right Bank Elevation	243.94		m. (MSL.) ,			Drainage Area	1,464	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	15.48	12.50	14.36	13.10	12.05	9.00	4.33	5.92	5.68	12.95	12.20	19.32		
2	15.64	12.20	14.36	13.10	12.20	12.95	4.25	5.68	2.90	12.95	12.05	19.32		
3	15.48	12.35	14.04	13.56	12.80	10.40	4.56	4.40	2.90	12.95	12.05	19.32		
4	16.60	12.80	13.88	14.84	14.36	14.84	6.40	2.95	2.65	12.80	12.20	19.16		
5	15.96	13.25	13.56	14.84	14.52	14.68	10.12	2.85	2.25	13.25	12.20	19.16		
6	14.84	12.65	13.56	14.84	14.68	14.68	11.60	3.52	2.25	14.84	12.05	19.00		
7	14.84	12.65	14.04	12.20	14.52	15.16	13.25	8.86	2.25	14.84	11.90	19.16		
8	14.84	12.65	15.16	6.88	14.52	22.20	11.30	3.95	2.25	14.68	11.90	20.76		
9	15.16	12.35	15.00	6.76	14.52	23.17	10.55	11.00	4.18	14.52	11.75	20.28		
10	14.68	12.20	14.84	5.68	14.52	24.36	10.26	19.16	5.68	12.50	11.75	19.96		
11	13.88	12.65	14.68	3.26	14.68	24.87	9.00	18.52	5.80	12.35	12.20	19.96		
12	5.20	13.88	14.52	2.95	14.52	28.10	5.92	9.42	5.92	12.35	13.25	19.96		
13	4.80	15.00	14.20	3.20	14.36	27.76	6.40	10.26	6.04	12.35	12.65	19.64		
14	4.64	14.68	13.88	4.33	14.36	28.44	8.86	9.98	5.92	12.20	12.80	19.48		
15	6.04	14.52	13.88	4.72	14.20	21.40	14.04	9.84	6.04	12.05	12.95	19.32		
16	10.26	16.76	13.56	4.10	14.04	14.04	18.20	9.70	5.80	11.75	13.10	19.32		
17	10.12	19.32	13.56	4.10	13.40	15.00	26.23	9.56	5.32	11.15	13.10	19.32		
18	10.12	17.40	13.72	4.10	13.40	12.80	15.80	9.56	5.44	11.30	13.10	19.16		
19	10.85	14.20	13.72	4.10	13.40	12.50	9.84	9.42	5.44	11.30	12.80	19.16		
20	10.85	13.88	13.40	4.18	13.40	12.35	6.64	9.42	5.32	12.80	12.80	18.84		
21	9.28	14.04	12.95	4.25	13.25	14.84	4.88	7.12	5.92	12.80	12.80	18.68		
22	8.86	13.88	11.60	4.25	13.10	24.53	4.56	4.18	7.00	12.80	12.65	18.04		
23	8.86	13.72	10.85	4.64	12.95	23.17	4.72	4.18	7.00	12.80	12.50	15.64		
24	10.55	13.56	10.12	5.92	13.10	20.12	3.59	4.18	8.16	12.65	12.50	18.20		
25	12.05	13.72	9.00	6.28	13.25	21.88	8.30	4.33	10.26	12.50	12.80	14.68		
26	11.90	14.04	9.14	6.04	11.90	21.08	16.44	6.40	13.25	12.50	16.28	12.05		
27	11.75	14.84	9.28	6.04	7.48	14.04	20.28	7.74	16.44	12.50	16.28	11.30		
28	11.90	14.84	8.72	6.04	8.72	6.76	19.32	7.74	15.64	12.50	16.28	3.46		
29	13.56	14.84	12.95	6.52	8.30	5.32	18.04	7.74	12.95	12.35		1.76		
30	15.64	14.52	13.10	11.60	8.86	4.72	11.00	7.74	12.95	12.35		1.68		
31		14.36		12.05	8.44		6.16		12.95	12.20		6.52		
Total	354.63	434.25	389.63	228.47	397.80	515.16	324.84	235.32	212.55	393.83	360.89	511.61	4358.98	CMSDAY
Mean	11.82	14.01	12.99	7.37	12.83	17.17	10.48	7.84	6.86	12.70	12.89	16.50	11.94	CMS
Max	16.60	19.32	15.16	14.84	14.68	28.44	26.23	19.16	16.44	14.84	16.28	20.76	28.44	CMS
Min	4.64	12.20	8.72	2.95	7.48	4.72	3.59	2.85	2.25	11.15	11.75	1.68	1.68	CMS
Runoff	30.64	37.52	33.66	19.74	34.37	44.51	28.07	20.33	18.36	34.03	31.18	44.20	376.62	MCM
Momentary Peak	33.94 CMS. at 241.03 m. (MSL.) at 05.00 Hours , on Oct 17, 2021													
Runoff Yield	8.16 Liters/Second/Square KM.			Momentary Peak Yield			23.18 Liters/Second/Square KM.							





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	47.60	19.00	336.40	64.40	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	56.00	48.20	354.80	69.80	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	60.20	51.80	362.50	83.60	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	31.50	53.60	360.70	94.40	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	3.80	59.60	350.00	95.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	1.40	61.40	332.40	94.40	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	1.33	76.40	309.20	92.60	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	1.30	80.60	282.00	87.80	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	1.20	90.80	250.00	80.60	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.60	99.80	214.00	47.60	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.60	98.60	179.60	37.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.80	91.40	140.00	38.50	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.93	87.20	69.20	50.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	1.55	98.00	31.50	53.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	5.80	110.00	44.00	53.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	12.40	115.40	59.00	40.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	22.00	117.20	81.80	30.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	26.50	120.20	98.00	27.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	17.50	123.80	87.20	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	33.50	127.40	74.60	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	40.50	132.20	83.60	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	39.50	140.60	92.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	36.50	144.20	98.60	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.88	32.50	150.80	109.40	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.50	26.50	194.80	114.80	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	4.20	14.60	233.20	116.60	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	13.40	5.00	246.00	114.20	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	32.50	2.00	265.20	100.40	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	35.00	3.40	282.80	90.80	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	42.00	5.00	306.80	68.60	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	40.00	7.20		64.40	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	169.48	539.21	3827.00	5070.30	1139.80	0.00	0.00	0.00	0.00	10745.79 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	5.47	17.39	127.57	163.56	37.99	0.00	0.00	0.00	0.00	29.44 CMS
<b>Max</b>	0.00	0.00	0.00	42.00	60.20	306.80	362.50	95.00	0.00	0.00	0.00	0.00	362.50 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.60	19.00	31.50	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	14.64	46.59	330.65	438.07	98.48	0.00	0.00	0.00	0.00	928.44 MCM
<b>Momentary Peak</b>	364.30	CMS. at 118.77 m. (MSL.) at 15.00 Hours , on Oct 3, 2021											
<b>Runoff Yield</b>	8.29	Liters/Second/Square KM. Momentary Peak Yield 102.59 Liters/Second/Square KM.											

## WATER YEAR : 2021

## MUN RIVER BASIN

## Huai Hin Lap at Ban Khlong Hin Lap, Nakhon Ratchasima (M.183B)

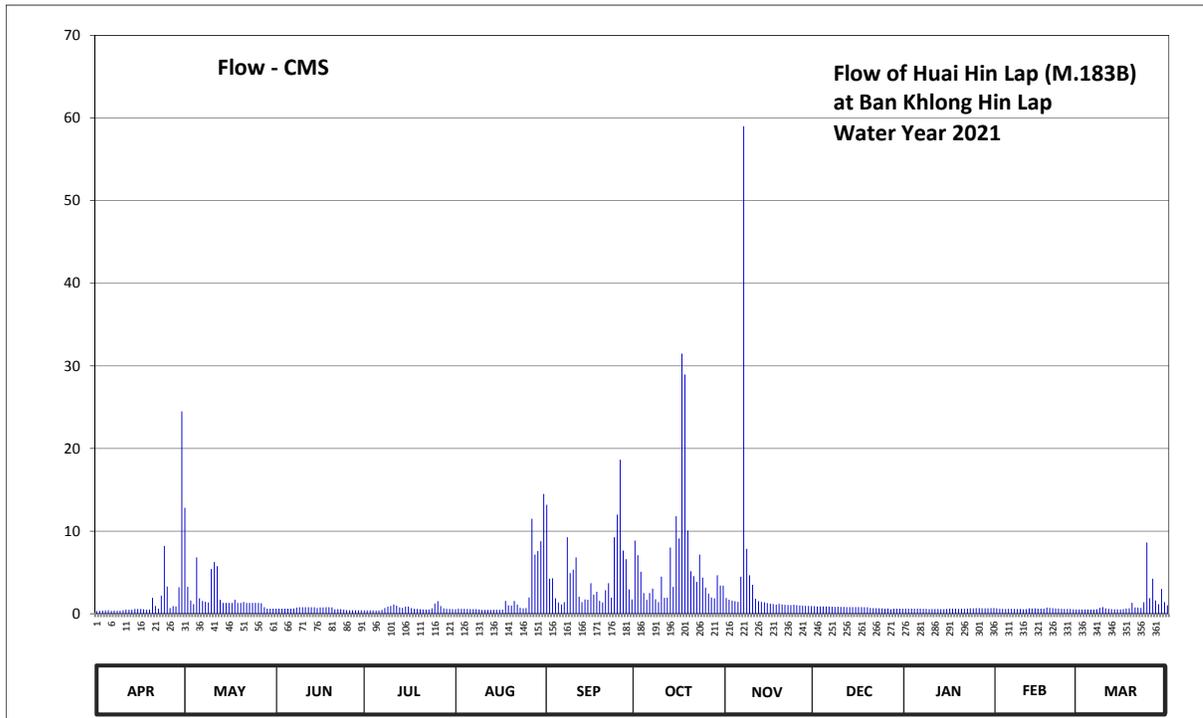
Lat 14 - 43 - 43 N Long 101 - 33 - 51 E

Location : on left bank at the bridge on highway.

<b>Ban</b>	Khlong Hin Lap	<b>Amphoe</b>	Pak Chong	<b>Changwat</b>	Nakhon Ratchasima
<b>Drainage Area</b>	234 sq.km.				
<b>Type of Gage</b>	Water - stage recorder.				
<b>Zero Gage at Bottom</b>	+294.900 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+297.232 m. (MSL.)		
<b>Gage Reading Frequency</b>	Recording.				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	2021 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	2021 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	2021 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +297.200 m.(MSL.), records are channel flow only.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 55 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	295.16	297.56	295.31	295.20	295.27	297.59	297.12	295.95	295.46	295.31	295.33	295.26	
2	295.18	296.25	295.31	295.20	295.31	296.44	296.87	295.85	295.44	295.31	295.30	295.26	
3	295.19	295.80	295.31	295.20	295.30	296.45	296.58	295.80	295.44	295.31	295.30	295.26	
4	295.20	295.58	295.31	295.20	295.30	295.93	296.10	295.76	295.44	295.31	295.29	295.26	
5	295.21	296.83	295.31	295.19	295.29	295.68	295.84	295.72	295.43	295.31	295.30	295.25	
6	295.17	295.93	295.31	295.19	295.28	295.56	296.10	296.48	295.43	295.31	295.30	295.25	
7	295.19	295.77	295.32	295.23	295.28	295.70	296.21	300.20	295.42	295.30	295.29	295.27	
8	295.18	295.72	295.37	295.35	295.28	297.17	295.88	296.98	295.41	295.30	295.29	295.36	
9	295.18	295.68	295.39	295.43	295.26	296.55	295.70	296.51	295.42	295.28	295.29	295.40	
10	295.21	296.63	295.39	295.47	295.23	296.62	296.48	296.30	295.41	295.29	295.27	295.33	
11	295.25	296.75	295.39	295.56	295.23	296.83	295.96	295.90	295.41	295.29	295.28	295.30	
12	295.24	296.68	295.39	295.49	295.23	296.01	295.97	295.76	295.40	295.29	295.33	295.28	
13	295.24	295.84	295.39	295.38	295.23	295.70	297.00	295.71	295.40	295.28	295.32	295.27	
14	295.29	295.65	295.39	295.36	295.24	295.87	296.25	295.69	295.40	295.28	295.33	295.27	
15	295.29	295.65	295.35	295.43	295.24	295.85	297.47	295.64	295.40	295.29	295.31	295.26	
16	295.29	295.65	295.38	295.43	295.24	296.34	297.15	295.61	295.40	295.31	295.31	295.28	
17	295.27	295.65	295.38	295.35	295.25	296.06	298.81	295.59	295.40	295.31	295.31	295.32	
18	295.24	295.85	295.39	295.30	295.78	296.13	298.67	295.55	295.39	295.31	295.37	295.33	
19	295.25	295.65	295.39	295.29	295.51	295.78	297.27	295.60	295.39	295.30	295.36	295.66	
20	295.96	295.65	295.38	295.27	295.49	295.68	296.59	295.56	295.35	295.30	295.34	295.38	
21	295.47	295.71	295.27	295.26	295.77	296.17	296.49	295.54	295.34	295.30	295.32	295.37	
22	295.31	295.65	295.28	295.25	295.55	296.34	296.37	295.53	295.34	295.31	295.31	295.35	
23	296.04	295.65	295.28	295.25	295.36	295.97	296.88	295.52	295.33	295.33	295.30	295.69	
24	297.03	295.65	295.25	295.33	295.33	297.17	296.46	295.55	295.33	295.32	295.29	297.09	
25	296.26	295.65	295.22	295.62	295.35	297.49	296.23	295.52	295.31	295.34	295.29	295.94	
26	295.35	295.65	295.21	295.76	295.98	298.01	296.09	295.50	295.32	295.34	295.29	296.44	
27	295.46	295.63	295.21	295.46	297.44	296.95	295.98	295.49	295.27	295.33	295.27	295.80	
28	295.44	295.39	295.21	295.33	296.88	296.80	295.93	295.48	295.31	295.33	295.26	295.58	
29	296.24	295.31	295.21	295.30	296.94	296.19	296.51	295.47	295.31	295.33		296.20	
30	298.40	295.31	295.21	295.29	297.11	295.87	296.28	295.46	295.31	295.34		295.70	
31		295.31		295.28	297.70		296.28		295.31	295.35		295.51	
Mean	295.54	295.86	295.32	295.34	295.67	296.36	296.57	295.91	295.38	295.31	295.31	295.51	
Max	298.40	297.56	295.39	295.76	297.70	298.01	298.81	300.20	295.46	295.35	295.37	297.09	300.20
Min	295.16	295.31	295.21	295.19	295.23	295.56	295.70	295.46	295.27	295.28	295.26	295.25	295.16
Annual Max Momentary Gage Height	301.59		m. (MSL.) ,			at 11.00 Hours, on Nov 7, 2021							
Zero Gage at Bottom Elevation	294.90		m. (MSL.) ,			River Bed	292.58	m. (MSL.)					
Left Bank Elevation		297.28		m. (MSL.) ,									
Right Bank Elevation		297.19		m. (MSL.) ,		Drainage Are	234	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	12.82	0.62	0.40	0.54	13.18	8.86	1.90	0.92	0.62	0.66	0.52	
2	0.36	3.25	0.62	0.40	0.62	4.24	7.09	1.70	0.88	0.62	0.60	0.52	
3	0.38	1.60	0.62	0.40	0.60	4.30	5.08	1.60	0.88	0.62	0.60	0.52	
4	0.40	1.16	0.62	0.40	0.60	1.86	2.50	1.52	0.88	0.62	0.58	0.52	
5	0.42	6.81	0.62	0.38	0.58	1.36	1.68	1.44	0.86	0.62	0.60	0.50	
6	0.34	1.86	0.62	0.38	0.56	1.12	2.50	4.48	0.86	0.62	0.60	0.50	
7	0.38	1.54	0.64	0.46	0.56	1.40	3.05	59.00	0.84	0.60	0.58	0.54	
8	0.36	1.44	0.74	0.70	0.56	9.26	1.76	7.86	0.82	0.60	0.58	0.72	
9	0.36	1.36	0.78	0.86	0.52	4.90	1.40	4.66	0.84	0.56	0.58	0.80	
10	0.42	5.41	0.78	0.94	0.46	5.34	4.48	3.50	0.82	0.58	0.54	0.66	
11	0.50	6.25	0.78	1.12	0.46	6.81	1.92	1.80	0.82	0.58	0.56	0.60	
12	0.48	5.76	0.78	0.98	0.46	2.05	1.94	1.52	0.80	0.58	0.66	0.56	
13	0.48	1.68	0.78	0.76	0.46	1.40	8.00	1.42	0.80	0.56	0.64	0.54	
14	0.58	1.30	0.78	0.72	0.48	1.74	3.25	1.38	0.80	0.56	0.66	0.54	
15	0.58	1.30	0.70	0.86	0.48	1.70	11.80	1.28	0.80	0.58	0.62	0.52	
16	0.58	1.30	0.76	0.86	0.48	3.70	9.10	1.22	0.80	0.62	0.62	0.56	
17	0.54	1.30	0.76	0.70	0.50	2.30	31.48	1.18	0.80	0.62	0.62	0.64	
18	0.48	1.70	0.78	0.60	1.56	2.65	28.96	1.10	0.78	0.62	0.74	0.66	
19	0.50	1.30	0.78	0.58	1.02	1.56	10.06	1.20	0.78	0.60	0.72	1.32	
20	1.92	1.30	0.76	0.54	0.98	1.36	5.14	1.12	0.70	0.60	0.68	0.76	
21	0.94	1.42	0.54	0.52	1.54	2.85	4.54	1.08	0.68	0.60	0.64	0.74	
22	0.62	1.30	0.56	0.50	1.10	3.70	3.85	1.06	0.68	0.62	0.62	0.70	
23	2.20	1.30	0.56	0.50	0.72	1.94	7.16	1.04	0.66	0.66	0.60	1.38	
24	8.21	1.30	0.50	0.66	0.66	9.26	4.36	1.10	0.66	0.64	0.58	8.63	
25	3.30	1.30	0.44	1.24	0.70	12.00	3.15	1.04	0.62	0.68	0.58	1.88	
26	0.70	1.30	0.42	1.52	1.96	18.64	2.45	1.00	0.64	0.68	0.58	4.24	
27	0.92	1.26	0.42	0.92	11.50	7.65	1.96	0.98	0.54	0.66	0.54	1.60	
28	0.88	0.78	0.42	0.66	7.16	6.60	1.86	0.96	0.62	0.66	0.52	1.16	
29	3.20	0.62	0.42	0.60	7.58	2.95	4.66	0.94	0.62	0.66		3.00	
30	24.50	0.62	0.42	0.58	8.78	1.74	3.40	0.92	0.62	0.68		1.40	
31		0.62		0.56	14.50		3.40		0.62	0.70		1.02	
<b>Total</b>	55.85	72.26	19.02	21.30	68.68	139.56	190.84	111.00	23.44	19.22	17.10	38.25	776.52 CMSDAY
<b>Mean</b>	1.86	2.33	0.63	0.69	2.22	4.65	6.16	3.70	0.76	0.62	0.61	1.23	2.13 CMS
<b>Max</b>	24.50	12.82	0.78	1.52	14.50	18.64	31.48	59.00	0.92	0.70	0.74	8.63	59.00 CMS
<b>Min</b>	0.32	0.62	0.42	0.38	0.46	1.12	1.40	0.92	0.54	0.56	0.52	0.50	0.32 CMS
<b>Runoff</b>	4.83	6.24	1.64	1.84	5.93	12.06	16.49	9.59	2.03	1.66	1.48	3.30	67.09 MCM
<b>Momentary Peak</b>	102.60 CMS. at 301.59 m. (MSL.) at 11.00 Hours , on Nov 7, 2021												
<b>Runoff Yield</b>	9.09 Liters/Second/Square KM.			Momentary Peak Yield			438.46 Liters/Second/Square KM.						

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Cum, Nakhon Ratchasima (M.184)

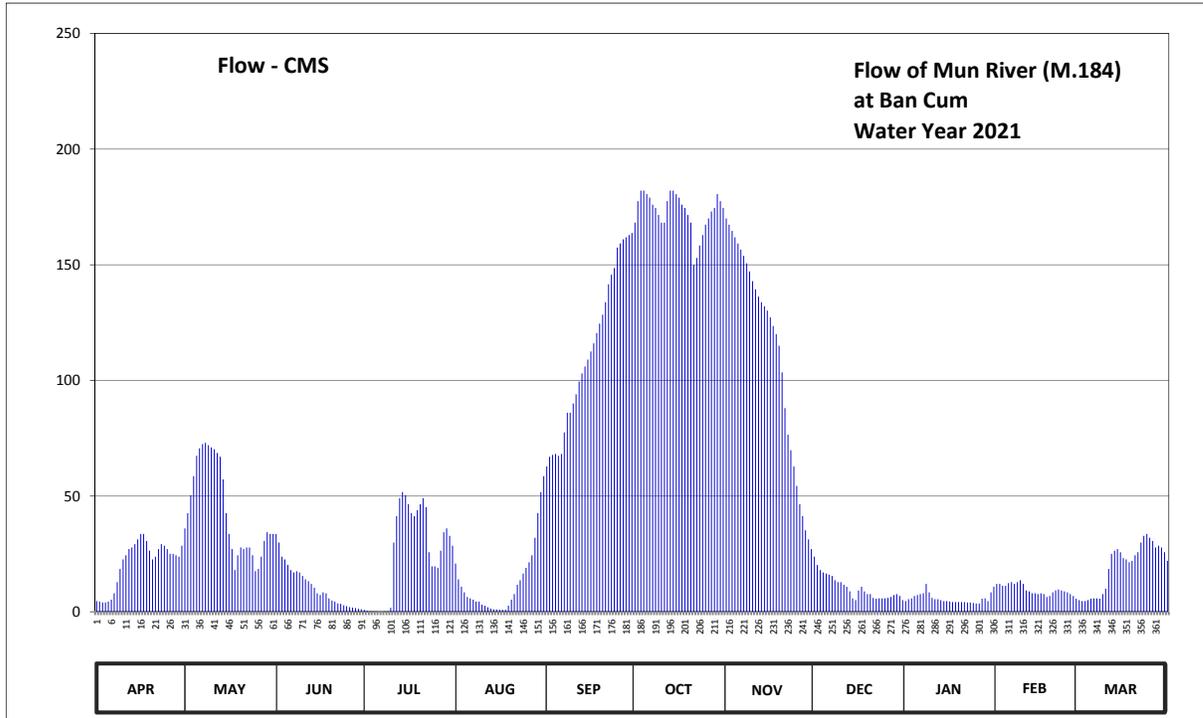
Lat 15 - 13 - 12 N Long 102 - 25 - 42 E

Location : on right at the bridge on highway.

	<b>Ban Cum</b>	<b>Amphoe Phimai</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	11,476 sq.km.			
<b>Type of Gage</b>	Water - stage recorder.			
<b>Zero Gage at Bottom</b>	+150.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b>	+156.067 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.			
<b>Period of Available Gage Records</b>	2008 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2008 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	2008 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2021.			

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.13	153.75	153.72	152.88	153.53	153.97	155.78	155.80	153.58	153.13	153.35	153.15	
2	153.12	153.82	153.67	152.85	153.40	154.00	155.85	155.77	153.52	153.17	153.35	153.13	
3	153.10	153.88	153.58	152.83	153.32	154.02	155.88	155.74	153.48	153.19	153.33	153.13	
4	153.10	153.94	153.56	152.82	153.26	154.03	155.88	155.71	153.46	153.22	153.33	153.15	
5	153.12	154.01	153.52	152.81	153.21	154.01	155.87	155.68	153.45	153.23	153.36	153.18	
6	153.16	154.09	153.48	152.80	153.19	154.03	155.86	155.65	153.44	153.24	153.37	153.19	
7	153.25	154.13	153.46	152.80	153.16	154.23	155.84	155.62	153.43	153.25	153.35	153.19	
8	153.37	154.14	153.47	152.82	153.12	154.40	155.83	155.58	153.39	153.35	153.37	153.18	
9	153.49	154.12	153.46	152.83	153.12	154.40	155.81	155.53	153.37	153.26	153.39	153.24	
10	153.56	154.10	153.43	152.97	153.05	154.48	155.78	155.47	153.37	153.20	153.35	153.30	
11	153.59	154.08	153.40	153.67	153.03	154.56	155.78	155.42	153.34	153.17	153.28	153.49	
12	153.63	154.04	153.38	153.81	152.99	154.67	155.85	155.37	153.32	153.17	153.27	153.60	
13	153.64	154.00	153.35	153.87	152.94	154.74	155.88	155.33	153.27	153.15	153.25	153.62	
14	153.66	153.93	153.31	153.89	152.90	154.80	155.88	155.30	153.19	153.13	153.25	153.63	
15	153.69	153.82	153.25	153.88	152.90	154.86	155.87	155.27	153.15	153.13	153.24	153.61	
16	153.72	153.72	153.23	153.85	152.89	154.93	155.86	155.22	153.28	153.12	153.25	153.57	
17	153.72	153.63	153.26	153.82	152.89	155.00	155.84	155.15	153.32	153.11	153.24	153.56	
18	153.68	153.48	153.25	153.81	152.89	155.09	155.83	155.08	153.27	153.11	153.21	153.54	
19	153.62	153.59	153.19	153.83	153.03	155.17	155.81	154.98	153.24	153.11	153.22	153.55	
20	153.56	153.64	153.14	153.85	153.16	155.24	155.78	154.75	153.24	153.11	153.26	153.59	
21	153.58	153.63	153.12	153.87	153.24	155.33	155.57	154.44	153.20	153.11	153.28	153.61	
22	153.63	153.64	153.08	153.84	153.34	155.45	155.61	154.21	153.18	153.10	153.29	153.67	
23	153.66	153.64	153.07	153.61	153.39	155.51	155.67	154.07	153.19	153.10	153.28	153.71	
24	153.65	153.59	153.04	153.51	153.45	155.55	155.72	153.97	153.19	153.09	153.27	153.72	
25	153.63	153.47	153.02	153.51	153.50	155.66	155.77	153.91	153.19	153.08	153.26	153.70	
26	153.60	153.49	153.00	153.50	153.54	155.68	155.80	153.85	153.20	153.08	153.24	153.68	
27	153.60	153.58	152.98	153.62	153.59	155.70	155.82	153.81	153.21	153.18	153.22	153.64	
28	153.59	153.68	152.96	153.73	153.70	155.71	155.83	153.74	153.23	153.19	153.18	153.65	
29	153.58	153.73	152.93	153.75	153.82	155.72	155.87	153.69	153.24	153.13		153.64	
30	153.65	153.72	152.91	153.71	153.89	155.73	155.85	153.63	153.22	153.26		153.61	
31		153.72		153.65	153.94		155.83		153.15	153.32		153.55	
Mean	153.50	153.80	153.27	153.45	153.27	154.89	155.81	154.92	153.30	153.17	153.29	153.48	
Max	153.72	154.14	153.72	153.89	153.94	155.73	155.88	155.80	153.58	153.35	153.39	153.72	155.88
Min	153.10	153.47	152.91	152.80	152.89	153.97	155.57	153.63	153.15	153.08	153.18	153.13	152.80
Annual Max Momentary Gage Height	155.89		m. (MSL.) ,										at 03.00 Hours, on Oct 3, 2021
Zero Gage at Bottom Elevation	150.00		m. (MSL.) ,			River Bed	149.89	m. (MSL.)					
Left Bank Elevation		156.06		m. (MSL.) ,									
Right Bank Elevation		156.06		m. (MSL.) ,		Drainage Are	11,476	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.60	36.00	33.60	0.80	20.80	62.80	168.20	170.00	23.80	4.60	12.00	5.00	
2	4.40	42.60	29.90	0.50	14.00	67.00	177.50	167.30	20.20	5.40	12.00	4.60	
3	4.00	50.40	23.80	0.30	10.80	67.80	182.00	164.60	18.00	5.80	11.20	4.60	
4	4.00	58.60	22.60	0.20	8.40	68.20	182.00	161.90	17.00	6.80	11.20	5.00	
5	4.40	67.40	20.20	0.10	6.40	67.40	180.50	159.20	16.50	7.20	12.40	5.60	
6	5.20	70.60	18.00	0.00	5.80	68.20	179.00	156.50	16.00	7.60	12.80	5.80	
7	8.00	72.50	17.00	0.00	5.20	77.50	176.00	153.80	15.50	8.00	12.00	5.80	
8	12.80	73.00	17.50	0.20	4.40	86.00	174.50	150.60	13.60	12.00	12.80	5.60	
9	18.50	72.00	17.00	0.30	4.40	86.00	171.50	147.10	12.80	8.40	13.60	7.60	
10	22.60	71.00	15.50	1.70	3.00	90.00	168.20	142.90	12.80	6.00	12.00	10.00	
11	24.40	70.20	14.00	29.90	2.60	94.00	168.20	139.40	11.60	5.40	9.20	18.50	
12	27.10	68.60	13.20	41.30	1.90	99.50	177.50	136.20	10.80	5.40	8.80	25.00	
13	27.80	67.00	12.00	49.10	1.40	103.00	182.00	133.80	8.80	5.00	8.00	26.40	
14	29.20	57.20	10.40	51.70	1.00	106.00	182.00	132.00	5.80	4.60	8.00	27.10	
15	31.30	42.60	8.00	50.40	1.00	109.00	180.50	130.20	5.00	4.60	7.60	25.70	
16	33.60	33.60	7.20	46.50	0.90	112.50	179.00	127.20	9.20	4.40	8.00	23.20	
17	33.60	27.10	8.40	42.60	0.90	116.00	176.00	123.50	10.80	4.20	7.60	22.60	
18	30.60	18.00	8.00	41.30	0.90	120.50	174.50	120.00	8.80	4.20	6.40	21.40	
19	26.40	24.40	5.80	43.90	2.60	124.50	171.50	115.00	7.60	4.20	6.80	22.00	
20	22.60	27.80	4.80	46.50	5.20	128.40	168.20	103.50	7.60	4.20	8.40	24.40	
21	23.80	27.10	4.40	49.10	7.60	133.80	149.90	88.00	6.00	4.20	9.20	25.70	
22	27.10	27.80	3.60	45.20	11.60	141.50	152.90	76.50	5.60	4.00	9.60	29.90	
23	29.20	27.80	3.40	25.70	13.60	145.70	158.30	69.80	5.80	4.00	9.20	32.80	
24	28.50	24.40	2.80	19.60	16.50	148.50	162.80	62.80	5.80	3.80	8.80	33.60	
25	27.10	17.50	2.40	19.60	19.00	157.40	167.30	54.40	5.80	3.60	8.40	32.00	
26	25.00	18.50	2.00	19.00	21.40	159.20	170.00	46.50	6.00	3.60	7.60	30.60	
27	25.00	23.80	1.80	26.40	24.40	161.00	173.00	41.30	6.40	5.60	6.80	27.80	
28	24.40	30.60	1.60	34.40	32.00	161.90	174.50	35.20	7.20	5.80	5.60	28.50	
29	23.80	34.40	1.30	36.00	42.60	162.80	180.50	31.30	7.60	4.60		27.80	
30	28.50	33.60	1.10	32.80	51.70	163.70	177.50	27.10	6.80	8.40		25.70	
31		33.60		28.50	58.60		174.50		5.00	10.80		22.00	
<b>Total</b>	<b>637.50</b>	<b>1349.70</b>	<b>331.30</b>	<b>783.60</b>	<b>400.60</b>	<b>3389.80</b>	<b>5360.00</b>	<b>3367.60</b>	<b>320.20</b>	<b>176.40</b>	<b>266.00</b>	<b>612.30</b>	<b>16995.00</b> CMSDAY
<b>Mean</b>	<b>21.25</b>	<b>43.54</b>	<b>11.04</b>	<b>25.28</b>	<b>12.92</b>	<b>112.99</b>	<b>172.90</b>	<b>112.25</b>	<b>10.33</b>	<b>5.69</b>	<b>9.50</b>	<b>19.75</b>	<b>46.56</b> CMS
<b>Max</b>	<b>33.60</b>	<b>73.00</b>	<b>33.60</b>	<b>51.70</b>	<b>58.60</b>	<b>163.70</b>	<b>182.00</b>	<b>170.00</b>	<b>23.80</b>	<b>12.00</b>	<b>13.60</b>	<b>33.60</b>	<b>182.00</b> CMS
<b>Min</b>	<b>4.00</b>	<b>17.50</b>	<b>1.10</b>	<b>0.00</b>	<b>0.90</b>	<b>62.80</b>	<b>149.90</b>	<b>27.10</b>	<b>5.00</b>	<b>3.60</b>	<b>5.60</b>	<b>4.60</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>55.08</b>	<b>116.61</b>	<b>28.62</b>	<b>67.70</b>	<b>34.61</b>	<b>292.88</b>	<b>463.10</b>	<b>290.96</b>	<b>27.67</b>	<b>15.24</b>	<b>22.98</b>	<b>52.90</b>	<b>1468.37</b> MCM
<b>Momentary Peak</b>	<b>183.50 CMS. at 155.89 m. (MSL.) at 03.00 Hours , on Oct 3, 2021</b>												
<b>Runoff Yield</b>	<b>4.06</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>		<b>15.99</b>	<b>Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Plai Mat at Ban Hin Cone, Nakhon Ratchasima (M.185A)

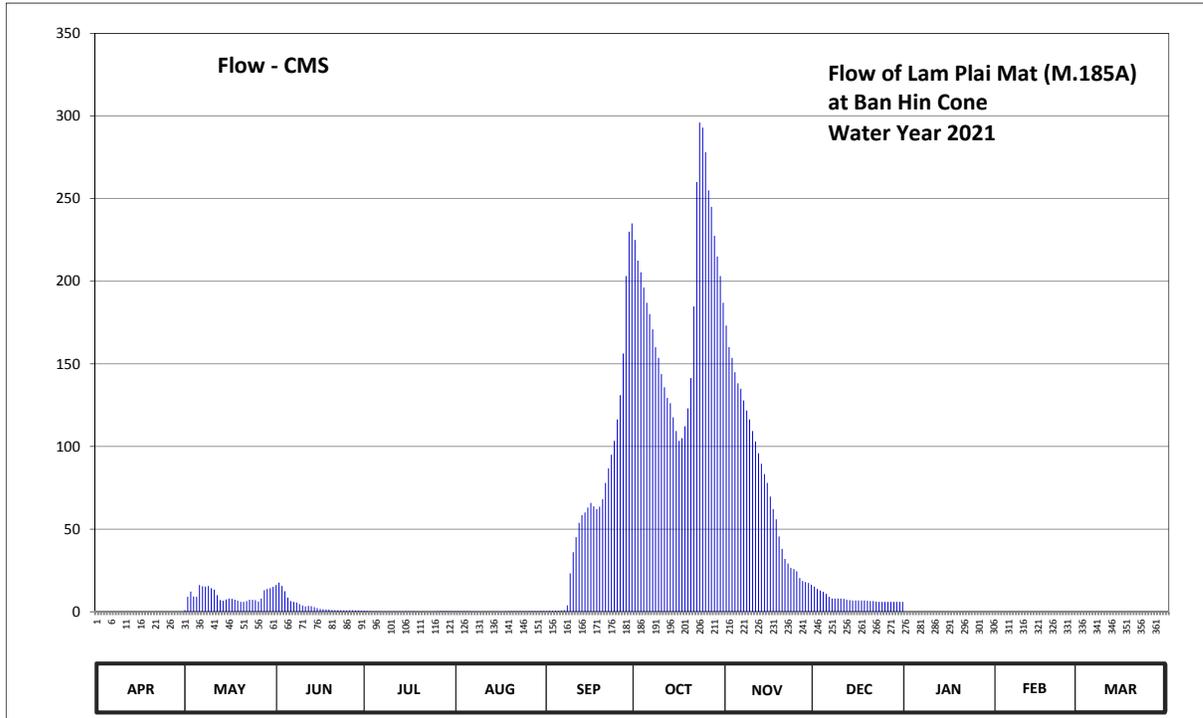
Lat 15 - 01 - 37 N Long 102 - 48 - 21 E

Location : on right at the bridge on highway.

	<b>Ban</b>	Hin Cone	<b>Amphoe</b>	Lam Plai Mat	<b>Changwat</b>	Nakhon Ratchasima
<b>Drainage Area</b>	5,020	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+150.400 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank near the gage site.				<b>Elevation</b>	+157.900 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2021 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2021 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2021 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +158.250 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.70	152.21	153.41	151.63	151.09	151.44	158.26	158.04	153.36	152.90	152.70	152.81	
2	151.65	153.05	153.48	151.39	151.06	151.56	158.21	157.97	153.29	152.89	152.68	152.82	
3	151.61	153.21	153.38	151.22	151.02	151.67	158.18	157.92	153.24	152.88	152.67	152.83	
4	151.60	153.06	153.22	151.04	150.97	151.77	158.14	157.85	153.20	152.88	152.67	152.84	
5	151.62	153.05	153.03	150.94	150.98	151.82	158.10	157.79	153.14	152.88	152.68	152.83	
6	151.63	153.41	152.92	150.87	150.96	151.97	158.07	157.75	153.05	152.88	152.67	152.82	
7	151.60	153.37	152.90	150.82	150.86	152.27	158.03	157.66	153.00	152.88	152.66	152.81	
8	151.62	153.36	152.88	150.75	150.74	152.78	157.97	157.58	153.00	152.88	152.64	152.84	
9	151.66	153.38	152.83	150.72	150.66	153.76	157.92	157.49	153.00	152.86	152.62	152.83	
10	151.66	153.31	152.77	150.70	150.60	154.40	157.84	157.36	153.00	152.87	152.60	152.82	
11	151.66	153.27	152.72	150.69	150.60	154.80	157.76	157.20	152.99	152.87	152.58	152.82	
12	151.66	153.10	152.76	150.68	150.60	155.18	157.68	156.94	152.96	152.87	152.57	152.81	
13	151.65	152.95	152.74	150.69	150.63	155.38	157.64	156.71	152.95	152.87	152.68	152.80	
14	151.65	152.93	152.68	150.81	150.70	155.45	157.51	156.46	152.94	152.88	152.94	152.79	
15	151.70	152.97	152.62	150.89	150.69	155.58	157.36	156.23	152.94	152.88	152.90	152.77	
16	151.77	153.00	152.54	150.87	150.64	155.70	157.21	155.87	152.94	152.88	152.88	152.76	
17	151.81	152.99	152.50	150.78	150.60	155.61	157.25	155.54	152.94	152.87	152.86	152.74	
18	151.82	152.96	152.49	150.81	150.71	155.54	157.42	155.27	152.94	152.86	152.86	152.74	
19	151.85	152.93	152.46	150.74	150.90	155.60	157.60	154.82	152.93	152.86	152.86	152.74	
20	151.86	152.90	152.41	150.63	150.94	155.80	157.82	154.49	152.92	152.86	152.87	152.74	
21	151.86	152.90	152.33	150.62	151.08	156.23	158.09	154.20	152.92	152.86	152.90	152.75	
22	151.86	152.92	152.25	150.64	151.14	156.61	158.40	154.06	152.91	152.85	152.90	152.75	
23	151.86	152.96	152.18	150.62	151.15	156.91	158.52	153.93	152.90	152.84	152.90	152.75	
24	151.86	152.96	152.06	150.63	151.17	157.21	158.51	153.89	152.90	152.83	152.89	152.76	
25	151.86	152.95	151.99	150.77	151.15	157.49	158.46	153.82	152.90	152.82	152.88	152.78	
26	151.86	152.91	152.09	151.02	151.16	157.70	158.38	153.62	152.90	152.81	152.85	152.78	
27	151.85	153.00	152.07	151.18	151.14	157.94	158.34	153.53	152.90	152.81	152.83	152.78	
28	151.85	153.25	151.96	151.27	151.13	158.17	158.27	153.50	152.90	152.79	152.80	152.79	
29	151.86	153.29	151.87	151.24	151.21	158.28	158.22	153.47	152.90	152.77		152.82	
30	151.89	153.31	151.80	151.20	151.29	158.30	158.17	153.42	152.90	152.75		152.93	
31		153.35		151.17	151.36		158.10		152.90	152.72		153.15	
Mean	151.75	153.07	152.58	150.90	150.93	155.10	157.98	155.81	152.99	152.85	152.77	152.81	
Max	151.89	153.41	153.48	151.63	151.36	158.30	158.52	158.04	153.36	152.90	152.94	153.15	158.52
Min	151.60	152.21	151.80	150.62	150.60	151.44	157.21	153.42	152.90	152.72	152.57	152.74	150.60
Annual Max Momentary Gage Height	158.52		m. (MSL.) ,				at 06.00 Hours, on Oct 23, 2021						
Zero Gage at Bottom Elevation	150.40		m. (MSL.) ,			River Bed	151.37		m. (MSL.)				
Left Bank Elevation		158.31		m. (MSL.) ,									
Right Bank Elevation		158.24		m. (MSL.) ,		Drainage Are	5,020		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.91	16.20	0.62	0.35	0.52	225.00	173.20	15.20	0.00	0.00	0.00	
2	0.00	9.00	17.60	0.50	0.33	0.58	212.50	160.10	13.80	0.00	0.00	0.00	
3	0.00	12.20	15.60	0.41	0.31	0.64	205.40	153.60	12.80	0.00	0.00	0.00	
4	0.00	9.20	12.40	0.32	0.29	0.69	196.20	145.00	12.00	0.00	0.00	0.00	
5	0.00	9.00	8.60	0.27	0.29	0.71	187.00	138.20	10.80	0.00	0.00	0.00	
6	0.00	16.20	6.40	0.24	0.28	0.79	180.10	135.00	9.00	0.00	0.00	0.00	
7	0.00	15.40	6.00	0.21	0.23	0.94	170.90	127.80	8.00	0.00	0.00	0.00	
8	0.00	15.20	5.60	0.18	0.17	3.80	160.10	121.80	8.00	0.00	0.00	0.00	
9	0.00	15.60	4.60	0.16	0.13	23.20	153.60	116.40	8.00	0.00	0.00	0.00	
10	0.00	14.20	3.70	0.15	0.10	36.00	143.80	109.40	8.00	0.00	0.00	0.00	
11	0.00	13.40	3.20	0.15	0.10	45.10	135.80	103.00	7.80	0.00	0.00	0.00	
12	0.00	10.00	3.60	0.14	0.10	53.84	129.40	95.85	7.20	0.00	0.00	0.00	
13	0.00	7.00	3.40	0.15	0.12	58.44	126.20	89.53	7.00	0.00	0.00	0.00	
14	0.00	6.60	2.80	0.21	0.15	60.05	117.60	83.28	6.80	0.00	0.00	0.00	
15	0.00	7.40	2.20	0.25	0.15	63.04	109.40	77.99	6.80	0.00	0.00	0.00	
16	0.00	8.00	1.70	0.24	0.12	65.80	103.40	69.71	6.80	0.00	0.00	0.00	
17	0.00	7.80	1.50	0.19	0.10	63.73	105.00	62.12	6.80	0.00	0.00	0.00	
18	0.00	7.20	1.45	0.21	0.16	62.12	112.20	55.91	6.80	0.00	0.00	0.00	
19	0.00	6.60	1.30	0.17	0.25	63.50	123.00	45.56	6.60	0.00	0.00	0.00	
20	0.00	6.00	1.05	0.12	0.27	68.10	141.40	38.03	6.40	0.00	0.00	0.00	
21	0.00	6.00	0.97	0.11	0.34	77.99	184.70	32.00	6.40	0.00	0.00	0.00	
22	0.00	6.40	0.93	0.12	0.37	86.78	260.00	29.20	6.20	0.00	0.00	0.00	
23	0.00	7.20	0.89	0.11	0.38	95.03	296.00	26.60	6.00	0.00	0.00	0.00	
24	0.00	7.20	0.83	0.12	0.39	103.40	293.00	25.80	6.00	0.00	0.00	0.00	
25	0.00	7.00	0.80	0.19	0.38	116.40	278.00	24.40	6.00	0.00	0.00	0.00	
26	0.00	6.20	0.85	0.31	0.38	131.00	255.00	20.40	6.00	0.00	0.00	0.00	
27	0.00	8.00	0.84	0.39	0.37	156.20	245.00	18.60	6.00	0.00	0.00	0.00	
28	0.00	13.00	0.78	0.44	0.37	203.10	227.50	18.00	6.00	0.00	0.00	0.00	
29	0.00	13.80	0.74	0.42	0.41	230.00	215.00	17.40	6.00	0.00	0.00	0.00	
30	0.00	14.20	0.70	0.40	0.45	235.00	203.10	16.40	6.00	0.00	0.00	0.00	
31	0.00	15.00		0.39	0.48		187.00		6.00	0.00		0.00	
<b>Total</b>	0.00	300.91	127.23	7.89	8.32	2106.49	5682.30	2330.28	241.20	0.00	0.00	0.00	10804.62 CMSDAY
<b>Mean</b>	0.00	9.71	4.24	0.25	0.27	70.22	183.30	77.68	7.78	0.00	0.00	0.00	29.60 CMS
<b>Max</b>	0.00	16.20	17.60	0.62	0.48	235.00	296.00	173.20	15.20	0.00	0.00	0.00	296.00 CMS
<b>Min</b>	0.00	0.91	0.70	0.11	0.10	0.52	103.40	16.40	6.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	26.00	10.99	0.68	0.72	182.00	490.95	201.34	20.84	0.00	0.00	0.00	933.52 MCM
<b>Momentary Peak</b>	296.00 CMS. at 158.52 m. (MSL.) at 06.00 Hours , on Oct 23, 2021												
<b>Runoff Yield</b>	5.90 Liters/Second/Square KM.			Momentary Peak Yield			58.96 Liters/Second/Square KM.						

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Chakkarat at Ban Non Koy, Nakhon Ratchasima (M.186)

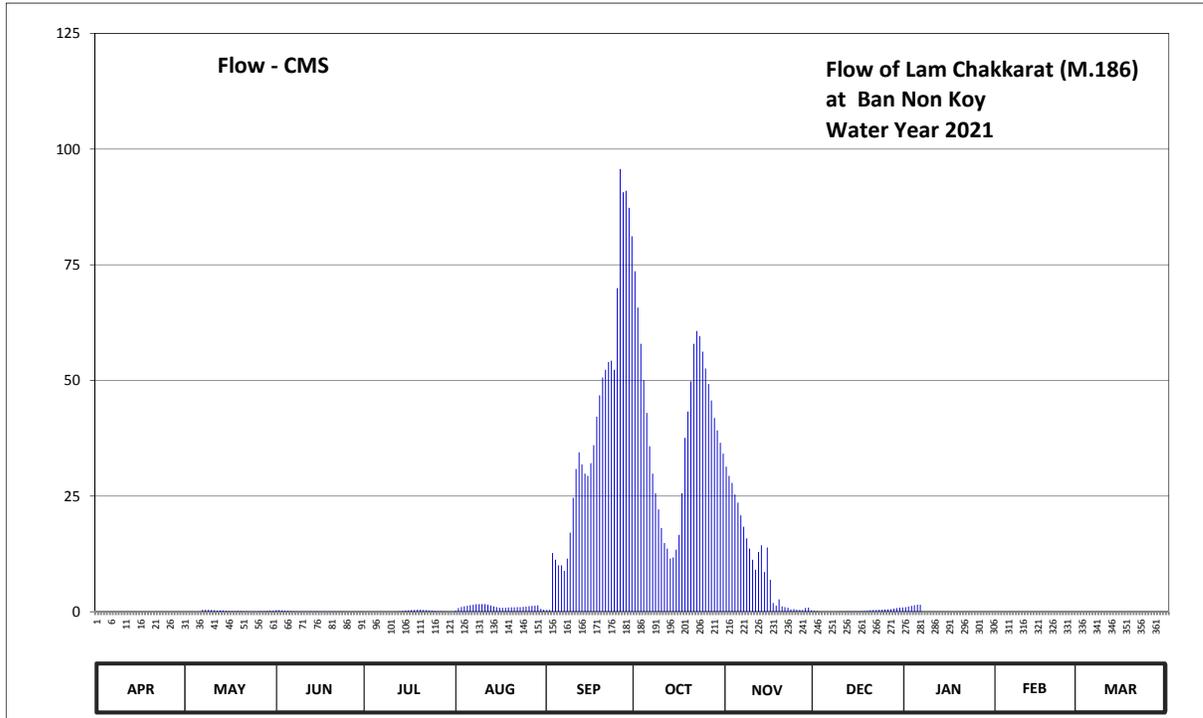
Lat 15 - 03 - 58 N Long 102 - 24 - 09 E

Location : on right at the bridge on highway.

	<b>Ban Non Koy</b>	<b>Amphoe Chakkarat</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	1,293 sq.km.			
<b>Type of Gage</b>	Water - stage recorder.			
<b>Zero Gage at Bottom</b>	+158.300 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b>	+163.112 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.			
<b>Period of Available Gage Records</b>	2008 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2008 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	2008 to date			
<b>Stability of Channel Regimes</b>	Fairly stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2021.			

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.63	161.33	159.69	158.84	159.55	159.77	162.11	160.57	158.88	160.40	160.71	160.47	
2	159.62	161.31	159.65	158.81	160.30	159.71	161.83	160.49	158.85	160.46	160.71	160.45	
3	159.61	160.27	159.57	158.78	160.42	159.82	161.55	160.43	158.81	160.54	160.70	160.44	
4	159.70	160.15	159.47	158.74	160.49	159.76	161.27	160.33	158.79	160.60	160.70	160.42	
5	160.12	159.90	159.37	158.72	160.55	159.71	161.01	160.26	158.79	160.65	160.69	160.41	
6	160.61	159.82	159.30	158.70	160.61	159.71	160.74	160.15	158.85	160.66	160.68	160.40	
7	160.87	159.79	159.23	158.69	160.66	159.66	160.51	160.05	158.84	160.66	160.67	160.39	
8	160.95	159.80	159.08	158.69	160.70	159.77	160.34	159.95	158.81	160.66	160.67	160.38	
9	160.98	159.79	159.03	158.69	160.72	160.00	160.20	159.86	158.93	160.66	160.66	160.37	
10	160.99	159.74	159.00	158.70	160.73	160.30	160.04	159.76	159.01	160.65	160.65	160.35	
11	161.00	159.69	158.99	158.74	160.72	160.55	159.91	159.67	159.08	160.65	160.63	160.34	
12	160.99	159.50	159.06	158.86	160.65	160.69	159.86	159.83	159.14	160.64	160.62	160.33	
13	160.99	159.57	159.19	159.10	160.57	160.59	159.77	159.89	159.17	160.64	160.61	160.32	
14	160.98	159.52	159.17	159.36	160.49	160.51	159.78	159.65	159.20	160.63	160.61	160.31	
15	160.97	159.41	159.15	159.53	160.40	160.49	159.85	159.87	159.20	160.63	160.61	160.30	
16	160.96	159.34	159.10	159.63	160.33	160.60	159.98	159.58	159.20	160.63	160.60	160.29	
17	160.95	159.30	159.09	159.71	160.32	160.75	160.34	159.33	159.23	160.63	160.59	160.30	
18	160.94	159.25	159.06	159.78	160.32	160.98	160.81	159.26	159.35	160.63	160.59	160.30	
19	160.95	159.37	159.02	159.82	160.37	161.15	161.02	159.38	159.51	160.63	160.58	160.31	
20	160.96	159.26	159.02	159.83	160.38	161.29	161.26	159.21	159.65	160.63	160.57	160.31	
21	160.98	159.19	159.00	159.78	160.38	161.35	161.55	159.16	159.71	160.62	160.56	160.30	
22	160.98	159.16	159.00	159.70	160.39	161.41	161.65	159.11	159.75	160.63	160.55	160.31	
23	160.96	159.13	158.99	159.62	160.40	161.42	161.61	158.99	159.79	160.63	160.54	160.31	
24	160.97	159.12	158.99	159.52	160.43	161.35	161.49	159.01	159.85	160.64	160.53	160.31	
25	160.97	159.12	158.95	159.42	160.45	161.98	161.36	158.96	159.93	160.68	160.51	160.30	
26	160.96	159.19	158.88	159.28	160.50	162.89	161.24	158.95	160.03	160.71	160.50	160.30	
27	160.96	159.26	158.88	159.26	160.53	162.72	161.11	158.93	160.11	160.72	160.49	160.28	
28	160.97	159.29	158.88	159.15	160.56	162.73	160.97	159.09	160.22	160.72	160.48	160.36	
29	161.03	159.41	158.87	159.09	160.58	162.60	160.87	159.12	160.30	160.72	160.47	160.39	
30	161.20	159.54	158.86	159.08	160.21	162.38	160.77	158.91	160.35	160.72	160.47	160.39	
31		159.47		159.07	159.86		160.68		160.37	160.71		160.40	
Mean	160.76	159.61	159.12	159.18	160.44	160.89	160.82	159.59	159.41	160.64	160.61	160.35	
Max	161.20	161.33	159.69	159.83	160.73	162.89	162.11	160.57	160.37	160.72	160.71	160.47	162.89
Min	159.61	159.12	158.86	158.69	159.55	159.66	159.77	158.91	158.79	160.40	160.48	160.28	158.69
Annual Max Momentary Gage Height	163.00		m. (MSL.) ,				at 05.00 Hours, on Sep 26, 2021						
Zero Gage at Bottom Elevation	158.30		m. (MSL.) ,			River Bed	158.44	m. (MSL.)					
Left Bank Elevation		163.18		m. (MSL.) ,									
Right Bank Elevation		163.14		m. (MSL.) ,		Drainage Area	1,293	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.35	0.01	0.28	0.39	73.58	31.35	0.22	1.00	0.00	0.00	
2	0.00	0.00	0.33	0.00	0.80	0.36	65.74	29.35	0.14	1.12	0.00	0.00	
3	0.00	0.00	0.29	0.00	1.04	12.68	57.90	27.85	0.03	1.28	0.00	0.00	
4	0.00	0.00	0.24	0.00	1.18	11.24	50.06	25.35	0.00	1.40	0.00	0.00	
5	0.00	0.00	0.19	0.00	1.30	10.04	42.97	23.60	0.00	1.50	0.00	0.00	
6	0.00	0.00	0.15	0.00	1.42	10.04	35.74	20.85	0.01	1.52	0.00	0.00	
7	0.00	0.40	0.12	0.00	1.52	8.84	29.85	18.35	0.01	0.00	0.00	0.00	
8	0.00	0.40	0.07	0.00	1.60	11.48	25.60	15.85	0.00	0.00	0.00	0.00	
9	0.00	0.40	0.06	0.00	1.64	17.10	22.10	13.64	0.03	0.00	0.00	0.00	
10	0.00	0.37	0.05	0.00	1.66	24.60	18.10	11.24	0.05	0.00	0.00	0.00	
11	0.00	0.35	0.05	0.00	1.64	30.85	14.85	9.08	0.07	0.00	0.00	0.00	
12	0.00	0.25	0.07	0.02	1.50	34.44	13.64	12.92	0.09	0.00	0.00	0.00	
13	0.00	0.29	0.10	0.08	1.34	31.85	11.48	14.36	0.09	0.00	0.00	0.00	
14	0.00	0.26	0.09	0.18	1.18	29.85	11.72	8.60	0.10	0.00	0.00	0.00	
15	0.00	0.21	0.09	0.27	1.00	29.35	13.40	13.88	0.10	0.00	0.00	0.00	
16	0.00	0.17	0.08	0.32	0.86	32.10	16.60	6.92	0.10	0.00	0.00	0.00	
17	0.00	0.15	0.07	0.36	0.84	36.00	25.60	1.88	0.12	0.00	0.00	0.00	
18	0.00	0.13	0.07	0.39	0.84	42.16	37.57	1.29	0.18	0.00	0.00	0.00	
19	0.00	0.19	0.06	0.41	0.94	46.75	43.24	2.68	0.26	0.00	0.00	0.00	
20	0.00	0.13	0.06	0.42	0.96	50.62	49.78	1.15	0.33	0.00	0.00	0.00	
21	0.00	0.10	0.05	0.39	0.96	52.30	57.90	1.01	0.36	0.00	0.00	0.00	
22	0.00	0.09	0.05	0.35	0.98	53.98	60.70	0.87	0.38	0.00	0.00	0.00	
23	0.00	0.08	0.05	0.31	1.00	54.26	59.58	0.53	0.40	0.00	0.00	0.00	
24	0.00	0.08	0.05	0.26	1.06	52.30	56.22	0.59	0.43	0.00	0.00	0.00	
25	0.00	0.08	0.04	0.21	1.10	69.94	52.58	0.45	0.47	0.00	0.00	0.00	
26	0.00	0.10	0.02	0.14	1.20	95.70	49.22	0.42	0.52	0.00	0.00	0.00	
27	0.00	0.13	0.02	0.13	1.26	90.68	45.67	0.36	0.56	0.00	0.00	0.00	
28	0.00	0.15	0.02	0.09	1.32	90.97	41.89	0.81	0.64	0.00	0.00	0.00	
29	0.00	0.21	0.02	0.07	1.36	87.30	39.19	0.90	0.80	0.00	0.00	0.00	
30	0.00	0.27	0.02	0.07	0.62	81.14	36.52	0.31	0.90	0.00	0.00	0.00	
31		0.24		0.07	0.43		34.18		0.94	0.00		0.00	
<b>Total</b>	0.00	5.23	2.93	4.55	34.83	1199.31	1193.17	296.44	8.33	7.82	0.00	0.00	2752.61 CMSDAY
<b>Mean</b>	0.00	0.17	0.10	0.15	1.12	39.98	38.49	9.88	0.27	0.25	0.00	0.00	7.54 CMS
<b>Max</b>	0.00	0.40	0.35	0.42	1.66	95.70	73.58	31.35	0.94	1.52	0.00	0.00	95.70 CMS
<b>Min</b>	0.00	0.00	0.02	0.00	0.28	0.36	11.48	0.31	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.45	0.25	0.39	3.01	103.62	103.09	25.61	0.72	0.68	0.00	0.00	237.83 MCM
<b>Momentary Peak</b>	99.00 CMS. at 163.00 m. (MSL.) at 05.00 Hours , on Sep 26, 2021												
<b>Runoff Yield</b>	5.83 Liters/Second/Square KM.			Momentary Peak Yield			76.57 Liters/Second/Square KM.						

**WATER YEAR : 2021****MUN RIVER BASIN****Huai Samran at Ban Khwaw, Si Sa Ket (M.190)**

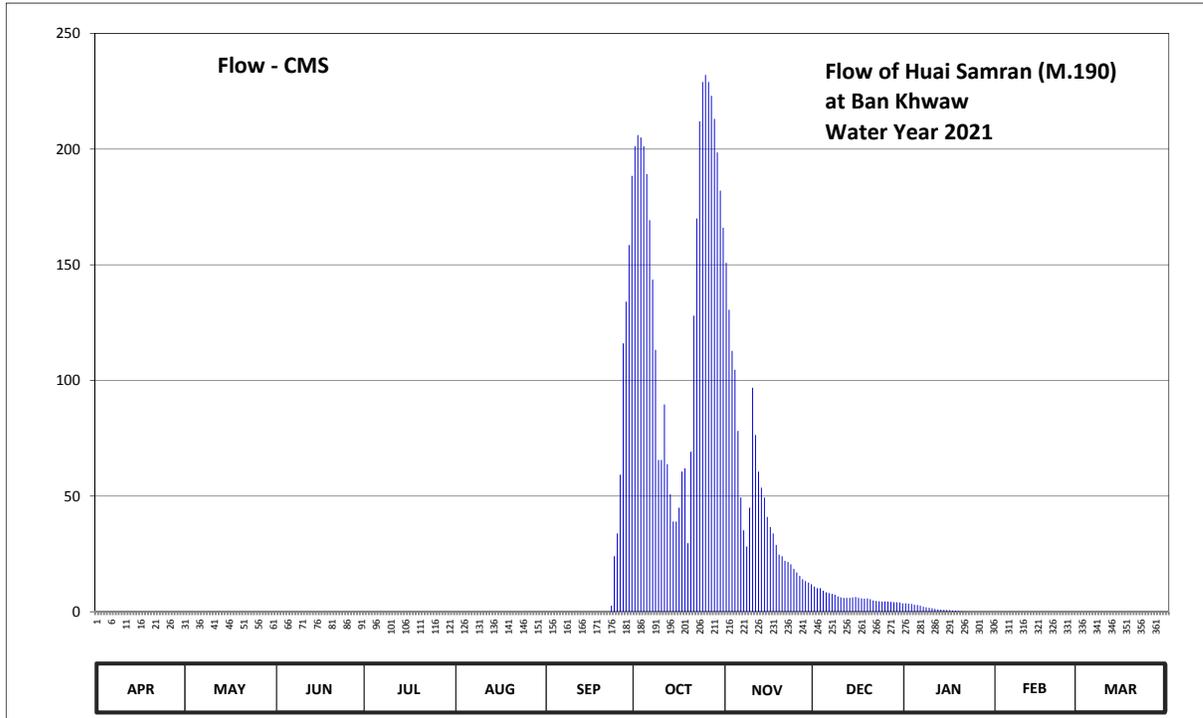
Lat 15 - 00 - 38 N Long 104 - 07 - 42 E

Location : on right at the bridge on highway.

	<b>Ban Khwaw</b>	<b>Amphoe Uthumphon Phisai</b>	<b>Changwat</b>	<b>Si Sa Ket</b>
<b>Drainage Area</b>	2,371 sq.km.			
<b>Type of Gage</b>	Water - stage recorder.			
<b>Zero Gage at Bottom</b>	+119.700 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b>	+129.804 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.			
<b>Period of Available Gage Records</b>	2008 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2008 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	2008 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2021.			

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.76	122.34	122.24	122.08	121.78	121.38	127.08	126.43	124.51	124.21	123.64	123.20	
2	122.73	122.34	122.23	122.08	121.77	121.36	127.13	126.07	124.49	124.20	123.63	123.18	
3	122.71	122.34	122.21	122.07	121.75	121.34	127.12	125.67	124.49	124.19	123.62	123.16	
4	122.69	122.34	122.20	122.05	121.74	121.35	127.08	125.42	124.46	124.17	123.61	123.14	
5	122.68	122.34	122.18	122.04	121.73	121.34	126.94	125.29	124.44	124.16	123.59	123.13	
6	122.65	122.34	122.17	122.03	121.72	121.32	126.69	125.11	124.43	124.14	123.57	123.11	
7	122.62	122.33	122.19	122.02	121.70	121.30	126.31	124.96	124.42	124.11	123.55	123.09	
8	122.60	122.33	122.21	122.01	121.69	121.28	125.68	124.86	124.41	124.09	123.54	123.07	
9	122.60	122.33	122.21	122.00	121.67	121.28	125.22	125.07	124.38	124.07	123.52	123.05	
10	122.58	122.33	122.23	121.98	121.63	121.30	125.22	125.37	124.36	124.05	123.50	123.03	
11	122.57	122.33	122.23	121.97	121.61	121.30	125.34	125.28	124.35	124.02	123.49	123.01	
12	122.55	122.33	122.23	121.95	121.59	121.30	125.21	125.19	124.35	124.00	123.47	123.00	
13	122.54	122.33	122.23	121.95	121.56	121.29	125.12	125.14	124.35	123.98	123.46	122.99	
14	122.54	122.33	122.23	121.94	121.54	121.28	125.01	125.11	124.36	123.96	123.44	122.98	
15	122.54	122.33	122.23	121.94	121.55	121.29	125.01	125.03	124.37	123.95	123.43	122.97	
16	122.52	122.33	122.23	121.93	121.53	121.31	125.07	124.98	124.35	123.93	123.42	122.95	
17	122.51	122.33	122.23	121.92	121.50	121.31	125.19	124.94	124.34	123.91	123.41	122.93	
18	122.50	122.33	122.23	121.91	121.48	121.35	125.20	124.87	124.33	123.89	123.40	122.92	
19	122.49	122.33	122.24	121.90	121.55	121.53	124.88	124.81	124.34	123.87	123.39	122.92	
20	122.49	122.33	122.24	121.88	121.53	121.75	125.24	124.80	124.32	123.85	123.37	122.90	
21	122.46	122.33	122.20	121.87	121.50	121.91	126.02	124.76	124.29	123.83	123.35	122.89	
22	122.44	122.33	122.18	121.86	121.47	122.48	126.70	124.75	124.28	123.81	123.34	122.88	
23	122.43	122.33	122.17	121.85	121.45	124.14	127.19	124.73	124.27	123.80	123.32	122.88	
24	122.41	122.33	122.15	121.85	121.49	124.80	127.36	124.69	124.26	123.79	123.29	122.88	
25	122.41	122.32	122.14	121.87	121.49	124.94	127.39	124.66	124.26	123.78	123.27	122.87	
26	122.38	122.31	122.12	121.90	121.47	125.18	127.36	124.63	124.26	123.76	123.25	122.87	
27	122.37	122.30	122.12	121.90	121.47	125.75	127.30	124.60	124.25	123.74	123.23	122.87	
28	122.34	122.29	122.11	121.88	121.45	126.14	127.20	124.58	124.24	123.73	123.22	122.86	
29	122.34	122.28	122.09	121.87	121.43	126.55	127.05	124.56	124.24	123.71		122.86	
30	122.34	122.27	122.09	121.85	121.41	126.93	126.85	124.54	124.23	123.69		122.85	
31		122.27		121.81	121.39		126.65		124.21	123.65		122.84	
Mean	122.53	122.32	122.19	121.94	121.57	122.53	126.22	125.03	124.34	123.94	123.44	122.98	
Max	122.76	122.34	122.24	122.08	121.78	126.93	127.39	126.43	124.51	124.21	123.64	123.20	127.39
Min	122.34	122.27	122.09	121.81	121.39	121.28	124.88	124.54	124.21	123.65	123.22	122.84	121.28
Annual Max Momentary Gage Height	127.39		m. (MSL.) ,				at 08.00 Hours, on Oct 25, 2021						
Zero Gage at Bottom Elevation	119.70		m. (MSL.) ,			River Bed	120.84	m. (MSL.)					
Left Bank Elevation	129.81		m. (MSL.) ,										
Right Bank Elevation	129.86		m. (MSL.) ,			Drainage Are	2,371	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	201.20	150.80	10.85	3.65	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	206.00	130.50	10.15	3.50	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	205.00	112.80	10.15	3.35	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	201.20	104.60	9.10	3.05	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	189.20	78.20	8.40	2.90	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	169.20	49.40	8.05	2.60	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	143.60	35.20	7.70	2.15	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	113.20	28.20	7.35	1.90	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	65.60	45.00	6.60	1.70	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	65.60	96.80	6.20	1.50	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	89.60	76.40	6.00	1.20	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	63.80	60.60	6.00	1.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	50.80	53.60	6.00	0.90	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	39.00	49.40	6.20	0.80	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	39.00	41.00	6.40	0.75	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	45.00	36.60	6.00	0.65	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	60.60	33.80	5.80	0.55	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	62.00	28.90	5.60	0.45	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	29.60	24.70	5.80	0.35	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	69.20	24.00	5.40	0.25	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	128.00	22.00	4.85	0.15	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	170.00	21.50	4.70	0.05	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	2.60	212.00	20.50	4.55	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	24.00	229.00	18.50	4.40	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	33.80	232.00	17.00	4.40	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	59.20	229.00	15.50	4.40	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	116.00	223.00	14.00	4.25	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	134.00	213.00	13.30	4.10	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	158.50	198.50	12.60	4.10	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	188.40	182.00	11.90	3.95	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	166.00	166.00	3.65	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	716.50	4290.90	1427.30	191.10	33.40	0.00	0.00	6659.20 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	23.88	138.42	47.58	6.16	1.08	0.00	0.00	18.24 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	188.40	232.00	150.80	10.85	3.65	0.00	0.00	232.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	29.60	11.90	3.65	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.00	61.91	370.73	123.32	16.51	2.89	0.00	0.00	575.35 MCM
<b>Momentary Peak</b>	232.00	CMS. at 127.39 m. (MSL.) at 08.00 Hours , on Oct 25, 2021											
<b>Runoff Yield</b>	7.69	Liters/Second/Square KM. Momentary Peak Yield 97.85 Liters/Second/Square KM.											

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Ta Khong at Ban Khok Kruad, Nakhon Ratchasima (M.191)

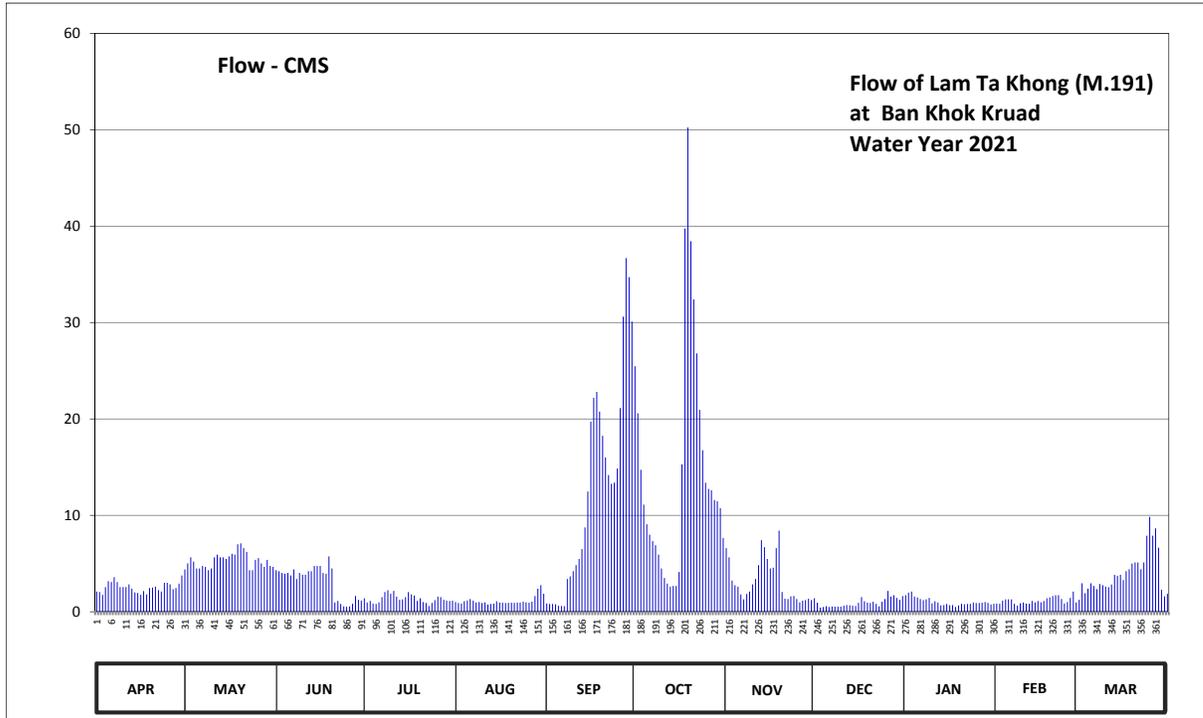
Lat 14 - 55 - 58 N Long 101 - 57 - 07 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Khok Kruad	<b>Amphoe</b> Mueang	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	2,856 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+191.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+195.991 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.90	193.21	193.20	193.30	193.20	193.13	194.76	193.45	193.30	193.38	193.13	193.26	
2	192.89	193.28	193.19	193.18	193.15	193.10	194.51	193.35	193.17	193.43	193.11	193.58	
3	192.83	193.35	193.17	193.23	193.12	193.10	194.13	193.08	192.83	193.45	193.24	193.42	
4	192.99	193.30	193.16	193.12	193.22	193.09	193.85	193.02	192.89	193.34	193.27	193.50	
5	193.07	193.22	193.17	193.10	193.24	193.01	193.68	193.00	192.97	193.32	193.27	193.58	
6	193.06	193.22	193.14	193.19	193.28	192.99	193.58	192.84	192.90	193.28	193.27	193.54	
7	193.12	193.25	193.21	193.33	193.24	192.97	193.52	192.72	192.94	193.25	193.11	193.49	
8	193.06	193.24	193.10	193.44	193.18	193.10	193.48	192.85	192.93	193.27	193.01	193.57	
9	192.99	193.20	193.17	193.47	193.20	193.13	193.38	192.90	192.93	193.31	193.14	193.55	
10	192.99	193.22	193.15	193.41	193.15	193.19	193.22	193.03	192.92	193.13	193.18	193.53	
11	192.99	193.35	193.15	193.46	193.19	193.26	193.11	193.10	193.02	193.22	193.12	193.52	
12	193.03	193.38	193.19	193.34	193.07	193.33	193.04	193.26	193.05	193.18	193.11	193.56	
13	192.96	193.35	193.19	193.26	193.10	193.44	193.00	193.53	193.04	193.03	193.23	193.68	
14	192.88	193.35	193.25	193.27	193.12	193.65	193.01	193.46	193.01	193.05	193.19	193.67	
15	192.87	193.33	193.25	193.33	193.22	193.96	193.01	193.33	193.00	193.10	193.23	193.68	
16	192.83	193.36	193.25	193.44	193.18	194.46	193.18	193.22	193.16	193.04	193.19	193.62	
17	192.91	193.39	193.17	193.40	193.17	194.60	194.17	193.23	193.33	193.05	193.23	193.72	
18	192.84	193.38	193.16	193.37	193.15	194.63	195.24	193.45	193.22	192.90	193.30	193.74	
19	192.97	193.49	193.36	193.23	193.16	194.52	195.47	193.62	193.17	193.03	193.32	193.80	
20	192.98	193.50	193.22	193.30	193.17	194.37	195.21	193.44	193.15	193.11	193.36	193.81	
21	193.00	193.45	193.18	193.20	193.16	194.22	195.03	193.29	193.21	193.09	193.38	193.81	
22	192.93	193.41	193.23	193.15	193.18	194.09	194.82	193.28	193.11	193.10	193.38	193.74	
23	192.90	193.20	193.10	192.99	193.17	194.02	194.53	193.35	192.96	193.11	193.28	193.81	
24	193.05	193.20	192.96	193.16	193.21	194.03	194.27	193.36	193.21	193.18	193.13	194.01	
25	193.05	193.32	192.91	193.25	193.19	194.14	194.03	193.28	193.28	193.15	193.20	194.11	
26	193.03	193.34	192.96	193.34	193.17	194.54	193.98	193.19	193.46	193.15	193.31	194.01	
27	192.95	193.28	193.11	193.33	193.21	194.97	193.97	193.24	193.34	193.17	193.45	194.05	
28	192.97	193.24	193.36	193.26	193.36	195.16	193.89	193.25	193.38	193.20	193.18	193.93	
29	193.04	193.32	193.26	193.24	193.50	195.10	193.88	193.29	193.31	193.16		193.48	
30	193.14	193.25	193.24	193.23	193.55	194.95	193.82	193.25	193.26	193.08		193.35	
31		193.24		193.24	193.41		193.55		193.36	193.11		193.41	
Mean	192.97	193.31	193.17	193.28	193.21	193.88	193.95	193.22	193.12	193.17	193.23	193.66	
Max	193.14	193.50	193.36	193.47	193.55	195.16	195.47	193.62	193.46	193.45	193.45	194.11	195.47
Min	192.83	193.20	192.91	192.99	193.07	192.97	193.00	192.72	192.83	192.90	193.01	193.26	192.72
Annual Max Momentary Gage Height	195.62		m. (MSL.) ,				at 21.00 Hours ,						on Oct 18, 2021
Zero Gage at Bottom Elevation	191.80		m. (MSL.) ,			River Bed	191.78		m. (MSL.)				
Left Bank Elevation		195.96		m. (MSL.) ,									
Right Bank Elevation		195.98		m. (MSL.) ,		Drainage Are	2,856		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.10	4.39	4.30	1.40	1.00	0.86	25.46	6.60	1.40	1.72	0.86	1.24	
2	2.05	5.02	4.21	0.96	0.90	0.80	20.58	5.65	0.94	1.98	0.82	2.96	
3	1.75	5.65	4.03	1.12	0.84	0.80	14.72	3.24	0.43	2.10	1.16	1.92	
4	2.55	5.20	3.94	0.84	1.08	0.78	11.10	2.76	0.49	1.56	1.28	2.40	
5	3.16	4.48	4.03	0.80	1.16	0.62	9.08	2.60	0.57	1.48	1.28	2.96	
6	3.08	4.48	3.76	0.98	1.32	0.59	7.98	1.80	0.50	1.32	1.28	2.68	
7	3.58	4.75	4.39	1.52	1.16	0.57	7.32	1.28	0.54	1.20	0.82	2.34	
8	3.08	4.66	3.40	2.04	0.96	3.40	6.90	1.85	0.53	1.28	0.62	2.89	
9	2.55	4.30	4.03	2.22	1.00	3.67	5.92	2.10	0.53	1.44	0.88	2.75	
10	2.55	4.48	3.85	1.86	0.90	4.21	4.48	2.84	0.52	0.86	0.96	2.61	
11	2.55	5.65	3.85	2.16	0.98	4.84	3.49	3.40	0.64	1.08	0.84	2.54	
12	2.84	5.92	4.21	1.56	0.74	5.47	2.92	4.84	0.70	0.96	0.82	2.82	
13	2.40	5.65	4.21	1.24	0.80	6.50	2.60	7.43	0.68	0.66	1.12	3.82	
14	2.00	5.65	4.75	1.28	0.84	8.75	2.68	6.70	0.62	0.70	0.98	3.73	
15	1.95	5.47	4.75	1.52	1.08	12.48	2.68	5.47	0.60	0.80	1.12	3.82	
16	1.75	5.74	4.75	2.04	0.96	19.72	4.12	4.48	0.92	0.68	0.98	3.28	
17	2.15	6.01	4.03	1.80	0.94	22.20	15.28	4.57	1.52	0.70	1.12	4.20	
18	1.80	5.92	3.94	1.68	0.90	22.80	39.76	6.60	1.08	0.50	1.40	4.40	
19	2.45	7.00	5.74	1.12	0.92	20.76	50.23	8.42	0.94	0.66	1.48	5.00	
20	2.50	7.10	4.48	1.40	0.94	18.25	38.44	2.04	0.90	0.82	1.64	5.12	
21	2.60	6.60	0.96	1.00	0.92	16.00	32.39	1.36	1.04	0.78	1.72	5.12	
22	2.25	6.20	1.12	0.90	0.96	14.17	26.80	1.32	0.82	0.80	1.72	4.40	
23	2.10	4.30	0.80	0.59	0.94	13.26	20.94	1.60	0.56	0.82	1.32	5.12	
24	3.00	4.30	0.56	0.92	1.04	13.39	16.75	1.64	1.04	0.96	0.86	7.89	
25	3.00	5.38	0.51	1.20	0.98	14.86	13.39	1.32	1.32	0.90	1.00	9.84	
26	2.84	5.56	0.56	1.56	0.94	21.12	12.74	0.98	2.16	0.90	1.44	7.89	
27	2.35	5.02	0.82	1.52	1.04	30.62	12.61	1.16	1.56	0.94	2.10	8.65	
28	2.45	4.66	1.64	1.24	1.64	36.68	11.58	1.20	1.72	1.00	0.96	6.65	
29	2.92	5.38	1.24	1.16	2.40	34.70	11.46	1.36	1.44	0.92		2.28	
30	3.76	4.75	1.16	1.12	2.75	30.10	10.74	1.20	1.24	0.76		1.60	
31		4.66		1.16	1.86		7.65		1.64	0.82		1.86	
<b>Total</b>	76.11	164.33	94.02	41.91	34.89	382.97	452.79	97.81	29.59	32.10	32.58	124.78	1563.88 CMSDAY
<b>Mean</b>	2.54	5.30	3.13	1.35	1.13	12.77	14.61	3.26	0.95	1.04	1.16	4.03	4.28 CMS
<b>Max</b>	3.76	7.10	5.74	2.22	2.75	36.68	50.23	8.42	2.16	2.10	2.10	9.84	50.23 CMS
<b>Min</b>	1.75	4.30	0.51	0.59	0.74	0.57	2.60	0.98	0.43	0.50	0.62	1.24	0.43 CMS
<b>Runoff</b>	6.58	14.20	8.12	3.62	3.01	33.09	39.12	8.45	2.56	2.77	2.81	10.78	135.12 MCM
<b>Momentary Peak</b>	57.94 CMS. at 195.62 m. (MSL.) at 21.00 Hours , on Oct 18, 2021												
<b>Runoff Yield</b>	1.50 Liters/Second/Square KM.			Momentary Peak Yield			20.29 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Nawarat Bridge , Chiang Mai (P.1)

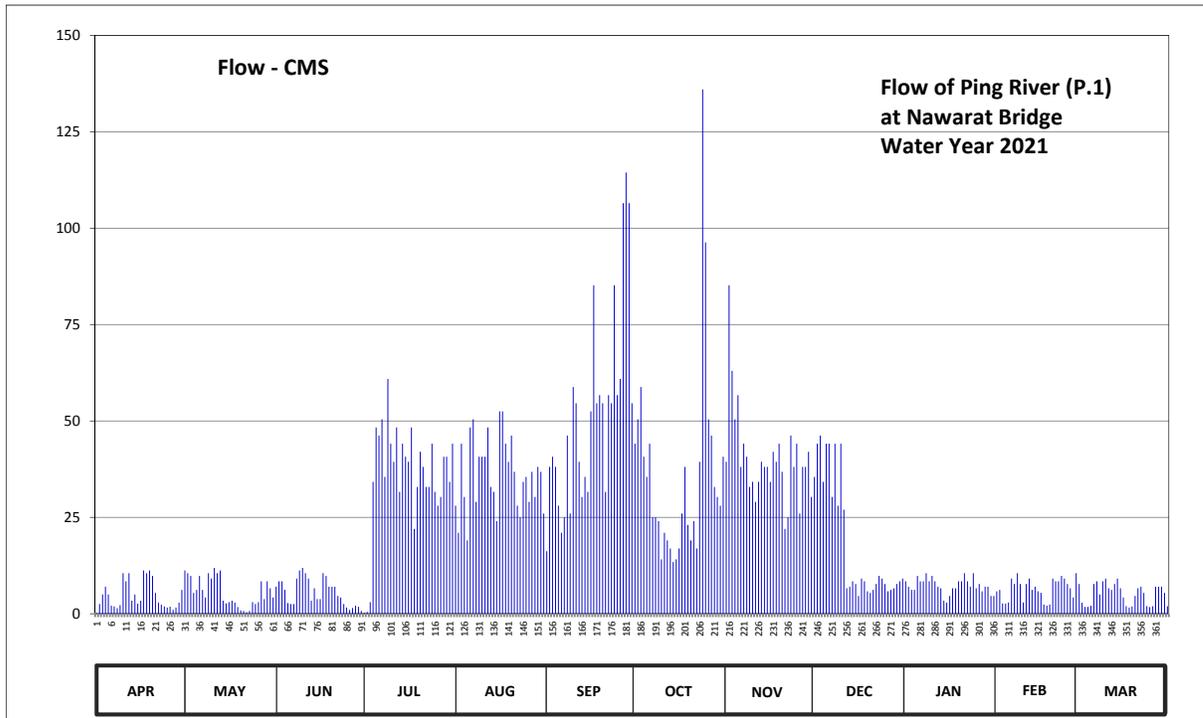
Lat 18 - 47 - 13 N Long 99 - 00 - 17 E

Location : on left bank about 100 meters downstream from Nawarat Bridge.

	<b>Ban</b>	Nawarat Bridge	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	6,287	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+300.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near automatic gage building				<b>Elevation</b>	+305.310 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1921 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1954 - 1960 , 1967 to date					
<b>Rated by Float</b>	1936 - 1938					
<b>Rated by Current Meter</b>	1954 - 1960 , 1967 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Flow regulated by Mae Ngat Dam and Mae Taeng Weir above gage site. Phaya Kham weir situated about 2 Kilometers downstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.34	302.06	302.00	301.41	301.89	301.76	302.01	301.98	301.95	302.02	301.97	302.01	
2	301.81	302.05	302.02	301.45	301.82	301.97	302.04	302.16	302.01	302.00	301.98	301.87	
3	301.95	302.04	302.02	301.90	302.01	301.99	302.08	302.10	302.02	301.98	301.84	301.68	
4	302.00	301.96	301.98	301.94	301.91	301.97	301.99	302.04	301.94	301.98	301.83	301.68	
5	301.95	301.98	301.86	302.03	301.80	301.89	301.95	302.07	302.01	302.04	301.89	301.73	
6	301.74	302.04	301.81	302.02	302.03	301.82	302.01	301.97	302.01	302.02	302.03	302.01	
7	301.70	301.98	301.81	302.04	302.04	301.86	301.86	302.01	301.91	302.02	302.01	302.02	
8	301.62	301.93	302.03	301.95	301.90	302.02	301.86	301.99	302.01	302.05	302.05	301.95	
9	301.76	302.05	302.06	302.09	301.99	301.87	301.85	301.93	301.89	302.02	302.01	302.02	
10	302.05	302.03	302.07	302.01	301.99	302.08	301.73	301.94	302.01	302.04	301.89	302.03	
11	302.02	302.07	302.05	301.98	301.99	302.06	301.82	301.90	301.88	302.02	302.01	301.99	
12	302.05	302.05	302.03	302.03	302.03	301.98	301.80	301.94	301.99	302.00	302.03	301.98	
13	301.91	302.06	301.91	301.92	301.93	301.91	301.77	301.98	302.00	301.99	301.98	302.01	
14	301.95	301.91	301.99	302.01	301.92	301.95	301.72	301.97	302.02	301.91	302.00	302.03	
15	301.83	301.84	301.92	301.99	301.85	301.92	301.73	301.97	302.01	301.88	301.97	301.99	
16	301.91	301.90	301.92	301.98	302.05	302.05	301.77	301.94	301.94	301.94	301.96	301.93	
17	302.06	301.91	302.05	302.03	302.05	302.16	301.87	302.00	302.03	301.99	301.79	301.72	
18	302.05	301.88	302.04	301.83	302.01	302.06	301.97	301.98	302.02	301.99	301.74	301.65	
19	302.06	301.67	302.00	301.93	301.98	302.07	301.84	302.01	301.97	302.02	301.79	301.70	
20	302.04	301.52	302.00	302.00	302.02	302.06	301.80	301.96	301.96	302.02	302.03	301.94	
21	301.96	301.50	302.00	301.97	301.96	301.92	301.85	301.83	301.98	302.05	302.02	301.99	
22	301.88	301.44	301.94	301.93	301.89	302.07	301.77	301.86	302.01	302.02	302.02	302.00	
23	301.78	301.50	301.93	301.93	301.86	302.06	301.98	302.02	302.04	302.00	302.04	301.96	
24	301.70	301.90	301.81	302.01	301.94	302.16	302.46	301.97	302.03	302.05	302.03	301.72	
25	301.65	301.81	301.65	301.92	301.95	302.07	302.19	302.01	302.01	301.99	302.01	301.67	
26	301.69	301.90	301.54	301.89	301.90	302.09	302.04	301.87	301.97	302.01	301.99	301.71	
27	301.55	302.02	301.63	301.91	301.96	302.25	302.02	301.97	301.98	301.97	301.93	302.00	
28	301.65	301.92	301.73	301.99	301.91	302.31	301.93	301.97	301.99	302.00	302.05	302.00	
29	301.88	302.02	301.69	301.99	301.97	302.25	301.91	302.00	302.01	302.00		302.00	
30	301.98	301.99	301.50	301.94	301.96	302.06	301.89	301.91	302.02	301.94		301.96	
31		301.93		302.01	301.87		301.99		302.03	301.94		301.71	
Mean	301.85	301.90	301.90	301.94	301.95	302.02	301.92	301.98	301.99	302.00	301.96	301.89	
Max	302.06	302.07	302.07	302.09	302.05	302.31	302.46	302.16	302.04	302.05	302.05	302.03	302.46
Min	301.34	301.44	301.50	301.41	301.80	301.76	301.72	301.83	301.88	301.88	301.74	301.65	301.34
Annual Max Momentary Gage Height	302.52		m. (MSL.) ,				at 10.00 Hours ,						
Zero Gage at Bottom Elevation	300.50		m. (MSL.) ,				River Bed	299.25		m. (MSL.)			
Left Bank Elevation		307.86		m. (MSL.) ,									
Right Bank Elevation		307.79		m. (MSL.) ,		Drainage Are	6,287		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	11.20	7.00	0.26	28.00	16.20	44.10	39.40	35.50	8.40	5.80	7.70	
2	2.50	10.50	8.40	0.48	21.00	38.10	50.40	85.20	44.10	7.00	6.20	2.83	
3	5.00	9.80	8.40	3.00	44.10	40.70	58.80	63.00	46.20	6.20	2.66	1.77	
4	7.00	5.40	6.20	34.20	30.30	38.10	40.70	50.40	34.20	6.20	2.61	1.77	
5	5.00	6.20	2.78	48.30	19.00	28.00	35.50	56.70	44.10	9.80	2.94	2.05	
6	2.10	9.80	2.50	46.20	48.30	21.00	44.10	38.10	44.10	8.40	9.10	7.70	
7	1.88	6.20	2.50	50.40	50.40	25.00	25.00	44.10	30.30	8.40	7.70	8.40	
8	1.43	4.20	9.10	35.50	29.00	46.20	25.00	40.70	44.10	10.50	10.50	5.00	
9	2.22	10.50	11.20	60.90	40.70	26.00	24.00	32.90	28.00	8.40	7.70	8.40	
10	10.50	9.10	11.90	44.10	40.70	58.80	14.10	34.20	44.10	9.80	2.94	9.10	
11	8.40	11.90	10.50	39.40	40.70	54.60	21.00	29.00	27.00	8.40	7.70	6.60	
12	10.50	10.50	9.10	48.30	48.30	39.40	19.00	34.20	6.60	7.00	9.10	6.20	
13	3.40	11.20	3.40	31.60	32.90	30.30	16.90	39.40	7.00	6.60	6.20	7.70	
14	5.00	3.40	6.60	44.10	31.60	35.50	13.40	38.10	8.40	3.40	7.00	9.10	
15	2.61	2.66	3.80	40.70	24.00	31.60	14.10	38.10	7.70	2.89	5.80	6.60	
16	3.40	3.00	3.80	39.40	52.50	52.50	16.90	34.20	4.60	4.60	5.40	4.20	
17	11.20	3.40	10.50	48.30	52.50	85.20	26.00	42.00	9.10	6.60	2.38	1.99	
18	10.50	2.89	9.80	22.00	44.10	54.60	38.10	39.40	8.40	6.60	2.10	1.60	
19	11.20	1.71	7.00	32.90	39.40	56.70	23.00	44.10	5.80	8.40	2.38	1.88	
20	9.80	0.87	7.00	42.00	46.20	54.60	19.00	36.80	5.40	8.40	9.10	4.60	
21	5.40	0.76	7.00	38.10	36.80	31.60	24.00	22.00	6.20	10.50	8.40	6.60	
22	2.89	0.42	4.60	32.90	28.00	56.70	16.90	25.00	7.70	8.40	8.40	7.00	
23	2.33	0.76	4.20	32.90	25.00	54.60	39.40	46.20	9.80	7.00	9.80	5.40	
24	1.88	3.00	2.50	44.10	34.20	85.20	136.00	38.10	9.10	10.50	9.10	1.99	
25	1.60	2.50	1.60	31.60	35.50	56.70	96.30	44.10	7.70	6.60	7.70	1.71	
26	1.82	3.00	0.98	28.00	29.00	60.90	50.40	26.00	5.80	7.70	6.60	1.94	
27	1.04	8.40	1.49	30.30	36.80	106.50	46.20	38.10	6.20	5.80	4.20	7.00	
28	1.60	3.80	2.05	40.70	30.30	114.40	32.90	38.10	6.60	7.00	10.50	7.00	
29	2.89	8.40	1.82	40.70	38.10	106.50	30.30	42.00	7.70	7.00		7.00	
30	6.20	6.60	0.76	34.20	36.80	54.60	28.00	30.30	8.40	4.60		5.40	
31		4.20		44.10	26.00		40.70		9.10	4.60		1.94	
<b>Total</b>	141.43	176.27	168.48	1109.64	1120.20	1560.80	1110.20	1209.90	569.00	225.69	180.01	158.17	7729.79 CMSDAY
<b>Mean</b>	4.71	5.69	5.62	35.79	36.14	52.03	35.81	40.33	18.35	7.28	6.43	5.10	21.18 CMS
<b>Max</b>	11.20	11.90	11.90	60.90	52.50	114.40	136.00	85.20	46.20	10.50	10.50	9.10	136.00 CMS
<b>Min</b>	0.14	0.42	0.76	0.26	19.00	16.20	13.40	22.00	4.60	2.89	2.10	1.60	0.14 CMS
<b>Runoff</b>	12.22	15.23	14.56	95.87	96.79	134.85	95.92	104.54	49.16	19.50	15.55	13.67	667.85 MCM
<b>Momentary Peak</b>	145.40	CMS. at 302.52 m. (MSL.) at 10.00 Hours , on Oct 24, 2021											
<b>Runoff Yield</b>	3.37	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>				23.13	Liters/Second/Square KM.				

**WATER YEAR : 2021****PING RIVER BASIN****Ping River at Ban Tha Khae , Tak (P.2A)**

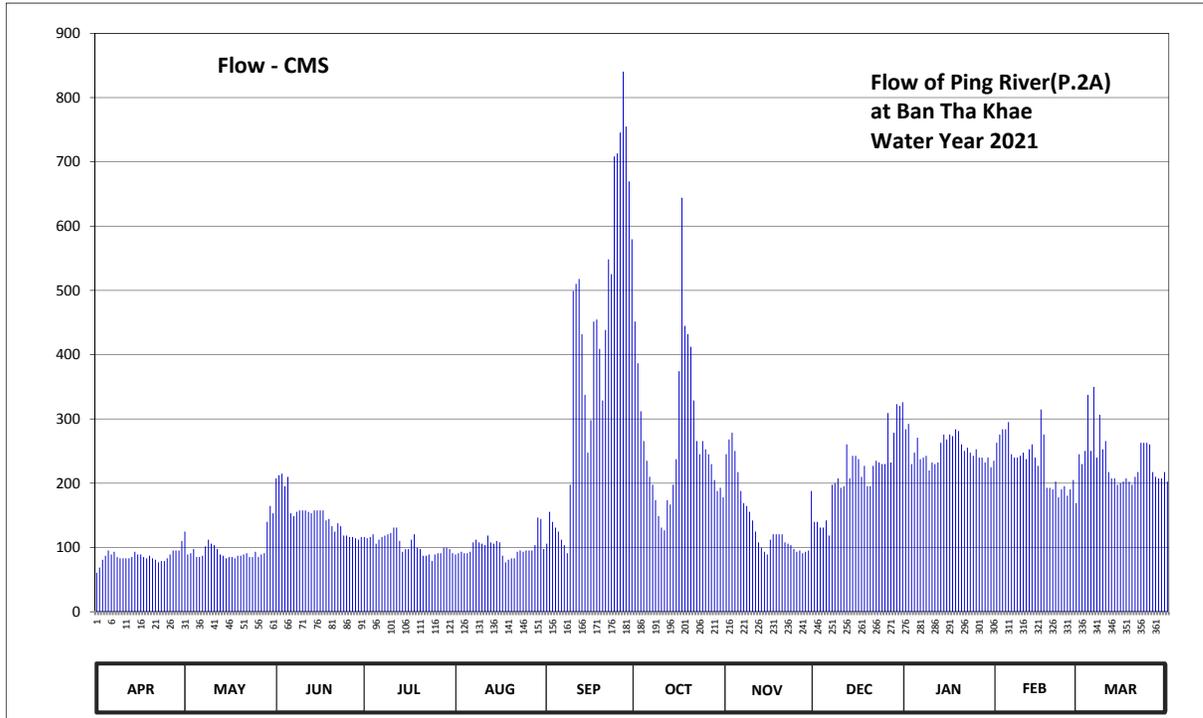
Lat 16 - 51 - 34 N Long 99 - 07 - 12 E

Location : on right bank about 200 meters downstream from Kittikhachon I Bridge.

	<b>Ban Tha Khae</b>	<b>Amphoe Mueang</b>	<b>Changwat Tak</b>
<b>Drainage Area</b>	38,565 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+104.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near automatic gage building	<b>Elevation</b>	+116.118 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1952 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1952 - 1960 , 1963 - 1967 , 1971 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1952 - 1960 , 1963 - 1967 , 1971 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Phumiphol Dam reservoir since 1964. Stage-discharge relation defined by 23 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.95	104.26	104.62	104.22	104.09	104.17	105.47	104.77	104.33	104.92	104.84	104.77	
2	103.99	104.09	104.64	104.21	104.10	104.40	105.27	104.86	104.33	104.95	104.89	104.71	
3	104.05	104.10	104.65	104.22	104.11	104.33	105.02	104.90	104.29	104.71	104.92	104.79	
4	104.08	104.13	104.57	104.24	104.10	104.29	104.85	104.79	104.29	104.78	104.92	105.11	
5	104.12	104.07	104.63	104.17	104.10	104.26	104.73	104.66	104.34	104.87	104.96	104.79	
6	104.09	104.07	104.39	104.20	104.11	104.20	104.63	104.54	104.23	104.74	104.77	105.15	
7	104.11	104.08	104.37	104.22	104.18	104.16	104.58	104.46	104.58	104.75	104.75	104.75	
8	104.07	104.15	104.40	104.23	104.20	104.10	104.48	104.44	104.59	104.76	104.75	105.00	
9	104.06	104.20	104.41	104.24	104.18	104.58	104.37	104.40	104.62	104.67	104.76	104.80	
10	104.06	104.17	104.41	104.25	104.17	105.60	104.29	104.34	104.56	104.72	104.78	104.85	
11	104.06	104.16	104.41	104.29	104.16	105.63	104.27	104.26	104.57	104.71	104.74	104.66	
12	104.06	104.13	104.40	104.29	104.23	105.65	104.48	104.18	104.83	104.72	104.80	104.62	
13	104.07	104.09	104.39	104.19	104.18	105.41	104.45	104.14	104.62	104.84	104.83	104.62	
14	104.11	104.08	104.41	104.11	104.17	105.11	104.58	104.11	104.76	104.89	104.75	104.58	
15	104.09	104.06	104.41	104.13	104.19	104.78	104.74	104.09	104.76	104.86	104.70	104.59	
16	104.09	104.07	104.41	104.13	104.18	104.97	105.23	104.20	104.74	104.89	105.03	104.60	
17	104.07	104.07	104.41	104.20	104.08	105.47	105.97	104.24	104.63	104.88	104.89	104.62	
18	104.06	104.06	104.34	104.24	104.03	105.48	105.45	104.24	104.70	104.92	104.56	104.60	
19	104.08	104.08	104.35	104.14	104.05	105.34	105.41	104.24	104.57	104.91	104.56	104.58	
20	104.06	104.08	104.30	104.13	104.06	105.08	105.35	104.24	104.57	104.83	104.55	104.63	
21	104.05	104.09	104.26	104.08	104.06	105.43	105.08	104.18	104.70	104.79	104.60	104.66	
22	104.03	104.10	104.32	104.08	104.11	105.73	104.85	104.17	104.73	104.81	104.50	104.84	
23	104.04	104.07	104.30	104.09	104.12	105.67	104.77	104.16	104.72	104.78	104.55	104.84	
24	104.04	104.07	104.23	104.04	104.11	106.12	104.85	104.13	104.71	104.76	104.57	104.84	
25	104.06	104.11	104.23	104.09	104.12	106.13	104.80	104.11	104.71	104.80	104.51	104.83	
26	104.09	104.07	104.22	104.10	104.12	106.20	104.77	104.12	105.01	104.75	104.55	104.66	
27	104.12	104.09	104.22	104.10	104.12	106.40	104.71	104.10	104.72	104.75	104.61	104.63	
28	104.12	104.10	104.21	104.14	104.16	106.22	104.61	104.11	104.90	104.72	104.46	104.62	
29	104.12	104.33	104.20	104.14	104.36	106.03	104.54	104.12	105.06	104.75		104.62	
30	104.19	104.44	104.22	104.13	104.35	105.81	104.56	104.54	105.05	104.69		104.66	
31		104.39		104.10	104.13		104.50		105.07	104.73		104.60	
Mean	104.07	104.13	104.38	104.17	104.14	105.22	104.83	104.33	104.65	104.80	104.72	104.73	
Max	104.19	104.44	104.65	104.29	104.36	106.40	105.97	104.90	105.07	104.95	105.03	105.15	106.40
Min	103.95	104.06	104.20	104.04	104.03	104.10	104.27	104.09	104.23	104.67	104.46	104.58	103.95
Annual Max Momentary Gage Height	106.43		m. (MSL.) ,				at 07.00 Hours, on Sep 27, 2021						
Zero Gage at Bottom Elevation	104.00		m. (MSL.) ,			River Bed	102.96	m. (MSL.)					
Left Bank Elevation		109.97		m. (MSL.) ,									
Right Bank Elevation		110.01		m. (MSL.) ,		Drainage Are	38,565	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	60.68	124.72	207.46	116.34	89.17	105.87	451.49	245.06	139.83	283.99	263.01	245.06		
2	68.82	89.17	212.37	114.25	91.20	155.55	386.66	268.14	139.83	292.38	275.84	229.67		
3	81.03	91.20	214.83	116.34	93.30	139.83	311.94	278.40	131.00	229.67	283.99	250.19		
4	87.13	97.49	195.19	120.53	91.20	131.00	265.58	250.19	131.00	247.62	283.99	337.38		
5	95.39	85.10	209.92	105.87	91.20	124.72	234.80	217.28	142.08	270.71	295.17	250.19		
6	89.17	85.10	153.31	112.15	93.30	112.15	209.92	187.82	118.44	237.36	245.06	349.70		
7	93.30	87.13	148.82	116.34	107.96	103.77	197.64	169.02	197.64	239.93	239.93	239.93		
8	85.10	101.68	155.55	118.44	112.15	91.20	173.51	164.53	200.10	242.49	239.93	306.35		
9	83.06	112.15	157.80	120.53	107.96	197.64	148.82	155.55	207.46	219.74	242.49	252.75		
10	83.06	105.87	157.80	122.63	105.87	498.95	131.00	142.08	192.73	232.23	247.62	265.58		
11	83.06	103.77	157.80	131.00	103.77	510.25	126.82	124.72	195.19	229.67	237.36	217.28		
12	83.06	97.49	155.55	131.00	118.44	517.78	173.51	107.96	260.45	232.23	252.75	207.46		
13	85.10	89.17	153.31	110.06	107.96	431.87	166.78	99.58	207.46	263.01	260.45	207.46		
14	93.30	87.13	157.80	93.30	105.87	337.38	197.64	93.30	242.49	275.84	239.93	197.64		
15	89.17	83.06	157.80	97.49	110.06	247.62	237.36	89.17	242.49	268.14	227.10	200.10		
16	89.17	85.10	157.80	97.49	107.96	297.97	374.34	112.15	237.36	275.84	314.74	202.55		
17	85.10	85.10	157.80	112.15	87.13	451.49	644.15	120.53	209.92	273.27	275.84	207.46		
18	83.06	83.06	142.08	120.53	76.96	454.76	444.95	120.53	227.10	283.99	192.73	202.55		
19	87.13	87.13	144.33	99.58	81.03	408.98	431.87	120.53	195.19	281.20	192.73	197.64		
20	83.06	87.13	133.10	97.49	83.06	328.71	412.25	120.53	195.19	260.45	190.28	209.92		
21	81.03	89.17	124.72	87.13	83.06	438.41	328.71	107.96	227.10	250.19	202.55	217.28		
22	76.96	91.20	137.59	87.13	93.30	548.29	265.58	105.87	234.80	255.32	178.00	263.01		
23	78.99	85.10	133.10	89.17	95.39	525.31	245.06	103.77	232.23	247.62	190.28	263.01		
24	78.99	85.10	118.44	78.99	93.30	708.51	265.58	97.49	229.67	242.49	195.19	263.01		
25	83.06	93.30	118.44	89.17	95.39	713.17	252.75	93.30	229.67	252.75	180.46	260.45		
26	89.17	85.10	116.34	91.20	95.39	745.75	245.06	95.39	309.15	239.93	190.28	217.28		
27	95.39	89.17	116.34	91.20	95.39	840.40	229.67	91.20	232.23	239.93	205.01	209.92		
28	95.39	91.20	114.25	99.58	103.77	755.06	205.01	93.30	278.40	232.23	169.02	207.46		
29	95.39	139.83	112.15	99.58	146.57	669.56	187.82	95.39	323.12	239.93		207.46		
30	110.06	164.53	116.34	97.49	144.33	579.45	192.73	187.82	320.33	224.65		217.28		
31		153.31		91.20	97.49		178.00		325.92	234.80		202.55		
Total	2572.38	3034.76	4538.13	3255.35	3108.93	12171.40	8317.00	4258.56	6755.57	7799.60	6511.73	7305.57	69628.98	CMSDAY
Mean	85.75	97.90	151.27	105.01	100.29	405.71	268.29	141.95	217.92	251.60	232.56	235.66	190.76	CMS
Max	110.06	164.53	214.83	131.00	146.57	840.40	644.15	278.40	325.92	292.38	314.74	349.70	840.40	CMS
Min	60.68	83.06	112.15	78.99	76.96	91.20	126.82	89.17	118.44	219.74	169.02	197.64	60.68	CMS
Runoff	222.25	262.20	392.09	281.26	268.61	1051.61	718.59	367.94	583.68	673.89	562.61	631.20	6015.94	MCM
Momentary Peak		854.83	CMS.	at 106.43 m. (MSL.)	at 07.00 Hours	, on Sep 27, 2021								
Runoff Yield		4.95	Liters/Second/Square KM.		Momentary Peak Yield	22.17	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Taeng at Ban Mae Taeng , Chiang Mai (P.4A)

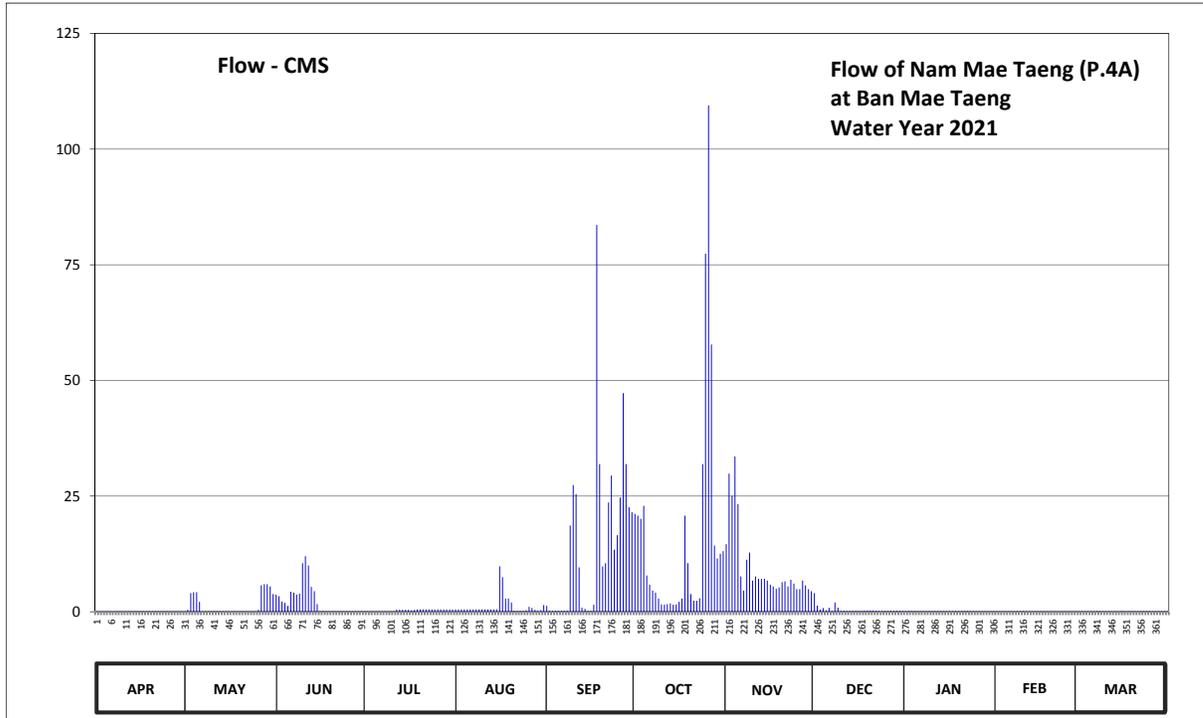
Lat 19 - 07 - 20 N Long 98 - 56 - 40 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	<b>Ban Mae Taeng</b>	<b>Amphoe Mae Taeng</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	1,918 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+334.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In the vicinity of Amphoe Mae Taeng office	<b>Elevation</b>	+339.946 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1955 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1955 - 1960 , 1967 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1955 - 1960 , 1967 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Mae Taeng weir about 7 kilometers above gage site. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	332.50	332.57	333.28	332.57	332.80	332.96	334.06	333.87	333.31	332.65	332.60	332.61	
2	332.50	332.77	333.24	332.57	332.80	332.71	334.05	334.29	332.97	332.66	332.60	332.62	
3	332.50	333.31	333.10	332.57	332.80	332.70	334.03	334.17	332.79	332.68	332.60	332.60	
4	332.50	333.33	333.06	332.57	332.80	332.70	334.11	334.38	332.87	332.66	332.60	332.60	
5	332.50	333.33	332.96	332.57	332.80	332.70	333.59	334.12	332.73	332.65	332.59	332.60	
6	332.51	333.09	333.34	332.57	332.80	332.70	333.47	333.58	332.89	332.64	332.59	332.60	
7	332.56	332.58	333.32	332.57	332.80	332.70	333.36	333.36	332.66	332.64	332.61	332.62	
8	332.57	332.57	333.28	332.57	332.80	332.71	333.32	333.75	333.07	332.65	332.64	332.64	
9	332.57	332.57	333.30	332.57	332.80	333.99	333.18	333.81	332.90	332.65	332.64	332.61	
10	332.57	332.57	333.72	332.57	332.80	334.23	333.01	333.53	332.70	332.65	332.63	332.60	
11	332.57	332.57	333.78	332.63	332.80	334.18	333.00	333.58	332.69	332.64	332.60	332.60	
12	332.57	332.57	333.70	332.78	332.80	333.68	333.02	333.55	332.67	332.62	332.60	332.61	
13	332.57	332.57	333.43	332.78	332.80	332.90	333.04	333.55	332.66	332.62	332.60	332.61	
14	332.57	332.57	333.35	332.78	332.80	332.83	333.00	333.55	332.70	332.63	332.60	332.61	
15	332.57	332.57	333.02	332.78	332.81	332.70	333.01	333.53	332.70	332.65	332.60	332.61	
16	332.57	332.57	332.59	332.77	333.69	332.70	333.09	333.47	332.70	332.64	332.60	332.62	
17	332.57	332.57	332.67	332.74	333.57	333.00	333.18	333.44	332.70	332.64	332.60	332.60	
18	332.57	332.57	332.65	332.76	333.18	335.23	334.05	333.40	332.71	332.66	332.60	332.61	
19	332.57	332.57	332.57	332.80	333.18	334.34	333.72	333.42	332.72	332.65	332.60	332.62	
20	332.57	332.57	332.57	332.80	333.07	333.69	333.29	333.51	332.72	332.65	332.61	332.61	
21	332.57	332.57	332.57	332.80	332.71	333.72	333.12	333.52	332.72	332.68	332.60	332.60	
22	332.57	332.57	332.57	332.80	332.70	334.13	333.12	333.44	332.70	332.67	332.60	332.61	
23	332.57	332.57	332.57	332.80	332.70	334.28	333.19	333.54	332.65	332.65	332.60	332.62	
24	332.57	332.57	332.57	332.80	332.70	333.83	334.34	333.49	332.66	332.62	332.60	332.62	
25	332.57	332.57	332.57	332.80	332.73	333.93	335.14	333.39	332.68	332.58	332.60	332.62	
26	332.57	332.77	332.57	332.80	332.93	334.16	335.58	333.39	332.68	332.60	332.60	332.61	
27	332.57	333.46	332.57	332.80	332.88	334.65	334.83	333.53	332.69	332.63	332.60	332.60	
28	332.57	333.48	332.57	332.80	332.77	334.34	333.86	333.46	332.69	332.62	332.60	332.58	
29	332.57	333.48	332.57	332.80	332.70	334.10	333.76	333.39	332.70	332.60	332.60	332.60	
30	332.57	333.44	332.57	332.80	332.75	334.07	333.80	333.35	332.70	332.60	332.60	332.60	
31		333.29		332.80	332.99		333.82		332.68	332.62		332.61	
Mean	332.56	332.81	332.95	332.71	332.88	333.55	333.65	333.61	332.76	332.64	332.60	332.61	
Max	332.57	333.48	333.78	332.80	333.69	335.23	335.58	334.38	333.31	332.68	332.64	332.64	335.58
Min	332.50	332.57	332.57	332.57	332.70	332.70	333.00	333.35	332.65	332.58	332.59	332.58	332.50
Annual Max Momentary Gage Height	335.72		m. (MSL.) ,			at 10.00 Hours ,							
Zero Gage at Bottom Elevation	334.00		m. (MSL.) ,			River Bed	331.84	m. (MSL.)					
Left Bank Elevation	339.96		m. (MSL.) ,										
Right Bank Elevation	339.91		m. (MSL.) ,			Drainage Are	1,918	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.09	3.72	0.09	0.50	1.26	21.13	14.60	4.01	0.15	0.10	0.11	
2	0.05	0.41	3.36	0.09	0.50	0.23	20.78	29.84	1.32	0.16	0.10	0.12	
3	0.05	4.01	2.20	0.09	0.50	0.20	20.07	25.04	0.47	0.18	0.10	0.10	
4	0.05	4.23	1.92	0.09	0.50	0.20	22.91	33.57	0.78	0.16	0.10	0.10	
5	0.05	4.23	1.26	0.09	0.50	0.20	7.82	23.26	0.29	0.15	0.10	0.10	
6	0.06	2.13	4.34	0.09	0.50	0.20	5.84	7.64	0.86	0.14	0.10	0.10	
7	0.08	0.09	4.12	0.09	0.50	0.20	4.56	4.56	0.16	0.14	0.11	0.12	
8	0.09	0.09	3.72	0.09	0.50	0.23	4.12	11.25	1.99	0.15	0.14	0.14	
9	0.09	0.09	3.90	0.09	0.50	18.65	2.84	12.80	0.90	0.15	0.14	0.11	
10	0.09	0.09	10.50	0.09	0.50	27.35	1.57	6.74	0.20	0.15	0.13	0.10	
11	0.09	0.09	12.00	0.13	0.50	25.39	1.50	7.64	0.19	0.14	0.10	0.10	
12	0.09	0.09	10.00	0.44	0.50	9.60	1.64	7.10	0.17	0.12	0.10	0.11	
13	0.09	0.09	5.36	0.44	0.50	0.90	1.78	7.10	0.16	0.12	0.10	0.11	
14	0.09	0.09	4.45	0.44	0.50	0.62	1.50	7.10	0.20	0.13	0.10	0.11	
15	0.09	0.09	1.64	0.44	0.54	0.20	1.57	6.74	0.20	0.15	0.10	0.11	
16	0.09	0.09	0.10	0.41	9.80	0.20	2.13	5.84	0.20	0.14	0.10	0.12	
17	0.09	0.09	0.17	0.32	7.46	1.50	2.84	5.48	0.20	0.14	0.10	0.10	
18	0.09	0.09	0.15	0.38	2.84	83.60	20.78	5.00	0.23	0.16	0.10	0.11	
19	0.09	0.09	0.09	0.50	2.84	31.91	10.50	5.24	0.26	0.15	0.10	0.12	
20	0.09	0.09	0.09	0.50	1.99	9.80	3.81	6.38	0.26	0.15	0.11	0.11	
21	0.09	0.09	0.09	0.50	0.23	10.50	2.36	6.56	0.26	0.18	0.10	0.10	
22	0.09	0.09	0.09	0.50	0.20	23.62	2.36	5.48	0.20	0.17	0.10	0.11	
23	0.09	0.09	0.09	0.50	0.20	29.42	2.92	6.92	0.15	0.15	0.10	0.12	
24	0.09	0.09	0.09	0.50	0.20	13.40	31.91	6.08	0.16	0.12	0.10	0.12	
25	0.09	0.09	0.09	0.50	0.29	16.55	77.39	4.89	0.18	0.09	0.10	0.12	
26	0.09	0.41	0.09	0.50	1.08	24.68	109.45	4.89	0.18	0.10	0.10	0.11	
27	0.09	5.72	0.09	0.50	0.82	47.23	57.77	6.74	0.19	0.13	0.10	0.10	
28	0.09	5.96	0.09	0.50	0.41	31.91	14.30	5.72	0.19	0.12	0.10	0.09	
29	0.09	5.96	0.09	0.50	0.20	22.55	11.50	4.89	0.20	0.10	0.10	0.10	
30	0.09	5.48	0.09	0.50	0.35	21.49	12.50	4.45	0.20	0.10	0.10	0.10	
31		3.81		0.50	1.44		13.10		0.18	0.12		0.11	
<b>Total</b>	2.46	44.15	73.99	10.40	37.89	453.79	495.25	289.54	15.14	4.31	2.93	3.38	1433.23 CMSDAY
<b>Mean</b>	0.08	1.42	2.47	0.34	1.22	15.13	15.98	9.65	0.49	0.14	0.10	0.11	3.93 CMS
<b>Max</b>	0.09	5.96	12.00	0.50	9.80	83.60	109.45	33.57	4.01	0.18	0.14	0.14	109.45 CMS
<b>Min</b>	0.05	0.09	0.09	0.09	0.20	0.20	1.50	4.45	0.15	0.09	0.10	0.09	0.05 CMS
<b>Runoff</b>	0.21	3.81	6.39	0.90	3.27	39.21	42.79	25.02	1.31	0.37	0.25	0.29	123.83 MCM
<b>Momentary Peak</b>	121.20 CMS. at 335.72 m. (MSL.) at 10.00 Hours , on Oct 26, 2021												
<b>Runoff Yield</b>	2.05 Liters/Second/Square KM.			Momentary Peak Yield 63.19 Liters/Second/Square KM.									

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Kuang at Tha Nang Bridge , Lamphun (P.5)

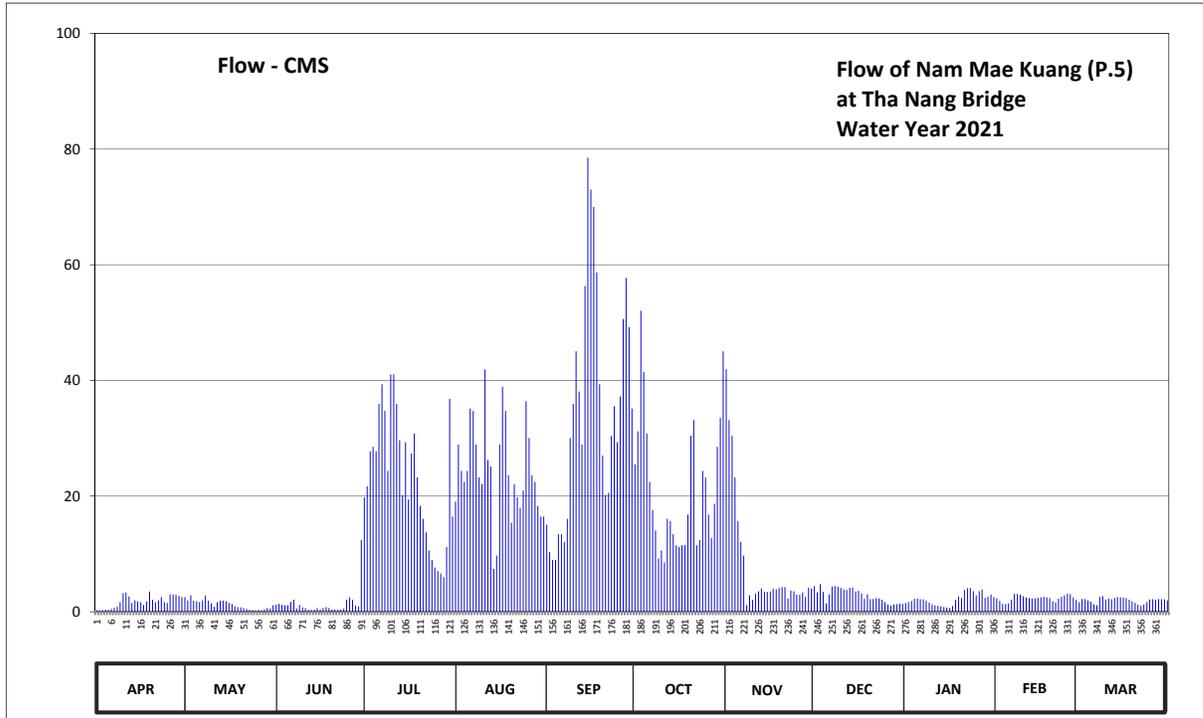
Lat 18 - 34 - 49 N Long 99 - 00 - 37 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	<b>Ban</b>	Tha Nang Bridge	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Lamphun
<b>Drainage Area</b>	1,515	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+288.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage site.				<b>Elevation</b>	+294.592 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1978 - 1992 , 2006 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1978 - 1992 , 2006 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1978 - 1992 , 2006 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.47	291.66	291.00	291.21	291.19	291.08	291.36	291.77	292.31	291.16	291.56	291.23	
2	290.45	291.38	291.08	291.26	291.45	290.93	291.51	291.56	291.95	291.22	291.33	291.50	
3	290.46	291.78	290.99	291.42	291.33	290.88	291.99	291.49	292.42	291.32	291.06	291.50	
4	290.56	291.35	290.96	291.44	291.28	290.88	291.76	291.30	291.98	291.51	291.07	291.38	
5	290.52	291.30	290.96	291.42	291.33	291.03	291.50	291.10	291.12	291.55	291.12	291.27	
6	290.65	291.22	291.25	291.63	291.61	291.03	291.28	290.99	291.83	291.49	291.45	291.05	
7	290.74	291.39	291.44	291.71	291.60	290.99	291.15	290.91	292.28	291.47	291.86	290.96	
8	290.83	291.77	290.68	291.60	291.45	291.11	291.05	290.97	292.31	291.35	291.86	291.68	
9	291.23	291.35	290.98	291.33	291.30	291.48	290.89	291.79	292.27	291.19	291.81	291.73	
10	291.90	291.13	290.78	291.75	291.27	291.63	290.94	291.41	292.21	291.04	291.72	291.44	
11	291.93	290.83	290.71	291.75	291.77	291.84	290.86	291.89	292.12	290.96	291.64	291.54	
12	291.72	291.23	290.56	291.63	291.38	291.68	291.11	292.01	292.09	290.91	291.58	291.48	
13	291.16	291.35	290.53	291.47	291.35	291.45	291.10	292.18	292.22	290.86	291.54	291.59	
14	291.39	291.36	290.59	291.22	290.81	292.08	291.03	291.99	292.22	290.81	291.56	291.67	
15	291.29	291.30	290.72	291.46	290.91	292.53	290.97	291.97	292.00	290.76	291.59	291.65	
16	291.23	291.17	290.61	291.20	291.45	292.42	290.96	292.01	292.04	290.73	291.65	291.62	
17	290.99	291.06	290.73	291.41	291.70	292.36	290.97	292.16	291.89	290.89	291.68	291.58	
18	291.29	290.86	290.80	291.50	291.60	292.13	290.97	292.13	291.51	291.43	291.64	291.45	
19	292.00	290.80	290.73	291.30	291.31	291.71	291.13	292.20	291.84	291.71	291.56	291.30	
20	291.43	290.79	290.60	291.17	291.09	291.40	291.49	292.25	291.48	291.58	291.31	291.18	
21	291.22	290.72	290.61	291.11	291.27	291.22	291.56	292.25	291.50	292.09	291.20	291.02	
22	291.39	290.65	290.55	291.04	291.21	291.23	290.97	291.54	291.57	292.19	291.52	290.91	
23	291.67	290.56	290.57	290.94	291.16	291.49	291.00	292.05	291.55	292.20	291.69	291.02	
24	291.24	290.50	290.68	290.88	291.24	291.62	291.33	292.01	291.45	292.02	291.78	291.22	
25	291.15	290.45	291.44	290.82	291.64	291.46	291.30	291.81	291.23	291.78	291.87	291.46	
26	291.84	290.50	291.65	290.79	291.48	291.66	291.13	291.80	291.02	292.02	291.85	291.48	
27	291.83	290.45	291.43	290.77	291.31	291.96	291.01	291.95	290.94	292.12	291.62	291.42	
28	291.80	290.61	290.93	290.74	291.28	292.11	291.18	291.68	291.03	291.59	291.43	291.50	
29	291.74	290.72	290.86	290.96	291.17	291.93	291.44	292.22	291.06	291.70		291.49	
30	291.67	290.68	291.00	291.65	291.12	291.61	291.57	292.16	291.10	291.81		291.47	
31		290.96		291.12	291.12		291.84		291.07	291.66		291.38	
Mean	291.26	291.03	290.88	291.28	291.33	291.56	291.24	291.79	291.73	291.46	291.56	291.39	
Max	292.00	291.78	291.65	291.75	291.77	292.53	291.99	292.25	292.42	292.20	291.87	291.73	292.53
Min	290.45	290.45	290.53	290.74	290.81	290.88	290.86	290.91	290.94	290.73	291.06	290.91	290.45
Annual Max Momentary Gage Height	292.68		m. (MSL.) ,										at 20.00 Hours , on Sep 14, 2021
Zero Gage at Bottom Elevation	288.50		m. (MSL.) ,			River Bed	288.88		m. (MSL.)				
Left Bank Elevation	295.89		m. (MSL.) ,										
Right Bank Elevation	296.07		m. (MSL.) ,			Drainage Are	1,515		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	2.52	1.20	19.78	19.03	15.04	25.48	41.91	4.43	1.52	2.32	1.66	
2	0.25	1.96	1.36	21.68	28.90	10.30	31.19	33.14	3.35	1.64	1.86	2.20	
3	0.26	2.84	1.18	27.76	24.34	8.96	52.03	30.42	4.76	1.84	1.32	2.20	
4	0.36	1.90	1.12	28.52	22.44	8.96	41.48	23.20	3.44	2.22	1.34	1.96	
5	0.32	1.80	1.12	27.76	24.34	13.39	30.80	15.70	1.44	2.30	1.44	1.74	
6	0.50	1.64	1.70	35.96	35.12	13.39	22.44	12.10	2.99	2.18	2.10	1.30	
7	0.68	1.98	2.08	39.33	34.70	12.10	17.55	9.70	4.34	2.14	3.08	1.12	
8	0.86	2.81	0.56	34.70	28.90	16.07	14.05	1.14	4.43	1.90	3.08	2.56	
9	1.66	1.90	1.16	24.34	23.20	30.04	9.18	2.87	4.31	1.58	2.93	2.69	
10	3.20	1.46	0.76	41.05	22.06	35.96	10.60	2.02	4.13	1.28	2.66	2.08	
11	3.29	0.86	0.62	41.05	41.91	45.04	8.52	3.17	3.86	1.12	2.48	2.28	
12	2.66	1.66	0.36	35.96	26.24	38.06	16.07	3.53	3.77	1.02	2.36	2.16	
13	1.52	1.90	0.33	29.66	25.10	28.90	15.70	4.04	4.16	0.92	2.28	2.38	
14	1.98	1.92	0.39	20.16	7.42	56.30	13.39	3.47	4.16	0.82	2.32	2.54	
15	1.78	1.80	0.64	29.28	9.70	78.50	11.50	3.41	3.50	0.72	2.38	2.50	
16	1.66	1.54	0.42	19.40	28.90	73.00	11.20	3.53	3.62	0.66	2.50	2.44	
17	1.18	1.32	0.66	27.38	38.90	70.00	11.50	3.98	3.17	0.98	2.56	2.36	
18	1.78	0.92	0.80	30.80	34.70	58.68	11.50	3.89	2.22	2.06	2.48	2.10	
19	3.50	0.80	0.66	23.20	23.58	39.33	16.81	4.10	3.02	2.63	2.32	1.80	
20	2.06	0.78	0.40	18.29	15.37	27.00	30.42	4.25	2.16	2.36	1.82	1.56	
21	1.64	0.64	0.42	16.07	22.06	20.16	33.14	4.25	2.20	3.77	1.60	1.24	
22	1.98	0.50	0.35	13.72	19.78	20.54	11.50	2.28	2.34	4.07	2.24	1.02	
23	2.54	0.36	0.37	10.60	17.92	30.42	12.40	3.65	2.30	4.10	2.58	1.24	
24	1.68	0.30	0.56	8.96	20.92	35.54	24.34	3.53	2.10	3.56	2.84	1.64	
25	1.50	0.25	2.08	7.64	36.38	29.28	23.20	2.93	1.66	2.84	3.11	2.12	
26	3.02	0.30	2.50	7.00	30.04	37.22	16.81	2.90	1.24	3.56	3.05	2.16	
27	2.99	0.25	2.06	6.60	23.58	50.62	12.73	3.35	1.08	3.86	2.44	2.04	
28	2.90	0.42	1.06	6.00	22.44	57.73	18.66	2.56	1.26	2.38	2.06	2.20	
29	2.72	0.64	0.92	11.20	18.29	49.21	28.52	4.16	1.32	2.60		2.18	
30	2.54	0.56	12.40	36.80	16.44	35.12	33.53	3.98	1.40	2.93		2.14	
31		1.12		16.44	16.44		45.04		1.34	2.52		1.96	
Total	53.28	39.65	40.24	717.09	759.14	1044.86	661.28	243.16	89.50	68.08	65.55	61.57	3843.40 CMSDAY
Mean	1.78	1.28	1.34	23.13	24.49	34.83	21.33	8.11	2.89	2.20	2.34	1.99	10.53 CMS
Max	3.50	2.84	12.40	41.05	41.91	78.50	52.03	41.91	4.76	4.10	3.11	2.69	78.50 CMS
Min	0.25	0.25	0.33	6.00	7.42	8.96	8.52	1.14	1.08	0.66	1.32	1.02	0.25 CMS
Runoff	4.60	3.43	3.48	61.96	65.59	90.28	57.13	21.01	7.73	5.88	5.66	5.32	332.07 MCM
Momentary Peak	86.40	CMS.	at 292.68 m. (MSL.)	at 20.00 Hours	, on Sep 14, 2021								
Runoff Yield	6.95	Liters/Second/Square KM.		Momentary Peak Yield	57.03	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Huai Yang , Kamphaeng Phet (P.7A)

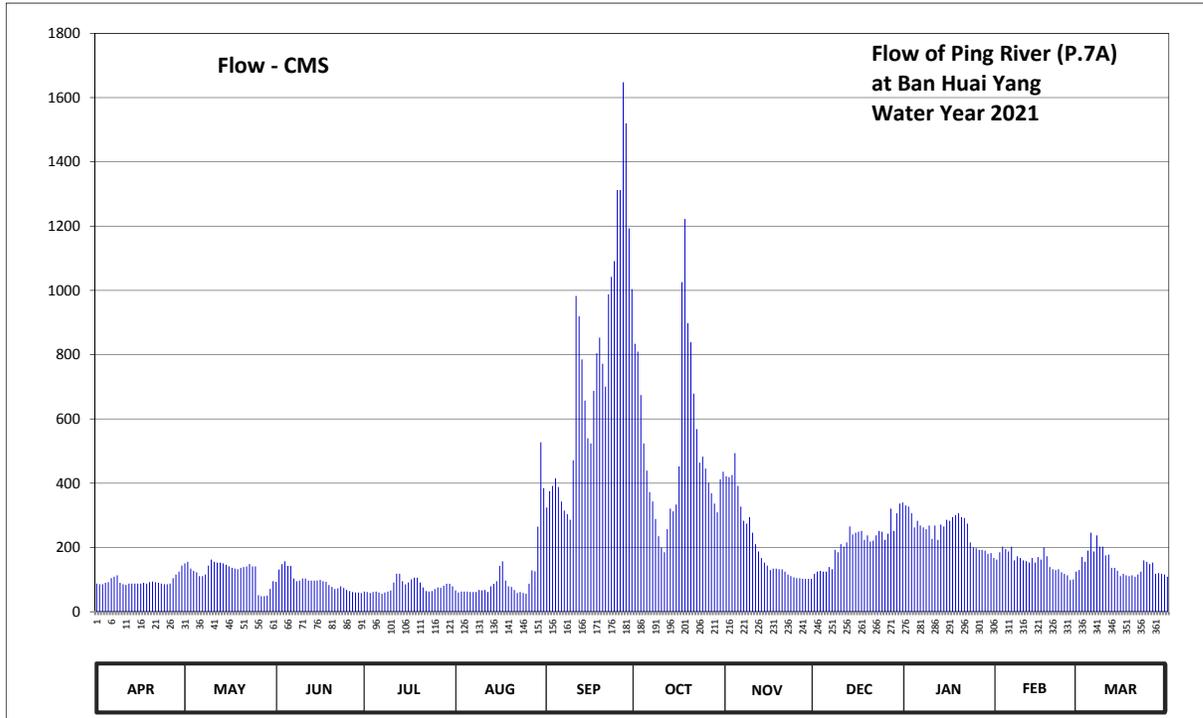
Lat 16 - 28 - 40 N Long 99 - 31 - 05 E

Location : on left bank about 100 meters upstream from the bridge on highway.

	<b>Ban</b>	<b>Huai Yang</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Kamphaeng Phet</b>
<b>Drainage Area</b>	42,328	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+71.730 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage observers house.				<b>Elevation</b>	+77.717 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1960 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1960 - 1961 , 1967 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1960 - 1961 , 1967 to date					
<b>Stability of Channel Regimes</b>	Unstable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Flow regulated by Phumiphol Dam reservoir above gage site. Stage-discharge relation defined by 28 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	71.99	72.27	72.47	72.30	72.32	72.91	74.20	73.21	72.13	72.93	72.32	72.18		
2	71.98	72.29	72.63	72.29	72.28	73.07	74.15	73.20	72.16	72.92	72.41	72.35		
3	71.98	72.20	72.69	72.27	72.30	73.12	73.85	73.22	72.17	72.85	72.48	72.29		
4	72.00	72.17	72.72	72.29	72.30	73.19	73.49	73.41	72.16	72.70	72.45	72.43		
5	72.01	72.15	72.67	72.30	72.30	73.11	73.26	73.12	72.16	72.77	72.42	72.64		
6	72.07	72.10	72.67	72.28	72.29	72.97	73.06	72.92	72.22	72.72	72.48	72.42		
7	72.09	72.10	72.52	72.25	72.29	72.88	72.97	72.77	72.19	72.70	72.31	72.61		
8	72.11	72.12	72.48	72.28	72.29	72.84	72.79	72.74	72.44	72.68	72.36	72.48		
9	72.00	72.24	72.49	72.30	72.33	72.78	72.60	72.81	72.41	72.72	72.34	72.48		
10	71.98	72.32	72.52	72.32	72.32	73.35	72.47	72.64	72.51	72.57	72.31	72.37		
11	71.97	72.29	72.52	72.46	72.33	74.49	72.41	72.51	72.48	72.72	72.30	72.38		
12	71.99	72.28	72.49	72.58	72.29	74.37	72.68	72.42	72.53	72.56	72.28	72.21		
13	71.99	72.28	72.49	72.58	72.40	74.10	72.90	72.34	72.71	72.73	72.34	72.21		
14	71.99	72.27	72.49	72.48	72.44	73.81	72.87	72.28	72.62	72.71	72.28	72.17		
15	71.99	72.25	72.49	72.43	72.48	73.53	72.94	72.24	72.64	72.78	72.35	72.10		
16	71.99	72.23	72.50	72.46	72.67	73.49	73.30	72.18	72.65	72.77	72.32	72.13		
17	72.00	72.21	72.48	72.51	72.72	73.88	74.57	72.20	72.66	72.81	72.47	72.11		
18	71.99	72.20	72.47	72.53	72.49	74.14	74.92	72.20	72.56	72.83	72.36	72.10		
19	72.01	72.19	72.42	72.53	72.40	74.24	74.33	72.19	72.61	72.85	72.22	72.11		
20	72.02	72.21	72.39	72.46	72.39	74.07	74.21	72.19	72.54	72.81	72.19	72.09		
21	72.01	72.22	72.35	72.38	72.33	73.91	73.86	72.16	72.55	72.80	72.18	72.12		
22	72.00	72.23	72.36	72.31	72.27	74.50	73.60	72.12	72.61	72.74	72.19	72.16		
23	71.99	72.26	72.40	72.30	72.29	74.60	73.33	72.10	72.66	72.53	72.15	72.31		
24	71.98	72.23	72.37	72.31	72.27	74.69	73.38	72.08	72.65	72.47	72.13	72.29		
25	71.98	72.23	72.33	72.35	72.25	75.07	73.28	72.07	72.56	72.46	72.11	72.26		
26	71.99	72.22	72.31	72.38	72.44	75.07	73.15	72.07	72.63	72.44	72.04	72.28		
27	72.07	72.20	72.29	72.37	72.62	75.61	73.05	72.06	72.90	72.44	72.05	72.13		
28	72.12	72.20	72.28	72.41	72.61	75.41	72.95	72.06	72.66	72.43	72.16	72.14		
29	72.16	72.21	72.28	72.44	72.96	74.87	72.86	72.06	72.85	72.39		72.13		
30	72.24	72.35	72.27	72.44	73.50	74.53	73.18	72.06	72.95	72.40		72.12		
31		72.48		72.40	73.10		73.25		72.96	72.34		72.09		
Mean	72.02	72.23	72.46	72.39	72.46	73.95	73.35	72.45	72.53	72.66	72.29	72.25		
Max	72.24	72.48	72.72	72.58	73.50	75.61	74.92	73.41	72.96	72.93	72.48	72.64	75.61	
Min	71.97	72.10	72.27	72.25	72.25	72.78	72.41	72.06	72.13	72.34	72.04	72.09	71.97	
Annual Max Momentary Gage Height	75.75		m. (MSL.) ,				at 17.00 Hours ,							on Sep 27, 2021
Zero Gage at Bottom Elevation	71.73		m. (MSL.) ,			River Bed	69.92	m. (MSL.)						
Left Bank Elevation		77.89		m. (MSL.) ,										
Right Bank Elevation		78.04		m. (MSL.) ,		Drainage Are	42,328	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	87.74	150.61	92.86	62.90	66.12	324.09	833.70	422.00	117.99	330.46	162.58	129.64		
2	85.62	155.27	131.27	61.46	60.02	375.05	809.35	418.60	124.98	327.27	184.99	170.05		
3	85.62	134.30	148.01	58.58	62.90	391.40	674.43	425.40	127.31	306.33	202.42	155.27		
4	89.85	127.31	157.00	61.46	62.90	415.20	523.76	493.80	124.98	262.60	194.95	189.97		
5	91.97	122.65	142.43	62.90	62.90	388.00	439.00	391.40	124.98	283.01	187.48	246.04		
6	104.66	111.00	142.43	60.02	61.46	343.20	371.86	327.27	138.96	268.43	202.42	187.48		
7	108.89	111.00	103.62	55.70	61.46	315.07	343.20	283.01	131.97	262.60	160.09	237.76		
8	113.33	115.66	94.84	60.02	61.46	303.41	288.84	274.26	192.46	257.08	172.54	202.42		
9	89.85	143.62	96.82	62.90	67.73	285.92	235.00	294.67	184.99	268.43	167.56	202.42		
10	85.62	162.58	103.62	66.12	66.12	471.32	199.93	246.04	210.16	226.72	160.09	175.03		
11	83.51	155.27	103.62	90.88	67.73	982.53	184.99	210.16	202.42	268.43	157.60	177.52		
12	87.74	152.94	96.82	118.08	61.46	919.29	257.08	187.48	215.68	223.96	152.94	136.63		
13	87.74	152.94	96.82	118.08	79.00	785.00	320.90	167.56	265.52	271.35	167.56	136.63		
14	87.74	150.61	96.82	94.84	86.92	657.09	312.16	152.94	240.52	265.52	152.94	127.31		
15	87.74	145.95	96.82	84.94	94.84	539.79	333.64	143.62	246.04	285.92	170.05	111.00		
16	87.74	141.29	98.80	90.88	142.43	523.76	452.60	129.64	248.80	283.01	162.58	117.99		
17	89.85	136.63	94.84	101.21	157.00	687.43	1025.85	134.30	251.56	294.67	199.93	113.33		
18	87.74	134.30	92.86	106.03	96.82	804.48	1222.48	134.30	223.96	300.50	172.54	111.00		
19	91.97	131.97	82.96	106.03	79.00	853.18	898.21	131.97	237.76	306.33	138.96	113.33		
20	94.08	136.63	77.39	90.88	77.39	771.67	838.57	131.97	218.44	294.67	131.97	108.89		
21	91.97	138.96	70.95	75.78	67.73	700.54	678.76	124.98	221.20	291.75	129.64	115.66		
22	89.85	141.29	72.56	64.51	58.58	987.80	568.45	115.66	237.76	274.26	131.97	124.98		
23	87.74	148.28	79.00	62.90	61.46	1042.15	463.83	111.00	251.56	215.68	122.65	160.09		
24	85.62	141.29	74.17	64.51	58.58	1091.07	482.56	106.77	248.80	199.93	117.99	155.27		
25	85.62	141.29	67.73	70.95	55.70	1312.33	445.80	104.66	223.96	197.44	113.33	148.28		
26	87.74	51.38	64.51	75.78	86.92	1312.33	401.60	104.66	243.28	192.46	98.31	152.94		
27	104.66	48.50	61.46	74.17	128.48	1647.50	368.68	102.54	320.90	192.46	100.43	117.99		
28	115.66	48.50	60.02	80.98	125.69	1519.88	336.83	102.54	251.56	189.97	124.98	120.32		
29	124.98	49.94	60.02	86.92	264.80	1193.40	309.24	102.54	306.33	180.01	117.99	120.32		
30	143.62	70.95	58.58	86.92	527.50	1004.11	411.80	102.54	336.83	182.50	115.66	115.66		
31		94.84		79.00	384.60		435.60		340.01	167.56	108.89	108.89		
<b>Total</b>	<b>2846.46</b>	<b>3847.75</b>	<b>2819.65</b>	<b>2436.33</b>	<b>3395.70</b>	<b>22947.99</b>	<b>15468.70</b>	<b>6178.28</b>	<b>6811.67</b>	<b>7871.31</b>	<b>4341.49</b>	<b>4587.78</b>	<b>83553.11</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>94.88</b>	<b>124.12</b>	<b>93.99</b>	<b>78.59</b>	<b>109.54</b>	<b>764.93</b>	<b>498.99</b>	<b>205.94</b>	<b>219.73</b>	<b>253.91</b>	<b>155.05</b>	<b>147.99</b>	<b>228.91</b>	<b>CMS</b>
<b>Max</b>	<b>143.62</b>	<b>162.58</b>	<b>157.00</b>	<b>118.08</b>	<b>527.50</b>	<b>1647.50</b>	<b>1222.48</b>	<b>493.80</b>	<b>340.01</b>	<b>330.46</b>	<b>202.42</b>	<b>246.04</b>	<b>1647.50</b>	<b>CMS</b>
<b>Min</b>	<b>83.51</b>	<b>48.50</b>	<b>58.58</b>	<b>55.70</b>	<b>55.70</b>	<b>285.92</b>	<b>184.99</b>	<b>102.54</b>	<b>117.99</b>	<b>167.56</b>	<b>98.31</b>	<b>108.89</b>	<b>48.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>245.93</b>	<b>332.45</b>	<b>243.62</b>	<b>210.50</b>	<b>293.39</b>	<b>1982.71</b>	<b>1336.50</b>	<b>533.80</b>	<b>588.53</b>	<b>680.08</b>	<b>375.10</b>	<b>396.38</b>	<b>7218.99</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1740.25</b>	<b>CMS.</b>	<b>at 75.75 m. (MSL.)</b>	<b>at 17.00 Hours</b>	<b>on Sep 27, 2021</b>									
<b>Runoff Yield</b>	<b>5.41</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>41.11</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## PING RIVER BASIN

Ping River at Ban Yanree , Tak (P.12C)

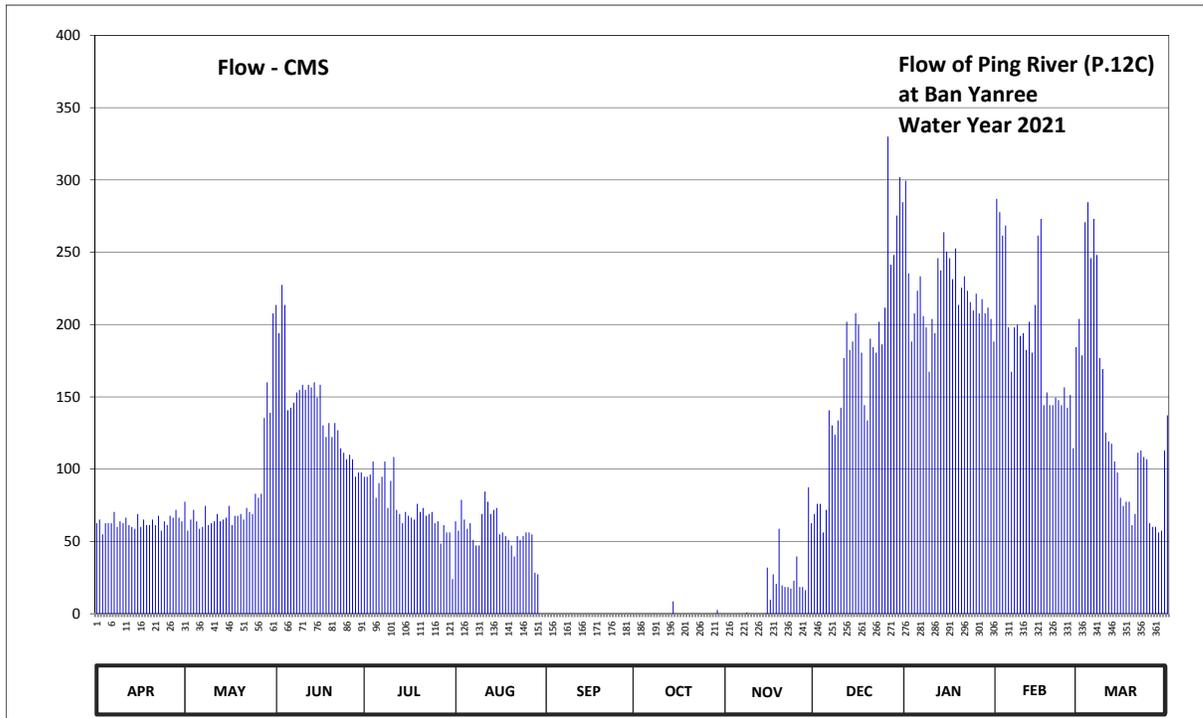
Lat 17 - 14 - 18 N Long 99 - 01 - 35 E

Location : on right bank about 3 kilometers from Phumiphol Dam reservoir.

	Ban Yanree	Amphoe Sam Ngao	Changwat Tak
<b>Drainage Area</b>	26,117 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+129.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the pier of the bridge.		<b>Elevation</b> +137.050 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1995 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Phumiphol Dam reservoir downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	129.45	129.56	130.36	129.68	129.46	128.71	128.65	128.87	129.50	130.75	130.70	130.31	
2	129.47	129.41	130.26	129.68	129.41	128.81	128.65	128.82	129.55	130.47	130.66	130.18	
3	129.39	129.47	130.43	129.69	129.57	128.63	128.63	128.81	129.55	130.23	130.59	130.63	
4	129.45	129.52	130.36	129.75	129.47	128.72	128.75	128.79	129.40	130.33	130.62	130.69	
5	129.45	129.46	129.97	129.58	129.42	128.71	128.76	128.80	129.52	130.41	130.28	130.52	
6	129.45	129.42	129.98	129.65	129.45	128.75	128.77	128.88	129.97	130.46	130.12	130.64	
7	129.51	129.43	130.00	129.68	129.36	128.72	128.70	128.88	129.91	130.32	130.28	130.53	
8	129.43	129.54	130.04	129.75	129.33	128.73	128.70	128.91	129.87	130.28	130.29	130.17	
9	129.46	129.44	130.05	129.53	129.33	128.78	128.73	128.87	129.93	130.12	130.25	130.13	
10	129.45	129.45	130.07	129.66	129.50	128.73	128.72	128.82	129.98	130.31	130.26	129.88	
11	129.48	129.46	130.05	129.77	129.61	128.68	128.72	128.85	130.17	130.26	130.20	129.84	
12	129.44	129.50	130.07	129.52	129.56	128.71	128.74	128.85	130.30	130.52	130.30	129.83	
13	129.43	129.46	130.06	129.50	129.50	128.66	128.72	128.86	130.20	130.48	130.19	129.75	
14	129.42	129.47	130.08	129.45	129.52	128.65	129.00	128.79	130.23	130.60	130.36	129.70	
15	129.50	129.48	130.02	129.51	129.53	128.66	128.80	129.21	130.33	130.54	130.59	129.58	
16	129.43	129.54	130.07	129.49	129.39	128.75	128.89	129.01	130.29	130.52	130.64	129.54	
17	129.47	129.44	129.91	129.48	129.40	128.75	128.83	129.17	130.19	130.45	129.99	129.56	
18	129.44	129.49	129.86	129.47	129.38	128.73	128.83	129.11	129.99	130.55	130.04	129.56	
19	129.44	129.49	129.92	129.55	129.36	128.71	128.83	129.42	129.93	130.36	129.99	129.44	
20	129.47	129.50	129.86	129.51	129.33	128.71	128.83	129.10	130.24	130.42	129.99	129.50	
21	129.44	129.47	129.92	129.53	129.27	128.76	128.80	129.09	130.21	130.46	130.02	129.79	
22	129.49	129.53	129.89	129.49	129.38	128.67	128.82	129.09	130.19	130.41	130.01	129.80	
23	129.41	129.51	129.81	129.50	129.36	128.81	128.87	129.08	130.30	130.37	129.99	129.77	
24	129.46	129.50	129.79	129.51	129.38	128.86	128.83	129.13	130.22	130.34	130.06	129.76	
25	129.44	129.60	129.76	129.45	129.40	128.68	128.83	129.27	130.35	130.40	129.98	129.45	
26	129.49	129.58	129.78	129.46	129.40	128.74	128.82	129.09	130.87	130.33	130.03	129.43	
27	129.48	129.60	129.76	129.34	129.39	128.76	128.86	129.09	130.50	130.38	129.81	129.43	
28	129.52	129.94	129.68	129.44	129.18	128.68	128.87	129.07	130.53	130.33	130.21	129.40	
29	129.48	130.08	129.70	129.40	129.17	128.61	128.93	129.63	130.65	130.35		129.41	
30	129.46	129.96	129.70	129.40	128.73	128.61	128.88	129.45	130.76	130.31		129.80	
31		130.33		129.14	128.73		128.88		130.69	130.23		129.95	
Mean	129.46	129.57	129.97	129.53	129.36	128.72	128.79	129.03	130.14	130.40	130.23	129.87	
Max	129.52	130.33	130.43	129.77	129.61	128.86	129.00	129.63	130.87	130.75	130.70	130.69	130.87
Min	129.39	129.41	129.68	129.14	128.73	128.61	128.63	128.79	129.40	130.12	129.81	129.40	128.61
Annual Max Momentary Gage Height	132.63		m. (MSL.) ,				at 22.00 Hours ,						on Dec 31, 2021
Zero Gage at Bottom Elevation	129.00		m. (MSL.) ,			River Bed	127.48	m. (MSL.)					
Left Bank Elevation		136.81		m. (MSL.) ,									
Right Bank Elevation		136.99		m. (MSL.) ,		Drainage Are	26,117	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	62.60	77.40	213.60	94.76	63.88	0.00	0.00	0.00	69.00	299.45	286.90	203.85		
2	65.16	57.48	194.10	94.76	57.48	0.00	0.00	0.00	76.00	235.40	277.66	178.63		
3	54.92	65.16	227.40	96.23	78.80	0.00	0.00	0.00	76.00	188.25	261.56	270.73		
4	62.60	71.80	213.60	105.30	65.16	0.00	0.00	0.00	56.20	207.75	268.42	284.59		
5	62.60	63.88	140.74	80.20	58.76	0.00	0.00	0.00	71.80	223.40	198.00	245.88		
6	62.60	58.76	142.49	90.35	62.60	0.00	0.00	0.00	140.74	233.40	167.32	273.04		
7	70.40	60.04	146.00	94.76	51.08	0.00	0.00	0.00	130.21	205.80	198.00	248.12		
8	60.04	74.60	153.02	105.30	47.24	0.00	0.00	0.86	123.79	198.00	199.95	176.75		
9	63.88	61.32	154.78	73.20	47.24	0.00	0.00	0.00	133.72	167.32	192.15	169.20		
10	62.60	62.60	158.28	91.82	69.00	0.00	0.00	0.00	142.49	203.85	194.10	125.34		
11	66.44	63.88	154.78	108.34	84.47	0.00	0.00	0.00	176.75	194.10	182.40	119.12		
12	61.32	69.00	158.28	71.80	77.40	0.00	0.00	0.00	201.90	245.88	201.90	117.57		
13	60.04	63.88	156.53	69.00	69.00	0.00	0.00	0.00	182.40	237.40	180.52	105.30		
14	58.76	65.16	160.04	62.60	71.80	0.00	8.60	0.00	188.25	263.80	213.60	97.70		
15	69.00	66.44	149.51	70.40	73.20	0.00	0.00	31.88	207.75	250.36	261.56	80.20		
16	60.04	74.60	158.28	67.72	54.92	0.00	0.00	9.70	199.95	245.88	273.04	74.60		
17	65.16	61.32	130.21	66.44	56.20	0.00	0.00	27.30	180.52	231.40	144.25	77.40		
18	61.32	67.72	122.23	65.16	53.64	0.00	0.00	20.70	144.25	252.60	153.02	77.40		
19	61.32	67.72	131.96	76.00	51.08	0.00	0.00	58.76	133.72	213.60	144.25	61.32		
20	65.16	69.00	122.23	70.40	47.24	0.00	0.00	19.60	190.20	225.40	144.25	69.00		
21	61.32	65.16	131.96	73.20	39.56	0.00	0.00	18.50	184.35	233.40	149.51	111.38		
22	67.72	73.20	126.90	67.72	53.64	0.00	0.00	18.50	180.52	223.40	147.76	112.90		
23	57.48	70.40	114.46	69.00	51.08	0.00	0.00	17.40	201.90	215.55	144.25	108.34		
24	63.88	69.00	111.38	70.40	53.64	0.00	0.00	22.90	186.30	209.70	156.53	106.82		
25	61.32	83.00	106.82	62.60	56.20	0.00	0.00	39.56	211.65	221.40	142.49	62.60		
26	67.72	80.20	109.86	63.88	56.20	0.00	0.00	18.50	329.92	207.75	151.27	60.04		
27	66.44	83.00	106.82	48.52	54.92	0.00	0.00	18.50	241.40	217.50	114.46	60.04		
28	71.80	135.47	94.76	61.32	28.40	0.00	0.00	16.30	248.12	207.75	184.35	56.20		
29	66.44	160.04	97.70	56.20	27.30	0.00	2.58	87.41	275.35	211.65		57.48		
30	63.88	138.98	97.70	56.20	0.00	0.00	0.00	62.60	301.96	203.85		112.90		
31		207.75		24.00	0.00		0.00		284.59	188.25		137.23		
Total	1903.96	2487.96	4286.42	2307.58	1661.13	0.00	11.18	488.97	5471.70	6863.24	5333.47	4041.67	34857.28	CMSDAY
Mean	63.47	80.26	142.88	74.44	53.58	0.00	0.36	16.30	176.51	221.39	190.48	130.38	95.50	CMS
Max	71.80	207.75	227.40	108.34	84.47	0.00	8.60	87.41	329.92	299.45	286.90	284.59	329.92	CMS
Min	54.92	57.48	94.76	24.00	0.00	0.00	0.00	0.00	56.20	167.32	114.46	56.20	0.00	CMS
Runoff	164.50	214.96	370.35	199.37	143.52	0.00	0.97	42.25	472.75	592.98	460.81	349.20	3011.67	MCM
Momentary Peak	1105.39 CMS. at 132.63 m. (MSL.) at 22.00 Hours , on Dec 31, 2021													
Runoff Yield	3.66 Liters/Second/Square KM.			Momentary Peak Yield				42.32 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Chaem at Tha Kham Bridge , Chiang Mai (P.14A)

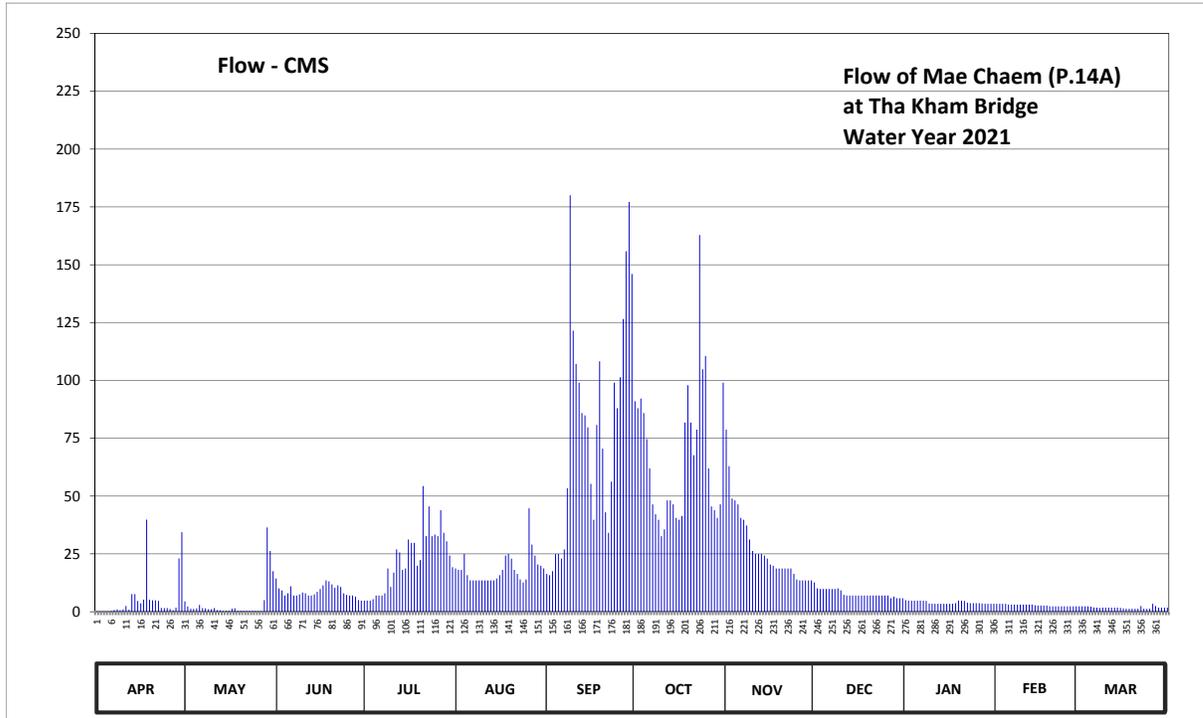
Lat 18 - 12 - 08 N Long 98 - 36 - 52 E

Location : on right bank near the bridge of Hot - Mae Sariang Highway at guidepost 7+500.

	<b>Ban</b>	-	<b>Amphoe</b>	Chom Thong	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	3,880	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+261.863 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	about 10 meters in front of automatic gage building.				<b>Elevation</b>	+267.972 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1953 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1955 - 1960 , 1967 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1955 - 1960 , 1967 to date					
<b>Stability of Channel Regimes</b>	Fairly stable by some silting.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. The concrete weir situated about 6 kilometers downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	260.71	261.44	261.28	260.96	261.36	261.32	262.20	262.08	261.24	260.97	260.88	260.81	
2	260.71	261.33	261.17	260.96	261.35	261.31	262.17	261.92	261.17	260.96	260.88	260.81	
3	260.71	261.22	261.14	260.96	261.35	261.34	262.21	261.77	261.16	260.96	260.88	260.81	
4	260.71	261.20	261.06	260.99	261.46	261.46	262.15	261.76	261.16	260.96	260.88	260.81	
5	260.74	261.24	261.10	261.06	261.31	261.46	262.04	261.74	261.16	260.96	260.86	260.80	
6	260.93	261.37	261.20	261.06	261.26	261.43	261.91	261.67	261.16	260.96	260.86	260.77	
7	261.09	261.26	261.06	261.06	261.26	261.49	261.74	261.66	261.16	260.96	260.86	260.76	
8	261.15	261.24	261.06	261.10	261.26	261.82	261.69	261.63	261.16	260.95	260.86	260.75	
9	261.07	261.17	261.08	261.36	261.26	262.89	261.66	261.55	261.17	260.89	260.86	260.76	
10	261.15	261.18	261.11	261.19	261.26	262.46	261.57	261.48	261.14	260.88	260.86	260.76	
11	261.34	261.26	261.10	261.33	261.26	262.34	261.61	261.46	261.07	260.88	260.86	260.76	
12	261.13	261.07	261.06	261.49	261.26	262.27	261.76	261.46	261.06	260.88	260.86	260.76	
13	261.54	261.04	261.06	261.47	261.26	262.15	261.76	261.46	261.06	260.88	260.86	260.76	
14	261.54	260.97	261.08	261.35	261.26	262.14	261.74	261.45	261.06	260.88	260.84	260.76	
15	261.45	260.96	261.12	261.36	261.28	262.09	261.67	261.43	261.06	260.88	260.83	260.75	
16	261.41	260.98	261.16	261.55	261.31	261.84	261.66	261.39	261.06	260.88	260.83	260.73	
17	261.47	261.22	261.21	261.53	261.35	261.66	261.68	261.38	261.06	260.88	260.83	260.72	
18	261.86	261.25	261.26	261.53	261.45	262.10	262.11	261.36	261.06	260.90	260.83	260.72	
19	261.47	260.97	261.25	261.38	261.46	262.35	262.26	261.36	261.06	260.96	260.81	260.72	
20	261.46	260.96	261.22	261.42	261.43	262.00	262.11	261.36	261.06	260.96	260.81	260.72	
21	261.46	260.96	261.18	261.83	261.35	261.70	261.97	261.36	261.06	260.95	260.81	260.72	
22	261.45	260.96	261.21	261.57	261.32	261.59	262.08	261.36	261.06	260.91	260.81	260.82	
23	261.27	260.96	261.19	261.73	261.27	261.85	262.77	261.36	261.06	260.90	260.81	260.72	
24	261.26	260.96	261.10	261.57	261.24	262.27	262.32	261.32	261.06	260.90	260.81	260.71	
25	261.26	260.96	261.07	261.58	261.27	262.17	262.37	261.27	261.06	260.90	260.81	260.72	
26	261.21	260.93	261.06	261.57	261.72	262.29	261.91	261.26	261.06	260.90	260.81	260.88	
27	261.06	260.87	261.06	261.71	261.52	262.50	261.73	261.26	261.01	260.89	260.81	260.82	
28	261.30	260.97	261.04	261.59	261.45	262.72	261.71	261.26	261.04	260.88	260.81	260.76	
29	261.74	261.62	260.97	261.54	261.39	262.87	261.67	261.26	261.01	260.88		260.76	
30	261.83	261.48	260.96	261.45	261.38	262.65	261.74	261.26	261.01	260.88		260.76	
31		261.34		261.37	261.36		262.27		261.01	260.88		260.76	
Mean	261.25	261.14	261.12	261.37	261.35	262.02	261.94	261.48	261.09	260.91	260.84	260.76	
Max	261.86	261.62	261.28	261.83	261.72	262.89	262.77	262.08	261.24	260.97	260.88	260.88	262.89
Min	260.71	260.87	260.96	260.96	261.24	261.31	261.57	261.26	261.01	260.88	260.81	260.71	260.71
Annual Max Momentary Gage Height	263.32		m. (MSL.) ,				at 20.00 Hours ,						
Zero Gage at Bottom Elevation	261.86		m. (MSL.) ,			River Bed	260.50		m. (MSL)				
Left Bank Elevation	268.22		m. (MSL.) ,										
Right Bank Elevation	268.33		m. (MSL.) ,			Drainage Are	3,880		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	4.44	14.36	4.84	18.68	16.36	91.00	78.70	12.68	5.03	3.40	2.35	
2	0.11	2.28	10.10	4.84	18.10	15.78	87.92	62.90	10.10	4.84	3.40	2.35	
3	0.11	1.32	9.20	4.84	18.10	17.52	92.15	48.95	9.80	4.84	3.40	2.35	
4	0.11	1.20	7.04	5.41	24.96	24.96	85.87	48.10	9.80	4.84	3.40	2.35	
5	0.14	1.44	8.00	7.04	15.78	24.96	74.60	46.40	9.80	4.84	3.10	2.20	
6	0.36	2.92	11.00	7.04	13.52	22.98	61.95	40.54	9.80	4.84	3.10	1.87	
7	0.77	1.56	7.04	7.04	13.52	26.94	46.40	39.72	9.80	4.84	3.10	1.76	
8	1.00	1.44	7.04	8.00	13.52	53.40	42.18	37.26	9.80	4.65	3.10	1.65	
9	0.71	1.08	7.52	18.68	13.52	180.05	39.72	31.20	10.10	3.55	3.10	1.76	
10	1.00	1.12	8.30	10.70	13.52	121.50	32.64	26.28	9.20	3.40	3.10	1.76	
11	2.44	1.56	8.00	16.94	13.52	107.10	35.62	24.96	7.28	3.40	3.10	1.76	
12	0.92	0.71	7.04	26.94	13.52	99.05	48.10	24.96	7.04	3.40	3.10	1.76	
13	7.60	0.62	7.04	25.62	13.52	85.87	48.10	24.96	7.04	3.40	3.10	1.76	
14	7.60	0.44	7.52	18.10	13.52	84.85	46.40	24.30	7.04	3.40	2.80	1.76	
15	4.70	0.42	8.60	18.68	14.36	79.72	40.54	22.98	7.04	3.40	2.65	1.65	
16	3.66	0.46	9.80	31.20	15.78	55.30	39.72	20.42	7.04	3.40	2.65	1.43	
17	5.22	1.32	11.42	29.76	18.10	39.72	41.36	19.84	7.04	3.40	2.65	1.32	
18	39.80	1.50	13.52	29.76	24.30	80.75	81.77	18.68	7.04	3.70	2.65	1.32	
19	5.22	0.44	13.10	19.84	24.96	108.25	97.90	18.68	7.04	4.84	2.35	1.32	
20	4.96	0.42	11.84	22.32	22.98	70.50	81.77	18.68	7.04	4.84	2.35	1.32	
21	4.96	0.42	10.40	54.35	18.10	43.00	67.65	18.68	7.04	4.65	2.35	1.32	
22	4.70	0.42	11.42	32.64	16.36	34.08	78.70	18.68	7.04	3.89	2.35	2.50	
23	1.62	0.42	10.70	45.55	13.94	56.25	162.80	18.68	7.04	3.70	2.35	1.32	
24	1.56	0.42	8.00	32.64	12.68	99.05	104.80	16.36	7.04	3.70	2.35	1.21	
25	1.56	0.42	7.28	33.36	13.94	87.92	110.55	13.94	7.04	3.70	2.35	1.32	
26	1.26	0.36	7.04	32.64	44.70	101.35	61.95	13.52	7.04	3.70	2.35	3.40	
27	0.68	0.27	7.04	43.85	29.04	126.50	45.55	13.52	5.84	3.55	2.35	2.50	
28	1.80	5.03	6.56	34.08	24.30	155.80	43.85	13.52	6.56	3.40	2.35	1.76	
29	23.00	36.44	5.03	30.48	20.42	177.15	40.54	13.52	5.84	3.40		1.76	
30	34.40	26.28	4.84	24.30	19.84	146.00	46.40	13.52	5.84	3.40		1.76	
31		17.52		19.26	18.68		99.05		5.84	3.40		1.76	
Total	162.08	114.69	265.79	700.74	569.78	2342.66	2077.55	832.45	243.68	123.34	78.40	56.41	7567.57 CMSDAY
Mean	5.40	3.70	8.86	22.60	18.38	78.09	67.02	27.75	7.86	3.98	2.80	1.82	20.73 CMS
Max	39.80	36.44	14.36	54.35	44.70	180.05	162.80	78.70	12.68	5.03	3.40	3.40	180.05 CMS
Min	0.11	0.27	4.84	4.84	12.68	15.78	32.64	13.52	5.84	3.40	2.35	1.21	0.11 CMS
Runoff	14.00	9.91	22.96	60.54	49.23	202.41	179.50	71.92	21.05	10.66	6.77	4.87	653.84 MCM
Momentary Peak		250.00	CMS.	at 263.32 m. (MSL.)	at 20.00 Hours		on Sep 9, 2021						
Runoff Yield		5.34	Liters/Second/Square KM.		Momentary Peak Yield	64.43	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Wat Sri Phirom , Kamphaeng Phet (P.15)

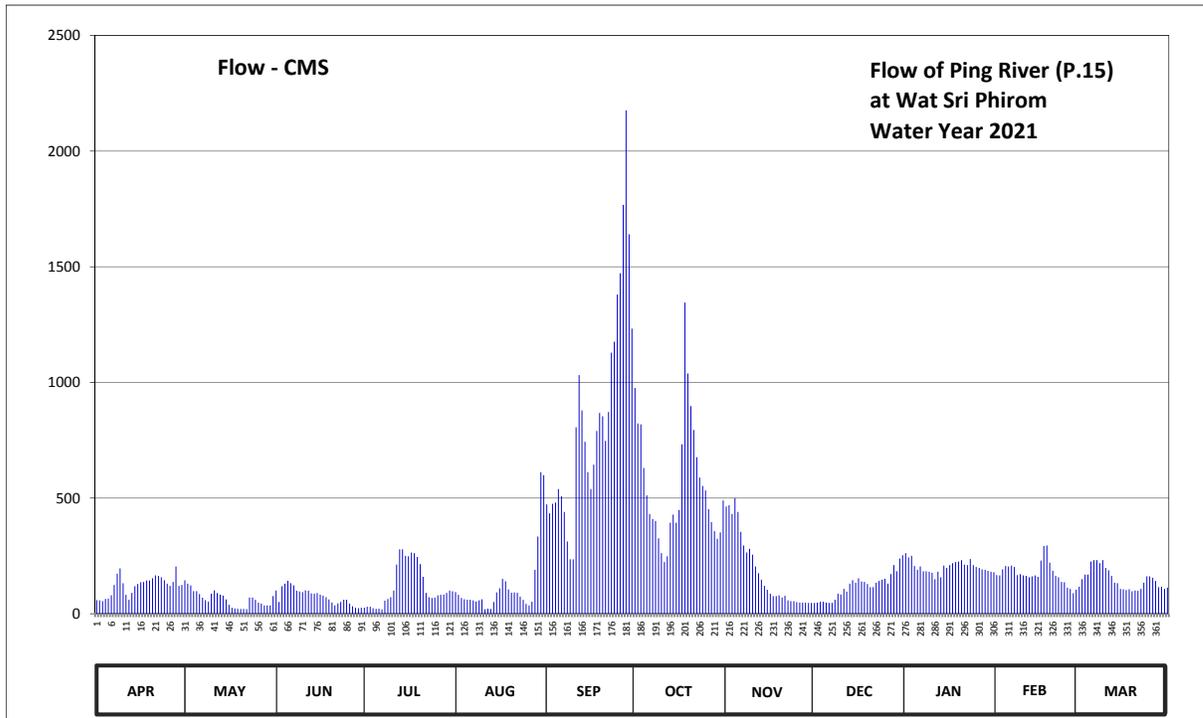
Lat 16 - 12 - 51 N Long 99 - 43 - 20 E

Location : on right bank in front of Amphoe Khlong Khlung Office.

	<b>Ban</b> Wat Sri Phirom	<b>Amphoe</b> Khlong Khlung	<b>Changwat</b> Kamphaeng Phet
<b>Drainage Area</b>	44,354 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+51.555 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 30 meters from the south of Wat Sri Phirom.	<b>Elevation</b>	+61.835 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1954 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1964 - 1974 , 1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1964 - 1974 , 1997 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.10	53.21	52.35	52.29	52.31	53.95	55.31	53.92	52.02	53.14	52.70	52.44	
2	52.09	53.14	52.58	52.35	52.24	53.82	54.95	53.94	52.03	53.06	52.69	52.61	
3	52.07	53.10	53.08	52.35	52.16	53.96	54.94	53.81	52.05	53.09	52.82	52.71	
4	52.13	52.95	53.14	52.26	52.12	53.98	54.44	54.04	52.05	52.89	52.89	52.71	
5	52.14	52.95	53.20	52.22	52.11	54.17	54.08	53.84	52.03	52.81	52.88	52.98	
6	52.23	52.86	53.15	52.23	52.11	54.07	53.81	53.52	52.02	52.88	52.90	53.01	
7	52.48	52.74	53.10	52.17	52.09	53.84	53.73	53.28	52.02	52.78	52.87	53.01	
8	52.73	52.65	52.96	52.08	52.06	53.71	53.70	53.15	52.11	52.78	52.70	52.95	
9	52.84	52.59	52.94	52.13	52.09	53.54	53.41	53.22	52.27	52.77	52.72	53.01	
10	52.52	52.87	52.92	52.18	52.12	53.54	53.14	53.11	52.25	52.75	52.69	52.85	
11	52.24	52.97	52.97	52.35	52.18	54.91	52.97	52.88	52.39	52.61	52.68	52.80	
12	52.11	52.89	52.96	52.92	52.23	55.39	53.08	52.74	52.32	52.77	52.65	52.68	
13	52.29	52.84	52.88	53.21	52.21	55.10	53.67	52.60	52.51	52.65	52.67	52.53	
14	52.45	52.81	52.87	53.21	52.58	54.75	53.80	52.46	52.59	52.90	52.69	52.52	
15	52.50	52.68	52.89	53.09	52.91	54.39	53.67	52.37	52.53	52.85	52.66	52.39	
16	52.54	52.45	52.84	53.08	53.03	54.17	53.87	52.27	52.63	52.91	53.00	52.38	
17	52.55	52.28	52.81	53.15	53.24	54.48	54.72	52.21	52.56	52.95	53.27	52.36	
18	52.58	52.24	52.76	53.14	53.19	54.87	55.90	52.21	52.55	52.97	53.28	52.38	
19	52.58	52.22	52.68	53.07	53.00	55.07	55.40	52.23	52.50	52.98	52.96	52.33	
20	52.63	52.20	52.56	52.93	52.90	55.03	55.15	52.17	52.43	53.01	52.79	52.35	
21	52.69	52.21	52.42	52.66	52.91	54.76	54.88	52.22	52.43	52.92	52.68	52.34	
22	52.68	52.19	52.52	52.29	52.90	55.08	54.57	52.09	52.53	52.91	52.65	52.39	
23	52.65	52.17	52.58	52.18	52.78	55.56	54.32	52.07	52.57	53.03	52.55	52.53	
24	52.59	52.17	52.67	52.16	52.66	55.64	54.21	52.07	52.60	52.91	52.54	52.67	
25	52.51	52.11	52.67	52.17	52.50	55.95	54.15	52.04	52.62	52.87	52.42	52.67	
26	52.46	52.03	52.51	52.23	52.42	56.07	53.88	52.03	52.51	52.85	52.39	52.64	
27	52.55	52.00	52.37	52.24	52.59	56.41	53.68	52.03	52.72	52.82	52.28	52.57	
28	52.88	51.95	52.29	52.25	52.81	56.79	53.53	52.03	52.91	52.81	52.37	52.43	
29	53.09	51.95	52.26	52.29	53.44	56.27	53.40	52.02	52.78	52.79		52.44	
30	53.11	51.95	52.29	52.35	54.39	55.73	53.51	52.02	53.04	52.77		52.39	
31		52.21		52.33	54.35		54.01		53.10	52.76		52.42	
Mean	52.50	52.50	52.74	52.50	52.67	54.83	54.13	52.69	52.44	52.87	52.73	52.60	
Max	53.11	53.21	53.20	53.21	54.39	56.79	55.90	54.04	53.10	53.14	53.28	53.01	56.79
Min	52.07	51.95	52.26	52.08	52.06	53.54	52.97	52.02	52.02	52.61	52.28	52.33	51.95
Annual Max Momentary Gage Height	56.88		m. (MSL.) ,				at 07.00 Hours ,						on Sep 28, 2021
Zero Gage at Bottom Elevation	51.56		m. (MSL.) ,			River Bed	50.66		m. (MSL.)				
Left Bank Elevation	58.38		m. (MSL.) ,										
Right Bank Elevation	57.90		m. (MSL.) ,			Drainage Are	44,354		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	59.15	144.24	100.53	25.88	93.59	472.13	976.04	463.32	46.87	262.09	167.35	116.80		
2	57.62	130.10	51.06	30.40	81.44	433.97	822.18	469.19	48.41	243.41	165.34	149.22		
3	54.55	122.10	118.68	30.40	68.36	475.06	818.17	431.04	51.47	250.42	191.69	169.37		
4	63.76	97.90	130.10	24.02	62.22	480.93	629.74	499.16	51.47	206.36	206.36	169.37		
5	65.29	97.90	142.10	21.54	60.69	539.33	511.52	439.84	48.41	189.60	204.26	225.21		
6	79.71	85.12	132.10	22.16	60.69	508.43	431.04	354.02	46.87	204.26	208.45	231.74		
7	124.40	69.10	122.10	18.68	57.62	439.84	409.27	295.10	46.87	183.47	202.17	231.74		
8	173.40	58.60	99.32	56.08	53.01	312.34	401.20	264.42	60.68	183.47	167.35	218.93		
9	195.88	52.08	96.48	63.76	57.62	235.26	326.13	280.85	86.65	181.46	171.38	231.74		
10	132.00	86.54	93.64	71.43	62.22	235.26	262.09	255.09	83.17	177.43	165.34	197.98		
11	81.44	100.74	100.74	100.53	19.22	806.16	223.12	204.26	107.47	149.22	163.32	187.50		
12	60.69	89.38	99.32	212.64	22.16	1031.56	248.08	175.41	95.32	181.46	157.28	163.32		
13	90.12	82.28	87.96	278.48	20.92	879.08	393.13	147.20	130.10	157.28	161.31	133.90		
14	118.70	78.02	86.54	278.48	51.06	743.45	428.10	120.60	145.30	208.45	165.34	132.00		
15	128.20	61.90	89.38	250.42	92.22	611.97	393.13	104.00	133.90	197.98	159.29	107.47		
16	135.80	38.60	82.28	248.08	110.13	539.33	448.65	86.65	153.25	210.55	229.40	105.73		
17	137.70	25.26	78.02	264.43	150.66	644.18	732.26	76.23	139.60	218.93	292.73	102.26		
18	143.40	22.78	71.60	262.09	140.10	790.14	1344.95	76.23	137.70	223.12	295.10	105.73		
19	143.40	21.54	61.90	245.75	105.00	868.02	1038.50	79.70	128.20	225.21	221.02	97.05		
20	153.25	20.30	49.02	214.74	90.80	853.26	897.52	69.89	114.90	231.74	185.49	100.53		
21	165.34	20.92	36.02	159.29	92.22	747.18	794.14	77.97	114.90	212.64	163.32	98.79		
22	163.32	19.76	44.94	90.12	90.80	871.70	676.67	57.62	133.90	210.55	157.28	107.47		
23	157.28	69.90	51.06	71.43	74.10	1128.74	588.62	54.54	141.50	236.41	137.70	133.90		
24	145.30	69.90	60.80	68.36	59.70	1176.12	551.93	54.54	147.20	210.55	135.80	161.31		
25	130.10	60.69	60.80	69.90	42.90	1379.73	533.15	49.94	151.23	202.17	113.00	161.31		
26	120.60	48.41	43.92	79.71	36.02	1471.31	451.58	48.41	130.10	197.98	107.47	155.26		
27	137.70	43.80	31.96	81.44	52.08	1767.16	395.82	48.41	171.38	191.69	88.38	141.50		
28	204.26	35.90	25.88	83.18	189.60	2175.47	356.56	48.41	210.55	189.60	104.00	114.90		
29	120.39	35.90	24.02	90.12	333.74	1639.77	323.60	46.87	183.47	185.49		116.80		
30	124.10	35.90	25.88	100.53	611.97	1231.97	351.48	46.87	238.74	181.46		107.47		
31		76.24		97.06	598.63		489.89		252.75	179.44		113.00		
Total	3666.85	2001.80	2298.15	3711.13	3641.49	25488.85	17248.26	5425.78	3732.33	6283.89	4886.92	4589.30	82974.75	CMSDAY
Mean	122.23	64.57	76.61	119.71	117.47	849.63	556.40	180.86	120.40	202.71	174.53	148.04	227.33	CMS
Max	204.26	144.24	142.10	278.48	611.97	2175.47	1344.95	499.16	252.75	262.09	295.10	231.74	2175.47	CMS
Min	54.55	19.76	24.02	18.68	19.22	235.26	223.12	46.87	46.87	149.22	88.38	97.05	18.68	CMS
Runoff	316.82	172.96	198.56	320.64	314.62	2202.24	1490.25	468.79	322.47	542.93	422.23	396.52	7169.02	MCM
Momentary Peak	2270.08	CMS.	at 56.88 m. (MSL.)											at 07.00 Hours , on Sep 28, 2021
Runoff Yield	5.11	Liters/Second/Square KM.												Momentary Peak Yield 51.06 Liters/Second/Square KM.

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban San Tor , Kamphaeng Phet (P.16)

Lat 16 - 03 - 53 N Long 99 - 51 - 37 E

Location : on right bank behind the Post Office.

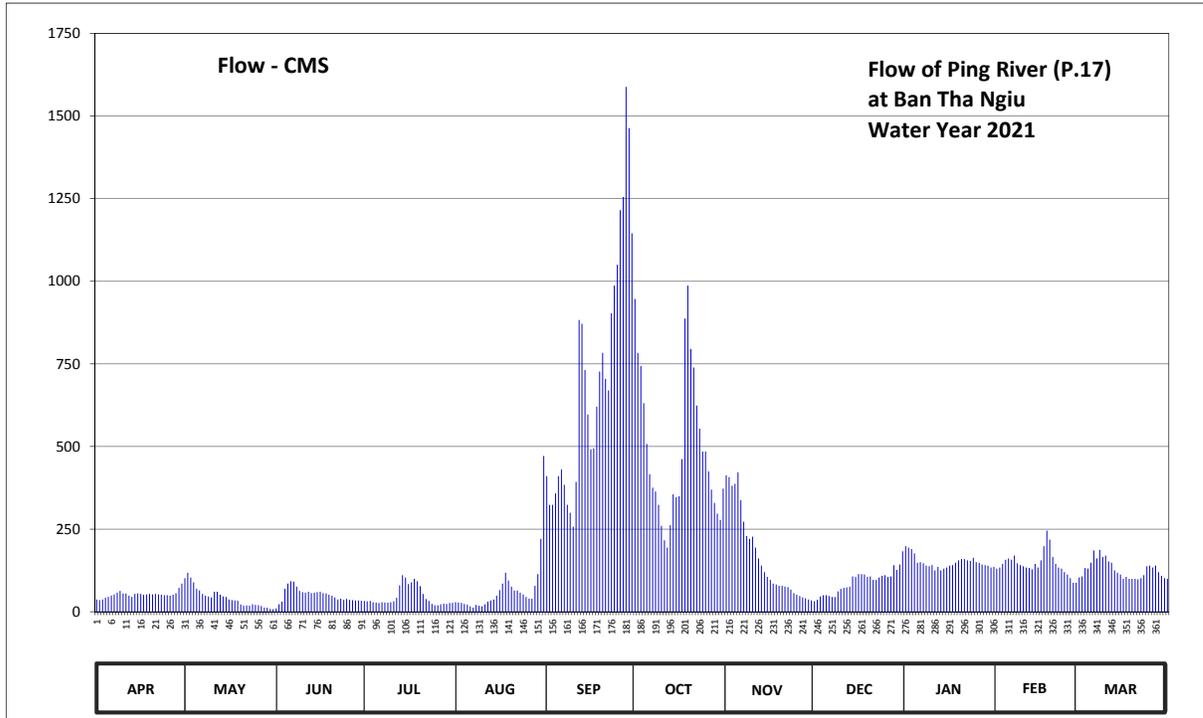
	Ban San Tor	Amphoe Khanu Worakabsaburi	Changwat Kamphaeng Phet
<b>Drainage Area</b>	44,619 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+39.780 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the automatic gage building.	<b>Elevation</b>	+46.604 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1954 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1960 , 1967 - 1974 , 1990 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1960 , 1964 - 1975 , 1979 , 1990 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.92	41.09	40.73	40.88	40.89	42.19	44.11	42.49	40.83	41.67	41.34	41.23	
2	40.92	41.09	40.81	40.87	40.89	41.96	43.64	42.50	40.89	41.63	41.36	41.28	
3	40.93	41.06	40.89	40.87	40.88	42.05	43.62	42.37	40.93	41.64	41.44	41.38	
4	40.93	41.02	41.05	40.86	40.86	42.11	43.10	42.49	40.94	41.55	41.50	41.36	
5	40.95	40.99	41.16	40.86	40.86	42.33	42.67	42.52	40.93	41.43	41.50	41.48	
6	40.95	40.98	41.15	40.86	40.85	42.31	42.34	42.16	40.91	41.47	41.48	41.62	
7	40.97	40.95	41.15	40.86	40.85	42.10	42.20	41.91	40.92	41.42	41.54	41.50	
8	40.99	40.94	41.10	40.85	40.84	41.91	42.20	41.75	40.91	41.41	41.40	41.61	
9	41.00	40.94	41.08	40.85	40.84	41.81	41.99	41.74	41.02	41.40	41.41	41.55	
10	40.98	40.95	41.07	40.87	40.87	41.68	41.75	41.75	41.04	41.42	41.39	41.52	
11	40.96	40.99	41.07	40.88	40.90	42.67	41.58	41.59	41.09	41.31	41.37	41.45	
12	40.95	40.98	41.08	40.94	40.91	43.93	41.53	41.48	41.08	41.42	41.35	41.43	
13	40.95	40.96	41.06	41.05	40.93	43.71	41.94	41.38	41.13	41.31	41.36	41.30	
14	40.97	40.95	41.06	41.07	40.95	43.31	42.21	41.29	41.30	41.40	41.42	41.30	
15	40.97	40.95	41.07	41.04	41.03	42.88	42.12	41.23	41.25	41.37	41.35	41.25	
16	40.97	40.93	41.06	41.00	41.10	42.54	42.21	41.18	41.31	41.42	41.53	41.21	
17	40.97	40.91	41.06	41.03	41.25	42.72	42.84	41.13	41.28	41.44	41.71	41.24	
18	40.98	40.90	41.05	41.04	41.31	43.20	44.41	41.13	41.28	41.46	41.87	41.22	
19	40.98	40.89	41.04	41.03	41.13	43.50	44.26	41.12	41.23	41.48	41.66	41.20	
20	40.98	40.88	41.03	40.97	41.03	43.58	43.84	41.10	41.23	41.50	41.48	41.22	
21	40.98	40.88	41.03	40.93	40.99	43.28	43.62	41.10	41.20	41.46	41.38	41.20	
22	40.98	40.88	41.02	40.90	40.99	43.37	43.22	41.07	41.22	41.46	41.35	41.23	
23	40.98	40.88	41.03	40.87	40.95	44.08	42.97	41.01	41.25	41.47	41.32	41.28	
24	40.98	40.88	41.04	40.85	40.92	44.20	42.75	40.95	41.28	41.47	41.29	41.40	
25	40.97	40.87	41.04	40.86	40.89	44.46	42.76	40.93	41.28	41.42	41.24	41.40	
26	40.96	40.82	41.03	40.86	40.88	44.77	42.49	40.90	41.23	41.41	41.21	41.37	
27	40.97	40.70	41.03	40.87	40.92	44.97	42.28	40.88	41.27	41.40	41.12	41.39	
28	40.99	40.70	40.93	40.87	41.20	45.63	42.11	40.87	41.46	41.40	41.16	41.27	
29	41.04	40.69	40.86	40.88	41.33	45.22	41.98	40.85	41.32	41.39		41.24	
30	41.05	40.70	40.87	40.88	41.95	44.58	41.96	40.84	41.47	41.36		41.21	
31		40.70		40.89	42.56		42.46		41.63	41.37		41.22	
Mean	40.97	40.90	41.02	40.91	41.06	43.24	42.68	41.46	41.16	41.44	41.41	41.34	
Max	41.05	41.09	41.16	41.07	42.56	45.63	44.41	42.52	41.63	41.67	41.87	41.62	45.63
Min	40.92	40.69	40.73	40.85	40.84	41.68	41.53	40.84	40.83	41.31	41.12	41.20	40.69
Annual Max Momentary Gage Height	45.73		m. (MSL.) ,				at 13.00 Hours , on Sep 28, 2021						
Zero Gage at Bottom Elevation	39.78		m. (MSL.) ,			River Bed	37.78	m. (MSL.)					
Left Bank Elevation		47.66		m. (MSL.) ,									
Right Bank Elevation		46.66		m. (MSL.) ,		Drainage Are	44,619	Square Kilometers					







**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	37.00	101.60	10.00	32.50	28.90	410.20	946.50	413.10	31.60	198.40	130.40	103.40		
2	35.20	117.80	22.60	31.60	28.00	323.60	783.00	407.30	36.10	194.00	134.00	107.00		
3	37.00	103.40	30.70	32.50	27.10	323.60	743.00	381.20	46.10	189.60	144.80	132.20		
4	42.20	89.00	69.50	28.90	23.50	358.00	631.00	387.00	50.00	176.40	157.40	130.40		
5	44.80	69.50	85.10	28.00	21.70	410.20	507.70	421.80	50.00	148.40	161.00	148.40		
6	48.70	64.30	92.60	26.20	16.30	430.50	416.00	337.70	47.40	150.20	157.40	185.20		
7	52.60	53.90	90.80	28.90	12.70	384.10	375.40	272.50	44.80	146.60	169.80	161.00		
8	57.80	48.70	76.00	28.00	20.80	323.60	363.80	229.30	44.80	139.40	146.60	187.40		
9	63.00	46.10	63.00	28.00	18.10	299.30	323.60	220.40	61.70	137.60	141.20	165.40		
10	55.20	43.50	59.10	28.90	16.30	257.50	260.00	227.00	69.50	141.20	137.60	169.80		
11	55.20	60.40	57.80	31.60	22.60	392.80	216.00	194.00	72.10	125.00	134.00	152.00		
12	48.70	60.40	60.40	42.20	30.70	883.00	194.00	161.00	73.40	135.80	132.20	148.40		
13	44.80	51.30	56.50	79.90	34.30	871.00	262.50	139.40	76.00	125.00	128.60	125.00		
14	53.90	46.10	57.80	110.60	37.00	731.00	355.10	119.60	107.00	130.40	144.80	117.80		
15	55.20	44.80	59.10	103.40	48.70	596.80	346.40	105.20	105.20	134.00	134.00	112.40		
16	53.90	37.00	60.40	83.80	65.60	491.20	349.30	96.20	114.20	139.40	155.60	99.80		
17	51.30	35.20	56.50	89.00	85.10	494.50	461.50	85.10	114.20	141.20	198.40	105.20		
18	52.60	34.30	55.20	99.80	117.80	620.50	887.00	82.50	112.40	148.40	245.40	99.80		
19	53.90	33.40	51.30	92.60	94.40	727.00	987.00	78.60	105.20	155.60	218.20	99.80		
20	52.60	21.70	48.70	77.30	76.00	783.00	795.00	78.60	107.00	159.20	165.40	99.80		
21	53.90	18.10	43.50	53.90	64.30	704.50	739.00	76.00	96.20	159.20	144.80	98.00		
22	52.60	19.00	37.00	38.30	64.30	669.50	624.00	74.70	96.20	155.60	134.00	101.60		
23	51.30	18.10	39.60	32.50	57.80	903.00	553.90	66.90	103.40	153.80	130.40	110.60		
24	50.00	22.60	36.10	23.50	52.60	987.00	484.60	56.50	108.80	163.20	119.60	137.60		
25	50.00	20.80	38.30	19.90	44.80	1050.00	484.60	51.30	110.60	150.20	112.40	139.40		
26	48.70	19.90	36.10	19.90	39.60	1215.00	424.70	47.40	105.20	148.40	101.60	134.00		
27	51.30	17.20	35.20	22.60	39.60	1255.00	369.60	43.50	107.00	143.00	87.70	139.40		
28	56.50	12.70	34.30	24.40	78.60	1588.00	329.00	40.90	141.20	141.20	87.70	119.60		
29	72.10	12.70	34.30	23.50	114.20	1463.20	296.60	37.00	126.80	139.40		108.80		
30	85.10	8.50	33.40	26.20	220.40	1145.00	277.70	34.30	143.00	134.00		101.60		
31		7.50		27.10	471.40		372.50		183.00	135.80		99.80		
<b>Total</b>	<b>1567.10</b>	<b>1339.50</b>	<b>1530.90</b>	<b>1415.50</b>	<b>2073.20</b>	<b>21091.60</b>	<b>15160.00</b>	<b>4966.00</b>	<b>2790.10</b>	<b>4639.60</b>	<b>4055.00</b>	<b>3940.60</b>	<b>64569.10</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>52.24</b>	<b>43.21</b>	<b>51.03</b>	<b>45.66</b>	<b>66.88</b>	<b>703.05</b>	<b>489.03</b>	<b>165.53</b>	<b>90.00</b>	<b>149.66</b>	<b>144.82</b>	<b>127.12</b>	<b>176.90</b>	<b>CMS</b>
<b>Max</b>	<b>85.10</b>	<b>117.80</b>	<b>92.60</b>	<b>110.60</b>	<b>471.40</b>	<b>1588.00</b>	<b>987.00</b>	<b>421.80</b>	<b>183.00</b>	<b>198.40</b>	<b>245.40</b>	<b>187.40</b>	<b>1588.00</b>	<b>CMS</b>
<b>Min</b>	<b>35.20</b>	<b>7.50</b>	<b>10.00</b>	<b>19.90</b>	<b>12.70</b>	<b>257.50</b>	<b>194.00</b>	<b>34.30</b>	<b>31.60</b>	<b>125.00</b>	<b>87.70</b>	<b>98.00</b>	<b>7.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>135.40</b>	<b>115.73</b>	<b>132.27</b>	<b>122.30</b>	<b>179.12</b>	<b>1822.31</b>	<b>1309.82</b>	<b>429.06</b>	<b>241.06</b>	<b>400.86</b>	<b>350.35</b>	<b>340.47</b>	<b>5578.77</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1697.50 CMS. at 38.69 m. (MSL.) at 19.00 Hours , on Sep 28, 2021</b>													
<b>Runoff Yield</b>	<b>3.94 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>37.77 Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Chiang Dao , Chiang Mai (P.20)

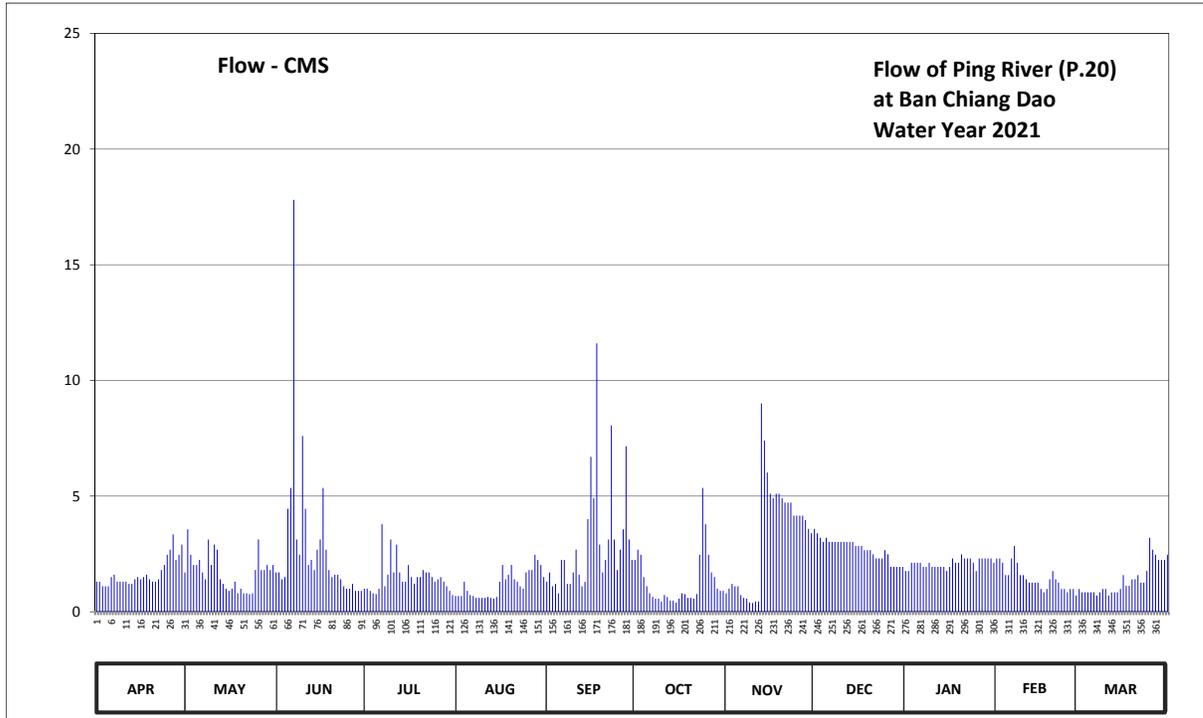
Lat 19 - 22 - 10 N Long 98 - 58 - 09 E

Location : on right bank near War Inthra Ram.

	<b>Ban</b>	Chiang Dao	<b>Amphoe</b>	Chiang Dao	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	1,223	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+379.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	About 2 meters from automatic gage building.				<b>Elevation</b>	+384.033 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1979 - 1982 , 1989 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1979 - 1982 , 1989 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Flow effected by the local weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	380.25	380.29	380.29	380.22	380.17	380.25	380.32	380.20	380.02	379.92	379.95	379.87	
2	380.25	380.38	380.29	380.22	380.17	380.29	380.34	380.22	380.01	379.92	379.95	379.86	
3	380.23	380.33	380.26	380.21	380.17	380.23	380.33	380.24	380.00	379.94	379.94	379.86	
4	380.23	380.31	380.27	380.20	380.25	380.24	380.27	380.23	379.99	379.94	379.91	379.86	
5	380.23	380.31	380.41	380.19	380.21	380.20	380.23	380.23	380.00	379.94	379.91	379.86	
6	380.27	380.32	380.43	380.22	380.18	380.32	380.20	380.18	379.99	379.94	379.95	379.86	
7	380.28	380.29	380.56	380.39	380.17	380.32	380.16	380.15	379.99	379.93	379.98	379.85	
8	380.25	380.26	380.36	380.23	380.15	380.24	380.14	380.14	379.99	379.93	379.94	379.86	
9	380.25	380.36	380.33	380.28	380.15	380.24	380.14	380.10	379.99	379.94	379.91	379.87	
10	380.25	380.31	380.48	380.36	380.15	380.29	380.11	380.09	379.99	379.93	379.91	379.87	
11	380.25	380.35	380.41	380.29	380.15	380.34	380.18	380.11	379.99	379.93	379.90	379.85	
12	380.24	380.34	380.31	380.35	380.16	380.28	380.16	380.11	379.99	379.93	379.89	379.86	
13	380.24	380.26	380.32	380.29	380.15	380.23	380.12	380.25	379.99	379.93	379.89	379.86	
14	380.26	380.24	380.30	380.25	380.14	380.25	380.12	380.20	379.99	379.93	379.89	379.86	
15	380.27	380.22	380.34	380.25	380.16	380.40	380.10	380.14	379.98	379.92	379.89	379.87	
16	380.26	380.21	380.36	380.31	380.25	380.46	380.14	380.10	379.98	379.93	379.87	379.91	
17	380.27	380.22	380.43	380.27	380.31	380.42	380.20	380.09	379.98	379.95	379.86	379.88	
18	380.28	380.25	380.34	380.24	380.26	380.52	380.19	380.10	379.97	379.94	379.87	379.88	
19	380.26	380.20	380.30	380.27	380.28	380.35	380.15	380.10	379.97	379.94	379.90	379.90	
20	380.25	380.22	380.27	380.27	380.31	380.29	380.15	380.09	379.97	379.96	379.92	379.90	
21	380.25	380.20	380.28	380.30	380.26	380.32	380.14	380.08	379.96	379.95	379.90	379.91	
22	380.26	380.20	380.28	380.29	380.25	380.36	380.19	380.08	379.95	379.95	379.89	379.89	
23	380.30	380.19	380.26	380.29	380.23	380.49	380.33	380.08	379.95	379.95	379.87	379.89	
24	380.31	380.20	380.23	380.27	380.22	380.36	380.43	380.05	379.95	379.94	379.87	379.92	
25	380.33	380.30	380.22	380.25	380.29	380.30	380.39	380.05	379.97	379.92	379.86	380.00	
26	380.34	380.36	380.22	380.26	380.30	380.34	380.33	380.05	379.96	379.95	379.87	380.34	
27	380.37	380.30	380.24	380.27	380.30	380.38	380.29	380.05	379.93	379.95	379.87	380.33	
28	380.32	380.30	380.21	380.25	380.33	380.47	380.27	380.04	379.93	379.95	379.85	380.32	
29	380.33	380.31	380.21	380.23	380.32	380.36	380.22	380.02	379.93	379.95		380.32	
30	380.35	380.30	380.21	380.21	380.31	380.32	380.21	380.01	379.93	379.95		380.32	
31		380.31		380.18	380.27		380.21		379.93	379.94		380.33	
Mean	380.27	380.28	380.31	380.26	380.23	380.33	380.22	380.12	379.97	379.94	379.90	379.97	
Max	380.37	380.38	380.56	380.39	380.33	380.52	380.43	380.25	380.02	379.96	379.98	380.34	380.56
Min	380.23	380.19	380.21	380.18	380.14	380.20	380.10	380.01	379.93	379.92	379.85	379.85	379.85
Annual Max Momentary Gage Height	380.69		m. (MSL.) ,				at 07.00 Hours ,						
Zero Gage at Bottom Elevation	379.90		m. (MSL.) ,			River Bed	378.70		m. (MSL.)				
Left Bank Elevation		385.62		m. (MSL.) ,									
Right Bank Elevation		386.72		m. (MSL.) ,		Drainage Are	1,223		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	1.70	1.70	1.00	0.68	1.30	2.24	0.80	3.58	1.76	2.30	0.98	
2	1.30	3.56	1.70	1.00	0.68	1.70	2.68	1.00	3.39	1.76	2.30	0.84	
3	1.10	2.46	1.40	0.90	0.68	1.10	2.46	1.20	3.20	2.12	2.12	0.84	
4	1.10	2.02	1.50	0.80	1.30	1.20	1.50	1.10	3.02	2.12	1.58	0.84	
5	1.10	2.02	4.45	0.76	0.90	0.80	1.10	1.10	3.20	2.12	1.58	0.84	
6	1.50	2.24	5.35	1.00	0.72	2.24	0.80	0.72	3.02	2.12	2.30	0.84	
7	1.60	1.70	17.80	3.78	0.68	2.24	0.64	0.60	3.02	1.94	2.84	0.70	
8	1.30	1.40	3.12	1.10	0.60	1.20	0.56	0.56	3.02	1.94	2.12	0.84	
9	1.30	3.12	2.46	1.60	0.60	1.20	0.56	0.40	3.02	2.12	1.58	0.98	
10	1.30	2.02	7.60	3.12	0.60	1.70	0.44	0.38	3.02	1.94	1.58	0.98	
11	1.30	2.90	4.45	1.70	0.60	2.68	0.72	0.44	3.02	1.94	1.40	0.70	
12	1.20	2.68	2.02	2.90	0.64	1.60	0.64	0.44	3.02	1.94	1.26	0.84	
13	1.20	1.40	2.24	1.70	0.60	1.10	0.48	9.00	3.02	1.94	1.26	0.84	
14	1.40	1.20	1.80	1.30	0.56	1.30	0.48	7.40	3.02	1.94	1.26	0.84	
15	1.50	1.00	2.68	1.30	0.64	4.00	0.40	6.02	2.84	1.76	1.26	0.98	
16	1.40	0.90	3.12	2.02	1.30	6.70	0.56	5.10	2.84	1.94	0.98	1.58	
17	1.50	1.00	5.35	1.50	2.02	4.90	0.80	4.91	2.84	2.30	0.84	1.12	
18	1.60	1.30	2.68	1.20	1.40	11.60	0.76	5.10	2.66	2.12	0.98	1.12	
19	1.40	0.80	1.80	1.50	1.60	2.90	0.60	5.10	2.66	2.12	1.40	1.40	
20	1.30	1.00	1.50	1.50	2.02	1.70	0.60	4.91	2.66	2.48	1.76	1.40	
21	1.30	0.80	1.60	1.80	1.40	2.24	0.56	4.72	2.48	2.30	1.40	1.58	
22	1.40	0.80	1.60	1.70	1.30	3.12	0.76	4.72	2.30	2.30	1.26	1.26	
23	1.80	0.76	1.40	1.70	1.10	8.05	2.46	4.72	2.30	2.30	0.98	1.26	
24	2.02	0.80	1.10	1.50	1.00	3.12	5.35	4.15	2.30	2.12	0.98	1.76	
25	2.46	1.80	1.00	1.30	1.70	1.80	3.78	4.15	2.66	1.76	0.84	3.20	
26	2.68	3.12	1.00	1.40	1.80	2.68	2.46	4.15	2.48	2.30	0.98	2.68	
27	3.34	1.80	1.20	1.50	1.80	3.56	1.70	4.15	1.94	2.30	0.98	2.46	
28	2.24	1.80	0.90	1.30	2.46	7.15	1.50	3.96	1.94	2.30	0.70	2.24	
29	2.46	2.02	0.90	1.10	2.24	3.12	1.00	3.58	1.94	2.30		2.24	
30	2.90	1.80	0.90	0.90	2.02	2.24	0.90	3.39	1.94	2.30		2.24	
31		2.02		0.72	1.50		0.90		1.94	2.12		2.46	
<b>Total</b>	<b>49.30</b>	<b>53.94</b>	<b>86.32</b>	<b>46.60</b>	<b>37.14</b>	<b>90.24</b>	<b>40.39</b>	<b>97.97</b>	<b>84.29</b>	<b>64.82</b>	<b>40.82</b>	<b>42.88</b>	<b>734.71</b> CMSDAY
<b>Mean</b>	<b>1.64</b>	<b>1.74</b>	<b>2.88</b>	<b>1.50</b>	<b>1.20</b>	<b>3.01</b>	<b>1.30</b>	<b>3.27</b>	<b>2.72</b>	<b>2.09</b>	<b>1.46</b>	<b>1.38</b>	<b>2.01</b> CMS
<b>Max</b>	<b>3.34</b>	<b>3.56</b>	<b>17.80</b>	<b>3.78</b>	<b>2.46</b>	<b>11.60</b>	<b>5.35</b>	<b>9.00</b>	<b>3.58</b>	<b>2.48</b>	<b>2.84</b>	<b>3.20</b>	<b>17.80</b> CMS
<b>Min</b>	<b>1.10</b>	<b>0.76</b>	<b>0.90</b>	<b>0.72</b>	<b>0.56</b>	<b>0.80</b>	<b>0.40</b>	<b>0.38</b>	<b>1.94</b>	<b>1.76</b>	<b>0.70</b>	<b>0.70</b>	<b>0.38</b> CMS
<b>Runoff</b>	<b>4.26</b>	<b>4.66</b>	<b>7.46</b>	<b>4.03</b>	<b>3.21</b>	<b>7.80</b>	<b>3.49</b>	<b>8.46</b>	<b>7.28</b>	<b>5.60</b>	<b>3.53</b>	<b>3.70</b>	<b>63.48</b> MCM
<b>Momentary Peak</b>	<b>29.40</b>	<b>CMS.</b>	<b>at 380.69 m. (MSL.)</b>	<b>at 07.00 Hours</b>	<b>, on Jun 7, 2021</b>								
<b>Runoff Yield</b>	<b>1.50</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>21.86</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Rim at Ban Mae Rim Tai , Chiang Mai (P.21)

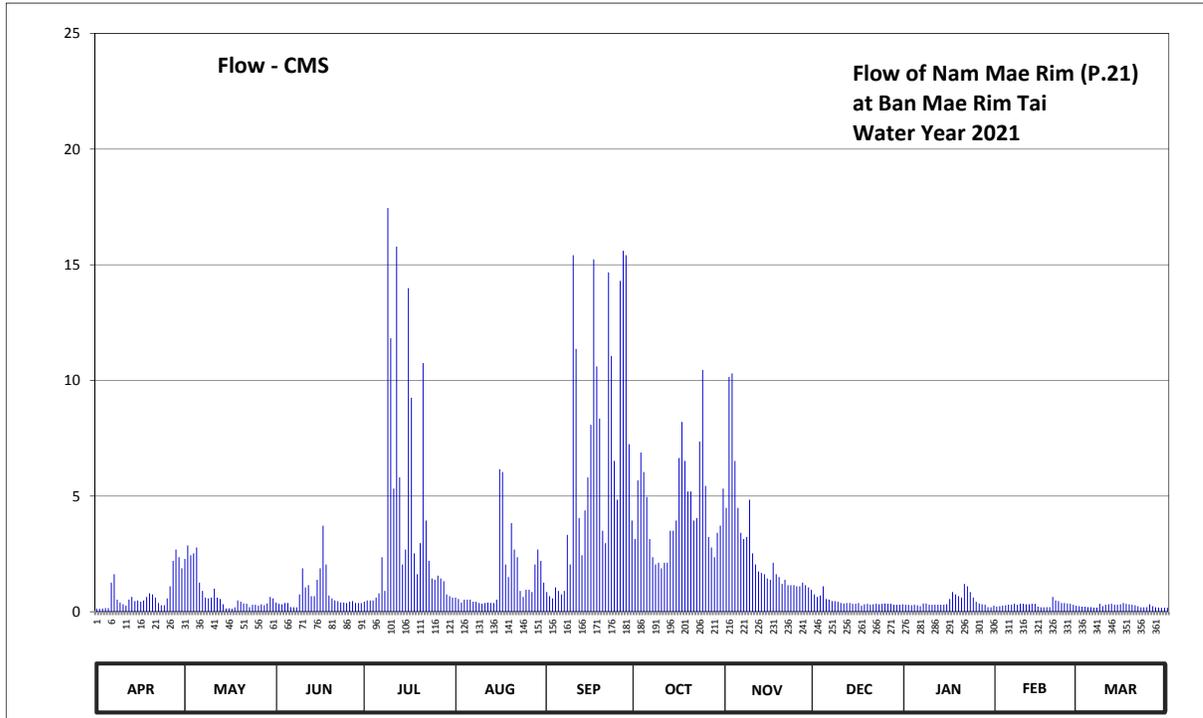
Lat 18 - 55 - 39 N Long 98 - 56 - 23 E

Location : on left bank about 100 meters downstream from the bridge of Chiang Mai - Fang Highway.

	<b>Ban Mae Rim Tai</b>	<b>Amphoe Mae Rim</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	506 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+319.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In the vicinity of gage observer's house.	<b>Elevation</b>	+325.270 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1954 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1954 - 1960 , 1977 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1954 - 1960 , 1977 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.05	320.66	320.30	320.31	320.37	320.43	320.76	320.89	320.41	320.25	320.21	320.22	
2	320.05	320.73	320.27	320.33	320.35	320.39	320.99	321.33	320.38	320.25	320.22	320.21	
3	320.07	320.68	320.26	320.33	320.30	320.36	321.09	321.34	320.40	320.24	320.23	320.21	
4	320.11	320.69	320.29	320.33	320.34	320.47	321.02	321.06	320.48	320.25	320.24	320.20	
5	320.12	320.72	320.29	320.37	320.34	320.44	320.93	320.89	320.35	320.24	320.25	320.19	
6	320.51	320.51	320.19	320.42	320.34	320.41	320.76	320.79	320.34	320.22	320.25	320.16	
7	320.57	320.44	320.18	320.67	320.31	320.44	320.67	320.76	320.32	320.28	320.27	320.15	
8	320.34	320.37	320.18	320.44	320.31	320.78	320.63	320.77	320.32	320.28	320.25	320.27	
9	320.30	320.36	320.41	321.77	320.29	320.63	320.64	320.92	320.31	320.25	320.27	320.22	
10	320.26	320.37	320.61	321.44	320.27	321.66	320.61	320.69	320.29	320.25	320.27	320.25	
11	320.23	320.46	320.47	320.96	320.29	321.41	320.64	320.63	320.28	320.25	320.26	320.26	
12	320.34	320.37	320.49	321.68	320.30	320.85	320.64	320.59	320.29	320.25	320.26	320.27	
13	320.38	320.35	320.39	321.00	320.29	320.68	320.80	320.58	320.29	320.25	320.27	320.25	
14	320.32	320.26	320.39	320.63	320.29	320.88	320.80	320.57	320.27	320.25	320.27	320.25	
15	320.33	320.08	320.53	320.71	320.34	321.00	320.84	320.54	320.27	320.26	320.21	320.26	
16	320.31	320.09	320.61	321.58	321.03	321.19	321.07	320.53	320.29	320.35	320.18	320.29	
17	320.33	320.06	320.82	321.27	321.02	321.65	321.20	320.64	320.23	320.43	320.18	320.27	
18	320.38	320.17	320.63	320.69	320.63	321.36	321.06	320.57	320.26	320.41	320.19	320.26	
19	320.42	320.33	320.40	320.57	320.55	321.21	320.95	320.55	320.27	320.39	320.20	320.25	
20	320.41	320.31	320.36	320.74	320.83	320.80	320.95	320.50	320.25	320.37	320.38	320.24	
21	320.37	320.28	320.33	321.37	320.71	320.74	320.84	320.53	320.26	320.50	320.33	320.22	
22	320.29	320.27	320.32	320.84	320.67	321.62	320.85	320.49	320.27	320.48	320.32	320.18	
23	320.24	320.19	320.30	320.65	320.44	321.39	321.13	320.49	320.26	320.43	320.29	320.18	
24	320.24	320.25	320.30	320.54	320.38	321.06	321.35	320.49	320.27	320.37	320.29	320.19	
25	320.36	320.25	320.29	320.53	320.45	320.92	320.97	320.48	320.28	320.31	320.28	320.26	
26	320.48	320.23	320.31	320.56	320.45	321.60	320.77	320.48	320.27	320.28	320.27	320.22	
27	320.65	320.26	320.32	320.54	320.43	321.67	320.72	320.51	320.27	320.26	320.25	320.17	
28	320.71	320.24	320.29	320.52	320.63	321.66	320.67	320.49	320.25	320.25	320.23	320.16	
29	320.67	320.28	320.29	320.41	320.71	321.12	320.79	320.47	320.25	320.20		320.14	
30	320.61	320.38	320.29	320.39	320.65	320.84	320.82	320.45	320.25	320.18		320.14	
31		320.36		320.37	320.51		320.96		320.26	320.23		320.14	
Mean	320.35	320.35	320.37	320.74	320.48	320.99	320.87	320.67	320.30	320.30	320.25	320.22	
Max	320.71	320.73	320.82	321.77	321.03	321.67	321.35	321.34	320.48	320.50	320.38	320.29	321.77
Min	320.05	320.06	320.18	320.31	320.27	320.36	320.61	320.45	320.23	320.18	320.18	320.14	320.05
Annual Max Momentary Gage Height	322.52		m. (MSL.) ,				at 06.00 Hours ,						on Jul 9, 2021
Zero Gage at Bottom Elevation	319.70		m. (MSL.) ,			River Bed	319.50		m. (MSL.)				
Left Bank Elevation		324.93		m. (MSL.) ,									
Right Bank Elevation		324.98		m. (MSL.) ,		Drainage Are	506		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	2.28	0.40	0.43	0.61	0.85	3.14	4.49	0.75	0.30	0.22	0.24	
2	0.13	2.87	0.34	0.49	0.55	0.67	5.68	10.15	0.64	0.30	0.24	0.22	
3	0.14	2.44	0.32	0.49	0.40	0.58	6.88	10.30	0.70	0.28	0.26	0.22	
4	0.16	2.52	0.38	0.49	0.52	1.05	6.04	6.52	1.10	0.30	0.28	0.20	
5	0.16	2.78	0.38	0.61	0.52	0.90	4.96	4.49	0.55	0.28	0.30	0.20	
6	1.26	1.26	0.20	0.80	0.52	0.75	3.14	3.41	0.52	0.24	0.30	0.18	
7	1.62	0.90	0.19	2.36	0.43	0.90	2.36	3.14	0.46	0.36	0.34	0.18	
8	0.52	0.61	0.19	0.90	0.43	3.32	2.04	3.23	0.46	0.36	0.30	0.34	
9	0.40	0.58	0.75	17.45	0.38	2.04	2.12	4.84	0.43	0.30	0.34	0.24	
10	0.32	0.61	1.88	11.82	0.34	15.41	1.88	2.52	0.38	0.30	0.34	0.30	
11	0.26	1.00	1.05	5.32	0.38	11.36	2.12	2.04	0.36	0.30	0.32	0.32	
12	0.52	0.61	1.15	15.78	0.40	4.05	2.12	1.74	0.38	0.30	0.32	0.34	
13	0.64	0.55	0.67	5.80	0.38	2.44	3.50	1.68	0.38	0.30	0.34	0.30	
14	0.46	0.32	0.67	2.04	0.38	4.38	3.50	1.62	0.34	0.30	0.34	0.30	
15	0.49	0.14	1.38	2.69	0.52	5.80	3.94	1.44	0.34	0.32	0.22	0.32	
16	0.43	0.15	1.88	13.99	6.16	8.08	6.64	1.38	0.38	0.55	0.19	0.38	
17	0.49	0.13	3.72	9.25	6.04	15.23	8.20	2.12	0.26	0.85	0.19	0.34	
18	0.64	0.19	2.04	2.52	2.04	10.60	6.52	1.62	0.32	0.75	0.20	0.32	
19	0.80	0.49	0.70	1.62	1.50	8.35	5.20	1.50	0.34	0.67	0.20	0.30	
20	0.75	0.43	0.58	2.96	3.83	3.50	5.20	1.20	0.30	0.61	0.64	0.28	
21	0.61	0.36	0.49	10.75	2.69	2.96	3.94	1.38	0.32	1.20	0.49	0.24	
22	0.38	0.34	0.46	3.94	2.36	14.67	4.05	1.15	0.34	1.10	0.46	0.19	
23	0.28	0.20	0.40	2.20	0.90	11.05	7.36	1.15	0.32	0.85	0.38	0.19	
24	0.28	0.30	0.40	1.44	0.64	6.52	10.45	1.15	0.34	0.61	0.38	0.20	
25	0.58	0.30	0.38	1.38	0.95	4.84	5.44	1.10	0.36	0.43	0.36	0.32	
26	1.10	0.26	0.43	1.56	0.95	14.30	3.23	1.10	0.34	0.36	0.34	0.24	
27	2.20	0.32	0.46	1.44	0.85	15.60	2.78	1.26	0.34	0.32	0.30	0.19	
28	2.69	0.28	0.38	1.32	2.04	15.41	2.36	1.15	0.30	0.30	0.26	0.18	
29	2.36	0.36	0.38	0.75	2.69	7.24	3.41	1.05	0.30	0.20	0.17	0.17	
30	1.88	0.64	0.38	0.67	2.20	3.94	3.72	0.95	0.30	0.19	0.17	0.17	
31		0.58		0.61	1.26		5.32		0.32	0.26		0.17	
<b>Total</b>	22.68	24.80	23.03	123.87	43.86	196.79	137.24	80.87	12.97	13.79	8.85	7.78	696.53 CMSDAY
<b>Mean</b>	0.76	0.80	0.77	4.00	1.41	6.56	4.43	2.70	0.42	0.44	0.32	0.25	1.91 CMS
<b>Max</b>	2.69	2.87	3.72	17.45	6.16	15.60	10.45	10.30	1.10	1.20	0.64	0.38	17.45 CMS
<b>Min</b>	0.13	0.13	0.19	0.43	0.34	0.58	1.88	0.95	0.26	0.19	0.19	0.17	0.13 CMS
<b>Runoff</b>	1.96	2.14	1.99	10.70	3.79	17.00	11.86	6.99	1.12	1.19	0.76	0.67	60.18 MCM
<b>Momentary Peak</b>	34.40	CMS. at 322.52 m. (MSL.) at 06.00 Hours , on Jul 9, 2021											
<b>Runoff Yield</b>	3.77	Liters/Second/Square KM.		Momentary Peak Yield		67.98	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Klang at Pracha Uthit Bridge , Chiang Mai (P.24A)

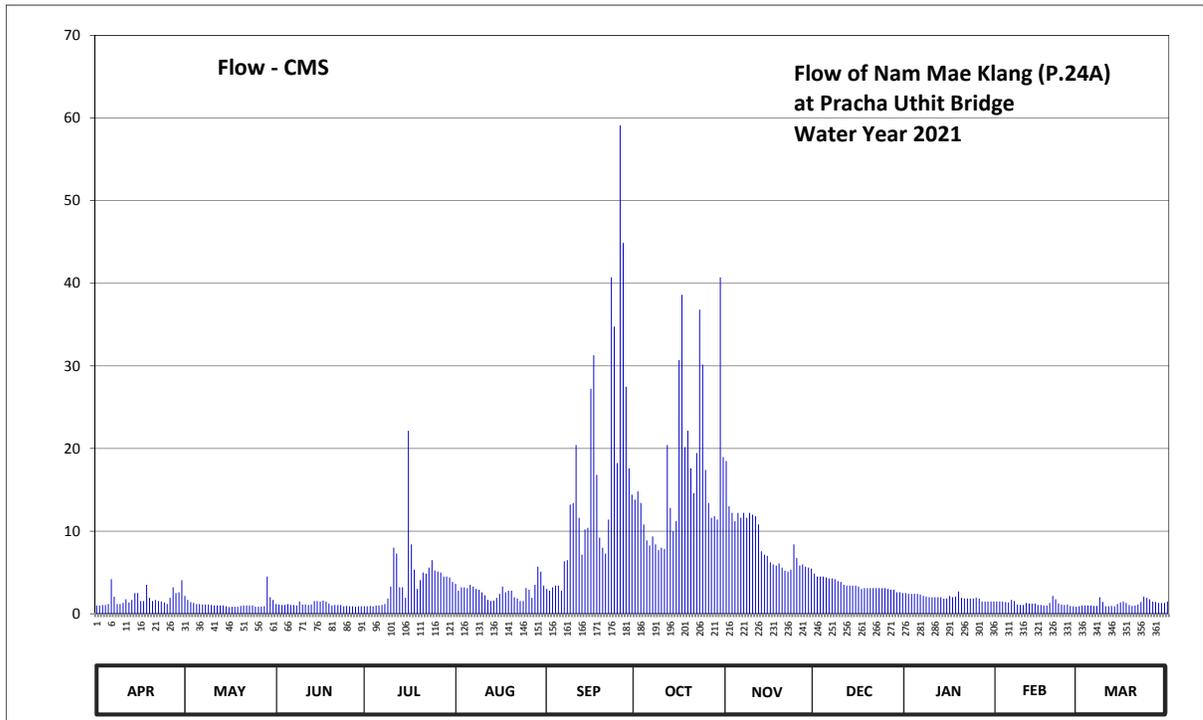
Lat 18 - 24 - 56 N Long 98 - 40 - 11 E

Location : on left bank at Pracha Uthit Bridge.

	<b>Ban</b>	Pracha Uthit Bridge	<b>Amphoe</b>	Chom Thong	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	445	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+275.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	near the gage observer's house.				<b>Elevation</b>	+277.954 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1973 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1973 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1973 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.30	275.47	275.33	275.28	275.62	275.56	276.29	276.52	275.73	275.51	275.38	275.28	
2	275.30	275.41	275.32	275.28	275.54	275.54	276.34	276.25	275.70	275.50	275.38	275.30	
3	275.31	275.37	275.31	275.29	275.58	275.58	276.27	276.21	275.70	275.50	275.38	275.30	
4	275.31	275.35	275.31	275.28	275.58	275.60	276.14	276.16	275.70	275.50	275.37	275.30	
5	275.33	275.33	275.33	275.30	275.57	275.60	276.03	276.21	275.69	275.50	275.36	275.30	
6	275.67	275.33	275.31	275.30	275.61	275.54	275.99	276.18	275.68	275.49	275.41	275.29	
7	275.46	275.32	275.31	275.31	275.59	275.85	276.06	276.21	275.68	275.47	275.39	275.29	
8	275.33	275.32	275.30	275.33	275.56	275.86	276.00	276.18	275.67	275.46	275.32	275.45	
9	275.33	275.32	275.38	275.43	275.55	276.26	275.95	276.21	275.65	275.45	275.31	275.37	
10	275.35	275.31	275.32	275.59	275.52	276.27	275.97	276.20	275.64	275.45	275.31	275.28	
11	275.42	275.30	275.32	275.97	275.48	276.60	275.96	276.19	275.61	275.45	275.35	275.28	
12	275.36	275.30	275.31	275.92	275.41	276.18	276.60	276.14	275.60	275.45	275.34	275.29	
13	275.41	275.30	275.32	275.58	275.39	275.91	276.24	275.94	275.60	275.45	275.34	275.28	
14	275.51	275.30	275.39	275.58	275.40	276.11	276.10	275.91	275.60	275.43	275.34	275.33	
15	275.51	275.28	275.39	275.44	275.44	276.12	276.16	275.90	275.60	275.43	275.31	275.36	
16	275.39	275.26	275.38	276.67	275.50	276.87	277.00	275.84	275.59	275.47	275.31	275.38	
17	275.39	275.27	275.40	276.00	275.59	277.02	277.27	275.82	275.56	275.45	275.30	275.35	
18	275.61	275.27	275.38	275.77	275.52	276.44	276.59	275.81	275.57	275.46	275.30	275.31	
19	275.44	275.27	275.34	275.56	275.54	276.05	276.67	275.83	275.57	275.53	275.35	275.29	
20	275.39	275.29	275.30	275.66	275.54	275.97	276.48	275.79	275.57	275.44	275.47	275.30	
21	275.41	275.30	275.31	275.74	275.45	275.92	276.33	275.76	275.57	275.43	275.42	275.32	
22	275.39	275.30	275.31	275.73	275.43	276.17	276.56	275.75	275.57	275.43	275.34	275.37	
23	275.38	275.30	275.31	275.79	275.39	277.34	277.21	275.77	275.57	275.43	275.32	275.46	
24	275.36	275.30	275.28	275.86	275.39	277.14	276.98	276.00	275.57	275.43	275.31	275.44	
25	275.33	275.27	275.29	275.76	275.57	276.51	276.47	275.88	275.57	275.44	275.32	275.42	
26	275.44	275.27	275.28	275.75	275.55	277.87	276.27	275.81	275.56	275.43	275.29	275.38	
27	275.58	275.27	275.28	275.74	275.44	277.47	276.18	275.82	275.55	275.38	275.28	275.37	
28	275.51	275.28	275.27	275.70	275.61	276.88	276.19	275.80	275.55	275.38	275.27	275.35	
29	275.52	275.70	275.28	275.70	275.80	276.48	276.17	275.79	275.52	275.38		275.35	
30	275.66	275.45	275.28	275.69	275.75	276.32	277.34	275.78	275.52	275.38		275.35	
31		275.41		275.64	275.60		276.54		275.51	275.38		275.38	
Mean	275.42	275.33	275.32	275.63	275.53	276.30	276.40	275.99	275.61	275.45	275.34	275.34	
Max	275.67	275.70	275.40	276.67	275.80	277.87	277.34	276.52	275.73	275.53	275.47	275.46	277.87
Min	275.30	275.26	275.27	275.28	275.39	275.54	275.95	275.75	275.51	275.38	275.27	275.28	275.26
Annual Max Momentary Gage Height	278.36		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	275.00		m. (MSL.) ,			River Bed	275.00	m. (MSL.)					
Left Bank Elevation		280.23		m. (MSL.) ,									
Right Bank Elevation		280.04		m. (MSL.) ,		Drainage Are	445	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	2.16	1.18	0.90	3.62	3.00	13.80	18.48	4.86	2.50	1.48	0.90	
2	1.00	1.68	1.12	0.90	2.80	2.80	14.80	13.00	4.50	2.40	1.48	1.00	
3	1.06	1.42	1.06	0.95	3.20	3.20	13.40	12.20	4.50	2.40	1.48	1.00	
4	1.06	1.30	1.06	0.90	3.20	3.40	10.80	11.20	4.50	2.40	1.42	1.00	
5	1.18	1.18	1.18	1.00	3.10	3.40	8.88	12.20	4.39	2.40	1.36	1.00	
6	4.17	1.18	1.06	1.00	3.51	2.80	8.26	11.60	4.28	2.32	1.68	0.95	
7	2.08	1.12	1.06	1.06	3.30	6.35	9.36	12.20	4.28	2.16	1.54	0.95	
8	1.18	1.12	1.00	1.18	3.00	6.48	8.40	11.60	4.17	2.08	1.12	2.00	
9	1.18	1.12	1.48	1.84	2.90	13.20	7.70	12.20	3.95	2.00	1.06	1.42	
10	1.30	1.06	1.12	3.30	2.60	13.40	7.98	12.00	3.84	2.00	1.06	0.90	
11	1.76	1.00	1.12	7.98	2.24	20.40	7.84	11.80	3.51	2.00	1.30	0.90	
12	1.36	1.00	1.06	7.28	1.68	11.60	20.40	10.80	3.40	2.00	1.24	0.95	
13	1.68	1.00	1.12	3.20	1.54	7.14	12.80	7.56	3.40	2.00	1.24	0.90	
14	2.50	1.00	1.54	3.20	1.60	10.20	10.00	7.14	3.40	1.84	1.24	1.18	
15	2.50	0.90	1.54	1.92	1.92	10.40	11.20	7.00	3.40	1.84	1.06	1.36	
16	1.54	0.80	1.48	22.15	2.40	27.22	30.70	6.22	3.30	2.16	1.06	1.48	
17	1.54	0.85	1.60	8.40	3.30	31.28	38.60	5.96	3.00	2.00	1.00	1.30	
18	3.51	0.85	1.48	5.34	2.60	16.80	20.16	5.83	3.10	2.08	1.00	1.06	
19	1.92	0.85	1.24	3.00	2.80	9.20	22.15	6.09	3.10	2.70	1.30	0.95	
20	1.54	0.95	1.00	4.06	2.80	7.98	17.60	5.58	3.10	1.92	2.16	1.00	
21	1.68	1.00	1.06	4.98	2.00	7.28	14.60	5.22	3.10	1.84	1.76	1.12	
22	1.54	1.00	1.06	4.86	1.84	11.40	19.44	5.10	3.10	1.84	1.24	1.42	
23	1.48	1.00	1.06	5.58	1.54	40.70	36.80	5.34	3.10	1.84	1.12	2.08	
24	1.36	1.00	0.90	6.48	1.54	34.76	30.16	8.40	3.10	1.84	1.06	1.92	
25	1.18	0.85	0.95	5.22	3.10	18.24	17.40	6.74	3.10	1.92	1.12	1.76	
26	1.92	0.85	0.90	5.10	2.90	59.09	13.40	5.83	3.00	1.84	0.95	1.48	
27	3.20	0.85	0.90	4.98	1.92	44.88	11.60	5.96	2.90	1.48	0.90	1.42	
28	2.50	0.90	0.85	4.50	3.51	27.48	11.80	5.70	2.90	1.48	0.85	1.30	
29	2.60	4.50	0.90	4.50	5.70	17.60	11.40	5.58	2.60	1.48		1.30	
30	4.06	2.00	0.90	4.39	5.10	14.40	40.70	5.46	2.60	1.48		1.30	
31		1.68		3.84	3.40		18.96		2.50	1.48		1.48	
<b>Total</b>	56.58	38.17	33.98	133.99	86.66	486.08	521.09	259.99	107.98	61.72	35.28	38.78	1860.30 CMSDAY
<b>Mean</b>	1.89	1.23	1.13	4.32	2.80	16.20	16.81	8.67	3.48	1.99	1.26	1.25	5.10 CMS
<b>Max</b>	4.17	4.50	1.60	22.15	5.70	59.09	40.70	18.48	4.86	2.70	2.16	2.08	59.09 CMS
<b>Min</b>	1.00	0.80	0.85	0.90	1.54	2.80	7.70	5.10	2.50	1.48	0.85	0.90	0.80 CMS
<b>Runoff</b>	4.89	3.30	2.94	11.58	7.49	42.00	45.02	22.46	9.33	5.33	3.05	3.35	160.73 MCM
<b>Momentary Peak</b>		77.90		CMS. at 278.36 m. (MSL.)		at 18.00 Hours ,		on Sep 23, 2021					
<b>Runoff Yield</b>		11.45		Liters/Second/Square KM.		Momentary Peak Yield		175.06		Liters/Second/Square KM.			

## WATER YEAR : 2021

## PING RIVER BASIN

## Khleng Suan Mak at Ban Mai , Kamphaeng Phet (P.26A)

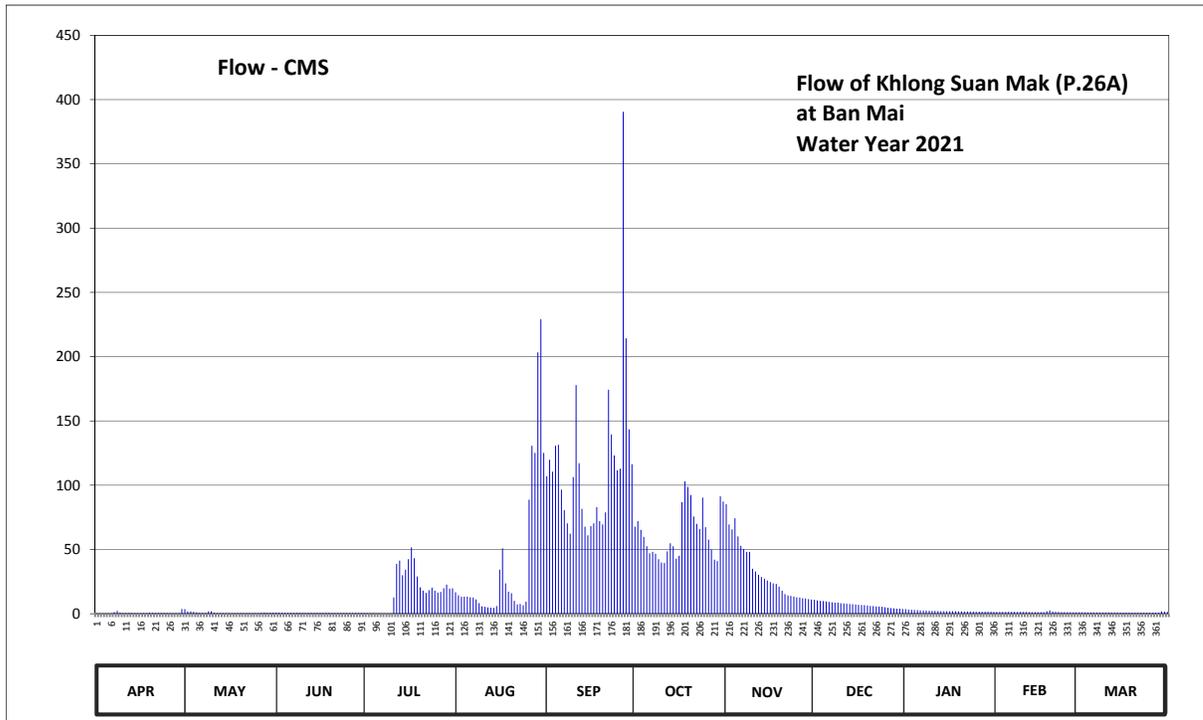
Lat 16 - 27 - 27 N Long 99 - 27 - 22 E

Location : on right bank about 615 meters downstream from tha Kradan Wair.

	<b>Ban Mai</b>	<b>Amphoe Mueang</b>	<b>Changwat</b>	<b>Kamphaeng Phet</b>
<b>Drainage Area</b>	958	sq.km.		
<b>Type of Gage</b>	Staff gage.			
<b>Zero Gage at Bottom</b>	+84.110	m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank about 30 meters from the south of Wat Sri Phirom.			<b>Elevation</b> +90.956 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings			
<b>Period of Available Gage Records</b>	1971 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1972 - 1974 , 1980 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	1972 - 1974 , 1980 to date			
<b>Stability of Channel Regimes</b>	Fairly stable.			
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +86.580 m.(MSL.), records are channel flow only.			
<b>General Description</b>	Records good. Flow effected by Tha Kradan weir about 3.5 kilometers above gage site. Stage-discharge relation defined by 16 discharge measurements made in 2021.			

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.15	84.82	84.40	84.30	85.63	87.84	87.04	87.43	85.33	84.82	84.57	84.51	
2	84.15	84.62	84.40	84.27	85.52	88.05	87.14	87.08	85.30	84.79	84.57	84.51	
3	84.15	84.62	84.39	84.25	85.46	87.90	86.98	86.99	85.28	84.78	84.57	84.51	
4	84.15	84.57	84.39	84.22	85.46	88.21	86.85	87.19	85.27	84.75	84.56	84.50	
5	84.15	84.51	84.38	84.20	85.47	88.22	86.67	86.86	85.25	84.74	84.56	84.50	
6	84.15	84.39	84.38	84.17	85.44	87.65	86.53	86.68	85.23	84.71	84.56	84.50	
7	84.54	84.35	84.38	84.15	85.43	87.33	86.56	86.62	85.21	84.70	84.56	84.49	
8	84.67	84.31	84.37	84.14	85.35	87.10	86.52	86.56	85.20	84.69	84.55	84.49	
9	84.40	84.62	84.37	84.14	85.17	86.91	86.41	86.56	85.20	84.68	84.55	84.48	
10	84.31	84.64	84.37	84.14	85.00	87.83	86.34	86.21	85.16	84.67	84.55	84.48	
11	84.30	84.40	84.36	85.43	84.97	88.70	86.33	86.15	85.15	84.66	84.55	84.47	
12	84.29	84.26	84.36	86.31	84.94	88.01	86.57	86.08	85.14	84.65	84.54	84.47	
13	84.28	84.24	84.36	86.38	84.92	87.35	86.73	86.03	85.12	84.64	84.54	84.46	
14	84.27	84.24	84.35	86.07	84.91	87.04	86.67	85.99	85.11	84.64	84.54	84.46	
15	84.26	84.24	84.35	86.19	85.01	86.88	86.42	85.95	85.09	84.64	84.53	84.45	
16	84.25	84.23	84.35	86.41	86.19	87.05	86.48	85.91	85.08	84.64	84.53	84.45	
17	84.24	84.23	84.34	86.65	86.63	87.10	87.46	85.88	85.07	84.63	84.53	84.44	
18	84.23	84.23	84.34	86.43	85.88	87.38	87.77	85.87	85.06	84.63	84.63	84.44	
19	84.41	84.22	84.34	86.04	85.65	87.14	87.69	85.80	85.04	84.62	84.71	84.43	
20	84.34	84.22	84.33	85.78	85.60	87.08	87.57	85.68	85.02	84.62	84.59	84.43	
21	84.32	84.22	84.33	85.68	85.28	87.29	87.22	85.56	85.01	84.61	84.56	84.42	
22	84.30	84.22	84.33	85.61	85.10	88.67	87.09	85.51	84.99	84.61	84.55	84.42	
23	84.29	84.22	84.33	85.69	85.12	88.32	87.00	85.49	84.98	84.60	84.54	84.42	
24	84.28	84.22	84.32	85.77	85.05	88.10	87.53	85.47	84.97	84.60	84.53	84.41	
25	84.27	84.22	84.32	85.68	85.24	87.92	87.03	85.44	84.95	84.59	84.53	84.41	
26	84.26	84.26	84.32	85.62	87.50	87.94	86.80	85.43	84.92	84.59	84.52	84.41	
27	84.25	84.43	84.32	85.64	88.21	89.67	86.61	85.40	84.89	84.59	84.52	84.40	
28	84.24	84.49	84.31	85.75	88.13	88.98	86.40	85.39	84.88	84.58	84.52	84.40	
29	84.24	84.44	84.31	85.85	88.90	88.37	86.37	85.36	84.86	84.58		84.62	
30	84.84	84.42	84.31	85.74	89.07	88.00	87.55	85.34	84.86	84.58		84.58	
31		84.41		85.75	88.13		87.47		84.84	84.57		84.55	
Mean	84.30	84.37	84.35	85.37	85.95	87.80	86.90	86.06	85.08	84.65	84.56	84.47	
Max	84.84	84.82	84.40	86.65	89.07	89.67	87.77	87.43	85.33	84.82	84.71	84.62	89.67
Min	84.15	84.22	84.31	84.14	84.91	86.88	86.33	85.34	84.84	84.57	84.52	84.40	84.14
Annual Max Momentary Gage Height	89.77		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	84.11		m. (MSL.) ,			River Bed	80.09		m. (MSL.)				
Left Bank Elevation		86.57		m. (MSL.) ,									
Right Bank Elevation		86.75		m. (MSL.) ,		Drainage Are	958		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	3.52	0.80	0.60	16.75	106.96	67.74	85.30	10.85	3.52	1.49	1.07		
2	0.30	1.86	0.80	0.54	14.40	119.78	72.09	69.48	10.35	3.22	1.49	1.07		
3	0.30	1.86	0.78	0.50	13.20	110.50	65.17	65.59	10.02	3.14	1.49	1.07		
4	0.30	1.49	0.78	0.44	13.20	130.70	59.78	74.27	9.86	2.90	1.42	1.00		
5	0.30	1.07	0.76	0.40	13.40	131.50	52.44	60.19	9.53	2.82	1.42	1.00		
6	0.30	0.78	0.76	0.34	12.80	96.50	46.98	52.84	9.20	2.58	1.42	1.00		
7	1.28	0.70	0.76	0.30	12.60	80.62	48.10	50.41	8.87	2.50	1.42	0.98		
8	2.26	0.62	0.74	0.28	11.18	70.35	46.60	48.10	8.70	2.42	1.35	0.98		
9	0.80	1.86	0.74	0.28	8.27	62.27	42.48	48.10	8.70	2.34	1.35	0.96		
10	0.62	2.02	0.74	0.28	5.80	106.37	39.85	34.98	8.12	2.26	1.35	0.96		
11	0.60	0.80	0.72	12.60	5.38	177.90	39.48	32.83	7.98	2.18	1.35	0.94		
12	0.58	0.52	0.72	38.73	4.96	117.08	48.48	30.34	7.83	2.10	1.28	0.94		
13	0.56	0.48	0.72	41.35	4.68	81.53	54.87	28.57	7.54	2.02	1.28	0.92		
14	0.54	0.48	0.70	29.99	4.54	67.74	52.44	27.18	7.40	2.02	1.28	0.92		
15	0.52	0.48	0.70	34.25	5.95	61.02	42.85	25.88	7.11	2.02	1.21	0.90		
16	0.50	0.46	0.70	42.48	34.25	68.18	45.10	24.58	6.96	2.02	1.21	0.90		
17	0.48	0.46	0.68	51.63	50.82	70.35	86.80	23.60	6.82	1.94	1.21	0.88		
18	0.46	0.46	0.68	43.23	23.60	82.89	102.98	23.28	6.67	1.94	1.14	0.88		
19	0.82	0.44	0.68	28.92	17.25	72.09	98.66	21.00	6.38	1.86	1.14	0.86		
20	0.68	0.44	0.66	20.50	16.00	69.48	92.30	18.00	6.09	1.86	1.63	0.86		
21	0.64	0.44	0.66	18.00	10.02	78.80	75.61	15.20	5.95	1.78	1.42	0.84		
22	0.60	0.44	0.66	16.25	7.25	174.33	69.92	14.20	5.66	1.78	1.35	0.84		
23	0.58	0.44	0.66	18.25	7.54	139.50	66.00	13.80	5.52	1.70	1.28	0.84		
24	0.56	0.44	0.64	20.25	6.53	123.15	90.30	13.40	5.38	1.70	1.21	0.82		
25	0.54	0.44	0.64	18.00	9.36	111.68	67.31	12.80	5.10	1.63	1.21	0.82		
26	0.52	0.52	0.64	16.50	88.80	112.86	57.70	12.60	4.68	1.63	1.14	0.82		
27	0.50	0.86	0.64	17.00	130.70	390.55	50.01	12.00	4.29	1.63	1.14	0.80		
28	0.48	0.98	0.62	19.75	125.18	214.28	42.10	11.84	4.18	1.56	1.14	0.80		
29	0.48	0.88	0.62	22.63	203.40	143.50	40.98	11.34	3.96	1.56		1.86		
30	3.74	0.84	0.62	19.50	229.29	116.40	91.30	11.01	3.96	1.56		1.56		
31		0.82		19.75	125.18		87.30		3.74	1.49		1.35		
<b>Total</b>	<b>21.14</b>	<b>27.90</b>	<b>21.02</b>	<b>553.52</b>	<b>1232.28</b>	<b>3488.86</b>	<b>1943.72</b>	<b>972.71</b>	<b>217.40</b>	<b>65.68</b>	<b>39.06</b>	<b>30.44</b>	<b>8613.73</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>0.70</b>	<b>0.90</b>	<b>0.70</b>	<b>17.86</b>	<b>39.75</b>	<b>116.30</b>	<b>62.70</b>	<b>32.42</b>	<b>7.01</b>	<b>2.12</b>	<b>1.40</b>	<b>0.98</b>	<b>23.60</b>	<b>CMS</b>
<b>Max</b>	<b>3.74</b>	<b>3.52</b>	<b>0.80</b>	<b>51.63</b>	<b>229.29</b>	<b>390.55</b>	<b>102.98</b>	<b>85.30</b>	<b>10.85</b>	<b>3.52</b>	<b>2.58</b>	<b>1.86</b>	<b>390.55</b>	<b>CMS</b>
<b>Min</b>	<b>0.30</b>	<b>0.44</b>	<b>0.62</b>	<b>0.28</b>	<b>4.54</b>	<b>61.02</b>	<b>39.48</b>	<b>11.01</b>	<b>3.74</b>	<b>1.49</b>	<b>1.14</b>	<b>0.80</b>	<b>0.28</b>	<b>CMS</b>
<b>Runoff</b>	<b>1.83</b>	<b>2.41</b>	<b>1.82</b>	<b>47.82</b>	<b>106.47</b>	<b>301.44</b>	<b>167.94</b>	<b>84.04</b>	<b>18.78</b>	<b>5.67</b>	<b>3.37</b>	<b>2.63</b>	<b>744.23</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>434.05 CMS. at 89.77 m. (MSL.) at 09.00 Hours , on Sep 27, 2021</b>													
<b>Runoff Yield</b>	<b>24.23 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 445.64 Liters/Second/Square KM.</b>										

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Ngat at Ban Sahakorn Romklao , Chiang Mai (P.56A)

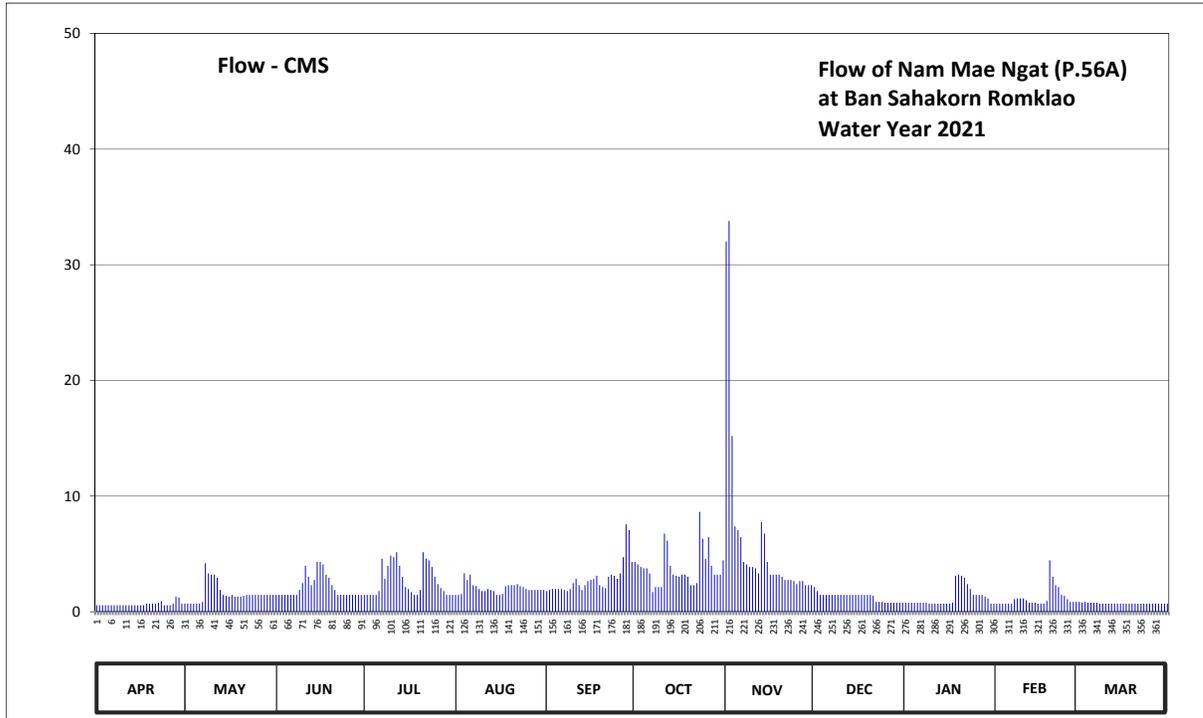
Lat 19 - 17 - 00 N Long 99 - 11 - 12 E

Location : on left bank at the bridge near land Cooperative Office.

	<b>Ban</b>	Sahakorn Romklao	<b>Amphoe</b>	Phrao	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	546	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+408.300 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.				<b>Elevation</b>	+416.250 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1998 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	408.78	408.80	408.90	408.90	408.90	408.94	409.20	410.56	408.98	408.81	408.80	408.82	
2	408.78	408.80	408.90	408.90	408.90	408.95	409.18	410.63	408.94	408.81	408.80	408.81	
3	408.78	408.80	408.90	408.90	408.91	408.96	409.16	409.83	408.90	408.81	408.80	408.82	
4	408.78	408.80	408.90	408.90	409.11	408.96	409.15	409.41	408.90	408.81	408.80	408.81	
5	408.78	408.80	408.90	408.90	409.05	408.96	409.15	409.39	408.90	408.81	408.80	408.81	
6	408.78	408.80	408.90	408.94	409.10	408.96	409.11	409.35	408.90	408.81	408.80	408.81	
7	408.78	408.82	408.90	409.22	409.00	408.95	408.93	409.20	408.90	408.81	408.85	408.81	
8	408.78	409.19	408.90	409.06	408.99	408.94	408.98	409.18	408.90	408.81	408.86	408.80	
9	408.78	409.11	408.95	409.17	408.96	408.96	408.98	409.16	408.90	408.80	408.86	408.80	
10	408.78	409.10	409.02	409.24	408.94	409.02	408.98	409.16	408.90	408.80	408.86	408.80	
11	408.78	409.10	409.17	409.23	408.94	409.06	409.37	409.15	408.90	408.80	408.84	408.80	
12	408.78	409.07	409.08	409.26	408.96	409.00	409.33	409.11	408.90	408.80	408.81	408.80	
13	408.78	408.95	409.00	409.17	408.95	408.95	409.17	409.43	408.90	408.80	408.81	408.80	
14	408.78	408.90	409.05	409.08	408.94	409.00	409.10	409.37	408.90	408.80	408.81	408.80	
15	408.78	408.89	409.20	408.98	408.90	409.04	409.09	409.20	408.90	408.80	408.80	408.80	
16	408.78	408.88	409.20	408.96	408.90	409.05	409.08	409.10	408.90	408.80	408.80	408.80	
17	408.78	408.90	409.18	408.93	408.91	409.06	409.10	409.10	408.90	408.81	408.80	408.80	
18	408.80	408.88	409.10	408.90	408.99	409.09	409.10	409.10	408.90	409.09	408.83	408.80	
19	408.80	408.88	409.07	408.90	409.00	409.00	409.08	409.10	408.90	409.10	409.21	408.80	
20	408.80	408.88	409.00	408.95	409.00	408.98	409.00	409.08	408.90	409.09	409.08	408.80	
21	408.80	408.89	408.95	409.26	409.00	408.97	409.00	409.05	408.89	409.07	409.00	408.80	
22	408.81	408.90	408.90	409.22	409.01	409.08	409.02	409.05	408.82	409.01	408.98	408.80	
23	408.83	408.90	408.90	409.21	408.99	409.10	409.48	409.05	408.82	408.96	408.90	408.80	
24	408.78	408.90	408.90	409.16	408.98	409.09	409.34	409.04	408.82	408.90	408.89	408.80	
25	408.78	408.90	408.90	409.08	408.96	409.06	409.22	409.01	408.81	408.90	408.85	408.80	
26	408.78	408.90	408.90	409.01	408.95	409.11	409.35	409.04	408.81	408.90	408.82	408.80	
27	408.80	408.90	408.90	408.97	408.95	409.23	409.17	409.04	408.81	408.90	408.82	408.80	
28	408.88	408.90	408.90	408.94	408.95	409.42	409.10	409.00	408.81	408.88	408.82	408.80	
29	408.87	408.90	408.90	408.90	408.95	409.39	409.10	409.00	408.81	408.86		408.80	
30	408.80	408.90	408.90	408.90	408.95	409.20	409.10	409.00	408.81	408.80		408.80	
31		408.90		408.90	408.95		409.21		408.81	408.80		408.80	
Mean	408.79	408.91	408.98	409.03	408.97	409.05	409.14	409.26	408.88	408.87	408.86	408.80	
Max	408.88	409.19	409.20	409.26	409.11	409.42	409.48	410.63	408.98	409.10	409.21	408.82	410.63
Min	408.78	408.80	408.90	408.90	408.90	408.84	408.93	409.00	408.81	408.80	408.80	408.80	408.78
Annual Max Momentary Gage Height	411.20		m. (MSL.) ,				at 23.00 Hours ,						
Zero Gage at Bottom Elevation	408.30		m. (MSL.) ,			River Bed	408.66		m. (MSL.)				
Left Bank Elevation	415.80		m. (MSL.) ,										
Right Bank Elevation	415.86		m. (MSL.) ,			Drainage Are	546		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.70	1.45	1.45	1.45	1.79	4.30	32.00	2.13	0.78	0.70	0.85	
2	0.56	0.70	1.45	1.45	1.45	1.88	4.08	33.78	1.79	0.78	0.70	0.78	
3	0.56	0.70	1.45	1.45	1.54	1.96	3.86	15.20	1.45	0.78	0.70	0.85	
4	0.56	0.70	1.45	1.45	3.31	1.96	3.75	7.38	1.45	0.78	0.70	0.78	
5	0.56	0.70	1.45	1.45	2.75	1.96	3.75	7.05	1.45	0.78	0.70	0.78	
6	0.56	0.70	1.45	1.79	3.20	1.96	3.31	6.45	1.45	0.78	0.70	0.78	
7	0.56	0.85	1.45	4.58	2.30	1.88	1.71	4.30	1.45	0.78	1.08	0.78	
8	0.56	4.19	1.45	2.84	2.22	1.79	2.13	4.08	1.45	0.78	1.15	0.70	
9	0.56	3.31	1.88	3.97	1.96	1.96	2.13	3.86	1.45	0.70	1.15	0.70	
10	0.56	3.20	2.48	4.86	1.79	2.48	2.13	3.86	1.45	0.70	1.15	0.70	
11	0.56	3.20	3.97	4.72	1.79	2.84	6.75	3.75	1.45	0.70	1.00	0.70	
12	0.56	2.93	3.02	5.14	1.96	2.30	6.15	3.31	1.45	0.70	0.78	0.70	
13	0.56	1.88	2.30	3.97	1.88	1.88	3.97	7.74	1.45	0.70	0.78	0.70	
14	0.56	1.45	2.75	3.02	1.79	2.30	3.20	6.75	1.45	0.70	0.78	0.70	
15	0.56	1.38	4.30	2.13	1.45	2.66	3.11	4.30	1.45	0.70	0.70	0.70	
16	0.56	1.30	4.30	1.96	1.45	2.75	3.02	3.20	1.45	0.70	0.70	0.70	
17	0.56	1.45	4.08	1.71	1.54	2.84	3.20	3.20	1.45	0.78	0.70	0.70	
18	0.70	1.30	3.20	1.45	2.22	3.11	3.20	3.20	1.45	3.11	0.93	0.70	
19	0.70	1.30	2.93	1.45	2.30	2.30	3.02	3.20	1.45	3.20	4.44	0.70	
20	0.70	1.30	2.30	1.88	2.30	2.13	2.30	3.02	1.45	3.11	3.02	0.70	
21	0.70	1.38	1.88	5.14	2.30	2.05	2.30	2.75	1.38	2.93	2.30	0.70	
22	0.78	1.45	1.45	4.58	2.39	3.02	2.48	2.75	0.85	2.39	2.13	0.70	
23	0.93	1.45	1.45	4.44	2.22	3.20	8.64	2.75	0.85	1.96	1.45	0.70	
24	0.56	1.45	1.45	3.86	2.13	3.11	6.30	2.66	0.85	1.45	1.38	0.70	
25	0.56	1.45	1.45	3.02	1.96	2.84	4.58	2.39	0.78	1.45	1.08	0.70	
26	0.56	1.45	1.45	2.39	1.88	3.31	6.45	2.66	0.78	1.45	0.85	0.70	
27	0.70	1.45	1.45	2.05	1.88	4.72	3.97	2.66	0.78	1.45	0.85	0.70	
28	1.30	1.45	1.45	1.79	1.88	7.56	3.20	2.30	0.78	1.30	0.85	0.70	
29	1.23	1.45	1.45	1.45	1.88	7.05	3.20	2.30	0.78	1.15		0.70	
30	0.70	1.45	1.45	1.45	1.88	4.30	3.20	2.30	0.78	0.70		0.70	
31		1.45		1.45	1.88		4.44		0.78	0.70		0.70	
Total	19.64	49.12	64.04	84.34	62.93	85.89	117.83	185.15	39.41	38.97	33.45	22.40	803.17 CMSDAY
Mean	0.65	1.58	2.13	2.72	2.03	2.86	3.80	6.17	1.27	1.26	1.19	0.72	2.20 CMS
Max	1.30	4.19	4.30	5.14	3.31	7.56	8.64	33.78	2.13	3.20	4.44	0.85	33.78 CMS
Min	0.56	0.70	1.45	1.45	1.45	1.79	1.71	2.30	0.78	0.70	0.70	0.70	0.56 CMS
Runoff	1.70	4.24	5.53	7.29	5.44	7.42	10.18	16.00	3.41	3.37	2.89	1.94	69.39 MCM
Momentary Peak	49.00 CMS. at 411.20 m. (MSL.) at 23.00 Hours , on Nov 1, 2021												
Runoff Yield	4.03 Liters/Second/Square KM.			Momentary Peak Yield			89.74 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Mae Tae , Chiang Mai (P.67)

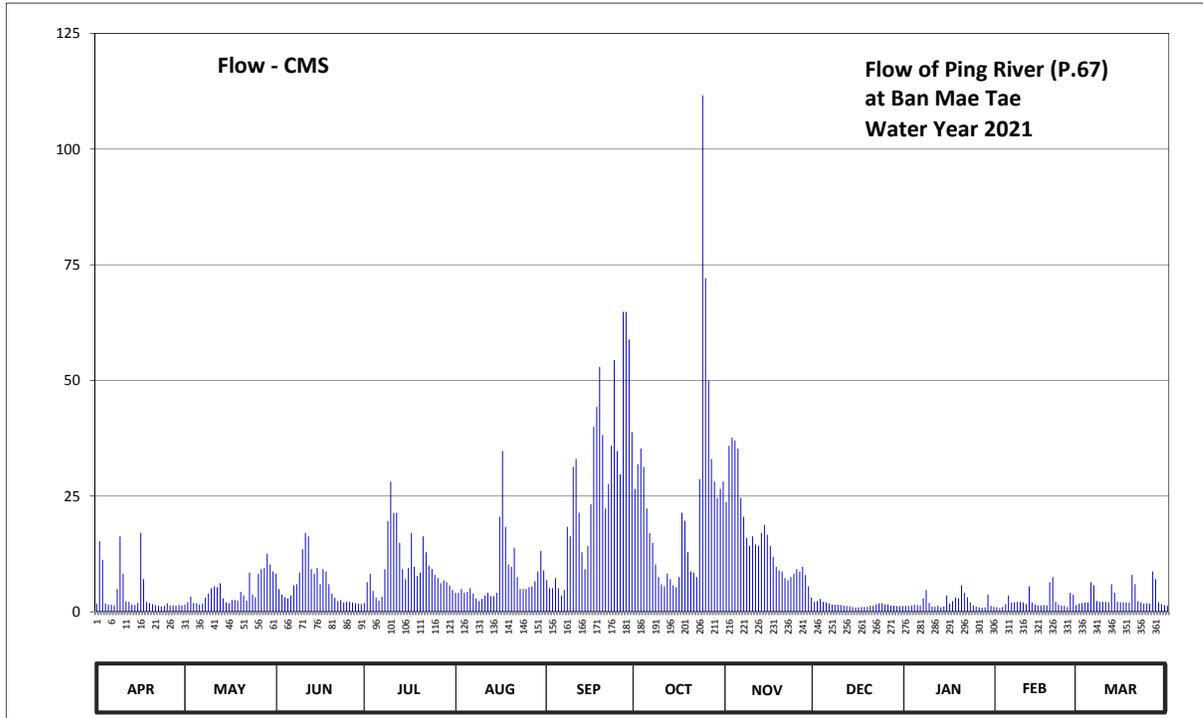
Lat 19 - 01 - 31 N Long 98 - 57 - 36 E

Location : on left bank at the bridge on highway.

	<b>Ban Mae Tae</b>	<b>Amphoe San Sai</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	5,129 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+315.926 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the top staff gage.	<b>Elevation</b>	+323.690 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1995 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1995 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1995 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Mae Faek and Mae Taeng weir situated above gage site. Flow effected by the sand-dredger about 10 kilometers downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	314.73	314.70	315.12	314.75	314.93	315.06	315.61	315.55	314.78	314.66	314.61	314.73	
2	315.35	314.77	314.97	315.04	314.93	314.98	315.71	315.78	314.80	314.66	314.57	314.75	
3	315.23	314.88	314.91	315.12	314.97	314.98	315.77	315.81	314.84	314.68	314.62	314.76	
4	314.74	314.75	314.87	314.95	314.93	315.08	315.70	315.80	314.78	314.70	314.72	314.76	
5	314.70	314.74	314.85	314.86	314.94	314.98	315.52	315.77	314.76	314.69	314.90	315.04	
6	314.70	314.71	314.90	314.81	314.98	314.90	315.40	315.57	314.74	314.67	314.76	315.01	
7	314.68	314.73	315.01	314.88	314.92	314.96	315.34	315.48	314.71	314.85	314.77	314.80	
8	314.97	314.86	315.02	315.16	314.85	315.43	315.20	315.37	314.70	314.96	314.78	314.78	
9	315.38	314.92	315.13	315.46	314.80	315.38	315.09	315.32	314.70	314.75	314.78	314.78	
10	315.12	314.98	315.30	315.64	314.84	315.70	315.02	315.38	314.69	314.64	314.76	314.78	
11	314.79	315.00	315.40	315.50	314.90	315.73	315.00	315.33	314.67	314.63	314.72	314.76	
12	314.78	314.99	315.38	315.50	314.93	315.50	315.12	315.32	314.66	314.66	315.00	315.02	
13	314.71	315.03	315.16	315.34	314.89	315.28	315.07	315.40	314.65	314.61	314.76	314.93	
14	314.69	314.85	315.12	315.16	314.89	315.16	315.01	315.44	314.62	314.64	314.71	314.78	
15	314.75	314.76	315.17	315.07	314.93	315.32	314.99	315.39	314.60	314.90	314.68	314.77	
16	315.40	314.74	315.02	315.17	315.48	315.54	315.09	315.32	314.61	314.73	314.68	314.76	
17	315.07	314.82	315.16	315.40	315.76	315.85	315.50	315.25	314.62	314.80	314.69	314.76	
18	314.78	314.82	315.14	315.18	315.43	315.92	315.46	315.18	314.62	314.86	314.68	314.76	
19	314.75	314.81	315.02	315.10	315.20	316.05	315.28	315.15	314.63	314.85	315.04	315.11	
20	314.72	314.94	314.92	315.13	315.18	315.82	315.14	315.14	314.66	315.01	315.09	315.02	
21	314.69	314.90	314.86	315.38	315.31	315.52	315.13	315.08	314.66	314.93	314.78	314.80	
22	314.67	314.81	314.80	315.28	315.09	315.63	315.09	315.06	314.71	314.87	314.70	314.77	
23	314.64	315.13	314.82	315.19	314.97	315.78	315.65	315.09	314.74	314.76	314.67	314.73	
24	314.66	314.91	314.76	315.16	314.97	316.07	316.72	315.12	314.74	314.68	314.66	314.74	
25	314.74	314.87	314.78	315.11	314.97	315.76	316.30	315.16	314.71	314.64	314.62	314.73	
26	314.68	315.12	314.78	315.08	314.99	315.67	316.01	315.14	314.71	314.61	314.93	315.14	
27	314.68	315.16	314.76	315.03	315.00	316.21	315.73	315.18	314.67	314.59	314.91	315.07	
28	314.67	315.17	314.74	315.06	315.05	316.21	315.64	315.11	314.67	314.61	314.69	314.77	
29	314.69	315.27	314.73	315.04	315.14	316.13	315.57	315.00	314.65	314.91		314.72	
30	314.68	315.20	314.72	315.01	315.29	315.83	315.61	314.86	314.65	314.66		314.69	
31		315.14		314.96	315.15		315.64		314.66	314.63		314.66	
Mean	314.83	314.92	314.98	315.15	315.05	315.55	315.46	315.32	314.69	314.74	314.76	314.83	
Max	315.40	315.27	315.40	315.64	315.76	316.21	316.72	315.81	314.84	315.01	315.09	315.14	316.72
Min	314.64	314.70	314.72	314.75	314.80	314.90	314.99	314.86	314.60	314.59	314.57	314.66	314.57
Annual Max Momentary Gage Height	316.86		m. (MSL.) ,			at 06.00 Hours ,	on Oct 24, 2021						
Zero Gage at Bottom Elevation	315.93		m. (MSL.) ,			River Bed	313.26	m. (MSL.)					
Left Bank Elevation		326.35		m. (MSL.) ,									
Right Bank Elevation		326.25		m. (MSL.) ,		Drainage Are	5,129	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.74	1.50	8.20	1.90	4.10	6.82	26.53	23.70	2.14	1.26	0.96	1.74	
2	15.25	2.06	4.90	6.38	4.10	5.10	31.87	35.86	2.30	1.26	0.75	1.90	
3	11.19	3.26	3.70	8.20	4.90	5.10	35.29	37.60	2.78	1.38	1.02	1.98	
4	1.82	1.90	3.14	4.50	4.10	7.26	31.30	37.00	2.14	1.50	1.66	1.98	
5	1.50	1.82	2.90	3.02	4.30	5.10	22.32	35.29	1.98	1.44	3.50	6.38	
6	1.50	1.58	3.50	2.42	5.10	3.50	17.00	24.62	1.82	1.32	1.98	5.72	
7	1.38	1.74	5.72	3.26	3.90	4.70	14.90	20.52	1.58	2.90	2.06	2.30	
8	4.90	3.02	5.94	9.20	2.90	18.32	10.20	15.95	1.50	4.70	2.14	2.14	
9	16.30	3.90	8.45	19.64	2.30	16.30	7.48	14.20	1.50	1.90	2.14	2.14	
10	8.20	5.10	13.50	28.12	2.78	31.30	5.94	16.30	1.44	1.14	1.98	2.14	
11	2.22	5.50	17.00	21.40	3.50	33.01	5.50	14.55	1.32	1.08	1.66	1.98	
12	2.14	5.30	16.30	21.40	4.10	21.40	8.20	14.20	1.26	1.26	5.50	5.94	
13	1.58	6.16	9.20	14.90	3.38	12.84	7.04	17.00	1.20	0.96	1.98	4.10	
14	1.44	2.90	8.20	9.20	3.38	9.20	5.72	18.76	1.02	1.14	1.58	2.14	
15	1.90	1.98	9.45	7.04	4.10	14.20	5.30	16.65	0.90	3.50	1.38	2.06	
16	17.00	1.82	5.94	9.45	20.52	23.24	7.48	14.20	0.96	1.74	1.38	1.98	
17	7.04	2.54	9.20	17.00	34.72	40.00	21.40	11.85	1.02	2.30	1.44	1.98	
18	2.14	2.54	8.70	9.70	18.32	44.24	19.64	9.70	1.02	3.02	1.38	1.98	
19	1.90	2.42	5.94	7.70	10.20	52.90	12.84	8.95	1.08	2.90	6.38	7.95	
20	1.66	4.30	3.90	8.45	9.70	38.20	8.70	8.70	1.26	5.72	7.48	5.94	
21	1.44	3.50	3.02	16.30	13.85	22.32	8.45	7.26	1.26	4.10	2.14	2.30	
22	1.32	2.42	2.30	12.84	7.48	27.59	7.48	6.82	1.58	3.14	1.50	2.06	
23	1.14	8.45	2.54	9.95	4.90	35.86	28.65	7.48	1.82	1.98	1.32	1.74	
24	1.26	3.70	1.98	9.20	4.90	54.38	111.60	8.20	1.82	1.38	1.26	1.82	
25	1.82	3.14	2.14	7.95	4.90	34.72	72.10	9.20	1.58	1.14	1.02	1.74	
26	1.38	8.20	2.14	7.26	5.30	29.71	49.94	8.70	1.58	0.96	4.10	8.70	
27	1.38	9.20	1.98	6.16	5.50	64.81	33.01	9.70	1.32	0.85	3.70	7.04	
28	1.32	9.45	1.82	6.82	6.60	64.81	28.12	7.95	1.32	0.96	1.44	2.06	
29	1.44	12.51	1.74	6.38	8.70	58.82	24.62	5.50	1.20	3.70		1.66	
30	1.38	10.20	1.66	5.72	13.17	38.80	26.53	3.02	1.20	1.26		1.44	
31		8.70		4.70	8.95		28.12		1.26	1.08		1.26	
<b>Total</b>	116.68	140.81	175.10	306.16	234.65	824.55	723.27	469.43	46.16	62.97	64.83	96.29	3260.90 CMSDAY
<b>Mean</b>	3.89	4.54	5.84	9.88	7.57	27.49	23.33	15.65	1.49	2.03	2.32	3.11	8.93 CMS
<b>Max</b>	17.00	12.51	17.00	28.12	34.72	64.81	111.60	37.60	2.78	5.72	7.48	8.70	111.60 CMS
<b>Min</b>	1.14	1.50	1.66	1.90	2.30	3.50	5.30	3.02	0.90	0.85	0.75	1.26	0.75 CMS
<b>Runoff</b>	10.08	12.17	15.13	26.45	20.27	71.24	62.49	40.56	3.99	5.44	5.60	8.32	281.74 MCM
<b>Momentary Peak</b>		126.90 CMS.		at 316.86 m. (MSL.)		at 06.00 Hours		, on Oct 24, 2021					
<b>Runoff Yield</b>		1.74		Liters/Second/Square KM.		Momentary Peak Yield	24.74			Liters/Second/Square KM.			

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Khan at Ban Klang , Chiang Mai (P.71A)

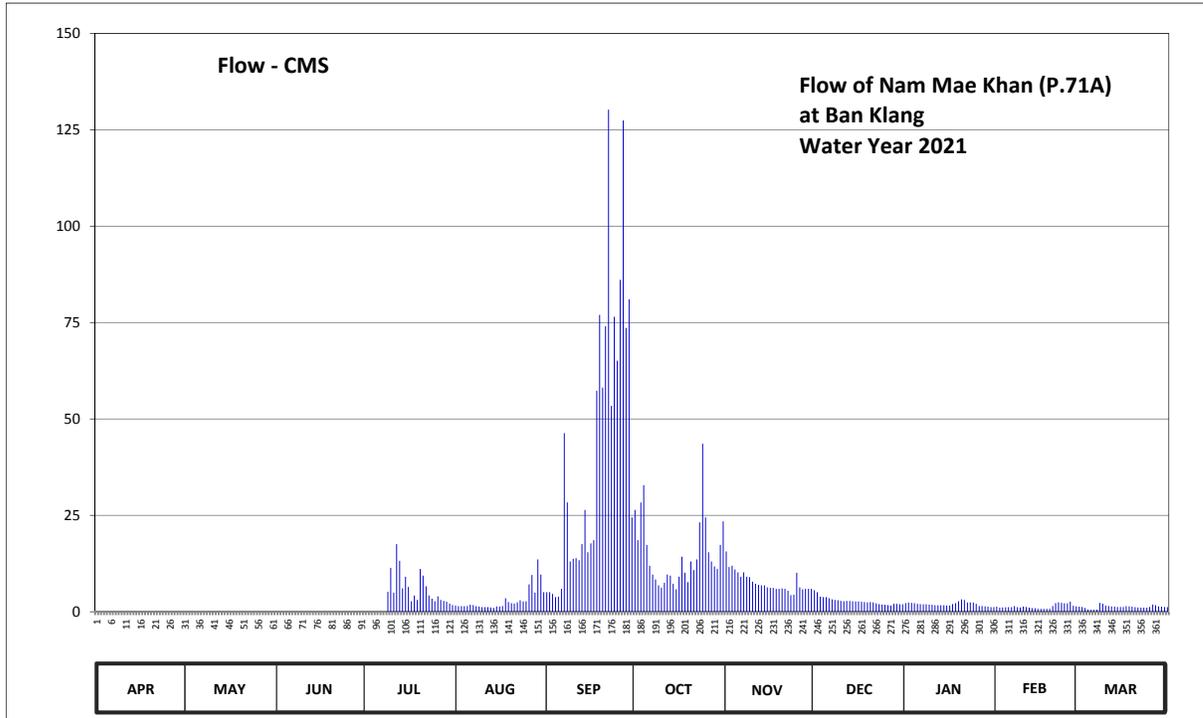
Lat 18 - 32 - 50 N Long 98 - 51 - 44 E

Location : on left bank at the bridge on highway.

	<b>Ban Klang</b>	<b>Amphoe</b> San Pa Tong	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	1,758 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+283.285 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 3 meters from the top staff gage.	<b>Elevation</b>	+287.570 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records fair. The concrete weir made by R.I.D. about 3 kilometers and the temporary weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.54	284.50	284.04	284.04	284.32	284.74	285.88	285.43	284.78	284.42	284.26	284.26	
2	284.54	284.55	284.04	284.04	284.29	284.74	285.57	285.21	284.74	284.44	284.21	284.25	
3	284.54	284.54	284.04	284.02	284.29	284.70	285.95	285.23	284.63	284.43	284.22	284.20	
4	284.52	284.54	284.04	283.99	284.29	284.62	286.10	285.17	284.62	284.42	284.23	284.08	
5	284.49	284.54	284.04	284.00	284.30	284.63	285.51	285.12	284.62	284.39	284.24	284.06	
6	284.52	284.54	284.02	284.19	284.35	284.81	285.23	285.04	284.59	284.38	284.24	284.06	
7	284.65	284.54	283.99	284.17	284.34	286.51	285.08	285.12	284.55	284.37	284.29	284.08	
8	284.59	284.54	283.99	284.20	284.29	285.95	284.99	285.04	284.53	284.37	284.24	284.43	
9	284.35	284.54	283.98	284.75	284.27	285.29	284.88	285.03	284.52	284.36	284.22	284.39	
10	284.35	284.54	283.97	285.20	284.24	285.33	284.83	284.95	284.50	284.35	284.27	284.32	
11	284.36	284.50	283.97	284.73	284.24	285.34	284.93	284.91	284.49	284.33	284.25	284.30	
12	284.29	284.39	283.97	285.52	284.24	285.31	285.08	284.89	284.50	284.33	284.21	284.27	
13	284.29	284.39	283.97	285.30	284.22	285.52	285.06	284.88	284.50	284.33	284.19	284.26	
14	284.29	284.39	283.97	284.82	284.20	285.88	284.91	284.88	284.49	284.33	284.18	284.25	
15	284.29	284.39	284.12	285.04	284.28	285.42	284.80	284.84	284.48	284.32	284.13	284.25	
16	284.29	284.34	284.09	284.85	284.27	285.53	285.04	284.83	284.48	284.32	284.13	284.25	
17	284.29	284.19	284.25	284.49	284.30	285.57	285.36	284.83	284.47	284.38	284.14	284.29	
18	284.29	284.19	284.22	284.66	284.59	286.80	285.11	284.81	284.46	284.42	284.14	284.28	
19	284.29	284.16	284.21	284.53	284.46	287.25	284.94	284.81	284.45	284.49	284.15	284.26	
20	284.29	284.09	284.28	285.18	284.42	286.82	285.29	284.82	284.46	284.55	284.30	284.24	
21	284.29	284.09	284.23	285.06	284.40	287.19	285.16	284.81	284.45	284.53	284.42	284.22	
22	284.29	284.09	284.14	284.86	284.45	288.16	285.32	284.77	284.41	284.44	284.45	284.21	
23	284.29	284.09	284.13	284.66	284.52	286.70	285.76	284.67	284.38	284.45	284.43	284.21	
24	284.31	284.09	284.14	284.57	284.48	287.24	286.43	284.68	284.36	284.44	284.41	284.21	
25	284.43	284.09	284.12	284.49	284.49	286.99	285.81	285.11	284.35	284.39	284.41	284.25	
26	284.60	284.09	284.09	284.64	284.90	287.43	285.42	284.84	284.34	284.30	284.47	284.36	
27	284.60	284.09	284.09	284.53	285.07	288.12	285.29	284.80	284.32	284.30	284.31	284.33	
28	284.57	284.07	284.07	284.50	284.73	287.18	285.22	284.81	284.39	284.28	284.28	284.28	
29	284.61	284.04	284.04	284.47	285.32	287.33	285.18	284.81	284.39	284.26	284.26	284.26	
30	284.52	284.04	284.04	284.40	285.08	285.81	285.51	284.81	284.37	284.24	284.24	284.25	
31		284.04		284.34	284.74		285.77		284.37	284.24		284.24	
Mean	284.42	284.30	284.08	284.59	284.46	286.10	285.34	284.93	284.48	284.37	284.27	284.25	
Max	284.65	284.55	284.28	285.52	285.32	288.16	286.43	285.43	284.78	284.55	284.47	284.43	288.16
Min	284.29	284.04	283.97	283.99	284.20	284.62	284.80	284.67	284.32	284.24	284.13	284.06	283.97
Annual Max Momentary Gage Height	288.45		m. (MSL.) ,			at 15.00 Hours ,	on Sep 29, 2021						
Zero Gage at Bottom Elevation	283.29		m. (MSL.) ,			River Bed	282.44	m. (MSL.)					
Left Bank Elevation		290.15		m. (MSL.) ,									
Right Bank Elevation		290.12		m. (MSL.) ,		Drainage Are	1,758	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	1.62	5.08	26.40	15.63	5.56	2.24	1.30	1.30	
2	0.00	0.00	0.00	0.00	1.45	5.08	18.57	11.58	5.08	2.38	1.05	1.25	
3	0.00	0.00	0.00	0.00	1.45	4.60	28.33	11.94	3.90	2.31	1.10	1.00	
4	0.00	0.00	0.00	0.00	1.45	3.80	32.85	10.97	3.80	2.24	1.15	0.54	
5	0.00	0.00	0.00	0.00	1.50	3.90	17.31	10.24	3.80	2.04	1.20	0.48	
6	0.00	0.00	0.00	0.00	1.80	5.93	11.94	9.08	3.52	1.98	1.20	0.48	
7	0.00	0.00	0.00	0.00	1.74	46.35	9.66	10.24	3.20	1.92	1.45	0.54	
8	0.00	0.00	0.00	0.00	1.45	28.33	8.36	9.08	3.04	1.92	1.20	2.31	
9	0.00	0.00	0.00	5.20	1.35	13.02	6.84	8.94	2.96	1.86	1.10	2.04	
10	0.00	0.00	0.00	11.40	1.20	13.74	6.19	7.80	2.80	1.80	1.35	1.62	
11	0.00	0.00	0.00	4.96	1.20	13.92	7.52	7.24	2.73	1.68	1.25	1.50	
12	0.00	0.00	0.00	17.52	1.20	13.38	9.66	6.97	2.80	1.68	1.05	1.35	
13	0.00	0.00	0.00	13.20	1.10	17.52	9.37	6.84	2.80	1.68	0.96	1.30	
14	0.00	0.00	0.00	6.06	1.00	26.40	7.24	6.84	2.73	1.68	0.92	1.25	
15	0.00	0.00	0.00	9.08	1.40	15.42	5.80	6.32	2.66	1.62	0.72	1.25	
16	0.00	0.00	0.00	6.45	1.35	17.73	9.08	6.19	2.66	1.62	0.72	1.25	
17	0.00	0.00	0.00	2.73	1.50	18.57	14.28	6.19	2.59	1.98	0.76	1.45	
18	0.00	0.00	0.00	4.20	3.52	57.30	10.10	5.93	2.52	2.24	0.76	1.40	
19	0.00	0.00	0.00	3.04	2.52	77.00	7.66	5.93	2.45	2.73	0.80	1.30	
20	0.00	0.00	0.00	11.11	2.24	58.12	13.02	6.06	2.52	3.20	1.50	1.20	
21	0.00	0.00	0.00	9.37	2.10	74.05	10.82	5.93	2.45	3.04	2.24	1.10	
22	0.00	0.00	0.00	6.58	2.45	130.20	13.56	5.44	2.17	2.38	2.45	1.05	
23	0.00	0.00	0.00	4.20	2.96	53.40	23.20	4.30	1.98	2.45	2.31	1.05	
24	0.00	0.00	0.00	3.36	2.66	76.50	43.55	4.40	1.86	2.38	2.17	1.05	
25	0.00	0.00	0.00	2.73	2.73	65.09	24.48	10.10	1.80	2.04	2.17	1.25	
26	0.00	0.00	0.00	4.00	7.10	86.08	15.42	6.32	1.74	1.50	2.59	1.86	
27	0.00	0.00	0.00	3.04	9.52	127.40	13.02	5.80	1.62	1.50	1.56	1.68	
28	0.00	0.00	0.00	2.80	4.96	73.60	11.76	5.93	2.04	1.40	1.40	1.40	
29	0.00	0.00	0.00	2.59	13.56	81.00	11.11	5.93	2.04	1.30		1.30	
30	0.00	0.00	0.00	2.10	9.66	24.48	17.31	5.93	1.92	1.20		1.25	
31	0.00	0.00	0.00	1.74	5.08		23.45		1.92	1.20		1.20	
<b>Total</b>	0.00	0.00	0.00	137.46	94.82	1236.99	467.86	230.09	85.66	61.19	38.43	39.00	2391.50 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	4.43	3.06	41.23	15.09	7.67	2.76	1.97	1.37	1.26	6.55 CMS
<b>Max</b>	0.00	0.00	0.00	17.52	13.56	130.20	43.55	15.63	5.56	3.20	2.59	2.31	130.20 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	1.00	3.80	5.80	4.30	1.62	1.20	0.48	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	11.88	8.19	106.88	40.42	19.88	7.40	5.29	3.32	3.37	206.63 MCM
<b>Momentary Peak</b>	151.25	CMS. at 288.45 m. (MSL.) at 15.00 Hours , on Sep 29, 2021											
<b>Runoff Yield</b>	3.73	Liters/Second/Square KM. Momentary Peak Yield 86.04 Liters/Second/Square KM.											

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Sop Soi , Chiang Mai (P.73)

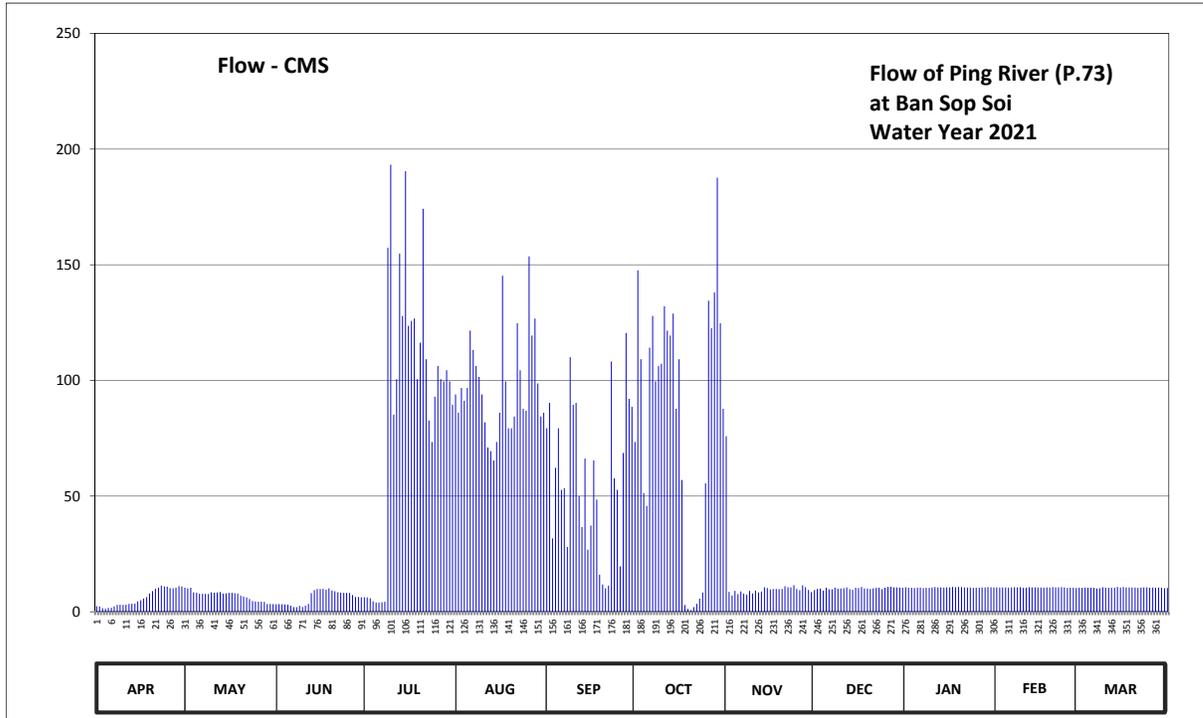
Lat 18 - 17 - 57 N Long 98 - 38 - 45 E

Location : on left bank at Sop Soi Phatana Bridge.

	<b>Ban Sop Soi</b>	<b>Amphoe Chom Thong</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	14,718 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+261.750 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 15 meters from the abutment of the bridge.	<b>Elevation</b>	+267.505 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1998 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	263.35	265.07	263.56	264.25	264.62	264.45	264.38	264.41	264.87	265.12	265.11	265.07	
2	263.31	265.02	263.57	264.24	264.53	264.58	265.13	264.72	264.97	265.08	265.09	265.06	
3	263.12	265.08	263.55	264.17	264.65	263.81	264.78	264.40	265.01	265.07	265.11	265.09	
4	263.08	264.68	263.54	263.89	264.59	264.24	264.09	264.80	264.83	265.05	265.10	265.08	
5	263.16	264.65	263.51	263.75	264.65	264.45	264.01	264.52	265.08	265.09	265.08	265.07	
6	263.18	264.55	263.40	263.74	264.90	264.11	264.83	264.76	264.94	265.09	265.11	265.07	
7	263.34	264.55	263.25	263.78	264.82	264.12	264.96	264.57	264.94	265.05	265.12	265.01	
8	263.49	264.54	263.25	263.84	264.75	263.75	264.68	264.47	265.07	265.07	265.10	265.04	
9	263.50	264.52	263.38	265.21	264.70	264.79	264.75	264.80	264.99	265.06	265.12	265.12	
10	263.48	264.68	263.27	265.48	264.62	264.57	264.76	264.58	265.01	265.09	265.06	265.09	
11	263.50	264.65	263.41	264.52	264.48	264.58	265.00	264.83	265.04	265.13	265.08	265.06	
12	263.59	264.66	263.59	264.69	264.35	264.07	264.90	264.66	265.11	265.11	265.12	265.07	
13	263.61	264.70	264.61	265.19	264.33	263.88	264.88	264.74	264.95	265.10	265.11	265.08	
14	263.63	264.56	264.87	264.96	264.28	264.29	264.97	265.12	264.90	265.08	265.10	265.14	
15	263.87	264.60	264.96	265.46	264.38	263.73	264.55	265.05	265.08	265.11	265.09	265.09	
16	263.99	264.64	264.96	264.92	264.53	263.89	264.78	264.92	265.05	265.10	265.09	265.13	
17	264.14	264.63	264.98	264.94	265.11	264.28	264.17	264.96	265.15	265.14	265.09	265.11	
18	264.26	264.60	264.90	264.95	264.68	264.05	262.69	264.96	265.01	265.12	265.10	265.11	
19	264.56	264.56	265.02	264.69	264.45	263.50	262.52	264.95	265.01	265.15	265.09	265.09	
20	264.79	264.38	264.84	264.85	264.45	263.35	262.47	264.97	264.97	265.13	265.13	265.09	
21	264.99	264.30	264.78	265.34	264.51	263.28	262.60	265.20	265.02	265.10	265.11	265.06	
22	265.09	264.23	264.69	264.78	264.93	263.33	262.74	265.12	265.06	265.09	265.11	265.09	
23	265.25	264.10	264.65	264.49	264.73	264.77	262.96	265.10	265.08	265.09	265.13	265.11	
24	265.18	263.90	264.64	264.38	264.55	264.18	263.19	265.30	264.95	265.06	265.11	265.10	
25	265.17	263.85	264.63	264.61	264.54	264.11	264.15	264.97	265.08	265.07	265.06	265.08	
26	265.04	263.84	264.62	264.75	265.18	263.59	265.02	264.85	265.15	265.07	265.07	265.09	
27	265.02	263.84	264.44	264.69	264.88	264.32	264.91	265.28	265.16	265.10	265.07	265.08	
28	265.08	263.81	264.28	264.68	264.95	264.89	265.05	265.12	265.11	265.11	265.05	265.09	
29	265.21	263.58	264.28	264.73	264.67	264.60	265.44	264.88	265.11	265.13	265.07	265.07	
30	265.18	263.59	264.25	264.68	264.51	264.56	264.93	264.69	265.09	265.12	265.09	265.03	
31		263.57		264.57	264.53		264.55		265.07	265.11		265.05	
Mean	264.14	264.38	264.19	264.62	264.64	264.14	264.29	264.86	265.03	265.10	265.10	265.08	
Max	265.25	265.08	265.02	265.48	265.18	264.89	265.44	265.30	265.16	265.15	265.13	265.14	265.48
Min	263.08	263.57	263.25	263.74	264.28	263.28	262.47	264.40	264.83	265.05	265.05	265.01	262.47
Annual Max Momentary Gage Height	266.16		m. (MSL.) ,				at 03.00 Hours ,						on Jul 10, 2021
Zero Gage at Bottom Elevation	261.75		m. (MSL.) ,			River Bed	256.10		m. (MSL.)				
Left Bank Elevation	268.86		m. (MSL.) ,										
Right Bank Elevation	268.03		m. (MSL.) ,			Drainage Are	14,718		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	10.35	3.24	6.25	93.90	79.25	73.40	75.85	9.35	10.60	10.55	10.35	
2	2.24	10.10	3.28	6.20	86.05	90.30	147.60	8.60	9.85	10.40	10.45	10.30	
3	1.48	10.40	3.20	5.85	96.75	31.70	109.10	7.00	10.05	10.35	10.55	10.45	
4	1.32	8.40	3.16	4.56	91.15	62.20	51.30	9.00	9.15	10.25	10.50	10.40	
5	1.64	8.25	3.04	4.00	96.75	79.25	45.70	7.60	10.40	10.45	10.40	10.35	
6	1.72	7.75	2.60	3.96	121.50	52.70	114.15	8.80	9.70	10.45	10.55	10.35	
7	2.36	7.75	2.00	4.12	113.10	53.40	127.80	7.85	9.70	10.25	10.60	10.05	
8	2.96	7.70	2.00	4.36	106.25	28.00	99.60	7.35	10.35	10.35	10.50	10.20	
9	3.00	7.60	2.52	157.30	101.50	110.05	106.25	9.00	9.95	10.30	10.60	10.60	
10	2.92	8.40	2.08	193.20	93.90	89.45	107.20	7.90	10.05	10.45	10.30	10.45	
11	3.00	8.25	2.64	85.20	81.80	90.30	132.00	9.15	10.20	10.65	10.40	10.30	
12	3.36	8.30	3.36	100.55	71.00	49.90	121.50	8.30	10.55	10.55	10.60	10.35	
13	3.44	8.50	8.05	154.80	69.40	36.60	119.40	8.70	9.75	10.50	10.55	10.40	
14	3.52	7.80	9.35	127.80	65.40	66.20	128.85	10.60	9.50	10.40	10.50	10.70	
15	4.48	8.00	9.80	190.40	73.40	26.80	87.75	10.25	10.40	10.55	10.45	10.45	
16	4.96	8.20	9.80	123.60	86.05	37.30	109.10	9.60	10.25	10.50	10.45	10.65	
17	5.70	8.15	9.90	125.70	145.20	65.40	56.90	9.80	10.75	10.70	10.45	10.55	
18	6.30	8.00	9.50	126.75	99.60	48.50	2.90	9.80	10.05	10.60	10.50	10.55	
19	7.80	7.80	10.10	100.55	79.25	16.00	1.20	9.75	10.05	10.75	10.45	10.45	
20	8.95	6.90	9.20	116.25	79.25	11.75	0.70	9.85	9.85	10.65	10.65	10.45	
21	9.95	6.50	8.90	174.20	84.35	10.10	2.00	11.00	10.10	10.50	10.55	10.30	
22	10.45	6.15	8.45	109.10	124.65	11.25	3.40	10.60	10.30	10.45	10.55	10.45	
23	11.25	5.50	8.25	82.65	104.35	108.15	5.60	10.50	10.40	10.45	10.65	10.55	
24	10.90	4.60	8.20	73.40	87.75	57.60	8.35	11.50	9.75	10.30	10.55	10.50	
25	10.85	4.40	8.15	92.95	86.90	52.70	55.50	9.85	10.40	10.35	10.30	10.40	
26	10.20	4.36	8.10	106.25	153.60	19.60	134.40	9.25	10.75	10.35	10.35	10.45	
27	10.10	4.36	7.20	100.55	119.40	68.60	122.55	11.40	10.80	10.50	10.35	10.40	
28	10.40	4.24	6.40	99.60	126.75	120.45	138.00	10.60	10.55	10.55	10.25	10.45	
29	11.05	3.32	6.40	104.35	98.65	92.00	187.60	9.40	10.55	10.65		10.35	
30	10.90	3.36	6.25	99.60	84.35	88.60	124.65	8.45	10.45	10.60		10.15	
31		3.28		89.45	86.05		87.75		10.35	10.55		10.25	
<b>Total</b>	179.60	216.67	185.12	2773.50	3008.00	1754.10	2612.20	347.30	314.30	324.95	293.55	322.60	12331.89 CMSDAY
<b>Mean</b>	5.99	6.99	6.17	89.47	97.03	58.47	84.26	11.58	10.14	10.48	10.48	10.41	33.79 CMS
<b>Max</b>	11.25	10.40	10.10	193.20	153.60	120.45	187.60	75.85	10.80	10.75	10.65	10.70	193.20 CMS
<b>Min</b>	1.32	3.28	2.00	3.96	65.40	10.10	0.70	7.00	9.15	10.25	10.25	10.05	0.70 CMS
<b>Runoff</b>	15.52	18.72	15.99	239.63	259.89	151.55	225.69	30.01	27.16	28.08	25.36	27.87	1065.48 MCM
<b>Momentary Peak</b>	294.80 CMS. at 266.16 m. (MSL.) at 03.00 Hours , on Jul 10, 2021												
<b>Runoff Yield</b>	2.30 Liters/Second/Square KM.			Momentary Peak Yield			20.03 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Sop Pae , Chiang Mai (P.73A)

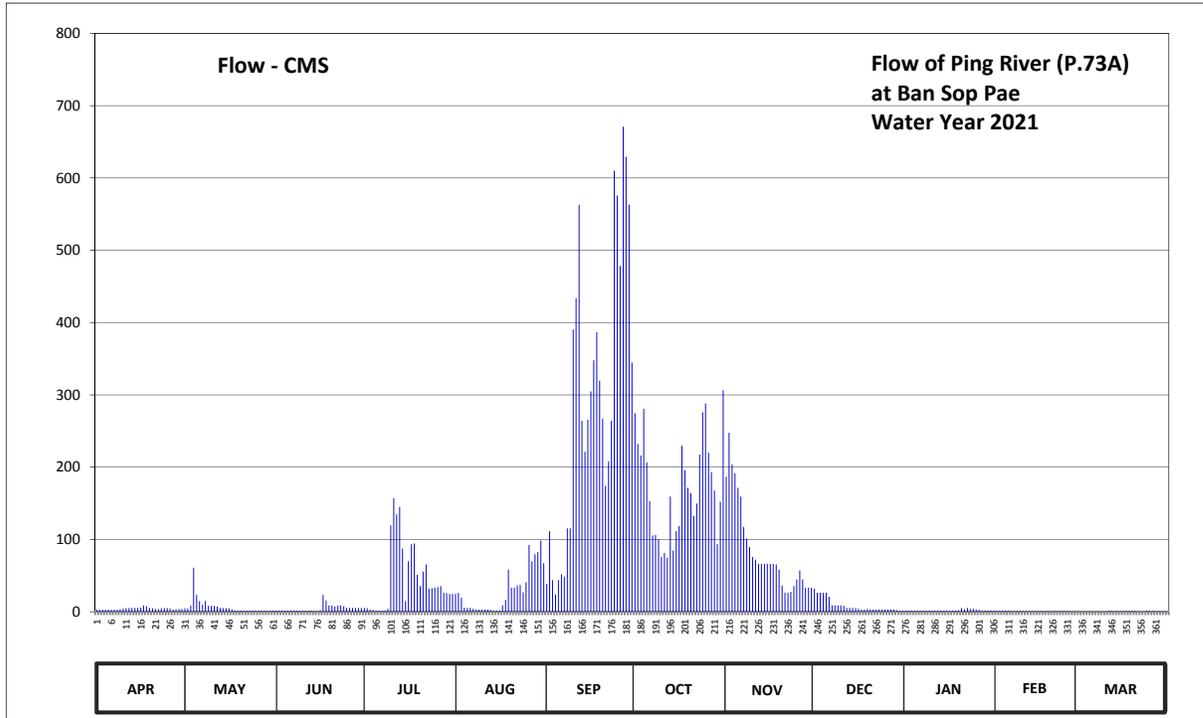
Lat 18 - 15 - 09 N Long 98 - 38 - 03 E

Location : on right bank at Ban Sop Pae.

	<b>Ban Sop Pae</b>	<b>Amphoe</b> Chom Thong	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	14,779 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+257.670 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 15 meters from the abutment of the bridge.	<b>Elevation</b>	+267.505 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2017 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2017 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2017 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.67	257.75	257.57	257.77	258.15	258.34	260.41	259.78	258.25	257.57	257.58	257.31	
2	257.67	257.74	257.57	257.75	258.17	259.13	260.12	260.23	258.17	257.57	257.61	257.29	
3	257.67	257.86	257.57	257.67	258.07	258.41	260.00	259.91	258.17	257.57	257.57	257.29	
4	257.67	258.61	257.57	257.65	257.78	258.14	260.45	259.82	258.17	257.57	257.57	257.29	
5	257.67	258.13	257.57	257.57	257.77	258.41	259.93	259.66	258.17	257.57	257.54	257.28	
6	257.67	257.99	257.57	257.57	257.77	258.51	259.51	259.56	258.09	257.57	257.47	257.27	
7	257.69	257.89	257.57	257.57	257.73	258.47	259.07	259.19	257.87	257.57	257.49	257.27	
8	257.68	258.00	257.57	257.57	257.67	259.17	259.08	259.03	257.87	257.57	257.55	257.27	
9	257.71	257.85	257.57	257.73	257.67	259.17	259.02	258.91	257.87	257.57	257.47	257.27	
10	257.73	257.85	257.57	259.21	257.67	261.11	258.77	258.77	257.87	257.57	257.47	257.27	
11	257.76	257.85	257.57	259.54	257.67	261.34	258.83	258.73	257.85	257.57	257.47	257.54	
12	257.77	257.82	257.57	259.35	257.67	261.98	258.76	258.67	257.77	257.57	257.47	257.54	
13	257.77	257.76	257.57	259.44	257.65	260.34	259.56	258.67	257.77	257.57	257.47	257.47	
14	257.77	257.75	257.52	258.89	257.57	260.04	258.86	258.67	257.77	257.57	257.47	257.47	
15	257.77	257.75	257.37	257.99	257.57	260.35	259.13	258.67	257.77	257.57	257.47	257.46	
16	257.78	257.75	257.62	258.71	257.61	260.61	259.20	258.67	257.74	257.57	257.47	257.47	
17	257.86	257.69	258.13	258.95	257.87	260.87	260.10	258.67	257.68	257.57	257.45	257.52	
18	257.84	257.57	258.01	258.96	258.02	261.09	259.85	258.66	257.69	257.57	257.40	257.48	
19	257.77	257.57	257.87	258.50	258.58	260.70	259.66	258.58	257.72	257.62	257.37	257.54	
20	257.75	257.57	257.87	258.30	258.27	260.36	259.60	258.31	257.70	257.76	257.39	257.54	
21	257.72	257.57	257.83	258.55	258.27	259.68	259.33	258.17	257.68	257.71	257.50	257.39	
22	257.71	257.57	257.86	258.66	258.31	259.94	259.48	258.17	257.68	257.77	257.47	257.38	
23	257.75	257.57	257.87	258.25	258.32	260.34	260.01	258.19	257.68	257.72	257.47	257.40	
24	257.76	257.57	257.84	258.26	258.18	262.20	260.42	258.30	257.68	257.72	257.47	257.60	
25	257.76	257.57	257.77	258.27	258.37	262.04	260.50	258.42	257.68	257.70	257.47	257.55	
26	257.74	257.57	257.77	258.28	258.94	261.57	260.03	258.57	257.68	257.66	257.45	257.49	
27	257.68	257.57	257.77	258.30	258.71	262.48	259.83	258.42	257.68	257.59	257.36	257.43	
28	257.71	257.57	257.77	258.17	258.81	262.29	259.63	258.27	257.68	257.61	257.32	257.40	
29	257.72	257.57	257.77	258.16	258.84	261.98	258.95	258.27	257.64	257.60		257.36	
30	257.72	257.57	257.77	258.15	258.84	260.85	259.50	258.27	257.57	257.57		257.28	
31		257.57		258.15	258.68		260.62		257.57	257.57		257.27	
Mean	257.73	257.74	257.69	258.32	258.11	260.33	259.62	258.81	257.81	257.61	257.47	257.40	
Max	257.86	258.61	258.13	259.54	259.00	262.48	260.62	260.23	258.25	257.77	257.61	257.60	262.48
Min	257.67	257.57	257.37	257.57	257.57	258.14	258.76	258.17	257.57	257.57	257.32	257.27	257.27
Annual Max Momentary Gage Height	262.77		m. (MSL.) ,			at 20.00 Hours ,	on Sep 27, 2021						
Zero Gage at Bottom Elevation	257.67		m. (MSL.) ,			River Bed	254.57	m. (MSL.)					
Left Bank Elevation	267.39		m. (MSL.) ,										
Right Bank Elevation	267.41		m. (MSL.) ,			Drainage Are	14,779	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.79	4.75	1.42	5.33	24.70	38.50	274.50	186.50	31.85	1.42	1.48	0.23		
2	2.79	4.46	1.42	4.75	26.10	111.30	232.20	247.50	26.10	1.42	1.77	0.18		
3	2.79	8.48	1.42	2.79	19.34	43.80	216.00	203.85	26.10	1.42	1.42	0.18		
4	2.79	60.90	1.42	2.45	5.62	24.00	280.50	191.70	26.10	1.42	1.42	0.18		
5	2.79	23.30	1.42	1.42	5.33	43.80	206.55	171.50	26.10	1.42	1.24	0.16		
6	2.79	14.50	1.42	1.42	5.33	51.90	153.20	159.20	20.58	1.42	0.85	0.14		
7	3.13	9.62	1.42	1.42	4.17	48.60	105.30	117.30	8.86	1.42	0.95	0.14		
8	2.96	15.00	1.42	1.42	2.79	115.30	106.30	101.30	8.86	1.42	1.30	0.14		
9	3.59	8.10	1.42	4.17	2.79	115.30	100.30	89.39	8.86	1.42	0.85	0.14		
10	4.17	8.10	1.42	119.38	2.79	390.35	75.65	75.65	8.86	1.42	0.85	0.14		
11	5.04	8.10	1.42	156.80	2.79	433.60	81.47	71.85	8.10	1.42	0.85	1.24		
12	5.33	6.96	1.42	134.58	2.79	562.80	74.70	66.30	5.33	1.42	0.85	1.24		
13	5.33	5.04	1.42	144.80	2.45	264.00	159.20	66.30	5.33	1.42	0.85	0.85		
14	5.33	4.75	1.12	87.41	1.42	221.40	84.44	66.30	5.33	1.42	0.85	0.85		
15	5.33	4.75	0.41	14.50	1.42	265.50	111.30	66.30	5.33	1.42	0.85	0.80		
16	5.62	4.75	1.94	69.95	1.77	304.65	118.30	66.30	4.46	1.42	0.85	0.85		
17	8.48	3.13	23.30	93.35	8.86	347.90	229.50	66.30	2.96	1.42	0.75	1.12		
18	7.72	1.42	15.62	94.34	16.24	386.65	195.75	65.40	3.13	1.42	0.50	0.90		
19	5.33	1.42	8.86	51.00	58.20	319.50	171.50	58.20	3.88	1.94	0.41	1.24		
20	4.75	1.42	8.86	35.50	33.31	267.00	164.00	36.25	3.30	5.04	0.47	1.24		
21	3.88	1.42	7.34	55.50	33.31	174.00	132.41	26.10	2.96	3.59	1.00	0.47		
22	3.59	1.42	8.48	65.40	36.25	207.90	149.60	26.10	2.96	5.33	0.85	0.44		
23	4.75	1.42	8.86	31.85	37.00	264.00	217.35	27.50	2.96	3.88	0.85	0.50		
24	5.04	1.42	7.72	32.58	26.80	610.00	276.00	35.50	2.96	3.88	0.85	1.60		
25	5.04	1.42	5.33	33.31	40.75	575.60	288.00	44.60	2.96	3.30	0.85	1.30		
26	4.46	1.42	5.33	34.04	92.36	478.15	220.05	57.30	2.96	2.62	0.75	0.95		
27	2.96	1.42	5.33	35.50	69.95	671.00	193.05	44.60	2.96	1.54	0.38	0.65		
28	3.59	1.42	5.33	26.10	79.49	629.35	167.75	33.31	2.96	1.77	0.26	0.50		
29	3.88	1.42	5.33	25.40	82.46	562.80	93.35	33.31	2.28	1.60		0.38		
30	3.88	1.42	5.33	24.70	98.30	344.50	152.00	33.31	1.42	1.42		0.16		
31		1.42		24.70	67.20		306.30		1.42	1.42		0.14		
<b>Total</b>	129.92	214.57	142.95	1415.86	892.08	8873.15	5336.52	2535.02	268.22	62.89	25.15	19.05	19915.38	CMSDAY
<b>Mean</b>	4.33	6.92	4.77	45.67	28.78	295.77	172.15	84.50	8.65	2.03	0.90	0.61	54.56	CMS
<b>Max</b>	8.48	60.90	23.30	156.80	98.30	671.00	306.30	247.50	31.85	5.33	1.77	1.60	671.00	CMS
<b>Min</b>	2.79	1.42	0.41	1.42	1.42	24.00	74.70	26.10	1.42	1.42	0.26	0.14	0.14	CMS
<b>Runoff</b>	11.23	18.54	12.35	122.33	77.08	766.64	461.08	219.03	23.17	5.43	2.17	1.65	1720.69	MCM
<b>Momentary Peak</b>	737.10 CMS. at 262.77 m. (MSL.) at 20.00 Hours , on Sep 27, 2021													
<b>Runoff Yield</b>	3.69 Liters/Second/Square KM.			Momentary Peak Yield				49.87 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Cho Lae , Chiang Mai (P.75)

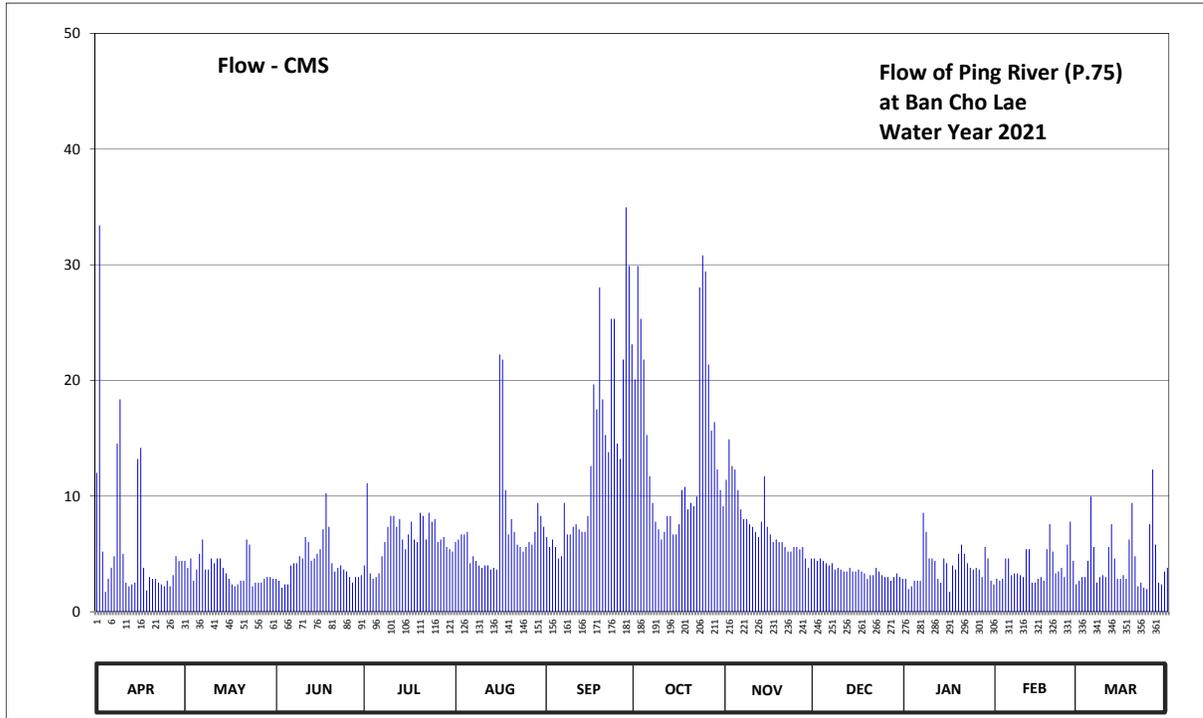
Lat 19 - 08 - 51 N Long 99 - 00 - 26 E

Location : on left bank at the bridge on road.

	<b>Ban Cho Lae</b>	<b>Amphoe Mae Teang</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	2,920 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+337.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 3 meters from the top staff gage.	<b>Elevation</b>	+341.805 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1998 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	338.24	337.93	337.84	337.91	338.01	338.03	338.46	338.22	337.94	337.84	337.84	337.83	
2	338.75	337.90	337.83	338.21	338.02	337.99	338.68	338.33	337.93	337.78	337.83	337.85	
3	337.97	337.94	337.79	337.87	338.04	338.02	338.58	338.26	337.94	337.80	337.84	337.85	
4	337.76	337.83	337.81	337.84	338.04	337.99	338.50	338.25	337.93	337.83	337.94	337.93	
5	337.84	337.89	337.81	337.85	338.05	337.94	338.34	338.19	337.92	337.83	337.94	338.17	
6	337.90	337.96	337.91	337.87	337.92	337.95	338.23	338.13	337.91	337.83	337.86	337.99	
7	337.95	338.02	337.92	337.95	337.95	338.15	338.15	338.10	337.92	338.12	337.87	337.82	
8	338.32	337.89	337.92	338.01	337.93	338.04	338.09	338.10	337.89	338.05	337.87	337.85	
9	338.42	337.89	337.95	338.07	337.91	338.04	338.06	338.08	337.90	337.94	337.86	337.86	
10	337.96	337.94	337.94	338.11	337.90	338.07	338.02	338.07	337.89	337.94	337.85	337.85	
11	337.82	337.92	338.03	338.11	337.91	338.08	338.05	338.05	337.88	337.93	337.98	337.99	
12	337.80	337.94	338.01	338.07	337.91	338.06	338.11	338.03	337.88	337.84	337.98	338.08	
13	337.81	337.94	337.93	338.10	337.89	338.05	338.11	338.09	337.90	337.82	337.82	337.94	
14	337.82	337.90	337.94	338.02	337.90	338.05	338.04	338.23	337.88	337.94	337.82	337.84	
15	338.28	337.87	337.96	337.98	337.89	338.11	338.04	338.07	337.88	337.92	337.84	337.84	
16	338.31	337.84	337.98	338.04	338.51	338.26	338.08	338.04	337.89	337.76	337.85	337.86	
17	337.90	337.81	338.06	338.09	338.50	338.45	338.19	338.01	337.88	337.91	337.83	337.84	
18	337.77	337.80	338.18	338.02	338.19	338.40	338.20	338.02	337.87	337.89	337.98	338.02	
19	337.85	337.81	338.07	338.01	338.04	338.64	338.13	338.01	337.84	337.96	338.08	338.15	
20	337.84	337.83	337.92	338.12	338.10	338.42	338.15	338.01	337.86	338.00	337.97	337.95	
21	337.84	337.83	337.88	338.11	338.05	338.34	338.14	337.99	337.86	337.96	337.87	337.80	
22	337.82	338.02	337.90	338.02	338.00	338.30	338.17	337.97	337.90	337.92	337.88	337.82	
23	337.81	338.00	337.91	338.12	337.99	338.58	338.64	337.97	337.88	337.90	337.90	337.79	
24	337.80	337.80	337.89	338.09	337.97	338.58	338.70	337.99	337.86	337.89	337.85	337.78	
25	337.83	337.82	337.88	338.10	337.99	338.32	338.67	337.99	337.85	337.90	338.00	338.08	
26	337.80	337.82	337.85	338.01	338.01	338.28	338.49	337.98	337.85	337.89	338.09	338.25	
27	337.86	337.82	337.82	338.02	338.00	338.50	338.35	337.99	337.83	337.85	337.93	338.00	
28	337.95	337.84	337.85	338.03	338.05	338.78	338.37	337.94	337.85	337.99	337.81	337.82	
29	337.93	337.85	337.85	337.99	338.15	338.68	338.25	337.90	337.87	337.94		337.81	
30	337.93	337.85	337.86	337.98	338.11	338.53	338.19	337.94	337.85	337.85	337.83	337.88	
31		337.84		337.97	338.07		338.14		337.84	337.81		337.90	
Mean	337.96	337.88	337.92	338.02	338.03	338.25	338.27	338.06	337.88	337.90	337.90	337.92	
Max	338.75	338.02	338.18	338.21	338.51	338.78	338.70	338.33	337.94	338.12	338.09	338.25	338.78
Min	337.76	337.80	337.79	337.84	337.89	337.94	338.02	337.90	337.83	337.76	337.81	337.78	337.76
Annual Max Momentary Gage Height	339.01		m. (MSL.) ,				at 19.00 Hours ,						on Oct 23, 2021
Zero Gage at Bottom Elevation	337.60		m. (MSL.) ,			River Bed	336.40		m. (MSL.)				
Left Bank Elevation		345.08		m. (MSL.) ,									
Right Bank Elevation		345.11		m. (MSL.) ,		Drainage Are	2,920		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.00	4.40	2.84	4.00	6.02	6.46	20.08	11.40	4.60	2.84	2.84	2.68	
2	33.40	3.80	2.68	11.10	6.24	5.60	29.88	14.91	4.40	1.96	2.68	3.00	
3	5.20	4.60	2.08	3.32	6.68	6.24	25.32	12.60	4.60	2.20	2.84	3.00	
4	1.72	2.68	2.36	2.84	6.68	5.60	21.80	12.30	4.40	2.68	4.60	4.40	
5	2.84	3.64	2.36	3.00	6.90	4.60	15.28	10.52	4.20	2.68	4.60	9.96	
6	3.80	5.00	4.00	3.32	4.20	4.80	11.70	8.84	4.00	2.68	3.16	5.60	
7	4.80	6.24	4.20	4.80	4.80	9.40	9.40	8.00	4.20	8.56	3.32	2.52	
8	14.54	3.64	4.20	6.02	4.40	6.68	7.78	8.00	3.64	6.90	3.32	3.00	
9	18.36	3.64	4.80	7.34	4.00	6.68	7.12	7.56	3.80	4.60	3.16	3.16	
10	5.00	4.60	4.60	8.28	3.80	7.34	6.24	7.34	3.64	4.60	3.00	3.00	
11	2.52	4.20	6.46	8.28	4.00	7.56	6.90	6.90	3.48	4.40	5.40	5.60	
12	2.20	4.60	6.02	7.34	4.00	7.12	8.28	6.46	3.48	2.84	5.40	7.56	
13	2.36	4.60	4.40	8.00	3.64	6.90	8.28	7.78	3.80	2.52	2.52	4.60	
14	2.52	3.80	4.60	6.24	3.80	6.90	6.68	11.70	3.48	4.60	2.52	2.84	
15	13.20	3.32	5.00	5.40	3.64	8.28	6.68	7.34	3.48	4.20	2.84	2.84	
16	14.17	2.84	5.40	6.68	22.24	12.60	7.56	6.68	3.64	1.72	3.00	3.16	
17	3.80	2.36	7.12	7.78	21.80	19.65	10.52	6.02	3.48	4.00	2.68	2.84	
18	1.84	2.20	10.24	6.24	10.52	17.50	10.80	6.24	3.32	3.64	5.40	6.24	
19	3.00	2.36	7.34	6.02	6.68	28.04	8.84	6.02	2.84	5.00	7.56	9.40	
20	2.84	2.68	4.20	8.56	8.00	18.36	9.40	6.02	3.16	5.80	5.20	4.80	
21	2.84	2.68	3.48	8.28	6.90	15.28	9.12	5.60	3.16	5.00	3.32	2.20	
22	2.52	6.24	3.80	6.24	5.80	13.80	9.96	5.20	3.80	4.20	3.48	2.52	
23	2.36	5.80	4.00	8.56	5.60	25.32	28.04	5.20	3.48	3.80	3.80	2.08	
24	2.20	2.20	3.64	7.78	5.20	25.32	30.80	5.60	3.16	3.64	3.00	1.96	
25	2.68	2.52	3.48	8.00	5.60	14.54	29.42	5.60	3.00	3.80	5.80	7.56	
26	2.20	2.52	3.00	6.02	6.02	13.20	21.37	5.40	3.00	3.64	7.78	12.30	
27	3.16	2.52	2.52	6.24	5.80	21.80	15.65	5.60	2.68	3.00	4.40	5.80	
28	4.80	2.84	3.00	6.46	6.90	34.96	16.39	4.60	3.00	5.60	2.36	2.52	
29	4.40	3.00	3.00	5.60	9.40	29.88	12.30	3.80	3.32	4.60		2.36	
30	4.40	3.00	3.16	5.40	8.28	23.12	10.52	4.60	3.00	2.68		3.48	
31		2.84		5.20	7.34		9.12		2.84	2.36		3.80	
Total	181.67	111.36	127.98	198.34	214.88	413.53	431.23	223.83	110.08	120.74	109.98	136.78	2380.40 CMSDAY
Mean	6.06	3.59	4.27	6.40	6.93	13.78	13.91	7.46	3.55	3.89	3.93	4.41	6.52 CMS
Max	33.40	6.24	10.24	11.10	22.24	34.96	30.80	14.91	4.60	8.56	7.78	12.30	34.96 CMS
Min	1.72	2.20	2.08	2.84	3.64	4.60	6.24	3.80	2.68	1.72	2.36	1.96	1.72 CMS
Runoff	15.70	9.62	11.06	17.14	18.57	35.73	37.26	19.34	9.51	10.43	9.50	11.82	205.67 MCM
Momentary Peak	47.75	CMS.	at 339.01 m. (MSL.)	at 19.00 Hours	on Oct 23, 2021								
Runoff Yield	2.23	Liters/Second/Square KM.		Momentary Peak Yield	16.35	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

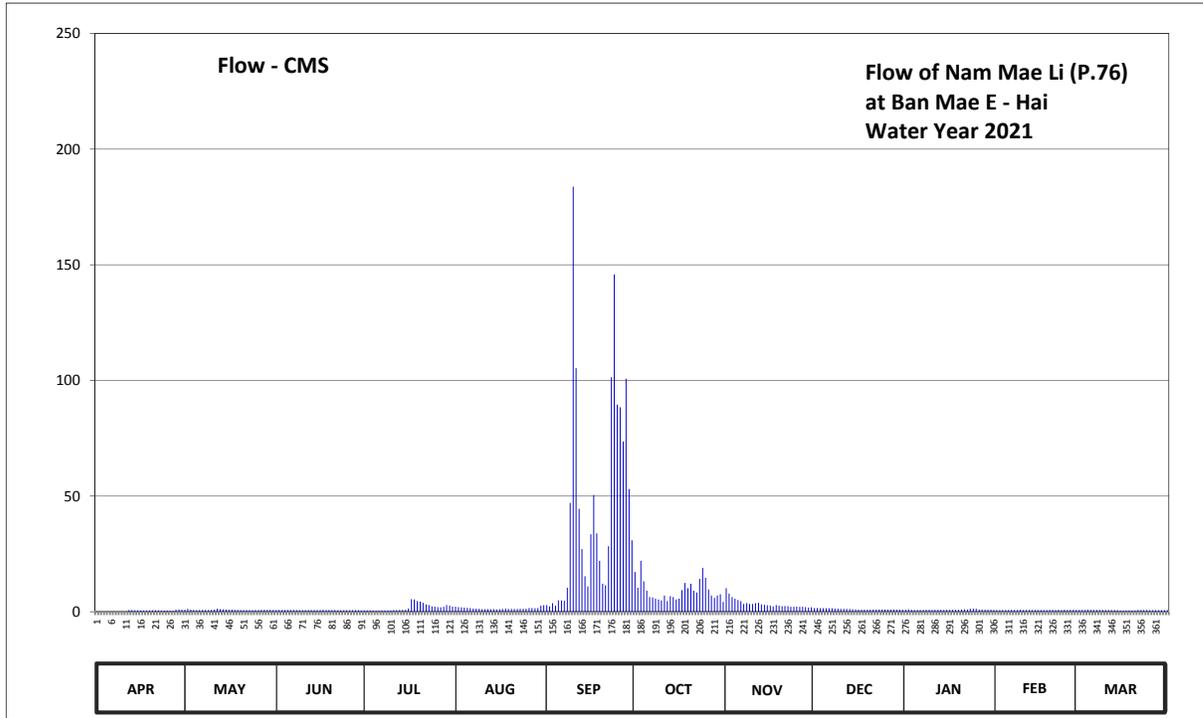
Lat 18 - 08 - 26 N Long 98 - 53 - 45 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	Amphoe Li	Changwat Lamphun
<b>Drainage Area</b>	1,544 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+363.617 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 15 meters from the top staff gage.	<b>Elevation</b>	+370.937 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	364.23	364.93	364.88	364.81	365.12	365.19	365.75	365.54	365.06	364.94	364.89	364.88	
2	364.21	365.02	364.88	364.80	365.10	365.13	365.55	365.45	365.06	365.01	364.89	364.87	
3	363.98	364.98	364.87	364.80	365.09	365.24	365.87	365.39	365.05	364.94	364.89	364.88	
4	363.98	364.92	364.88	364.79	365.08	365.16	365.64	365.35	365.05	364.92	364.88	364.90	
5	363.99	364.88	364.87	364.78	365.07	365.31	365.50	365.32	365.05	364.92	364.88	364.89	
6	363.99	364.88	364.87	364.78	365.06	365.31	365.39	365.29	365.05	364.92	364.90	364.88	
7	364.00	364.90	364.87	364.80	365.04	365.30	365.38	365.22	365.05	364.92	364.89	364.88	
8	363.98	364.89	364.87	364.80	365.03	365.55	365.35	365.24	365.04	364.93	364.89	364.88	
9	363.99	364.87	364.87	364.81	365.02	366.42	365.33	365.22	365.03	364.93	364.90	364.87	
10	363.98	364.86	364.89	364.82	365.01	368.57	365.31	365.22	365.02	364.92	364.89	364.87	
11	364.32	364.96	364.88	364.86	365.01	367.45	365.42	365.24	365.02	364.91	364.87	364.89	
12	364.86	365.03	364.88	364.88	365.01	366.37	365.29	365.25	365.02	364.91	364.86	364.87	
13	364.87	365.01	364.89	364.90	365.01	365.99	365.41	365.21	365.02	364.91	364.86	364.87	
14	364.82	365.00	364.89	364.90	365.01	365.70	365.39	365.20	365.01	364.91	364.86	364.85	
15	364.79	364.99	364.89	364.90	365.00	365.57	365.33	365.18	365.00	364.91	364.88	364.78	
16	364.77	364.96	364.89	365.04	365.01	366.14	365.35	365.17	364.99	364.91	364.88	364.78	
17	364.77	364.94	364.90	365.34	365.02	366.49	365.51	365.13	364.99	364.92	364.88	364.81	
18	364.78	364.90	364.89	365.33	365.04	366.15	365.62	365.19	364.98	364.92	364.88	364.80	
19	364.81	364.90	364.88	365.29	365.02	365.87	365.54	365.16	364.98	364.92	364.90	364.81	
20	364.82	364.89	364.88	365.28	365.02	365.61	365.61	365.14	364.98	364.97	364.90	364.81	
21	364.82	364.89	364.86	365.25	365.02	365.59	365.50	365.15	364.98	365.01	364.88	364.88	
22	364.81	364.87	364.85	365.21	365.02	366.02	365.47	365.14	364.98	364.94	364.93	364.86	
23	364.78	364.87	364.85	365.19	365.03	367.39	365.67	365.11	364.97	365.03	364.89	364.86	
24	364.76	364.86	364.84	365.13	365.03	368.04	365.80	365.11	364.97	365.04	364.93	364.86	
25	364.76	364.86	364.84	365.12	365.03	367.20	365.68	365.12	364.97	365.03	364.91	364.85	
26	364.75	364.86	364.83	365.10	365.06	367.18	365.52	365.11	364.96	364.99	364.90	364.84	
27	364.73	364.90	364.83	365.09	365.06	366.92	365.42	365.11	364.95	364.99	364.90	364.84	
28	364.95	364.93	364.83	365.11	365.05	367.38	365.37	365.10	364.97	364.97	364.89	364.84	
29	365.00	364.92	364.83	365.19	365.06	366.54	365.42	365.08	364.96	364.95		364.84	
30	364.94	364.91	364.82	365.16	365.16	366.08	365.44	365.09	364.95	364.93		364.83	
31		364.88		365.12	365.18		365.27		364.93	364.90		364.83	
Mean	364.54	364.92	364.87	365.01	365.05	366.23	365.49	365.21	365.00	364.95	364.89	364.85	
Max	365.00	365.03	364.90	365.34	365.18	368.57	365.87	365.54	365.06	365.04	364.93	364.90	368.57
Min	363.98	364.86	364.82	364.78	365.00	365.13	365.27	365.08	364.93	364.90	364.86	364.78	363.98
Annual Max Momentary Gage Height	369.10		m. (MSL.) ,			at 17.00 Hours ,		on Sep 10, 2021					
Zero Gage at Bottom Elevation	363.62		m. (MSL.) ,			River Bed	364.22	m. (MSL.)					
Left Bank Elevation		371.48		m. (MSL.) ,									
Right Bank Elevation		371.51		m. (MSL.) ,		Drainage Are	1,544	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.86	0.76	0.62	2.20	2.90	17.18	10.14	1.60	0.88	0.78	0.76	
2	0.04	1.20	0.76	0.60	2.00	2.30	10.40	7.80	1.60	1.10	0.78	0.74	
3	0.02	0.96	0.74	0.60	1.90	3.70	21.98	6.33	1.50	0.88	0.78	0.76	
4	0.02	0.84	0.76	0.58	1.80	2.60	13.16	5.63	1.50	0.84	0.76	0.80	
5	0.02	0.76	0.74	0.56	1.70	4.93	9.10	5.10	1.50	0.84	0.76	0.78	
6	0.02	0.76	0.74	0.56	1.60	4.93	6.33	4.58	1.50	0.84	0.80	0.76	
7	0.02	0.80	0.74	0.60	1.40	4.75	6.15	3.35	1.50	0.84	0.78	0.76	
8	0.02	0.78	0.74	0.60	1.30	10.40	5.63	3.70	1.40	0.86	0.78	0.76	
9	0.02	0.74	0.74	0.62	1.20	47.00	5.28	3.35	1.30	0.86	0.80	0.74	
10	0.02	0.72	0.78	0.64	1.10	183.75	4.93	3.35	1.20	0.84	0.78	0.74	
11	0.06	0.92	0.76	0.72	1.10	105.25	7.02	3.70	1.20	0.82	0.74	0.78	
12	0.72	1.30	0.76	0.76	1.10	44.50	4.58	3.88	1.20	0.82	0.72	0.74	
13	0.74	1.10	0.78	0.80	1.10	27.08	6.76	3.18	1.20	0.82	0.72	0.74	
14	0.64	1.00	0.78	0.80	1.10	15.35	6.33	3.00	1.10	0.82	0.72	0.70	
15	0.58	0.98	0.78	0.80	1.00	10.92	5.28	2.80	1.00	0.82	0.76	0.56	
16	0.54	0.92	0.78	1.40	1.10	33.45	5.63	2.70	0.98	0.82	0.76	0.56	
17	0.54	0.88	0.80	5.45	1.20	50.50	9.36	2.30	0.98	0.84	0.76	0.62	
18	0.56	0.80	0.78	5.28	1.40	33.88	12.43	2.90	0.96	0.84	0.76	0.60	
19	0.62	0.80	0.76	4.58	1.20	21.98	10.14	2.60	0.96	0.84	0.80	0.62	
20	0.64	0.78	0.76	4.40	1.20	12.07	12.07	2.40	0.96	0.94	0.80	0.62	
21	0.64	0.78	0.72	3.88	1.20	11.44	9.10	2.50	0.96	1.10	0.76	0.76	
22	0.62	0.74	0.70	3.18	1.20	28.35	8.32	2.40	0.96	0.88	0.86	0.72	
23	0.56	0.74	0.70	2.90	1.30	101.38	14.26	2.10	0.94	1.30	0.78	0.72	
24	0.52	0.72	0.68	2.30	1.30	145.80	19.00	2.10	0.94	1.40	0.86	0.72	
25	0.52	0.72	0.68	2.20	1.30	89.50	14.62	2.20	0.94	1.30	0.82	0.70	
26	0.50	0.72	0.66	2.00	1.60	88.35	9.62	2.10	0.92	0.98	0.80	0.68	
27	0.46	0.80	0.66	1.90	1.60	73.60	7.02	2.10	0.90	0.98	0.80	0.68	
28	0.90	0.86	0.66	2.10	1.50	100.75	5.98	2.00	0.94	0.94	0.78	0.68	
29	1.00	0.84	0.66	2.90	1.60	53.00	7.02	1.80	0.92	0.90		0.68	
30	0.88	0.82	0.64	2.60	2.60	30.90	7.54	1.90	0.90	0.86		0.66	
31		0.76		2.20	2.80		4.23		0.86	0.80		0.66	
<b>Total</b>	12.48	26.40	22.00	59.13	45.70	1345.31	286.45	103.99	35.32	28.60	21.80	21.80	2008.98 CMSDAY
<b>Mean</b>	0.42	0.85	0.73	1.91	1.47	44.84	9.24	3.47	1.14	0.92	0.78	0.70	5.50 CMS
<b>Max</b>	1.00	1.30	0.80	5.45	2.80	183.75	21.98	10.14	1.60	1.40	0.86	0.80	183.75 CMS
<b>Min</b>	0.02	0.72	0.64	0.56	1.00	2.30	4.23	1.80	0.86	0.80	0.72	0.56	0.02 CMS
<b>Runoff</b>	1.08	2.28	1.90	5.11	3.95	116.23	24.75	8.98	3.05	2.47	1.88	1.88	173.58 MCM
<b>Momentary Peak</b>	226.00 CMS. at 369.10 m. (MSL.) at 17.00 Hours , on Sep 10, 2021												
<b>Runoff Yield</b>	3.56 Liters/Second/Square KM.			Momentary Peak Yield				146.37 Liters/Second/Square KM.					

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)

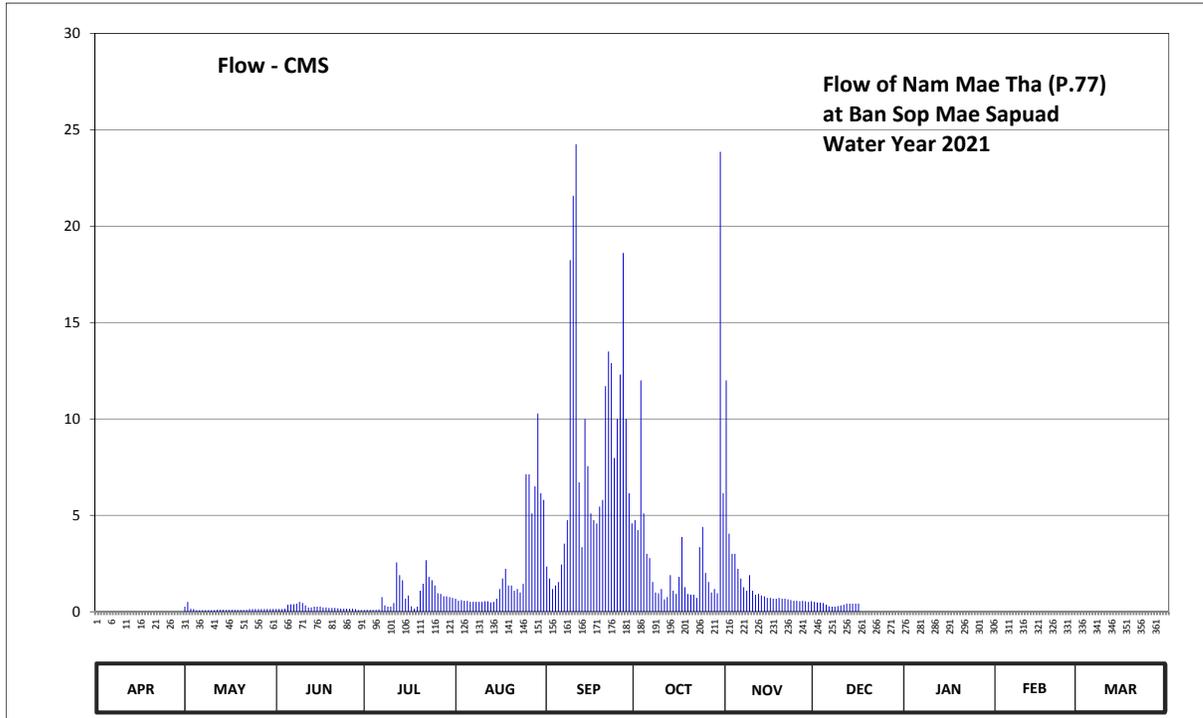
Lat 18 - 26 - 05 N Long 99 - 05 - 08 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Sop Mae Sapuad	<b>Amphoe</b> Mae Tha	<b>Changwat</b> Lamphun
<b>Drainage Area</b>	552 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+364.378 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the top staff gage.	<b>Elevation</b>	+369.286 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.58	365.78	365.72	365.69	365.92	366.14	366.30	366.62	365.87	366.22	366.00	365.83	
2	365.58	365.87	365.72	365.70	365.89	366.08	366.27	366.26	365.86	366.23	366.00	365.83	
3	365.58	365.73	365.72	365.70	365.90	366.02	366.62	366.20	365.86	366.27	366.00	365.83	
4	365.58	365.72	365.73	365.70	365.89	366.04	366.32	366.20	365.85	366.27	365.99	365.83	
5	365.58	365.68	365.82	365.70	365.89	366.06	366.20	366.13	365.82	366.27	365.95	365.83	
6	365.58	365.68	365.83	365.71	365.87	366.15	366.18	366.08	365.79	366.27	365.94	365.82	
7	365.58	365.68	365.83	365.94	365.87	366.23	366.06	366.03	365.78	366.26	365.94	365.81	
8	365.58	365.68	365.84	365.81	365.87	366.30	366.00	366.01	365.78	366.24	365.94	365.80	
9	365.58	365.68	365.87	365.78	365.87	366.82	365.99	366.10	365.80	366.23	365.93	365.80	
10	365.58	365.68	365.85	365.78	365.87	366.91	366.02	366.01	365.81	366.22	365.93	365.80	
11	365.58	365.68	365.81	365.85	365.88	366.98	365.91	365.97	365.82	366.22	365.93	365.80	
12	365.58	365.70	365.76	366.16	365.88	366.41	365.94	365.98	365.84	366.22	365.92	365.80	
13	365.58	365.70	365.76	366.10	365.86	366.22	366.10	365.96	365.84	366.22	365.88	365.81	
14	365.58	365.70	365.78	366.07	365.87	366.55	366.01	365.95	365.84	366.22	365.88	365.81	
15	365.58	365.69	365.78	365.92	365.92	366.45	365.98	365.93	365.84	366.21	365.88	365.80	
16	365.58	365.70	365.78	365.96	366.02	366.32	366.09	365.93	365.84	366.21	365.88	365.80	
17	365.58	365.70	365.76	365.79	366.08	366.30	366.25	365.92	365.94	366.20	365.88	365.80	
18	365.58	365.70	365.76	365.73	366.13	366.29	366.03	365.92	366.00	366.18	365.88	365.80	
19	365.58	365.70	365.75	365.78	366.04	366.34	365.98	365.93	366.00	366.16	365.91	365.80	
20	365.58	365.70	365.75	366.01	366.04	366.36	365.97	365.92	366.10	366.16	365.87	365.80	
21	365.58	365.70	365.75	366.05	366.01	366.61	365.97	365.92	366.31	366.22	365.87	365.80	
22	365.58	365.70	365.74	366.17	366.02	366.67	365.93	365.91	366.32	366.18	365.87	365.80	
23	365.58	365.72	365.73	366.09	366.00	366.65	366.22	365.90	366.28	366.18	365.87	365.80	
24	365.58	365.72	365.73	366.07	366.05	366.47	366.28	365.89	366.30	366.18	365.87	365.80	
25	365.58	365.72	365.73	366.04	366.43	366.55	366.11	365.89	366.31	366.18	365.86	365.80	
26	365.58	365.72	365.73	365.99	366.43	366.63	366.06	365.88	366.29	366.17	365.84	365.80	
27	365.58	365.72	365.73	365.98	366.32	366.83	366.00	365.89	366.30	366.13	365.83	365.80	
28	365.58	365.72	365.72	365.95	366.40	366.55	366.02	365.88	366.30	366.08	365.83	365.80	
29	365.58	365.72	365.69	365.95	366.56	366.38	365.99	365.87	366.23	366.04	365.80	365.80	
30	365.58	365.72	365.69	365.94	366.38	366.29	366.97	365.88	366.26	366.00	365.80	365.80	
31	365.58	365.72	365.72	365.93	366.36	366.38	366.38	366.38	366.22	366.00	365.80	365.80	
Mean	365.58	365.71	365.76	365.90	366.05	366.42	366.13	366.00	366.01	366.19	365.91	365.81	
Max	365.58	365.87	365.87	366.17	366.56	366.98	366.97	366.62	366.32	366.27	366.00	365.83	366.98
Min	365.58	365.68	365.69	365.69	365.86	366.02	365.91	365.87	365.78	366.00	365.83	365.80	365.58
Annual Max Momentary Gage Height	368.38		m. (MSL.) ,			at 08.00 Hours ,	on Oct 30, 2021						
Zero Gage at Bottom Elevation	364.38		m. (MSL.) ,			River Bed	365.60	m. (MSL.)					
Left Bank Elevation		370.11		m. (MSL.) ,									
Right Bank Elevation		374.19		m. (MSL.) ,		Drainage Are	552	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.26	0.14	0.09	0.68	2.34	4.75	12.00	0.51	0.00	0.00	0.00	
2	0.00	0.51	0.14	0.10	0.57	1.72	4.23	4.05	0.48	0.00	0.00	0.00	
3	0.00	0.16	0.14	0.10	0.60	1.18	12.00	3.00	0.48	0.00	0.00	0.00	
4	0.00	0.14	0.16	0.10	0.57	1.36	5.10	3.00	0.45	0.00	0.00	0.00	
5	0.00	0.08	0.36	0.10	0.57	1.54	3.00	2.23	0.36	0.00	0.00	0.00	
6	0.00	0.08	0.39	0.12	0.51	2.45	2.78	1.72	0.28	0.00	0.00	0.00	
7	0.00	0.08	0.39	0.76	0.51	3.53	1.54	1.27	0.26	0.00	0.00	0.00	
8	0.00	0.08	0.42	0.33	0.51	4.75	1.00	1.09	0.26	0.00	0.00	0.00	
9	0.00	0.08	0.51	0.26	0.51	18.24	0.96	1.90	0.30	0.00	0.00	0.00	
10	0.00	0.08	0.45	0.26	0.51	21.58	1.18	1.09	0.33	0.00	0.00	0.00	
11	0.00	0.08	0.33	0.45	0.54	24.24	0.64	0.88	0.36	0.00	0.00	0.00	
12	0.00	0.10	0.22	2.56	0.54	6.71	0.76	0.92	0.42	0.00	0.00	0.00	
13	0.00	0.10	0.22	1.90	0.48	3.35	1.90	0.84	0.42	0.00	0.00	0.00	
14	0.00	0.10	0.26	1.63	0.51	10.00	1.09	0.80	0.42	0.00	0.00	0.00	
15	0.00	0.09	0.26	0.68	0.68	7.55	0.92	0.72	0.42	0.00	0.00	0.00	
16	0.00	0.10	0.26	0.84	1.18	5.10	1.81	0.72	0.42	0.00	0.00	0.00	
17	0.00	0.10	0.22	0.28	1.72	4.75	3.88	0.68	0.00	0.00	0.00	0.00	
18	0.00	0.10	0.22	0.16	2.23	4.58	1.27	0.68	0.00	0.00	0.00	0.00	
19	0.00	0.10	0.20	0.26	1.36	5.45	0.92	0.72	0.00	0.00	0.00	0.00	
20	0.00	0.10	0.20	1.09	1.36	5.80	0.88	0.68	0.00	0.00	0.00	0.00	
21	0.00	0.10	0.20	1.45	1.09	11.70	0.88	0.68	0.00	0.00	0.00	0.00	
22	0.00	0.10	0.18	2.67	1.18	13.50	0.72	0.64	0.00	0.00	0.00	0.00	
23	0.00	0.14	0.16	1.81	1.00	12.90	3.35	0.60	0.00	0.00	0.00	0.00	
24	0.00	0.14	0.16	1.63	1.45	7.97	4.40	0.57	0.00	0.00	0.00	0.00	
25	0.00	0.14	0.16	1.36	7.13	10.00	2.01	0.57	0.00	0.00	0.00	0.00	
26	0.00	0.14	0.16	0.96	7.13	12.30	1.54	0.54	0.00	0.00	0.00	0.00	
27	0.00	0.14	0.16	0.92	5.10	18.61	1.00	0.57	0.00	0.00	0.00	0.00	
28	0.00	0.14	0.14	0.80	6.50	10.00	1.18	0.54	0.00	0.00	0.00	0.00	
29	0.00	0.14	0.09	0.80	10.28	6.15	0.96	0.51	0.00	0.00	0.00	0.00	
30	0.00	0.14	0.09	0.76	6.15	4.58	23.86	0.54	0.00	0.00	0.00	0.00	
31		0.14		0.72	5.80		6.15		0.00	0.00		0.00	
Total	0.00	3.98	6.99	25.95	68.95	243.93	96.66	44.75	6.17	0.00	0.00	0.00	497.38 CMSDAY
Mean	0.00	0.13	0.23	0.84	2.22	8.13	3.12	1.49	0.20	0.00	0.00	0.00	1.36 CMS
Max	0.00	0.51	0.51	2.67	10.28	24.24	23.86	12.00	0.51	0.00	0.00	0.00	24.24 CMS
Min	0.00	0.08	0.09	0.09	0.48	1.18	0.64	0.51	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.34	0.60	2.24	5.96	21.08	8.35	3.87	0.53	0.00	0.00	0.00	42.97 MCM
Momentary Peak	105.50 CMS. at 368.38 m. (MSL.) at 08.00 Hours , on Oct 30, 2021												
Runoff Yield	2.47 Liters/Second/Square KM.			Momentary Peak Yield			191.12 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

## Khlong Khlung at Ban Sam Ruean , Kamphaeng Phet (P.78)

Lat 16 - 10 - 54 N Long 99 - 35 - 54 E

Location : on left bank at Ban Sam Ruean.

	<b>Ban Sam Ruean</b>	<b>Amphoe Khlong Khlung</b>	<b>Changwat Kamphaeng Phet</b>
<b>Drainage Area</b>	1,109 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+65.177 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+73.494 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +71.710 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.15	66.85	66.16	66.16	66.63	69.81	69.27	69.61	66.44	66.33	66.15	66.67	
2	66.15	66.76	66.16	66.16	66.59	69.14	69.93	69.26	66.41	66.31	66.15	66.63	
3	66.15	66.67	66.16	66.16	66.54	68.49	69.87	69.10	66.39	66.29	66.15	66.60	
4	66.15	66.62	66.16	66.16	66.50	69.06	69.03	69.17	66.37	66.27	66.15	66.58	
5	66.15	66.60	66.16	66.16	66.45	70.60	68.60	68.77	66.36	66.26	66.15	66.55	
6	66.15	66.57	66.16	66.16	66.40	70.29	68.34	68.37	66.35	66.25	66.15	66.53	
7	66.50	66.54	66.16	66.16	66.37	69.33	69.34	68.05	66.34	66.24	66.15	66.51	
8	66.64	66.51	66.16	66.16	66.34	69.12	69.31	67.89	66.32	66.23	66.15	66.49	
9	66.38	66.78	66.16	66.16	66.33	68.23	68.57	68.11	66.30	66.22	66.15	66.76	
10	66.30	66.80	66.16	66.16	66.32	68.11	68.26	67.88	66.28	66.21	66.15	67.40	
11	66.26	66.72	66.16	66.33	66.31	69.35	68.08	67.76	66.26	66.20	66.15	67.17	
12	66.23	66.65	66.16	67.58	66.30	69.33	68.06	67.69	66.24	66.19	66.15	66.76	
13	66.22	66.62	66.16	68.89	66.32	68.49	68.64	67.56	66.45	66.18	66.15	66.70	
14	66.21	66.59	66.16	68.66	66.54	67.98	69.19	67.47	66.45	66.17	66.15	66.67	
15	66.20	66.58	66.16	67.90	66.74	67.71	68.55	67.35	66.41	66.17	66.47	66.65	
16	66.19	66.56	66.16	68.27	66.93	68.20	68.50	67.27	66.39	66.17	68.23	66.61	
17	66.18	66.52	66.16	68.67	66.70	68.55	68.91	67.19	66.38	66.16	71.01	66.58	
18	66.19	66.48	66.16	67.97	66.62	68.51	69.24	67.10	66.37	66.16	70.04	66.55	
19	66.58	66.45	66.16	67.88	66.54	70.01	69.42	67.05	66.53	66.16	69.22	66.52	
20	66.50	66.40	66.16	67.34	66.50	68.77	69.76	67.00	66.46	66.16	68.55	66.49	
21	66.41	66.35	66.16	67.22	66.87	69.07	69.29	66.95	66.43	66.15	68.12	66.47	
22	66.36	66.31	66.16	67.20	66.85	70.97	69.14	67.15	66.42	66.15	67.88	66.46	
23	66.32	66.27	66.16	67.13	66.64	70.87	68.98	66.88	66.41	66.15	67.68	66.45	
24	66.29	66.23	66.16	67.05	66.60	70.56	69.64	66.75	66.40	66.15	67.52	66.44	
25	66.26	66.19	66.16	66.97	66.58	70.24	69.05	66.62	66.39	66.15	67.31	66.44	
26	66.24	66.17	66.16	66.89	66.61	70.48	68.50	66.57	66.38	66.15	67.24	66.43	
27	66.23	66.16	66.16	66.81	66.62	71.81	68.20	66.53	66.38	66.15	67.14	66.43	
28	66.22	66.16	66.16	66.73	66.64	71.67	68.03	66.51	66.37	66.15	66.80	66.43	
29	66.21	66.16	66.16	66.66	67.88	71.12	67.97	66.48	66.36	66.15		66.83	
30	66.79	66.16	66.16	66.65	70.32	70.09	68.58	66.46	66.35	66.15		66.69	
31		66.16		66.65	69.75		69.40		66.34	66.15		66.59	
Mean	66.29	66.47	66.16	67.00	66.82	69.53	68.89	67.55	66.38	66.19	67.12	66.62	
Max	66.79	66.85	66.16	68.89	70.32	71.81	69.93	69.61	66.53	66.33	71.01	67.40	71.81
Min	66.15	66.16	66.16	66.16	66.30	67.71	67.97	66.46	66.24	66.15	66.15	66.43	66.15
Annual Max Momentary Gage Height	71.87		m. (MSL.) ,			at 06.00 Hours ,	on Sep 27, 2021						
Zero Gage at Bottom Elevation	65.18		m. (MSL.) ,			River Bed	66.26	m. (MSL.)					
Left Bank Elevation	71.70		m. (MSL.) ,										
Right Bank Elevation	71.84		m. (MSL.) ,			Drainage Are	1,109	Square Kilometers					



## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Kuang at Ban Mae Wan , Chiang Mai (P.79)

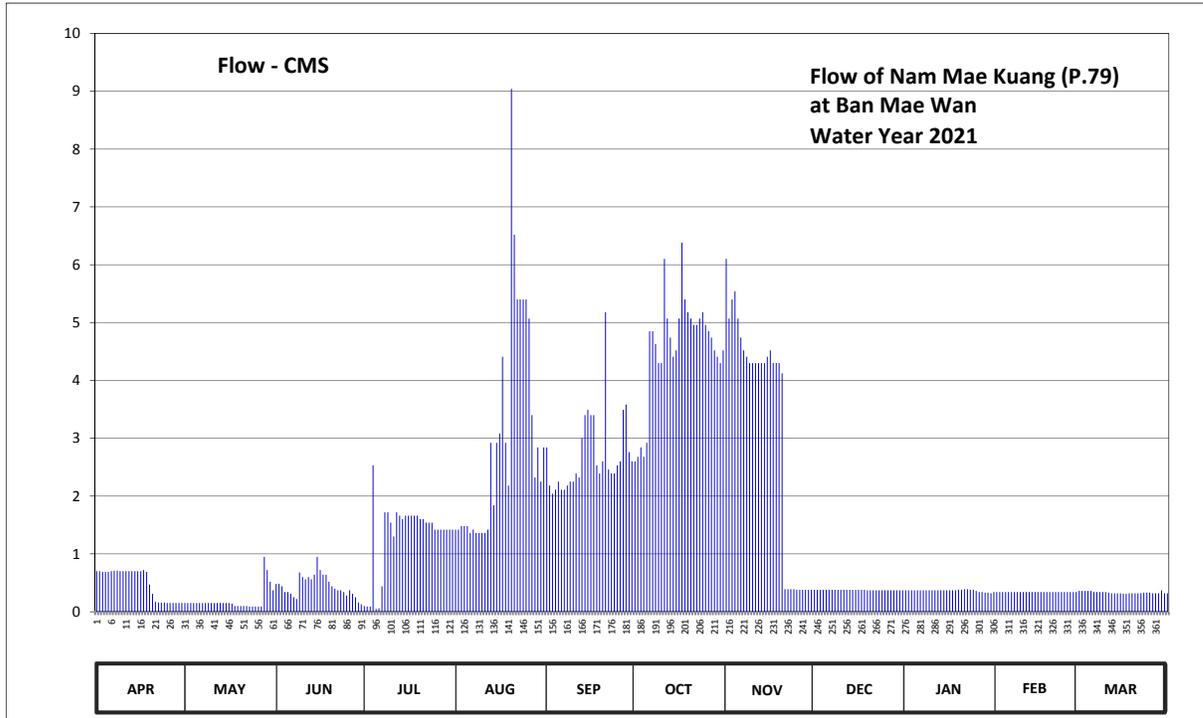
Lat 18 - 57 - 53 N Long 99 - 14 - 13 E

Location : on left bank at the bridge on road.

	<b>Ban Mae Wan</b>	<b>Amphoe Doi Saket</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	135 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+442.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+447.326 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	442.70	441.90	441.82	441.70	442.02	442.23	442.20	442.55	442.35	442.34	442.28	442.31	
2	442.70	441.90	441.82	441.69	442.02	442.14	442.21	442.47	442.35	442.34	442.28	442.31	
3	442.69	441.90	441.81	441.69	442.03	442.12	442.23	442.50	442.35	442.34	442.28	442.31	
4	442.69	441.90	441.78	442.19	442.03	442.13	442.21	442.51	442.35	442.34	442.28	442.31	
5	442.69	441.90	441.78	441.65	442.03	442.15	442.24	442.47	442.35	442.34	442.28	442.31	
6	442.70	441.90	441.77	441.66	442.01	442.13	442.45	442.44	442.35	442.34	442.28	442.28	
7	442.71	441.90	441.75	441.81	442.02	442.13	442.45	442.42	442.35	442.34	442.28	442.28	
8	442.71	441.90	441.74	442.07	442.01	442.14	442.43	442.41	442.35	442.34	442.28	442.28	
9	442.70	441.90	441.87	442.07	442.01	442.15	442.40	442.40	442.35	442.34	442.28	442.28	
10	442.70	441.90	441.85	442.04	442.01	442.15	442.40	442.40	442.35	442.34	442.28	442.28	
11	442.70	441.90	441.84	442.00	442.01	442.17	442.55	442.40	442.35	442.34	442.28	442.26	
12	442.70	441.90	441.85	442.07	442.02	442.16	442.47	442.40	442.35	442.34	442.28	442.24	
13	442.70	441.90	441.84	442.06	442.24	442.25	442.44	442.40	442.35	442.34	442.28	442.24	
14	442.70	441.90	441.86	442.05	442.09	442.30	442.41	442.40	442.35	442.34	442.28	442.24	
15	442.70	441.90	441.93	442.06	442.24	442.31	442.42	442.41	442.35	442.34	442.28	442.24	
16	442.70	441.90	441.88	442.06	442.26	442.30	442.47	442.42	442.35	442.34	442.28	442.22	
17	442.72	441.88	441.86	442.06	442.41	442.30	442.57	442.40	442.35	442.34	442.28	442.22	
18	442.69	441.80	441.86	442.06	442.24	442.19	442.50	442.40	442.35	442.34	442.28	442.23	
19	442.47	441.80	441.83	442.06	442.14	442.17	442.48	442.40	442.34	442.36	442.28	442.23	
20	442.21	441.80	441.81	442.05	442.73	442.20	442.47	442.38	442.34	442.36	442.28	442.23	
21	441.93	441.80	441.80	442.05	442.58	442.48	442.46	442.37	442.34	442.37	442.28	442.23	
22	441.92	441.79	441.79	442.04	442.50	442.18	442.46	442.37	442.34	442.38	442.28	442.24	
23	441.92	441.77	441.79	442.04	442.50	442.17	442.47	442.37	442.34	442.36	442.28	442.25	
24	441.91	441.77	441.78	442.04	442.50	442.17	442.48	442.37	442.34	442.35	442.28	442.25	
25	441.90	441.77	441.76	442.02	442.50	442.19	442.46	442.36	442.34	442.31	442.28	442.25	
26	441.90	441.77	441.79	442.02	442.47	442.20	442.45	442.36	442.34	442.27	442.28	442.23	
27	441.90	441.78	441.77	442.02	442.30	442.31	442.44	442.35	442.34	442.27	442.28	442.23	
28	441.90	441.93	441.75	442.02	442.16	442.32	442.42	442.35	442.34	442.26	442.28	442.23	
29	441.90	441.88	441.72	442.02	442.23	442.22	442.41	442.35	442.34	442.25	442.24	442.34	
30	441.90	441.83	441.71	442.02	442.15	442.20	442.40	442.35	442.34	442.24	442.24	442.24	
31		441.79		442.02	442.23		442.42		442.34	442.28	442.24	442.24	
Mean	442.41	441.86	441.81	441.98	442.22	442.21	442.42	442.41	442.35	442.33	442.28	442.26	
Max	442.72	441.93	441.93	442.19	442.73	442.48	442.57	442.55	442.35	442.38	442.28	442.34	442.73
Min	441.90	441.77	441.71	441.65	442.01	442.12	442.20	442.35	442.34	442.24	442.28	442.22	441.65
Annual Max Momentary Gage Height	443.36		m. (MSL.) ,				at 10.00 Hours , on Aug 20, 2021						
Zero Gage at Bottom Elevation	442.30		m. (MSL.) ,			River Bed	440.95	m. (MSL.)					
Left Bank Elevation		445.97		m. (MSL.) ,									
Right Bank Elevation		447.93		m. (MSL.) ,		Drainage Are	135	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.15	0.48	0.10	1.42	2.84	2.60	6.10	0.38	0.37	0.34	0.36	
2	0.70	0.15	0.48	0.09	1.42	2.18	2.68	5.07	0.38	0.37	0.34	0.36	
3	0.69	0.15	0.44	0.09	1.48	2.04	2.84	5.40	0.38	0.37	0.34	0.36	
4	0.69	0.15	0.34	2.53	1.48	2.11	2.68	5.54	0.38	0.37	0.34	0.36	
5	0.69	0.15	0.34	0.05	1.48	2.25	2.92	5.07	0.38	0.37	0.34	0.36	
6	0.70	0.15	0.31	0.06	1.36	2.11	4.85	4.74	0.38	0.37	0.34	0.34	
7	0.71	0.15	0.25	0.44	1.42	2.11	4.85	4.52	0.38	0.37	0.34	0.34	
8	0.71	0.15	0.22	1.72	1.36	2.18	4.63	4.41	0.38	0.37	0.34	0.34	
9	0.70	0.15	0.68	1.72	1.36	2.25	4.30	4.30	0.38	0.37	0.34	0.34	
10	0.70	0.15	0.60	1.54	1.36	2.25	4.30	4.30	0.38	0.37	0.34	0.34	
11	0.70	0.15	0.56	1.30	1.36	2.39	6.10	4.30	0.38	0.37	0.34	0.33	
12	0.70	0.15	0.60	1.72	1.42	2.32	5.07	4.30	0.38	0.37	0.34	0.32	
13	0.70	0.15	0.56	1.66	2.92	3.00	4.74	4.30	0.38	0.37	0.34	0.32	
14	0.70	0.15	0.64	1.60	1.84	3.40	4.41	4.30	0.38	0.37	0.34	0.32	
15	0.70	0.15	0.95	1.66	2.92	3.49	4.52	4.41	0.38	0.37	0.34	0.32	
16	0.70	0.15	0.72	1.66	3.08	3.40	5.07	4.52	0.38	0.37	0.34	0.31	
17	0.72	0.14	0.64	1.66	4.41	3.40	6.38	4.30	0.38	0.37	0.34	0.31	
18	0.69	0.10	0.64	1.66	2.92	2.53	5.40	4.30	0.38	0.37	0.34	0.32	
19	0.47	0.10	0.52	1.66	2.18	2.39	5.18	4.30	0.37	0.38	0.34	0.32	
20	0.31	0.10	0.44	1.60	9.04	2.60	5.07	4.12	0.37	0.38	0.34	0.32	
21	0.17	0.10	0.40	1.60	6.52	5.18	4.96	0.39	0.37	0.39	0.34	0.32	
22	0.16	0.10	0.37	1.54	5.40	2.46	4.96	0.39	0.37	0.39	0.34	0.32	
23	0.16	0.09	0.37	1.54	5.40	2.39	5.07	0.39	0.37	0.38	0.34	0.33	
24	0.16	0.09	0.34	1.54	5.40	2.39	5.18	0.39	0.37	0.38	0.34	0.33	
25	0.15	0.09	0.28	1.42	5.40	2.53	4.96	0.38	0.37	0.36	0.34	0.33	
26	0.15	0.09	0.37	1.42	5.07	2.60	4.85	0.38	0.37	0.34	0.34	0.32	
27	0.15	0.09	0.31	1.42	3.40	3.49	4.74	0.38	0.37	0.34	0.34	0.32	
28	0.15	0.95	0.25	1.42	2.32	3.58	4.52	0.38	0.37	0.33	0.34	0.32	
29	0.15	0.72	0.16	1.42	2.84	2.76	4.41	0.38	0.37	0.33		0.37	
30	0.15	0.52	0.13	1.42	2.25	2.60	4.30	0.38	0.37	0.32		0.32	
31		0.37		1.42	2.84		4.52		0.37	0.34		0.32	
<b>Total</b>	14.93	6.05	13.39	40.68	93.07	81.22	141.06	96.44	11.65	11.32	9.52	10.29	529.62 CMSDAY
<b>Mean</b>	0.50	0.20	0.45	1.31	3.00	2.71	4.55	3.21	0.38	0.37	0.34	0.33	1.45 CMS
<b>Max</b>	0.72	0.95	0.95	2.53	9.04	5.18	6.38	6.10	0.38	0.39	0.34	0.37	9.04 CMS
<b>Min</b>	0.15	0.09	0.13	0.05	1.36	2.04	2.60	0.38	0.37	0.32	0.34	0.31	0.05 CMS
<b>Runoff</b>	1.29	0.52	1.16	3.51	8.04	7.02	12.19	8.33	1.01	0.98	0.82	0.89	45.76 MCM
<b>Momentary Peak</b>	25.34	CMS. at 443.36 m. (MSL.) at 10.00 Hours , on Aug 20, 2021											
<b>Runoff Yield</b>	10.75	Liters/Second/Square KM. Momentary Peak Yield 187.70 Liters/Second/Square KM.											

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Lai at Ban Pong Din , Chiang Mai (P.80)

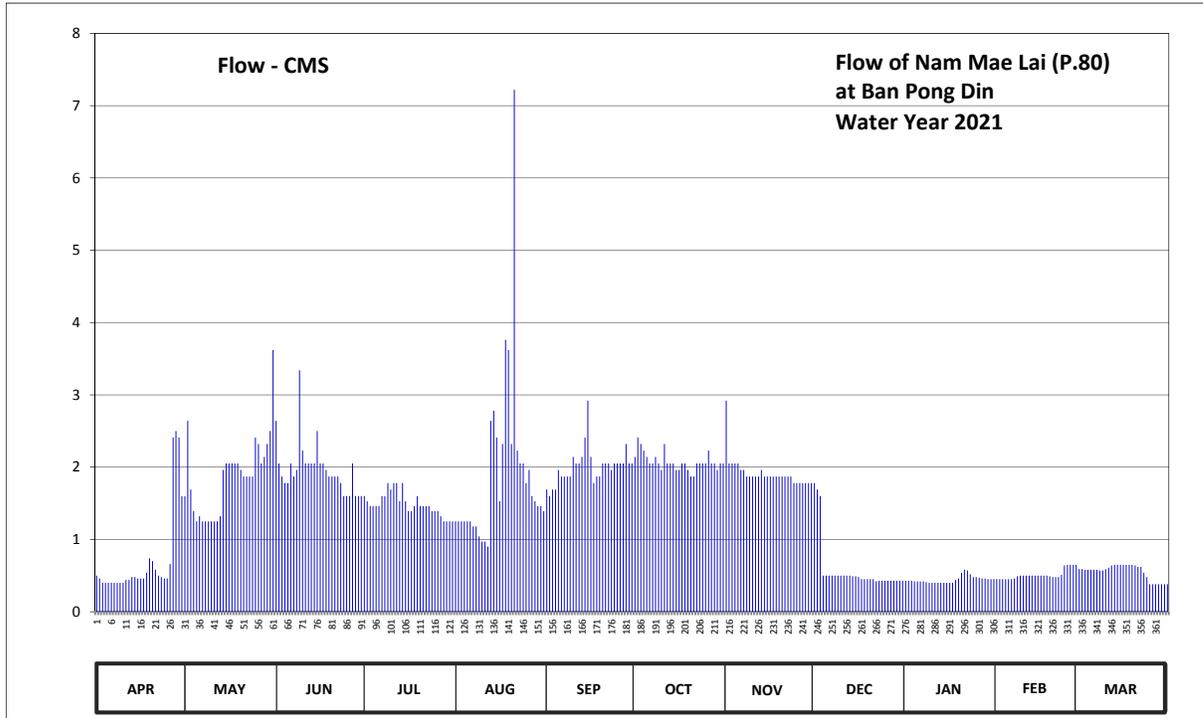
Lat 18 - 54 - 56 N Long 99 - 14 - 07 E

Location : on left bank at the bridge on road.

	<b>Ban Pong Din</b>	<b>Amphoe Doi Saket</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	135 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+455.096 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+462.021 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	455.40	455.60	455.71	455.60	455.55	455.61	455.66	455.73	455.62	455.53	455.55	455.69	
2	455.38	455.71	455.65	455.59	455.55	455.60	455.69	455.65	455.61	455.53	455.55	455.69	
3	455.35	455.61	455.63	455.58	455.55	455.61	455.68	455.65	455.60	455.53	455.55	455.68	
4	455.35	455.57	455.62	455.58	455.55	455.61	455.67	455.65	455.60	455.52	455.55	455.68	
5	455.35	455.55	455.62	455.58	455.55	455.64	455.66	455.65	455.60	455.52	455.55	455.68	
6	455.35	455.56	455.65	455.58	455.55	455.63	455.65	455.64	455.60	455.52	455.55	455.68	
7	455.35	455.55	455.63	455.60	455.54	455.63	455.65	455.64	455.60	455.52	455.56	455.68	
8	455.35	455.55	455.64	455.60	455.54	455.63	455.66	455.63	455.60	455.51	455.59	455.67	
9	455.35	455.55	455.76	455.62	455.52	455.63	455.65	455.63	455.60	455.50	455.60	455.67	
10	455.35	455.55	455.67	455.61	455.51	455.66	455.64	455.63	455.60	455.50	455.60	455.69	
11	455.37	455.55	455.65	455.62	455.51	455.65	455.68	455.63	455.60	455.50	455.60	455.71	
12	455.37	455.55	455.65	455.62	455.50	455.65	455.65	455.63	455.60	455.50	455.60	455.74	
13	455.39	455.56	455.65	455.59	455.71	455.66	455.65	455.64	455.60	455.50	455.60	455.75	
14	455.39	455.64	455.65	455.62	455.72	455.69	455.65	455.63	455.59	455.50	455.60	455.75	
15	455.38	455.65	455.70	455.59	455.69	455.73	455.64	455.63	455.59	455.50	455.60	455.75	
16	455.38	455.65	455.65	455.57	455.59	455.66	455.64	455.63	455.58	455.50	455.60	455.75	
17	455.38	455.65	455.65	455.57	455.68	455.62	455.65	455.63	455.55	455.50	455.60	455.75	
18	455.41	455.65	455.64	455.58	455.79	455.63	455.65	455.63	455.55	455.54	455.60	455.75	
19	455.46	455.65	455.63	455.60	455.78	455.63	455.64	455.63	455.55	455.56	455.59	455.75	
20	455.45	455.64	455.63	455.58	455.68	455.65	455.63	455.63	455.55	455.64	455.58	455.74	
21	455.42	455.63	455.63	455.58	455.98	455.65	455.63	455.63	455.55	455.68	455.58	455.72	
22	455.40	455.63	455.63	455.58	455.67	455.65	455.65	455.63	455.52	455.67	455.58	455.72	
23	455.39	455.63	455.62	455.58	455.65	455.64	455.65	455.63	455.53	455.62	455.61	455.64	
24	455.38	455.63	455.60	455.57	455.65	455.65	455.65	455.62	455.53	455.58	455.74	455.58	
25	455.38	455.69	455.60	455.57	455.62	455.65	455.65	455.62	455.53	455.58	455.75	455.48	
26	455.44	455.68	455.60	455.57	455.64	455.65	455.67	455.62	455.53	455.57	455.75	455.48	
27	455.69	455.65	455.65	455.56	455.60	455.65	455.65	455.62	455.53	455.56	455.75	455.48	
28	455.70	455.66	455.60	455.55	455.59	455.68	455.65	455.62	455.53	455.56	455.75	455.48	
29	455.69	455.68	455.60	455.55	455.58	455.65	455.64	455.62	455.53	455.55		455.48	
30	455.60	455.70	455.60	455.55	455.58	455.65	455.65	455.62	455.53	455.55		455.48	
31		455.78		455.55	455.57		455.65		455.53	455.55		455.48	
Mean	455.42	455.62	455.64	455.58	455.62	455.64	455.65	455.63	455.57	455.54	455.61	455.65	
Max	455.70	455.78	455.76	455.62	455.98	455.73	455.69	455.73	455.62	455.68	455.75	455.75	455.98
Min	455.35	455.55	455.60	455.55	455.50	455.60	455.63	455.62	455.52	455.50	455.55	455.48	455.35
Annual Max Momentary Gage Height	456.62	m. (MSL.) ,		at 05.00 Hours , on Aug 21, 2021									
Zero Gage at Bottom Elevation	455.10	m. (MSL.) ,		River Bed 454.98 m. (MSL.)									
Left Bank Elevation	461.80	m. (MSL.) ,											
Right Bank Elevation	461.78	m. (MSL.) ,		Drainage Are 135 Square Kilometers									



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	1.60	2.64	1.60	1.25	1.69	2.14	2.92	1.78	0.43	0.45	0.59	
2	0.46	2.64	2.05	1.53	1.25	1.60	2.41	2.05	1.69	0.43	0.45	0.59	
3	0.40	1.69	1.87	1.46	1.25	1.69	2.32	2.05	1.60	0.43	0.45	0.58	
4	0.40	1.39	1.78	1.46	1.25	1.69	2.23	2.05	0.50	0.42	0.45	0.58	
5	0.40	1.25	1.78	1.46	1.25	1.96	2.14	2.05	0.50	0.42	0.45	0.58	
6	0.40	1.32	2.05	1.46	1.25	1.87	2.05	1.96	0.50	0.42	0.45	0.58	
7	0.40	1.25	1.87	1.60	1.18	1.87	2.05	1.96	0.50	0.42	0.46	0.58	
8	0.40	1.25	1.96	1.60	1.18	1.87	2.14	1.87	0.50	0.41	0.49	0.57	
9	0.40	1.25	3.34	1.78	1.04	1.87	2.05	1.87	0.50	0.40	0.50	0.57	
10	0.40	1.25	2.23	1.69	0.97	2.14	1.96	1.87	0.50	0.40	0.50	0.59	
11	0.44	1.25	2.05	1.78	0.97	2.05	2.32	1.87	0.50	0.40	0.50	0.61	
12	0.44	1.25	2.05	1.78	0.90	2.05	2.05	1.87	0.50	0.40	0.50	0.64	
13	0.48	1.32	2.05	1.53	2.64	2.14	2.05	1.96	0.50	0.40	0.50	0.65	
14	0.48	1.96	2.05	1.78	2.78	2.41	2.05	1.87	0.49	0.40	0.50	0.65	
15	0.46	2.05	2.50	1.53	2.41	2.92	1.96	1.87	0.49	0.40	0.50	0.65	
16	0.46	2.05	2.05	1.39	1.53	2.14	1.96	1.87	0.48	0.40	0.50	0.65	
17	0.46	2.05	2.05	1.39	2.32	1.78	2.05	1.87	0.45	0.40	0.50	0.65	
18	0.54	2.05	1.96	1.46	3.76	1.87	2.05	1.87	0.45	0.44	0.50	0.65	
19	0.74	2.05	1.87	1.60	3.62	1.87	1.96	1.87	0.45	0.46	0.49	0.65	
20	0.70	1.96	1.87	1.46	2.32	2.05	1.87	1.87	0.45	0.54	0.48	0.64	
21	0.58	1.87	1.87	1.46	7.22	2.05	1.87	1.87	0.45	0.58	0.48	0.62	
22	0.50	1.87	1.87	1.46	2.23	2.05	2.05	1.87	0.42	0.57	0.48	0.62	
23	0.48	1.87	1.78	1.46	2.05	1.96	2.05	1.87	0.43	0.52	0.51	0.54	
24	0.46	1.87	1.60	1.39	2.05	2.05	2.05	1.78	0.43	0.48	0.64	0.48	
25	0.46	2.41	1.60	1.39	1.78	2.05	2.05	1.78	0.43	0.48	0.65	0.38	
26	0.66	2.32	1.60	1.39	1.96	2.05	2.23	1.78	0.43	0.47	0.65	0.38	
27	2.41	2.05	2.05	1.32	1.60	2.05	2.05	1.78	0.43	0.46	0.65	0.38	
28	2.50	2.14	1.60	1.25	1.53	2.32	2.05	1.78	0.43	0.46	0.65	0.38	
29	2.41	2.32	1.60	1.25	1.46	2.05	1.96	1.78	0.43	0.45		0.38	
30	1.60	2.50	1.60	1.25	1.46	2.05	2.05	1.78	0.43	0.45		0.38	
31		3.62		1.25	1.39		2.05		0.43	0.45		0.38	
Total	21.42	57.72	59.24	46.21	59.85	60.21	64.27	57.51	18.07	13.79	14.33	17.17	489.79 CMSDAY
Mean	0.71	1.86	1.97	1.49	1.93	2.01	2.07	1.92	0.58	0.44	0.51	0.55	1.34 CMS
Max	2.50	3.62	3.34	1.78	7.22	2.92	2.41	2.92	1.78	0.58	0.65	0.65	7.22 CMS
Min	0.40	1.25	1.60	1.25	0.90	1.60	1.87	1.78	0.42	0.40	0.45	0.38	0.38 CMS
Runoff	1.85	4.99	5.12	3.99	5.17	5.20	5.55	4.97	1.56	1.19	1.24	1.48	42.32 MCM
Momentary Peak	21.88	CMS. at 456.62 m. (MSL.) at 05.00 Hours , on Aug 21, 2021											
Runoff Yield	9.94	Liters/Second/Square KM.		Momentary Peak Yield		162.07		Liters/Second/Square KM.					

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Kuang at Ban Pong , Chiang Mai (P.81)

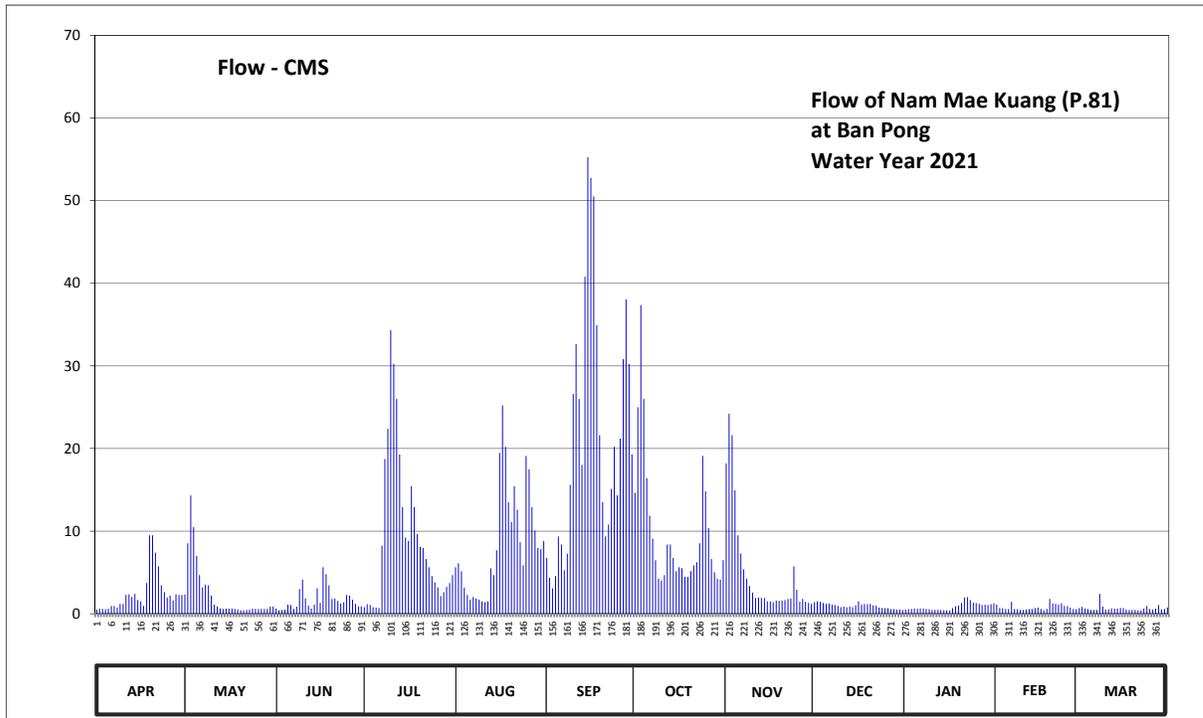
Lat 18 - 54 - 56 N Long 99 - 04 - 44 E

Location : on right bank at Ban Pong.

	<b>Ban Pong</b>	<b>Amphoe</b> San Kamphaeng	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	1,152 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+289.919 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+295.749 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2002 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2002 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2002 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.73	291.12	290.78	290.82	291.46	291.55	292.09	292.30	290.96	290.73	290.90	290.79	
2	290.77	291.68	290.71	290.91	291.50	291.35	292.65	292.61	290.98	290.75	290.80	290.83	
3	290.76	292.07	290.72	290.89	291.42	291.22	293.25	292.48	290.97	290.76	290.79	290.78	
4	290.75	291.82	290.73	290.82	291.23	291.37	292.70	292.11	290.94	290.78	290.76	290.75	
5	290.77	291.57	290.90	290.81	291.11	291.74	292.20	291.75	290.92	290.77	290.75	290.72	
6	290.86	291.38	290.89	290.80	291.02	291.67	291.91	291.59	290.93	290.78	290.97	290.72	
7	290.86	291.23	290.76	291.66	291.07	291.43	291.72	291.44	290.90	290.78	290.75	290.72	
8	290.81	291.27	290.84	292.33	291.04	291.59	291.53	291.34	290.89	290.76	290.75	291.13	
9	290.92	291.26	291.21	292.52	291.02	292.15	291.34	291.25	290.86	290.75	290.72	290.84	
10	290.92	291.10	291.33	293.11	290.98	292.73	291.32	291.15	290.82	290.72	290.72	290.73	
11	291.11	290.90	291.04	292.91	290.96	293.03	291.38	291.05	290.84	290.72	290.74	290.74	
12	291.12	290.84	290.87	292.70	290.98	292.70	291.67	291.06	290.82	290.72	290.75	290.78	
13	291.07	290.78	290.78	292.36	291.45	292.29	291.67	291.05	290.84	290.72	290.76	290.77	
14	291.13	290.76	290.90	291.98	291.38	293.40	291.55	291.05	290.82	290.71	290.80	290.78	
15	291.01	290.77	291.22	291.73	291.62	294.01	291.42	290.98	290.88	290.71	290.81	290.80	
16	290.98	290.77	290.94	291.70	292.37	293.91	291.46	290.98	290.98	290.70	290.76	290.80	
17	290.86	290.78	291.46	292.14	292.66	293.82	291.45	290.96	290.90	290.79	290.71	290.74	
18	291.29	290.76	291.39	291.98	292.41	293.14	291.36	291.00	290.92	290.85	290.76	290.72	
19	291.75	290.74	291.26	291.76	292.02	292.48	291.36	290.99	290.91	290.87	291.03	290.72	
20	291.75	290.71	291.03	291.65	291.86	292.02	291.42	291.00	290.92	290.94	290.93	290.72	
21	291.60	290.71	291.04	291.64	292.14	291.74	291.48	291.01	290.88	291.06	290.92	290.71	
22	291.47	290.72	290.99	291.54	291.96	291.84	291.51	291.03	290.87	291.07	290.90	290.71	
23	291.26	290.73	290.93	291.46	291.69	292.12	291.68	291.04	290.81	291.01	290.93	290.78	
24	291.16	290.77	290.96	291.37	291.48	292.41	292.35	291.47	290.80	290.95	290.86	290.86	
25	291.06	290.76	291.11	291.30	292.35	292.07	292.10	291.20	290.79	290.94	290.86	290.76	
26	291.10	290.76	291.10	291.23	292.26	292.46	291.81	290.97	290.79	290.92	290.81	290.73	
27	291.00	290.76	291.02	291.09	291.98	292.94	291.54	291.03	290.75	290.89	290.76	290.77	
28	291.12	290.76	290.92	291.16	291.79	293.28	291.41	290.97	290.75	290.90	290.75	290.89	
29	291.11	290.76	290.85	291.24	291.64	292.91	291.34	290.94	290.73	290.89		290.74	
30	291.11	290.84	290.85	291.29	291.63	292.36	291.33	290.92	290.73	290.91		290.76	
31		290.84		291.38	291.70		291.53		290.72	290.93		290.81	
Mean	291.07	290.99	290.98	291.62	291.62	292.39	291.73	291.29	290.86	290.83	290.81	290.78	
Max	291.75	292.07	291.46	293.11	292.66	294.01	293.25	292.61	290.98	291.07	291.03	291.13	294.01
Min	290.73	290.71	290.71	290.80	290.96	291.22	291.32	290.92	290.72	290.70	290.71	290.71	290.70
Annual Max Momentary Gage Height	294.09												
Zero Gage at Bottom Elevation	289.92						290.17						
Left Bank Elevation	296.85												
Right Bank Elevation	296.86												
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	2.34	0.64	0.78	5.62	6.75	14.64	18.20	1.40	0.49	1.10	0.67	
2	0.61	8.52	0.43	1.15	6.10	4.35	25.00	24.20	1.50	0.55	0.70	0.82	
3	0.58	14.32	0.46	1.06	5.14	3.08	37.35	21.60	1.45	0.58	0.67	0.64	
4	0.55	10.50	0.49	0.78	3.17	4.57	26.00	14.96	1.30	0.64	0.58	0.55	
5	0.61	7.01	1.10	0.74	2.27	9.36	16.40	9.50	1.20	0.61	0.55	0.46	
6	0.94	4.68	1.06	0.70	1.72	8.38	11.85	7.27	1.25	0.64	1.45	0.46	
7	0.94	3.17	0.58	8.24	2.02	5.26	9.08	5.38	1.10	0.64	0.55	0.46	
8	0.74	3.53	0.86	18.74	1.84	7.27	6.49	4.24	1.06	0.58	0.55	2.41	
9	1.20	3.44	2.99	22.40	1.72	15.60	4.24	3.35	0.94	0.55	0.46	0.86	
10	1.20	2.20	4.13	34.31	1.50	26.60	4.02	2.55	0.78	0.46	0.46	0.49	
11	2.27	1.10	1.84	30.20	1.40	32.63	4.68	1.90	0.86	0.46	0.52	0.52	
12	2.34	0.86	0.98	26.00	1.50	26.00	8.38	1.96	0.78	0.46	0.55	0.64	
13	2.02	0.64	0.64	19.28	5.50	18.02	8.38	1.90	0.86	0.46	0.58	0.61	
14	2.41	0.58	1.10	12.90	4.68	40.80	6.75	1.90	0.78	0.43	0.70	0.64	
15	1.66	0.61	3.08	9.22	7.68	55.25	5.14	1.50	1.02	0.43	0.74	0.70	
16	1.50	0.61	1.30	8.80	19.46	52.75	5.62	1.50	1.50	0.40	0.58	0.70	
17	0.94	0.64	5.62	15.44	25.20	50.50	5.50	1.40	1.10	0.67	0.43	0.52	
18	3.71	0.58	4.79	12.90	20.20	34.94	4.46	1.60	1.20	0.90	0.58	0.46	
19	9.50	0.52	3.44	9.64	13.52	21.60	4.46	1.55	1.15	0.98	1.78	0.46	
20	9.50	0.43	1.78	8.10	11.10	13.52	5.14	1.60	1.20	1.30	1.25	0.46	
21	7.40	0.43	1.84	7.96	15.44	9.36	5.86	1.66	1.02	1.96	1.20	0.43	
22	5.74	0.46	1.55	6.62	12.60	10.80	6.23	1.78	0.98	2.02	1.10	0.43	
23	3.44	0.49	1.25	5.62	8.66	15.12	8.52	1.84	0.74	1.66	1.25	0.64	
24	2.62	0.61	1.40	4.57	5.86	20.20	19.10	5.74	0.70	1.35	0.94	0.94	
25	1.96	0.58	2.27	3.80	19.10	14.32	14.80	2.90	0.67	1.30	0.94	0.58	
26	2.20	0.58	2.20	3.17	17.48	21.20	10.35	1.45	0.67	1.20	0.74	0.49	
27	1.60	0.58	1.72	2.14	12.90	30.80	6.62	1.78	0.55	1.06	0.58	0.61	
28	2.34	0.58	1.20	2.62	10.06	38.04	5.02	1.45	0.55	1.10	0.55	1.06	
29	2.27	0.58	0.90	3.26	7.96	30.20	4.24	1.30	0.49	1.06		0.52	
30	2.27	0.86	0.90	3.71	7.82	19.28	4.13	1.20	0.49	1.15		0.58	
31		0.86		4.68	8.80		6.49		0.46	1.25		0.74	
<b>Total</b>	75.55	72.89	52.54	289.53	268.02	646.55	304.94	149.16	29.75	27.34	22.08	20.55	1958.90 CMSDAY
<b>Mean</b>	2.52	2.35	1.75	9.34	8.65	21.55	9.84	4.97	0.96	0.88	0.79	0.66	5.37 CMS
<b>Max</b>	9.50	14.32	5.62	34.31	25.20	55.25	37.35	24.20	1.50	2.02	1.78	2.41	55.25 CMS
<b>Min</b>	0.49	0.43	0.43	0.70	1.40	3.08	4.02	1.20	0.46	0.40	0.43	0.43	0.40 CMS
<b>Runoff</b>	6.53	6.30	4.54	25.02	23.16	55.86	26.35	12.89	2.57	2.36	1.91	1.78	169.25 MCM
<b>Momentary Peak</b>	57.25 CMS. at 294.09 m. (MSL.) at 20.00 Hours , on Sep 14, 2021												
<b>Runoff Yield</b>	4.66 Liters/Second/Square KM.			Momentary Peak Yield				49.70 Liters/Second/Square KM.					

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Wang at Ban Sop Win , Chiang Mai (P.82)

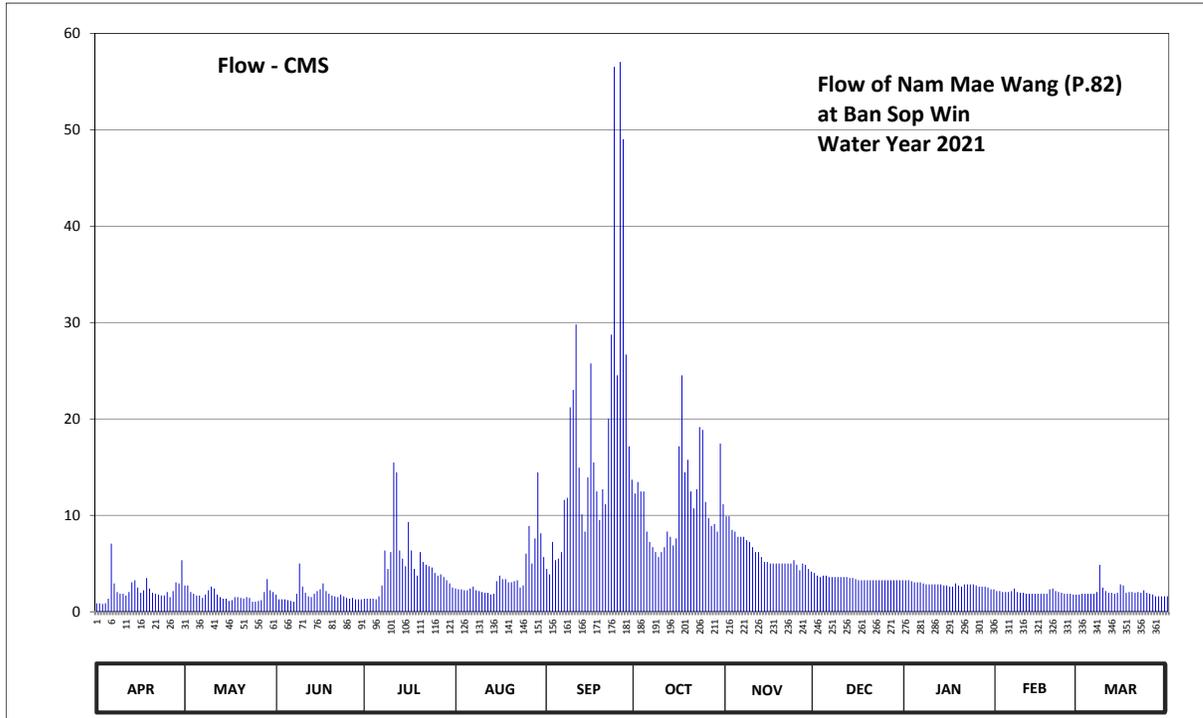
Lat 18 - 39 - 18 N Long 98 - 41 - 06 E

Location : on left bank at Ban Sop Win.

	<b>Ban Sop Win</b>	<b>Amphoe Mae Wang</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	391 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+400.196 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5.00 meters from the top staff gage.	<b>Elevation</b>	+406.756 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable by some scouring.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	400.61	400.82	400.72	400.67	400.79	400.96	401.38	401.27	400.93	400.87	400.76	400.72	
2	400.61	400.82	400.66	400.67	400.78	400.92	401.43	401.27	400.91	400.87	400.76	400.73	
3	400.60	400.75	400.66	400.67	400.78	401.13	401.39	401.20	400.90	400.86	400.75	400.73	
4	400.61	400.73	400.66	400.67	400.77	401.02	401.39	401.19	400.91	400.85	400.75	400.73	
5	400.67	400.71	400.65	400.66	400.77	401.03	401.19	401.16	400.91	400.85	400.75	400.73	
6	401.12	400.71	400.64	400.70	400.79	401.07	401.13	401.16	400.90	400.85	400.76	400.73	
7	400.84	400.68	400.63	400.82	400.81	401.35	401.10	401.16	400.90	400.84	400.79	400.75	
8	400.75	400.72	400.73	401.08	400.77	401.36	401.07	401.14	400.90	400.83	400.75	400.99	
9	400.73	400.77	401.00	400.96	400.76	401.71	401.04	401.13	400.90	400.83	400.74	400.80	
10	400.73	400.81	400.81	401.07	400.75	401.77	401.07	401.10	400.90	400.83	400.74	400.76	
11	400.71	400.79	400.74	401.51	400.74	401.98	401.10	401.07	400.90	400.83	400.73	400.74	
12	400.75	400.72	400.70	401.47	400.74	401.49	401.19	401.07	400.90	400.83	400.73	400.74	
13	400.85	400.69	400.69	401.08	400.72	401.28	401.16	401.04	400.89	400.83	400.73	400.73	
14	400.87	400.67	400.73	401.03	400.73	401.19	401.11	401.01	400.89	400.82	400.73	400.74	
15	400.80	400.67	400.76	400.98	400.86	401.45	401.15	401.01	400.88	400.82	400.73	400.83	
16	400.74	400.64	400.78	401.24	400.91	401.86	401.57	401.00	400.87	400.81	400.73	400.82	
17	400.77	400.65	400.84	401.08	400.88	401.51	401.82	401.00	400.87	400.81	400.73	400.74	
18	400.89	400.69	400.76	400.96	400.88	401.39	401.47	401.00	400.87	400.84	400.73	400.75	
19	400.79	400.69	400.73	400.91	400.85	401.25	401.52	401.00	400.87	400.82	400.78	400.75	
20	400.74	400.68	400.71	401.07	400.85	401.40	401.39	401.00	400.87	400.81	400.79	400.74	
21	400.73	400.67	400.70	401.01	400.86	401.33	401.31	401.00	400.87	400.83	400.76	400.75	
22	400.72	400.69	400.69	400.99	400.87	401.67	401.40	401.00	400.87	400.83	400.75	400.74	
23	400.71	400.68	400.72	400.98	400.80	401.95	401.64	401.00	400.87	400.83	400.74	400.77	
24	400.71	400.63	400.70	400.97	400.82	402.63	401.63	401.02	400.87	400.83	400.73	400.74	
25	400.75	400.63	400.68	400.93	401.06	401.82	401.34	400.99	400.87	400.82	400.73	400.73	
26	400.69	400.64	400.67	400.91	401.22	402.64	401.26	400.95	400.87	400.81	400.73	400.72	
27	400.76	400.65	400.68	400.92	401.00	402.47	401.22	401.00	400.87	400.81	400.72	400.70	
28	400.85	400.75	400.66	400.90	401.15	401.89	401.23	400.99	400.87	400.81	400.72	400.70	
29	400.84	400.88	400.66	400.87	401.47	401.57	401.19	400.96	400.87	400.80		400.70	
30	401.02	400.77	400.66	400.84	401.18	401.44	401.58	400.94	400.87	400.78		400.70	
31		400.75		400.80	401.04		401.33		400.87	400.78		400.70	
Mean	400.77	400.71	400.71	400.95	400.88	401.55	401.32	401.06	400.89	400.83	400.74	400.75	
Max	401.12	400.88	401.00	401.51	401.47	402.64	401.82	401.27	400.93	400.87	400.79	400.99	402.64
Min	400.60	400.63	400.63	400.66	400.72	400.92	401.04	400.94	400.87	400.78	400.72	400.70	400.60
Annual Max Momentary Gage Height	403.41		m. (MSL.) ,			at 10.00 Hours ,	on Sep 24, 2021						
Zero Gage at Bottom Elevation	400.20		m. (MSL.) ,			River Bed	399.75	m. (MSL.)					
Left Bank Elevation		407.50		m. (MSL.) ,									
Right Bank Elevation		407.59		m. (MSL.) ,		Drainage Are	391	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.88	2.72	1.78	1.36	2.41	4.44	12.26	9.90	4.02	3.27	2.14	1.78	
2	0.88	2.72	1.28	1.36	2.32	3.88	13.45	9.90	3.74	3.27	2.14	1.87	
3	0.80	2.05	1.28	1.36	2.32	7.24	12.48	8.50	3.60	3.16	2.05	1.87	
4	0.88	1.87	1.28	1.36	2.23	5.34	12.48	8.32	3.74	3.05	2.05	1.87	
5	1.36	1.69	1.20	1.28	2.23	5.51	8.32	7.78	3.74	3.05	2.05	1.87	
6	7.06	1.69	1.12	1.60	2.41	6.19	7.24	7.78	3.60	3.05	2.14	1.87	
7	2.94	1.44	1.04	2.72	2.61	11.60	6.70	7.78	3.60	2.94	2.41	2.05	
8	2.05	1.78	1.87	6.36	2.23	11.82	6.19	7.42	3.60	2.83	2.05	4.86	
9	1.87	2.23	5.00	4.44	2.14	21.20	5.68	7.24	3.60	2.83	1.96	2.50	
10	1.87	2.61	2.61	6.19	2.05	23.00	6.19	6.70	3.60	2.83	1.96	2.14	
11	1.69	2.41	1.96	15.48	1.96	29.80	6.70	6.19	3.60	2.83	1.87	1.96	
12	2.05	1.78	1.60	14.45	1.96	14.95	8.32	6.19	3.60	2.83	1.87	1.96	
13	3.05	1.52	1.52	6.36	1.78	10.10	7.78	5.68	3.49	2.83	1.87	1.87	
14	3.27	1.36	1.87	5.51	1.87	8.32	6.88	5.17	3.49	2.72	1.87	1.96	
15	2.50	1.36	2.14	4.72	3.16	13.95	7.60	5.17	3.38	2.72	1.87	2.83	
16	1.96	1.12	2.32	9.30	3.74	25.76	17.16	5.00	3.27	2.61	1.87	2.72	
17	2.23	1.20	2.94	6.36	3.38	15.48	24.52	5.00	3.27	2.61	1.87	1.96	
18	3.49	1.52	2.14	4.44	3.38	12.48	14.45	5.00	3.27	2.94	1.87	2.05	
19	2.41	1.52	1.87	3.74	3.05	9.50	15.76	5.00	3.27	2.72	2.32	2.05	
20	1.96	1.44	1.69	6.19	3.05	12.70	12.48	5.00	3.27	2.61	2.41	1.96	
21	1.87	1.36	1.60	5.17	3.16	11.16	10.72	5.00	3.27	2.83	2.14	2.05	
22	1.78	1.52	1.52	4.86	3.27	20.03	12.70	5.00	3.27	2.83	2.05	1.96	
23	1.69	1.44	1.78	4.72	2.50	28.75	19.16	5.00	3.27	2.83	1.96	2.23	
24	1.69	1.04	1.60	4.58	2.72	56.53	18.87	5.34	3.27	2.83	1.87	1.96	
25	2.05	1.04	1.44	4.02	6.02	24.52	11.38	4.86	3.27	2.72	1.87	1.87	
26	1.52	1.12	1.36	3.74	8.90	57.04	9.70	4.30	3.27	2.61	1.87	1.78	
27	2.14	1.20	1.44	3.88	5.00	49.02	8.90	5.00	3.27	2.61	1.78	1.60	
28	3.05	2.05	1.28	3.60	7.60	26.69	9.10	4.86	3.27	2.61	1.78	1.60	
29	2.94	3.38	1.28	3.27	14.45	17.16	8.32	4.44	3.27	2.50		1.60	
30	5.34	2.23	1.28	2.94	8.14	13.70	17.44	4.16	3.27	2.32		1.60	
31		2.05		2.50	5.68		11.16		3.27	2.32		1.60	
Total	69.27	54.46	53.09	147.86	117.72	557.86	350.09	182.68	106.72	86.71	55.96	63.85	1846.27 CMSDAY
Mean	2.31	1.76	1.77	4.77	3.80	18.60	11.29	6.09	3.44	2.80	2.00	2.06	5.06 CMS
Max	7.06	3.38	5.00	15.48	14.45	57.04	24.52	9.90	4.02	3.27	2.41	4.86	57.04 CMS
Min	0.80	1.04	1.04	1.28	1.78	3.88	5.68	4.16	3.27	2.32	1.78	1.60	0.80 CMS
Runoff	5.98	4.71	4.59	12.78	10.17	48.20	30.25	15.78	9.22	7.49	4.83	5.52	159.52 MCM
Momentary Peak		99.82	CMS. at 403.41 m. (MSL.) at 10.00 Hours , on Sep 24, 2021										
Runoff Yield		12.94	Liters/Second/Square KM.		Momentary Peak Yield	255.29	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Wang at Ban Phan Ton , Chiang Mai (P.84)

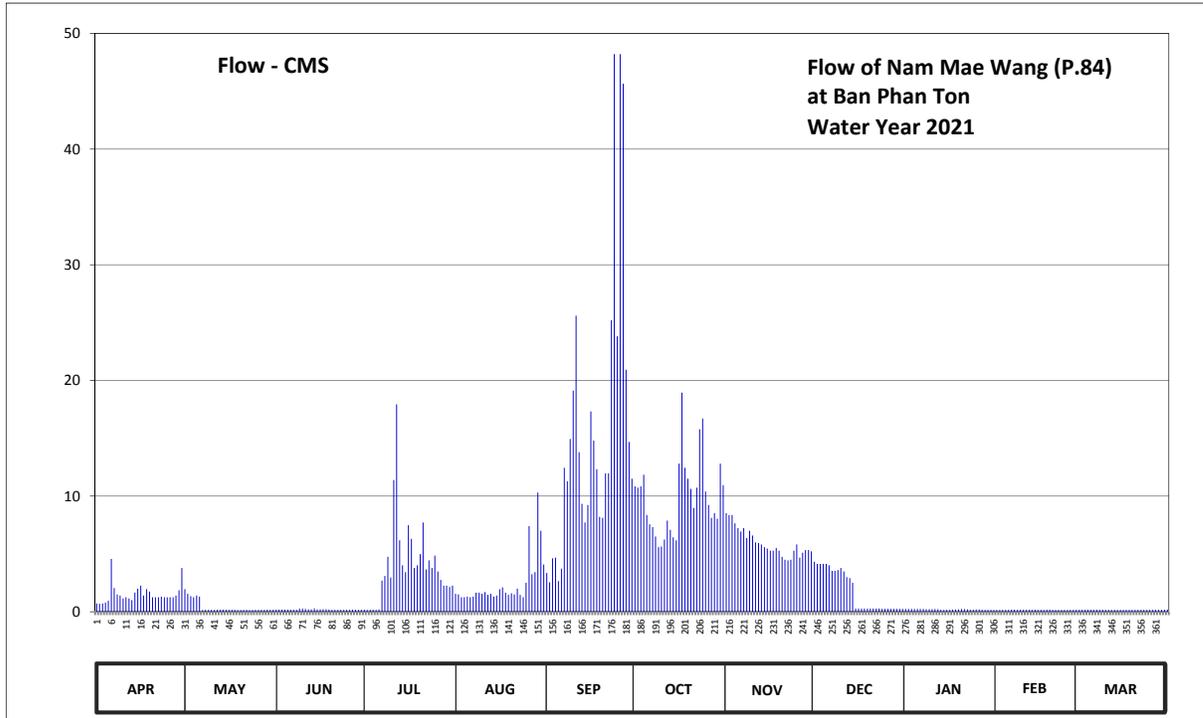
Lat 18 - 35 - 29 N Long 98 - 47 - 48 E

Location : on left bank at Ban Phan Ton.

	<b>Ban</b>	<b>Phan Ton</b>	<b>Amphoe</b>	<b>Mae Wang</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	455	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+303.244 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+309.244 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2003 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2003 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2003 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	303.28	303.53	303.46	303.46	303.45	303.81	304.83	304.59	303.97	303.59	303.44	303.44	
2	303.27	303.45	303.45	303.44	303.44	303.65	304.82	304.57	303.94	303.59	303.44	303.44	
3	303.28	303.41	303.45	303.46	303.39	304.02	304.83	304.57	303.94	303.59	303.44	303.44	
4	303.30	303.39	303.46	303.46	303.39	304.03	304.92	304.48	303.94	303.59	303.44	303.44	
5	303.33	303.42	303.44	303.44	303.40	303.67	304.57	304.43	303.94	303.59	303.44	303.44	
6	304.01	303.40	303.43	303.50	303.39	303.87	304.47	304.39	303.92	303.59	303.48	303.44	
7	303.55	303.39	303.44	303.68	303.40	304.97	304.44	304.43	303.84	303.58	303.46	303.44	
8	303.44	303.41	303.44	303.76	303.47	304.87	304.33	304.31	303.84	303.54	303.44	303.44	
9	303.42	303.44	303.65	304.04	303.47	305.17	304.18	304.40	303.85	303.54	303.44	303.44	
10	303.37	303.40	303.63	303.73	303.45	305.44	304.19	304.34	303.88	303.54	303.44	303.44	
11	303.39	303.40	303.57	304.88	303.48	305.78	304.29	304.25	303.83	303.56	303.44	303.44	
12	303.37	303.44	303.50	305.37	303.43	305.08	304.51	304.24	303.74	303.54	303.44	303.44	
13	303.34	303.44	303.52	304.28	303.45	304.68	304.41	304.22	303.72	303.44	303.44	303.44	
14	303.47	303.45	303.67	303.92	303.40	304.49	304.32	304.18	303.64	303.44	303.45	303.44	
15	303.54	303.43	303.50	303.82	303.42	304.67	304.28	304.16	303.64	303.44	303.44	303.44	
16	303.59	303.43	303.52	304.46	303.53	305.33	305.00	304.13	303.64	303.44	303.44	303.44	
17	303.42	303.41	303.54	304.30	303.56	305.16	305.43	304.13	303.64	303.45	303.44	303.44	
18	303.53	303.44	303.54	303.88	303.47	304.96	304.97	304.17	303.64	303.47	303.45	303.44	
19	303.49	303.40	303.48	303.92	303.43	304.55	304.89	304.13	303.64	303.50	303.47	303.44	
20	303.39	303.40	303.42	304.08	303.46	304.54	304.81	304.04	303.64	303.55	303.44	303.44	
21	303.39	303.43	303.41	304.49	303.44	304.93	304.64	304.00	303.64	303.55	303.44	303.44	
22	303.39	303.43	303.44	303.86	303.54	304.93	304.82	303.99	303.64	303.51	303.44	303.44	
23	303.40	303.40	303.44	303.99	303.43	305.76	305.23	304.00	303.63	303.45	303.44	303.44	
24	303.39	303.44	303.44	303.88	303.39	306.57	305.29	304.13	303.59	303.46	303.44	303.44	
25	303.39	303.44	303.44	304.06	303.64	305.69	304.79	304.22	303.59	303.49	303.44	303.44	
26	303.39	303.44	303.44	303.83	304.45	306.57	304.67	304.03	303.59	303.49	303.44	303.44	
27	303.39	303.44	303.45	303.69	303.79	306.50	304.54	304.10	303.59	303.45	303.44	303.44	
28	303.42	303.44	303.42	303.59	303.82	305.54	304.59	304.14	303.59	303.44	303.44	303.44	
29	303.51	303.46	303.42	303.59	304.78	305.15	304.53	304.14	303.59	303.44	303.44	303.44	
30	303.88	303.44	303.45	303.57	304.40	304.89	305.00	304.12	303.59	303.44	303.44	303.44	
31		303.44		303.59	303.93		304.84		303.59	303.44		303.45	
Mean	303.44	303.43	303.48	303.90	303.60	304.98	304.69	304.23	303.72	303.51	303.44	303.44	
Max	304.01	303.53	303.67	305.37	304.78	306.57	305.43	304.59	303.97	303.59	303.48	303.45	306.57
Min	303.27	303.39	303.41	303.44	303.39	303.65	304.18	303.99	303.59	303.44	303.44	303.44	303.27
Annual Max Momentary Gage Height	307.37		m. (MSL.) ,			at 15.00 Hours ,	on Sep 24, 2021						
Zero Gage at Bottom Elevation	303.24		m. (MSL.) ,			River Bed	302.55	m. (MSL.)					
Left Bank Elevation		309.08		m. (MSL.) ,									
Right Bank Elevation		309.07		m. (MSL.) ,		Drainage Are	455	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	1.95	0.18	0.18	1.55	3.36	10.83	8.52	4.32	0.25	0.17	0.17	
2	0.68	1.55	0.18	0.17	1.50	2.55	10.72	8.36	4.14	0.25	0.17	0.17	
3	0.72	1.35	0.18	0.18	1.25	4.62	10.83	8.36	4.14	0.25	0.17	0.17	
4	0.80	1.25	0.18	0.18	1.25	4.68	11.84	7.64	4.14	0.25	0.17	0.17	
5	0.95	1.40	0.17	0.17	1.30	2.65	8.36	7.24	4.14	0.25	0.17	0.17	
6	4.56	1.30	0.17	0.20	1.25	3.72	7.56	6.93	4.02	0.25	0.19	0.17	
7	2.05	0.15	0.17	2.70	1.30	12.44	7.32	7.24	3.54	0.24	0.18	0.17	
8	1.50	0.16	0.17	3.10	1.65	11.27	6.51	6.37	3.54	0.22	0.17	0.17	
9	1.40	0.17	0.28	4.74	1.65	14.93	5.58	7.00	3.60	0.22	0.17	0.17	
10	1.15	0.15	0.27	2.95	1.55	19.12	5.64	6.58	3.78	0.22	0.17	0.17	
11	1.25	0.15	0.24	11.38	1.70	25.60	6.24	6.00	3.48	0.23	0.17	0.17	
12	1.15	0.17	0.20	17.94	1.45	13.80	7.88	5.94	3.00	0.22	0.17	0.17	
13	1.00	0.17	0.21	6.18	1.55	9.32	7.08	5.82	2.90	0.17	0.17	0.17	
14	1.65	0.18	0.29	4.02	1.30	7.72	6.44	5.58	2.50	0.17	0.18	0.17	
15	2.00	0.17	0.20	3.42	1.40	9.23	6.18	5.46	0.27	0.17	0.17	0.17	
16	2.25	0.17	0.21	7.48	1.95	17.32	12.80	5.28	0.27	0.17	0.17	0.17	
17	1.40	0.16	0.22	6.30	2.10	14.80	18.94	5.28	0.27	0.18	0.17	0.17	
18	1.95	0.17	0.22	3.78	1.65	12.32	12.44	5.52	0.27	0.19	0.18	0.17	
19	1.75	0.15	0.19	4.02	1.45	8.20	11.49	5.28	0.27	0.20	0.19	0.17	
20	1.25	0.15	0.16	4.98	1.60	8.12	10.61	4.74	0.27	0.23	0.17	0.17	
21	1.25	0.17	0.16	7.72	1.50	11.96	8.96	4.50	0.27	0.23	0.17	0.17	
22	1.25	0.17	0.17	3.66	2.00	11.96	10.72	4.44	0.27	0.21	0.17	0.17	
23	1.30	0.15	0.17	4.44	1.45	25.20	15.77	4.50	0.27	0.18	0.17	0.17	
24	1.25	0.17	0.17	3.78	1.25	48.21	16.70	5.28	0.25	0.18	0.17	0.17	
25	1.25	0.17	0.17	4.86	2.50	23.80	10.40	5.82	0.25	0.20	0.17	0.17	
26	1.25	0.17	0.17	3.48	7.40	48.21	9.23	4.68	0.25	0.20	0.17	0.17	
27	1.25	0.17	0.18	2.75	3.25	45.65	8.12	5.10	0.25	0.18	0.17	0.17	
28	1.40	0.17	0.16	2.25	3.42	20.92	8.52	5.34	0.25	0.17	0.17	0.17	
29	1.85	0.18	0.16	2.25	10.30	14.68	8.04	5.34	0.25	0.17	0.17	0.17	
30	3.78	0.17	0.18	2.15	7.00	11.49	12.80	5.22	0.25	0.17	0.17	0.17	
31		0.17		2.25	4.08		10.94		0.25	0.17		0.18	
Total	46.01	12.93	5.78	123.66	74.55	467.85	305.49	179.36	55.67	6.39	4.83	5.28	1287.80 CMSDAY
Mean	1.53	0.42	0.19	3.99	2.40	15.59	9.85	5.98	1.80	0.21	0.17	0.17	3.53 CMS
Max	4.56	1.95	0.29	17.94	10.30	48.21	18.94	8.52	4.32	0.25	0.19	0.18	48.21 CMS
Min	0.68	0.15	0.16	0.17	1.25	2.55	5.58	4.44	0.25	0.17	0.17	0.17	0.15 CMS
Runoff	3.98	1.12	0.50	10.68	6.44	40.42	26.39	15.50	4.81	0.55	0.42	0.46	111.27 MCM
Momentary Peak	91.33	CMS. at 307.37 m. (MSL.) at 15.00 Hours , on Sep 24, 2021											
Runoff Yield	7.75	Liters/Second/Square KM.		Momentary Peak Yield				200.73	Liters/Second/Square KM.				

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Li at Ban Lai Khaeo , Lamphun (P.85)

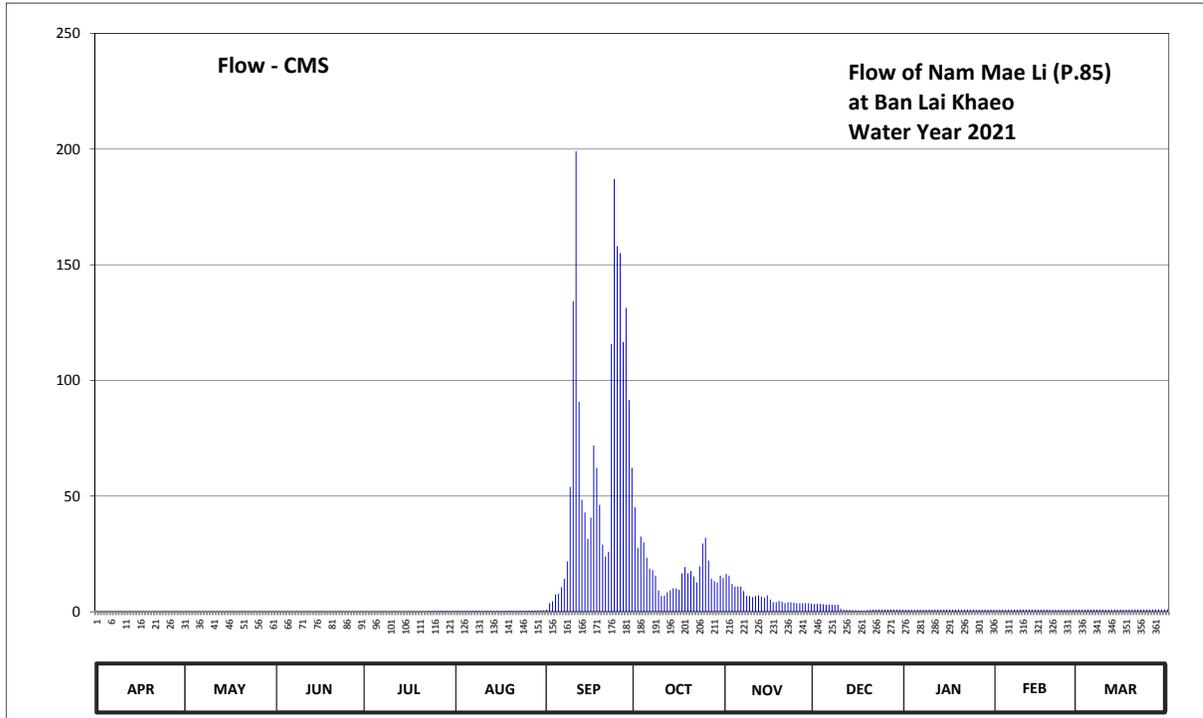
Lat 18 - 21 - 59 N Long 98 - 46 - 20 E

Location : on right bank at Ban Lai Khaeo.

	<b>Ban</b> Lai Khaeo	<b>Amphoe</b> Ban Hong	<b>Changwat</b> Lamphun
<b>Drainage Area</b>	2,036 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+290.368 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+295.123 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	288.89	288.93	288.92	288.87	289.12	289.74	291.12	290.49	289.99	289.95	289.95	289.96	
2	288.89	288.93	288.92	288.87	289.11	290.01	290.78	290.47	289.99	289.95	289.95	289.97	
3	288.89	288.92	288.92	288.86	289.11	290.05	290.88	290.36	289.99	289.94	289.94	289.97	
4	288.89	288.91	288.92	288.85	289.10	290.20	290.83	290.32	289.98	289.93	289.94	289.97	
5	288.89	288.92	288.92	288.85	289.11	290.21	290.68	290.32	289.97	289.93	289.94	289.97	
6	288.89	288.92	288.92	288.85	289.11	290.31	290.56	290.32	289.97	289.93	289.93	289.97	
7	288.89	288.92	288.92	288.85	289.11	290.43	290.54	290.25	289.97	289.93	289.93	289.97	
8	288.89	288.92	288.92	288.87	289.11	290.64	290.47	290.17	289.97	289.93	289.93	289.97	
9	288.89	288.92	288.92	288.88	289.12	291.27	290.26	290.16	289.97	289.93	289.93	289.97	
10	288.89	288.92	288.92	288.89	289.14	292.28	290.17	290.14	289.83	289.93	289.93	289.97	
11	288.89	288.92	288.92	288.89	289.11	292.91	290.17	290.17	289.60	289.93	289.93	289.99	
12	288.89	288.92	288.92	288.89	289.11	291.79	290.23	290.18	289.59	289.93	289.93	290.01	
13	288.89	288.92	288.92	288.89	289.11	291.18	290.26	290.15	289.61	289.93	289.94	290.01	
14	288.89	288.92	288.92	288.88	289.15	291.08	290.29	290.13	289.58	289.93	289.95	290.01	
15	288.89	288.92	288.92	288.91	289.15	290.86	290.29	290.18	289.48	289.93	289.95	290.00	
16	288.89	288.92	288.92	288.91	289.17	291.04	290.27	290.09	289.37	289.93	289.95	289.95	
17	288.89	288.92	288.92	288.91	289.17	291.54	290.50	290.03	289.33	289.93	289.95	289.98	
18	288.92	288.92	288.92	288.93	289.19	291.40	290.58	290.03	289.36	289.93	289.95	290.03	
19	288.89	288.92	288.92	288.93	289.19	291.14	290.50	290.06	289.72	289.93	289.95	290.03	
20	288.84	288.92	288.92	288.93	289.19	290.81	290.53	290.04	289.91	289.93	289.95	290.03	
21	288.91	288.92	288.92	288.93	289.19	290.69	290.46	290.01	289.93	289.93	289.95	290.03	
22	288.91	288.92	288.92	288.95	289.19	290.74	290.38	290.03	289.95	289.93	289.95	290.02	
23	288.91	288.92	288.92	289.09	289.21	292.08	290.59	290.03	289.95	289.93	289.95	290.02	
24	288.91	288.92	288.92	289.16	289.23	292.80	290.82	290.02	289.95	289.93	289.95	290.02	
25	288.92	288.92	288.92	289.15	289.26	292.52	290.87	290.01	289.94	289.93	289.95	290.02	
26	288.91	288.92	288.92	289.13	289.26	292.49	290.65	290.01	289.93	289.93	289.95	290.02	
27	288.92	288.92	288.91	289.13	289.36	292.09	290.43	290.01	289.93	289.93	289.95	290.02	
28	288.92	288.92	288.87	289.13	289.38	292.25	290.40	290.01	289.93	289.93	289.95	290.01	
29	288.93	288.92	288.84	289.12	289.38	291.80	290.38	290.01	289.93	289.93		290.01	
30	288.93	288.92	288.85	289.12	289.42	291.40	290.47	290.00	289.93	289.93		290.01	
31		288.92		289.12	289.48		290.44		289.93	289.93		290.01	
Mean	288.90	288.92	288.91	288.96	289.19	291.26	290.51	290.14	289.82	289.93	289.94	290.00	
Max	288.93	288.93	288.92	289.16	289.48	292.91	291.12	290.49	289.99	289.95	289.95	290.03	292.91
Min	288.84	288.91	288.84	288.85	289.10	289.74	290.17	290.00	289.33	289.93	289.93	289.95	288.84
Annual Max Momentary Gage Height	293.27		m. (MSL.) ,			at 06.00 Hours ,		on Sep 11, 2021					
Zero Gage at Bottom Elevation	290.37		m. (MSL.) ,			River Bed	287.75	m. (MSL.)					
Left Bank Elevation	295.39		m. (MSL.) ,										
Right Bank Elevation	295.21		m. (MSL.) ,			Drainage Are	2,036	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.13	0.12	0.09	0.32	0.94	45.10	16.26	3.35	0.95	0.95	0.96	
2	0.10	0.13	0.12	0.09	0.31	3.70	27.65	15.58	3.35	0.95	0.95	0.97	
3	0.10	0.12	0.12	0.08	0.31	4.50	32.50	12.06	3.35	0.94	0.94	0.97	
4	0.10	0.11	0.12	0.08	0.30	7.50	30.00	10.92	3.20	0.93	0.94	0.97	
5	0.10	0.12	0.12	0.08	0.31	7.79	23.40	10.92	3.05	0.93	0.94	0.97	
6	0.10	0.12	0.12	0.08	0.31	10.64	18.64	10.92	3.05	0.93	0.93	0.97	
7	0.10	0.12	0.12	0.08	0.31	14.22	17.96	8.93	3.05	0.93	0.93	0.97	
8	0.10	0.12	0.12	0.09	0.31	21.70	15.58	6.90	3.05	0.93	0.93	0.97	
9	0.10	0.12	0.12	0.09	0.32	53.95	9.21	6.70	3.05	0.93	0.93	0.97	
10	0.10	0.12	0.12	0.10	0.34	134.30	6.90	6.30	1.30	0.93	0.93	0.97	
11	0.10	0.12	0.12	0.10	0.31	199.10	6.90	6.90	0.80	0.93	0.93	0.99	
12	0.10	0.12	0.12	0.10	0.31	90.73	8.36	7.10	0.79	0.93	0.93	1.01	
13	0.10	0.12	0.12	0.10	0.31	48.40	9.21	6.50	0.81	0.93	0.94	1.01	
14	0.10	0.12	0.12	0.09	0.35	42.90	10.07	6.10	0.78	0.93	0.95	1.01	
15	0.10	0.12	0.12	0.11	0.35	31.50	10.07	7.10	0.68	0.93	0.95	1.00	
16	0.10	0.12	0.12	0.11	0.37	40.70	9.50	5.30	0.57	0.93	0.95	0.95	
17	0.10	0.12	0.12	0.11	0.37	71.86	16.60	4.10	0.53	0.93	0.95	0.98	
18	0.12	0.12	0.12	0.13	0.39	62.20	19.32	4.10	0.36	0.93	0.95	1.03	
19	0.10	0.12	0.12	0.13	0.39	46.20	16.60	4.70	0.72	0.93	0.95	1.03	
20	0.07	0.12	0.12	0.13	0.39	29.00	17.62	4.30	0.91	0.93	0.95	1.03	
21	0.11	0.12	0.12	0.13	0.39	23.83	15.24	3.70	0.93	0.93	0.95	1.03	
22	0.11	0.12	0.12	0.15	0.39	25.95	12.63	4.10	0.95	0.93	0.95	1.02	
23	0.11	0.12	0.12	0.29	0.41	115.70	19.66	4.10	0.95	0.93	0.95	1.02	
24	0.11	0.12	0.12	0.36	0.43	187.00	29.50	3.90	0.95	0.93	0.95	1.02	
25	0.12	0.12	0.12	0.35	0.46	158.00	32.00	3.70	0.94	0.93	0.95	1.02	
26	0.11	0.12	0.12	0.33	0.46	155.00	22.13	3.70	0.93	0.93	0.95	1.02	
27	0.12	0.12	0.11	0.33	0.56	116.60	14.22	3.70	0.93	0.93	0.95	1.02	
28	0.12	0.12	0.09	0.33	0.58	131.37	13.20	3.70	0.93	0.93	0.95	1.01	
29	0.13	0.12	0.07	0.32	0.58	91.50	12.63	3.70	0.93	0.93		1.01	
30	0.13	0.12	0.08	0.32	0.62	62.20	15.58	3.50	0.93	0.93		1.01	
31		0.12		0.32	0.68		14.56		0.93	0.93		1.01	
<b>Total</b>	3.16	3.73	3.47	5.20	12.24	1988.98	552.54	199.49	47.05	28.88	26.42	30.92	2902.08 CMSDAY
<b>Mean</b>	0.11	0.12	0.12	0.17	0.39	66.30	17.82	6.65	1.52	0.93	0.94	1.00	7.95 CMS
<b>Max</b>	0.13	0.13	0.12	0.36	0.68	199.10	45.10	16.26	3.35	0.95	0.95	1.03	199.10 CMS
<b>Min</b>	0.07	0.11	0.07	0.08	0.30	0.94	6.90	3.50	0.36	0.93	0.93	0.95	0.07 CMS
<b>Runoff</b>	0.27	0.32	0.30	0.45	1.06	171.85	47.74	17.24	4.07	2.50	2.28	2.67	250.74 MCM
<b>Momentary Peak</b>	240.05 CMS. at 293.27 m. (MSL.) at 06.00 Hours , on Sep 11, 2021												
<b>Runoff Yield</b>	3.91 Liters/Second/Square KM.			Momentary Peak Yield			117.90 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae On at Ban Hong , Chiang Mai (P.86)

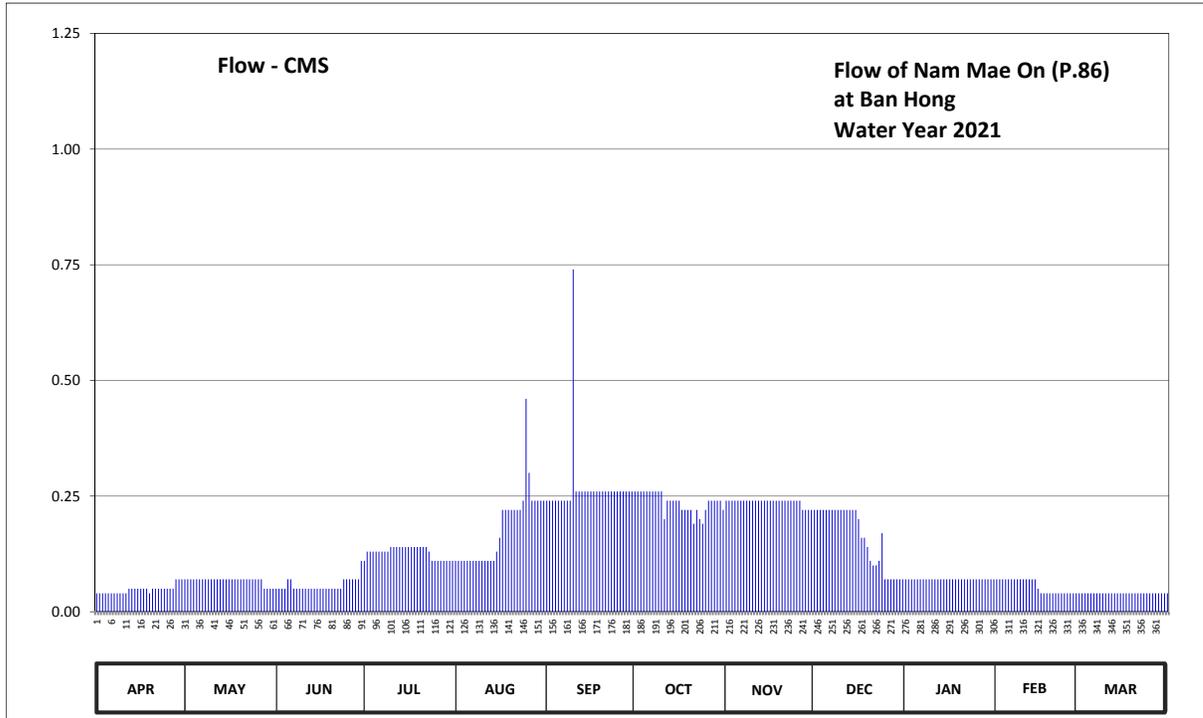
Lat 18 - 44 - 23 N Long 99 - 13 - 07 E

Location : on left bank at Ban Hong.

	<b>Ban Hong</b>	<b>Amphoe</b> San Kamphaeng	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	100	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+341.205 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+345.535 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

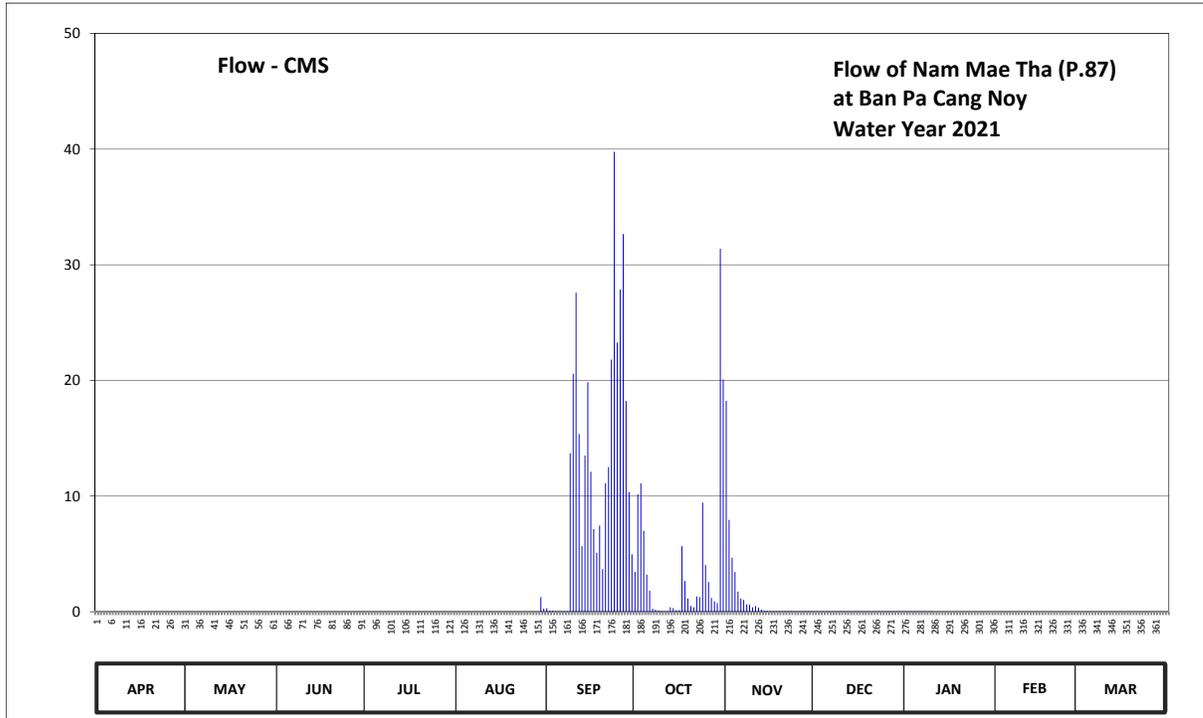
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	340.98	341.01	341.00	341.04	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
2	340.98	341.01	341.00	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
3	340.98	341.01	341.00	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
4	340.98	341.01	341.00	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
5	340.98	341.01	341.01	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
6	340.98	341.01	341.01	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
7	340.98	341.01	341.00	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
8	340.98	341.01	341.00	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
9	340.98	341.01	341.00	341.05	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	
10	340.98	341.01	341.00	341.06	341.04	341.31	341.13	341.12	341.11	341.01	341.01	340.97	
11	340.98	341.01	341.00	341.06	341.04	341.13	341.10	341.12	341.11	341.01	341.01	340.97	
12	341.00	341.01	341.00	341.06	341.04	341.13	341.12	341.12	341.11	341.01	341.01	340.97	
13	341.00	341.01	341.00	341.06	341.04	341.13	341.12	341.12	341.11	341.01	341.01	340.97	
14	341.00	341.01	341.00	341.06	341.04	341.13	341.12	341.12	341.11	341.01	341.01	340.97	
15	341.00	341.01	341.00	341.06	341.05	341.13	341.12	341.12	341.11	341.01	341.00	340.97	
16	341.00	341.01	341.00	341.06	341.07	341.13	341.12	341.12	341.10	341.01	340.97	340.97	
17	341.00	341.01	341.00	341.06	341.11	341.13	341.11	341.12	341.07	341.01	340.97	340.97	
18	340.99	341.01	341.00	341.06	341.11	341.13	341.11	341.12	341.07	341.01	340.97	340.97	
19	340.98	341.01	341.00	341.06	341.11	341.13	341.11	341.12	341.06	341.01	340.97	340.97	
20	340.99	341.01	341.00	341.06	341.11	341.13	341.11	341.12	341.04	341.01	340.97	340.97	
21	341.00	341.01	341.00	341.06	341.11	341.13	341.09	341.12	341.03	341.01	340.97	340.97	
22	341.00	341.01	340.99	341.06	341.11	341.13	341.11	341.12	341.03	341.01	340.97	340.97	
23	341.00	341.01	341.00	341.05	341.11	341.13	341.10	341.12	341.04	341.01	340.97	340.97	
24	341.00	341.01	341.01	341.04	341.12	341.13	341.09	341.12	341.08	341.01	340.97	340.97	
25	341.00	341.01	341.01	341.04	341.22	341.13	341.11	341.12	341.01	341.01	340.97	340.97	
26	341.00	341.01	341.01	341.04	341.15	341.13	341.12	341.12	341.01	341.01	340.97	340.97	
27	341.00	341.01	341.01	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	340.97	
28	341.01	341.00	341.01	341.04	341.12	341.13	341.12	341.11	341.01	341.01	340.97	340.97	
29	341.01	341.00	341.01	341.04	341.12	341.13	341.12	341.11	341.01	341.01		340.97	
30	341.01	341.00	341.04	341.04	341.12	341.13	341.12	341.11	341.01	341.01		340.97	
31		341.00		341.04	341.12		341.11		341.01	341.01		340.97	
Mean	340.99	341.01	341.00	341.05	341.08	341.13	341.12	341.12	341.07	341.01	340.99	340.97	
Max	341.01	341.01	341.04	341.06	341.22	341.31	341.13	341.12	341.11	341.01	341.01	340.97	341.31
Min	340.98	341.00	340.99	341.04	341.04	341.12	341.09	341.11	341.01	341.01	340.97	340.97	340.97
Annual Max Momentary Gage Height	341.66		m. (MSL.) ,				at 09.00 Hours , on Sep 10, 2021						
Zero Gage at Bottom Elevation	341.20		m. (MSL.) ,			River Bed	340.59		m. (MSL.)				
Left Bank Elevation		345.47		m. (MSL.) ,									
Right Bank Elevation		345.43		m. (MSL.) ,		Drainage Are	100		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.07	0.05	0.11	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
2	0.04	0.07	0.05	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
3	0.04	0.07	0.05	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
4	0.04	0.07	0.05	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
5	0.04	0.07	0.07	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
6	0.04	0.07	0.07	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
7	0.04	0.07	0.05	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
8	0.04	0.07	0.05	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
9	0.04	0.07	0.05	0.13	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	
10	0.04	0.07	0.05	0.14	0.11	0.74	0.26	0.24	0.22	0.07	0.07	0.04	
11	0.04	0.07	0.05	0.14	0.11	0.26	0.20	0.24	0.22	0.07	0.07	0.04	
12	0.05	0.07	0.05	0.14	0.11	0.26	0.24	0.24	0.22	0.07	0.07	0.04	
13	0.05	0.07	0.05	0.14	0.11	0.26	0.24	0.24	0.22	0.07	0.07	0.04	
14	0.05	0.07	0.05	0.14	0.11	0.26	0.24	0.24	0.22	0.07	0.07	0.04	
15	0.05	0.07	0.05	0.14	0.13	0.26	0.24	0.24	0.22	0.07	0.05	0.04	
16	0.05	0.07	0.05	0.14	0.16	0.26	0.24	0.24	0.20	0.07	0.04	0.04	
17	0.05	0.07	0.05	0.14	0.22	0.26	0.22	0.24	0.16	0.07	0.04	0.04	
18	0.05	0.07	0.05	0.14	0.22	0.26	0.22	0.24	0.16	0.07	0.04	0.04	
19	0.04	0.07	0.05	0.14	0.22	0.26	0.22	0.24	0.14	0.07	0.04	0.04	
20	0.05	0.07	0.05	0.14	0.22	0.26	0.22	0.24	0.11	0.07	0.04	0.04	
21	0.05	0.07	0.05	0.14	0.22	0.26	0.19	0.24	0.10	0.07	0.04	0.04	
22	0.05	0.07	0.05	0.14	0.22	0.26	0.22	0.24	0.10	0.07	0.04	0.04	
23	0.05	0.07	0.05	0.13	0.22	0.26	0.20	0.24	0.11	0.07	0.04	0.04	
24	0.05	0.07	0.07	0.11	0.24	0.26	0.19	0.24	0.17	0.07	0.04	0.04	
25	0.05	0.07	0.07	0.11	0.46	0.26	0.22	0.24	0.07	0.07	0.04	0.04	
26	0.05	0.07	0.07	0.11	0.30	0.26	0.24	0.24	0.07	0.07	0.04	0.04	
27	0.05	0.07	0.07	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	0.04	
28	0.07	0.05	0.07	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	0.04	
29	0.07	0.05	0.07	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	0.04	
30	0.07	0.05	0.11	0.11	0.24	0.26	0.24	0.22	0.07	0.07	0.04	0.04	
31		0.05		0.11	0.24		0.22		0.07	0.07		0.04	
Total	1.44	2.09	1.72	3.98	5.57	8.10	7.32	7.12	5.04	2.17	1.55	1.24	47.34 CMSDAY
Mean	0.05	0.07	0.06	0.13	0.18	0.27	0.24	0.24	0.16	0.07	0.06	0.04	0.13 CMS
Max	0.07	0.07	0.11	0.14	0.46	0.74	0.26	0.24	0.22	0.07	0.07	0.04	0.74 CMS
Min	0.04	0.05	0.05	0.11	0.11	0.24	0.19	0.22	0.07	0.07	0.04	0.04	0.04 CMS
Runoff	0.12	0.18	0.15	0.34	0.48	0.70	0.63	0.62	0.44	0.19	0.13	0.11	4.09 MCM
Momentary Peak	2.46	CMS. at 341.66 m. (MSL.) at 09.00 Hours , on Sep 10, 2021											
Runoff Yield	1.30	Liters/Second/Square KM. Momentary Peak Yield 24.60 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.30	3.44	18.22	0.04	0.04	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.09	10.16	7.94	0.04	0.04	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.10	11.10	4.68	0.04	0.04	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.06	7.00	3.44	0.04	0.04	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.06	3.20	1.74	0.04	0.04	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.06	1.82	1.14	0.04	0.04	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.06	0.26	1.02	0.04	0.04	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.06	0.18	0.65	0.04	0.04	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	13.70	0.11	0.60	0.04	0.04	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	20.57	0.08	0.38	0.04	0.04	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	27.58	0.06	0.50	0.04	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	15.36	0.07	0.36	0.04	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	5.66	0.38	0.19	0.04	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	13.50	0.32	0.09	0.04	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	19.84	0.13	0.08	0.04	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	12.10	0.13	0.07	0.04	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	7.15	5.66	0.07	0.04	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	5.10	2.66	0.07	0.04	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	7.46	1.14	0.07	0.04	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	3.68	0.50	0.07	0.04	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	11.10	0.38	0.07	0.04	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	12.50	1.32	0.07	0.04	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	21.80	1.26	0.07	0.04	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	39.76	9.44	0.06	0.04	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	23.27	4.04	0.06	0.04	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	27.85	2.57	0.05	0.04	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	32.65	1.20	0.05	0.04	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	18.22	0.90	0.05	0.04	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	10.34	0.75	0.05	0.04	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	1.26	4.96	31.39	0.05	0.04	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.26		20.08		0.04	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	1.52	354.94	121.73	41.96	1.24	0.40	0.00	0.00	521.79 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.05	11.83	3.93	1.40	0.04	0.01	0.00	0.00	1.43 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	1.26	39.76	31.39	18.22	0.04	0.04	0.00	0.00	39.76 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.05	0.04	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.13	30.67	10.52	3.63	0.11	0.03	0.00	0.00	45.08 MCM
<b>Momentary Peak</b>	141.00	CMS. at 294.00 m. (MSL.) at 13.00 Hours , on Oct 30, 2021											
<b>Runoff Yield</b>	1.50	Liters/Second/Square KM. Momentary Peak Yield 148.42 Liters/Second/Square KM.											

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Khod at Ban San Pu Loei, Chiang Mai (P.91)

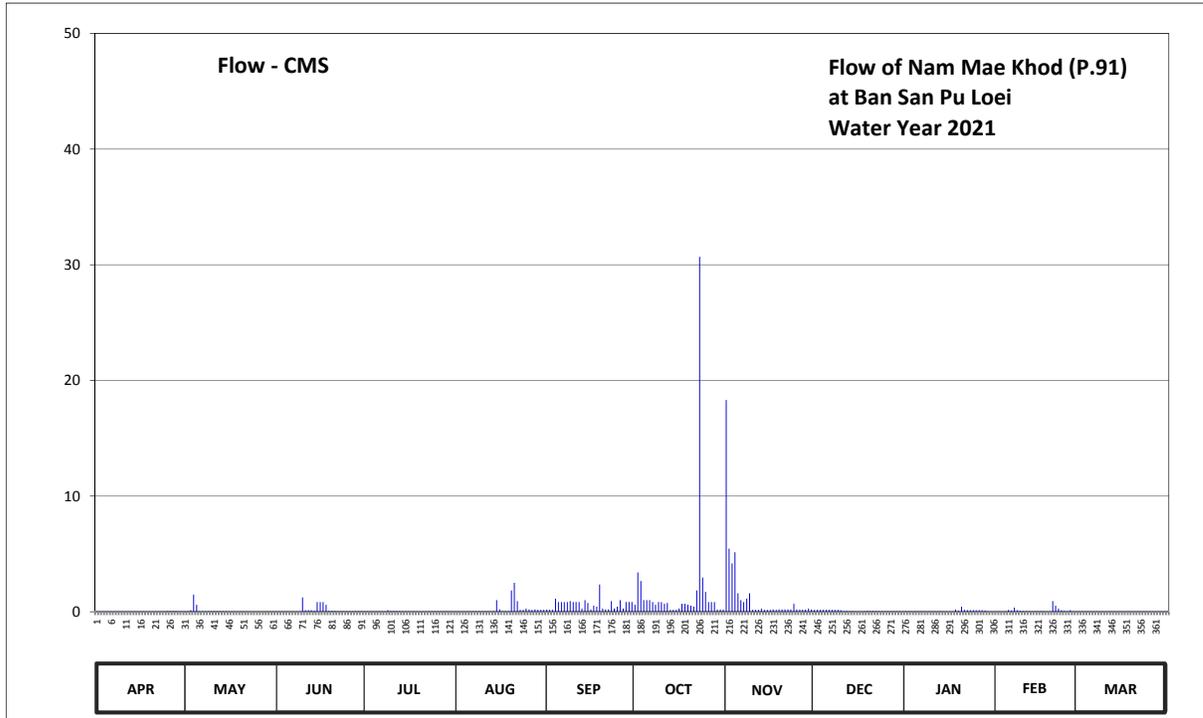
Lat 19 - 07 - 58 N Long 99 - 10 - 00 E

Location : on right bank at Ban San Pu Loei.

	<b>Ban San Pu Loei</b>	<b>Amphoe Phrao</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	232 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+413.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.	<b>Elevation</b>	+419.380 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	413.37	413.48	413.38	413.48	413.45	413.59	413.65	414.62	413.58	413.49	413.42	413.45	
2	413.37	413.47	413.38	413.46	413.45	413.58	413.88	414.01	413.58	413.48	413.40	413.46	
3	413.37	413.55	413.38	413.46	413.44	413.58	413.83	413.93	413.57	413.47	413.40	413.42	
4	413.37	413.74	413.38	413.45	413.44	413.71	413.70	413.99	413.58	413.46	413.43	413.44	
5	413.37	413.65	413.36	413.46	413.45	413.68	413.70	413.75	413.58	413.46	413.57	413.43	
6	413.38	413.47	413.37	413.47	413.48	413.68	413.70	413.70	413.57	413.46	413.54	413.40	
7	413.38	413.48	413.39	413.47	413.48	413.68	413.68	413.68	413.57	413.46	413.62	413.40	
8	413.38	413.48	413.39	413.43	413.48	413.68	413.65	413.71	413.58	413.45	413.56	413.39	
9	413.38	413.48	413.41	413.56	413.48	413.69	413.68	413.75	413.58	413.45	413.52	413.41	
10	413.38	413.48	413.72	413.49	413.48	413.68	413.68	413.58	413.55	413.45	413.49	413.38	
11	413.39	413.48	413.56	413.50	413.48	413.68	413.66	413.58	413.50	413.45	413.49	413.38	
12	413.40	413.48	413.56	413.51	413.48	413.68	413.67	413.58	413.52	413.45	413.48	413.38	
13	413.40	413.48	413.55	413.50	413.48	413.61	413.58	413.61	413.49	413.45	413.46	413.38	
14	413.40	413.48	413.53	413.48	413.50	413.70	413.58	413.58	413.50	413.44	413.46	413.38	
15	413.40	413.47	413.68	413.45	413.70	413.67	413.58	413.58	413.47	413.42	413.46	413.38	
16	413.40	413.40	413.68	413.47	413.60	413.60	413.61	413.57	413.44	413.42	413.46	413.40	
17	413.40	413.40	413.68	413.42	413.50	413.64	413.66	413.60	413.44	413.42	413.46	413.38	
18	413.40	413.40	413.65	413.42	413.50	413.63	413.66	413.58	413.50	413.59	413.42	413.38	
19	413.38	413.40	413.52	413.42	413.49	413.81	413.65	413.60	413.52	413.53	413.44	413.38	
20	413.38	413.40	413.52	413.40	413.77	413.61	413.64	413.60	413.49	413.63	413.69	413.38	
21	413.38	413.40	413.51	413.40	413.82	413.60	413.63	413.60	413.51	413.58	413.64	413.38	
22	413.39	413.39	413.48	413.40	413.69	413.60	413.77	413.60	413.49	413.55	413.61	413.38	
23	413.38	413.37	413.48	413.47	413.58	413.69	415.05	413.60	413.47	413.56	413.56	413.38	
24	413.40	413.33	413.48	413.47	413.58	413.61	413.85	413.66	413.49	413.56	413.52	413.38	
25	413.50	413.33	413.48	413.46	413.61	413.63	413.76	413.60	413.48	413.56	413.50	413.38	
26	413.51	413.33	413.48	413.46	413.60	413.70	413.68	413.59	413.48	413.56	413.55	413.38	
27	413.51	413.33	413.48	413.46	413.58	413.61	413.68	413.59	413.48	413.56	413.42	413.37	
28	413.51	413.34	413.49	413.46	413.60	413.68	413.68	413.59	413.48	413.54	413.42	413.38	
29	413.48	413.38	413.49	413.46	413.58	413.68	413.59	413.61	413.48	413.43		413.38	
30	413.48	413.38	413.49	413.45	413.58	413.68	413.59	413.59	413.48	413.42		413.38	
31		413.38		413.45	413.58		413.59		413.48	413.42		413.38	
Mean	413.41	413.44	413.50	413.46	413.55	413.66	413.72	413.69	413.51	413.49	413.50	413.39	
Max	413.51	413.74	413.72	413.56	413.82	413.81	415.05	414.62	413.58	413.63	413.69	413.46	415.05
Min	413.37	413.33	413.36	413.40	413.44	413.58	413.58	413.57	413.44	413.42	413.40	413.37	413.33
Annual Max Momentary Gage Height	415.30		m. (MSL.) ,				at 06.00 Hours ,						on Oct 23, 2021
Zero Gage at Bottom Elevation	413.10		m. (MSL.) ,			River Bed	412.47		m. (MSL.)				
Left Bank Elevation	418.79		m. (MSL.) ,										
Right Bank Elevation	418.84		m. (MSL.) ,			Drainage Are	232		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.04	0.02	0.04	0.04	0.19	0.60	18.30	0.17	0.05	0.03	0.04	
2	0.02	0.04	0.02	0.04	0.04	0.17	3.40	5.46	0.17	0.04	0.02	0.04	
3	0.02	0.13	0.02	0.04	0.03	0.17	2.65	4.18	0.16	0.04	0.02	0.03	
4	0.02	1.48	0.02	0.04	0.03	1.12	1.00	5.14	0.17	0.04	0.03	0.03	
5	0.02	0.60	0.02	0.04	0.04	0.84	1.00	1.60	0.17	0.04	0.16	0.03	
6	0.02	0.04	0.02	0.04	0.04	0.84	1.00	1.00	0.16	0.04	0.11	0.02	
7	0.02	0.04	0.02	0.04	0.04	0.84	0.84	0.84	0.16	0.04	0.36	0.02	
8	0.02	0.04	0.02	0.03	0.04	0.84	0.60	1.12	0.17	0.04	0.14	0.02	
9	0.02	0.04	0.02	0.14	0.04	0.92	0.84	1.60	0.17	0.04	0.08	0.02	
10	0.02	0.04	1.24	0.05	0.04	0.84	0.84	0.17	0.13	0.04	0.05	0.02	
11	0.02	0.04	0.14	0.05	0.04	0.84	0.68	0.17	0.05	0.04	0.05	0.02	
12	0.02	0.04	0.14	0.07	0.04	0.84	0.76	0.17	0.08	0.04	0.04	0.02	
13	0.02	0.04	0.13	0.05	0.04	0.28	0.17	0.28	0.05	0.04	0.04	0.02	
14	0.02	0.04	0.10	0.04	0.05	1.00	0.17	0.17	0.05	0.03	0.04	0.02	
15	0.02	0.04	0.84	0.04	1.00	0.76	0.17	0.17	0.04	0.03	0.04	0.02	
16	0.02	0.02	0.84	0.04	0.20	0.20	0.28	0.16	0.03	0.03	0.04	0.02	
17	0.02	0.02	0.84	0.03	0.05	0.52	0.68	0.20	0.03	0.03	0.04	0.02	
18	0.02	0.02	0.60	0.03	0.05	0.44	0.68	0.17	0.05	0.19	0.03	0.02	
19	0.02	0.02	0.08	0.03	0.05	2.35	0.60	0.20	0.08	0.10	0.03	0.02	
20	0.02	0.02	0.08	0.02	1.84	0.28	0.52	0.20	0.05	0.44	0.92	0.02	
21	0.02	0.02	0.07	0.02	2.50	0.20	0.44	0.20	0.07	0.17	0.52	0.02	
22	0.02	0.02	0.04	0.02	0.92	0.20	1.84	0.20	0.05	0.13	0.28	0.02	
23	0.02	0.02	0.04	0.04	0.17	0.92	30.68	0.20	0.04	0.14	0.14	0.02	
24	0.02	0.01	0.04	0.04	0.17	0.28	2.95	0.68	0.05	0.14	0.08	0.02	
25	0.05	0.01	0.04	0.04	0.28	0.44	1.72	0.20	0.04	0.14	0.05	0.02	
26	0.07	0.01	0.04	0.04	0.20	1.00	0.84	0.19	0.04	0.14	0.13	0.02	
27	0.07	0.01	0.04	0.04	0.17	0.28	0.84	0.19	0.04	0.14	0.03	0.02	
28	0.07	0.01	0.05	0.04	0.20	0.84	0.84	0.19	0.04	0.11	0.03	0.02	
29	0.04	0.02	0.05	0.04	0.17	0.84	0.19	0.28	0.04	0.03		0.02	
30	0.04	0.02	0.05	0.04	0.17	0.84	0.19	0.19	0.04	0.03		0.02	
31		0.02		0.04	0.17		0.19		0.04	0.03		0.02	
Total	0.82	2.96	5.67	1.30	8.86	20.12	58.20	43.82	2.63	2.58	3.53	0.69	151.18 CMSDAY
Mean	0.03	0.10	0.19	0.04	0.29	0.67	1.88	1.46	0.08	0.08	0.13	0.02	0.41 CMS
Max	0.07	1.48	1.24	0.14	2.50	2.35	30.68	18.30	0.17	0.44	0.92	0.04	30.68 CMS
Min	0.02	0.01	0.02	0.02	0.03	0.17	0.17	0.16	0.03	0.03	0.02	0.02	0.01 CMS
Runoff	0.07	0.26	0.49	0.11	0.77	1.74	5.03	3.79	0.23	0.22	0.30	0.06	13.06 MCM
Momentary Peak	39.10 CMS. at 415.30 m. (MSL.) at 06.00 Hours , on Oct 23, 2021												
Runoff Yield	1.79 Liters/Second/Square KM.			Momentary Peak Yield 168.53 Liters/Second/Square KM.									

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Taeng at Ban Mueang Kud, Chiang Mai (P.92)

Lat 19 - 13 - 17 N Long 98 - 50 - 55 E

Location : on left bank at Ban Mueang Kud.

	<b>Ban Mueang Kud</b>	<b>Amphoe Mae Taeng</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	1,803 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+440.645 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +447.535 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	441.65	441.85	441.84	441.71	441.68	441.77	442.32	442.09	441.72	441.53	441.51	441.22	
2	441.65	442.11	441.78	441.76	441.70	441.73	442.42	442.31	441.68	441.51	441.48	441.35	
3	441.65	441.88	441.69	441.72	441.66	441.72	442.41	442.24	441.67	441.51	441.50	441.35	
4	441.65	441.82	441.68	441.71	441.71	441.80	442.36	442.31	441.66	441.53	441.44	441.37	
5	441.66	441.81	441.92	441.71	441.63	441.73	442.18	442.17	441.66	441.53	441.41	441.34	
6	442.00	441.81	441.90	441.68	441.64	441.77	442.08	442.05	441.65	441.51	441.55	441.32	
7	441.93	441.79	441.89	441.72	441.63	442.41	442.03	442.02	441.64	441.50	441.64	441.31	
8	441.86	442.03	441.81	441.80	441.64	442.22	441.98	441.95	441.64	441.49	441.52	441.34	
9	441.82	441.99	442.01	441.95	441.62	442.13	441.94	441.97	441.65	441.49	441.49	441.35	
10	441.71	441.99	442.12	442.14	441.63	442.51	441.93	441.96	441.63	441.48	441.44	441.33	
11	441.66	441.82	442.11	442.23	441.63	442.30	441.93	441.93	441.61	441.48	441.42	441.30	
12	441.70	441.80	441.93	442.37	441.64	442.08	441.92	441.98	441.63	441.47	441.43	441.35	
13	441.69	441.72	441.80	441.92	441.64	441.97	441.91	442.04	441.64	441.46	441.37	441.32	
14	441.71	441.65	441.86	441.92	441.67	441.91	441.89	441.95	441.64	441.45	441.37	441.34	
15	441.78	441.66	441.92	441.77	441.75	442.05	441.91	441.91	441.64	441.45	441.36	441.44	
16	441.88	441.65	441.91	442.20	442.12	442.21	442.04	441.89	441.65	441.54	441.35	441.36	
17	441.78	441.65	441.87	441.98	442.04	442.32	442.30	441.89	441.64	441.65	441.36	441.33	
18	441.76	441.65	441.93	441.97	442.01	442.64	442.10	441.88	441.63	441.60	441.37	441.33	
19	441.75	441.69	441.86	441.79	441.93	442.57	441.99	441.88	441.61	441.55	441.46	441.32	
20	441.73	441.66	441.81	441.79	442.11	442.16	441.97	441.82	441.59	441.57	441.62	441.29	
21	441.73	441.64	441.74	441.92	442.02	442.25	441.96	441.80	441.60	441.57	441.43	441.29	
22	441.68	441.62	441.75	441.69	441.92	442.37	441.98	441.77	441.58	441.55	441.39	441.30	
23	441.67	441.61	441.73	441.68	441.85	442.59	442.86	441.76	441.54	441.53	441.38	441.36	
24	441.67	441.63	441.69	441.74	441.80	442.39	442.60	441.76	441.55	441.51	441.30	441.46	
25	441.72	441.93	441.69	441.73	441.98	442.33	442.34	441.75	441.55	441.53	441.29	441.44	
26	441.69	442.02	441.69	441.71	441.97	442.53	442.17	441.76	441.55	441.54	441.26	441.35	
27	441.86	442.01	441.74	441.73	441.87	442.66	442.04	441.75	441.55	441.54	441.24	441.32	
28	441.84	441.98	441.69	441.69	441.85	442.63	442.08	441.75	441.54	441.53	441.15	441.26	
29	441.78	441.96	441.72	441.63	441.95	442.48	442.03	441.73	441.54	441.52		441.37	
30	441.81	441.82	441.70	441.67	441.88	442.38	442.05	441.71	441.54	441.52		441.36	
31		441.90		441.67	441.82		442.02		441.53	441.52		441.35	
Mean	441.75	441.81	441.83	441.83	441.81	442.22	442.12	441.93	441.61	441.52	441.41	441.34	
Max	442.00	442.11	442.12	442.37	442.12	442.66	442.86	442.31	441.72	441.65	441.64	441.46	442.86
Min	441.65	441.61	441.68	441.63	441.62	441.72	441.89	441.71	441.53	441.45	441.15	441.22	441.15
Annual Max Momentary Gage Height	443.14		m. (MSL.) ,				at 13.00 Hours ,						on Oct 23, 2021
Zero Gage at Bottom Elevation	440.64		m. (MSL.) ,			River Bed	440.67		m. (MSL.)				
Left Bank Elevation		447.43		m. (MSL.) ,									
Right Bank Elevation		447.42		m. (MSL.) ,		Drainage Are	1,803		Square Kilometers				



## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Taeng at Ban Huai Pa Cang, Chiang Mai (P.92A)

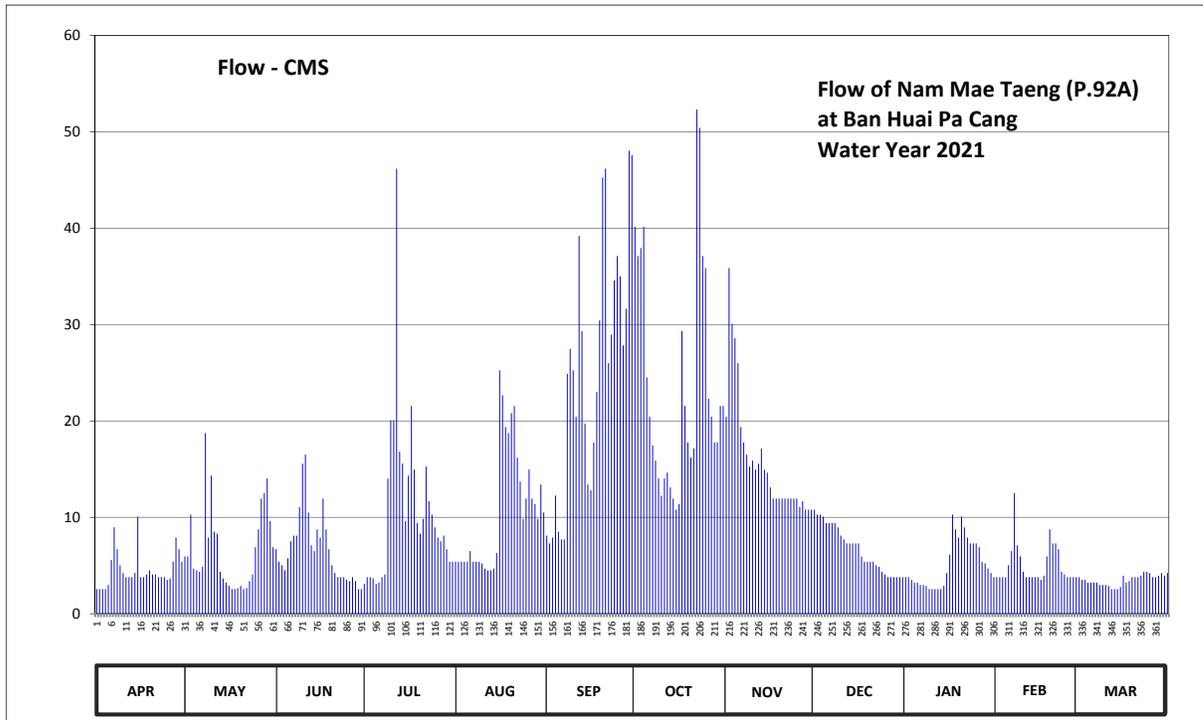
Lat 19 - 10 - 45 N Long 98 - 54 - 59 E

Location : on left bank at Ban Huai Pa Cang.

	<b>Ban</b>	<b>Huai Pa Cang</b>	<b>Amphoe</b>	<b>Mae Taeng</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	1,873	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+346.652 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+355.324 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2017 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2017 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2017 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	347.15	347.38	347.42	347.20	347.35	347.49	348.42	347.92	347.61	347.25	347.25	347.25	
2	347.15	347.38	347.35	347.25	347.35	347.45	348.35	348.32	347.59	347.25	347.25	347.23	
3	347.15	347.59	347.33	347.25	347.35	347.48	348.37	348.18	347.59	347.23	347.25	347.23	
4	347.15	347.31	347.30	347.24	347.35	347.66	348.42	348.14	347.58	347.21	347.25	347.21	
5	347.19	347.30	347.37	347.20	347.35	347.51	348.03	348.07	347.55	347.21	347.33	347.21	
6	347.36	347.29	347.46	347.21	347.41	347.47	347.92	347.89	347.55	347.19	347.41	347.21	
7	347.53	347.32	347.49	347.25	347.35	347.47	347.83	347.84	347.55	347.19	347.67	347.21	
8	347.42	347.87	347.49	347.27	347.35	348.04	347.78	347.80	347.55	347.18	347.44	347.19	
9	347.33	347.48	347.62	347.72	347.35	348.11	347.72	347.76	347.53	347.15	347.38	347.19	
10	347.28	347.73	347.77	347.91	347.34	348.05	347.66	347.78	347.49	347.15	347.29	347.19	
11	347.25	347.51	347.80	347.91	347.31	347.92	347.72	347.75	347.47	347.15	347.25	347.18	
12	347.25	347.50	347.60	348.55	347.30	348.40	347.74	347.77	347.45	347.15	347.25	347.15	
13	347.25	347.29	347.44	347.81	347.30	348.16	347.69	347.82	347.45	347.15	347.25	347.15	
14	347.28	347.24	347.41	347.77	347.31	347.90	347.65	347.75	347.45	347.18	347.25	347.15	
15	347.58	347.21	347.52	347.56	347.40	347.70	347.61	347.74	347.45	347.28	347.25	347.17	
16	347.25	347.18	347.48	347.73	348.05	347.68	347.63	347.69	347.45	347.39	347.23	347.26	
17	347.25	347.15	347.65	347.95	347.98	347.84	348.16	347.65	347.38	347.59	347.26	347.21	
18	347.27	347.15	347.52	347.75	347.89	347.99	347.95	347.65	347.35	347.52	347.38	347.22	
19	347.30	347.16	347.42	347.55	347.87	348.19	347.84	347.65	347.35	347.48	347.52	347.25	
20	347.27	347.18	347.33	347.50	347.93	348.53	347.79	347.65	347.35	347.58	347.45	347.25	
21	347.27	347.15	347.28	347.57	347.95	348.55	347.82	347.65	347.35	347.53	347.45	347.25	
22	347.25	347.16	347.25	347.76	347.79	348.07	348.68	347.65	347.33	347.48	347.42	347.26	
23	347.25	347.22	347.25	347.64	347.71	348.15	348.64	347.65	347.32	347.45	347.29	347.29	
24	347.25	347.27	347.25	347.59	347.57	348.29	348.35	347.65	347.29	347.45	347.27	347.29	
25	347.23	347.43	347.23	347.53	347.65	348.35	348.32	347.65	347.27	347.45	347.25	347.28	
26	347.24	347.52	347.22	347.48	347.75	348.30	347.97	347.62	347.25	347.43	347.25	347.25	
27	347.35	347.65	347.25	347.46	347.65	348.12	347.92	347.64	347.25	347.35	347.25	347.25	
28	347.48	347.67	347.22	347.49	347.63	348.22	347.84	347.61	347.25	347.34	347.25	347.26	
29	347.42	347.72	347.15	347.42	347.57	348.59	347.84	347.61	347.25	347.31		347.28	
30	347.35	347.56	347.15	347.35	347.70	348.58	347.95	347.61	347.25	347.25	347.25	347.26	
31		347.43		347.35	347.60		347.95		347.25	347.25		347.28	
Mean	347.29	347.39	347.40	347.56	347.56	348.01	347.99	347.77	347.41	347.32	347.32	347.23	
Max	347.58	347.87	347.80	348.55	348.05	348.59	348.68	348.32	347.61	347.59	347.67	347.29	348.68
Min	347.15	347.15	347.15	347.20	347.30	347.45	347.61	347.61	347.25	347.15	347.23	347.15	347.15
Annual Max Momentary Gage Height	348.81		m. (MSL.) ,			at 06.00 Hours ,	on Oct 23, 2021						
Zero Gage at Bottom Elevation	346.65		m. (MSL.) ,			River Bed	346.31	m. (MSL.)					
Left Bank Elevation		355.11		m. (MSL.) ,									
Right Bank Elevation		355.00		m. (MSL.) ,		Drainage Are	1,873	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.55	5.94	6.70	3.10	5.40	8.10	40.13	20.44	10.79	3.80	3.80	3.80		
2	2.55	5.94	5.40	3.80	5.40	7.30	37.10	35.84	10.28	3.80	3.80	3.52		
3	2.55	10.28	5.04	3.80	5.40	7.90	37.94	30.06	10.28	3.52	3.80	3.52		
4	2.55	4.68	4.50	3.66	5.40	12.24	40.13	28.58	10.06	3.24	3.80	3.24		
5	2.99	4.50	5.76	3.10	5.40	8.52	24.51	25.99	9.40	3.24	5.04	3.24		
6	5.58	4.36	7.50	3.24	6.50	7.70	20.44	19.38	9.40	2.99	6.50	3.24		
7	8.96	4.86	8.10	3.80	5.40	7.70	17.46	17.78	9.40	2.99	12.53	3.24		
8	6.70	18.74	8.10	4.08	5.40	24.88	15.88	16.50	9.40	2.88	7.10	2.99		
9	5.04	7.90	11.08	14.02	5.40	27.47	14.02	15.26	8.96	2.55	5.94	2.99		
10	4.22	14.33	15.57	20.07	5.22	25.25	12.24	15.88	8.10	2.55	4.36	2.99		
11	3.80	8.52	16.50	20.07	4.68	20.44	14.02	14.95	7.70	2.55	3.80	2.88		
12	3.80	8.30	10.50	46.18	4.50	39.20	14.64	15.57	7.30	2.55	3.80	2.55		
13	3.80	4.36	7.10	16.82	4.50	29.32	13.11	17.14	7.30	2.55	3.80	2.55		
14	4.22	3.66	6.50	15.57	4.68	19.70	11.95	14.95	7.30	2.88	3.80	2.55		
15	10.06	3.24	8.74	9.62	6.30	13.40	10.79	14.64	7.30	4.22	3.80	2.77		
16	3.80	2.88	7.90	14.33	25.25	12.82	11.37	13.11	7.30	6.12	3.52	3.94		
17	3.80	2.55	11.95	21.55	22.66	17.78	29.32	11.95	5.94	10.28	3.94	3.24		
18	4.08	2.55	8.74	14.95	19.38	23.03	21.55	11.95	5.40	8.74	5.94	3.38		
19	4.50	2.66	6.70	9.40	18.74	30.43	17.78	11.95	5.40	7.90	8.74	3.80		
20	4.08	2.88	5.04	8.30	20.81	45.25	16.19	11.95	5.40	10.06	7.30	3.80		
21	4.08	2.55	4.22	9.84	21.55	46.18	17.14	11.95	5.40	8.96	7.30	3.80		
22	3.80	2.66	3.80	15.26	16.19	25.99	52.30	11.95	5.04	7.90	6.70	3.94		
23	3.80	3.38	3.80	11.66	13.71	28.95	50.40	11.95	4.86	7.30	4.36	4.36		
24	3.80	4.08	3.80	10.28	9.84	34.58	37.10	11.95	4.36	7.30	4.08	4.36		
25	3.52	6.90	3.52	8.96	11.95	37.10	35.84	11.95	4.08	7.30	3.80	4.22		
26	3.66	8.74	3.38	7.90	14.95	35.00	22.29	11.08	3.80	6.90	3.80	3.80		
27	5.40	11.95	3.80	7.50	11.95	27.84	20.44	11.66	3.80	5.40	3.80	3.80		
28	7.90	12.53	3.38	8.10	11.37	31.64	17.78	10.79	3.80	5.22	3.80	3.94		
29	6.70	14.02	2.55	6.70	9.84	48.04	17.78	10.79	3.80	4.68		4.22		
30	5.40	9.62	2.55	5.40	13.40	47.57	21.55	10.79	3.80	4.22		3.94		
31		6.90		5.40	10.50		21.55		3.80	3.80		4.22		
<b>Total</b>	137.69	206.46	202.22	336.46	331.67	751.32	734.74	478.73	208.95	158.39	142.75	108.83	3798.21	CMSDAY
<b>Mean</b>	4.59	6.66	6.74	10.85	10.70	25.04	23.70	15.96	6.74	5.11	5.10	3.51	10.41	CMS
<b>Max</b>	10.06	18.74	16.50	46.18	25.25	48.04	52.30	35.84	10.79	10.28	12.53	4.36	52.30	CMS
<b>Min</b>	2.55	2.55	2.55	3.10	4.50	7.30	10.79	10.79	3.80	2.55	3.52	2.55	2.55	CMS
<b>Runoff</b>	11.90	17.84	17.47	29.07	28.66	64.91	63.48	41.36	18.05	13.68	12.33	9.40	328.17	MCM
<b>Momentary Peak</b>	58.53 CMS. at 348.81 m. (MSL) at 06.00 Hours , on Oct 23, 2021													
<b>Runoff Yield</b>	5.56 Liters/Second/Square KM.			Momentary Peak Yield			31.25 Liters/Second/Square KM.							

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Rim at Ban Saluang Nok, Chiang Mai (P.93)

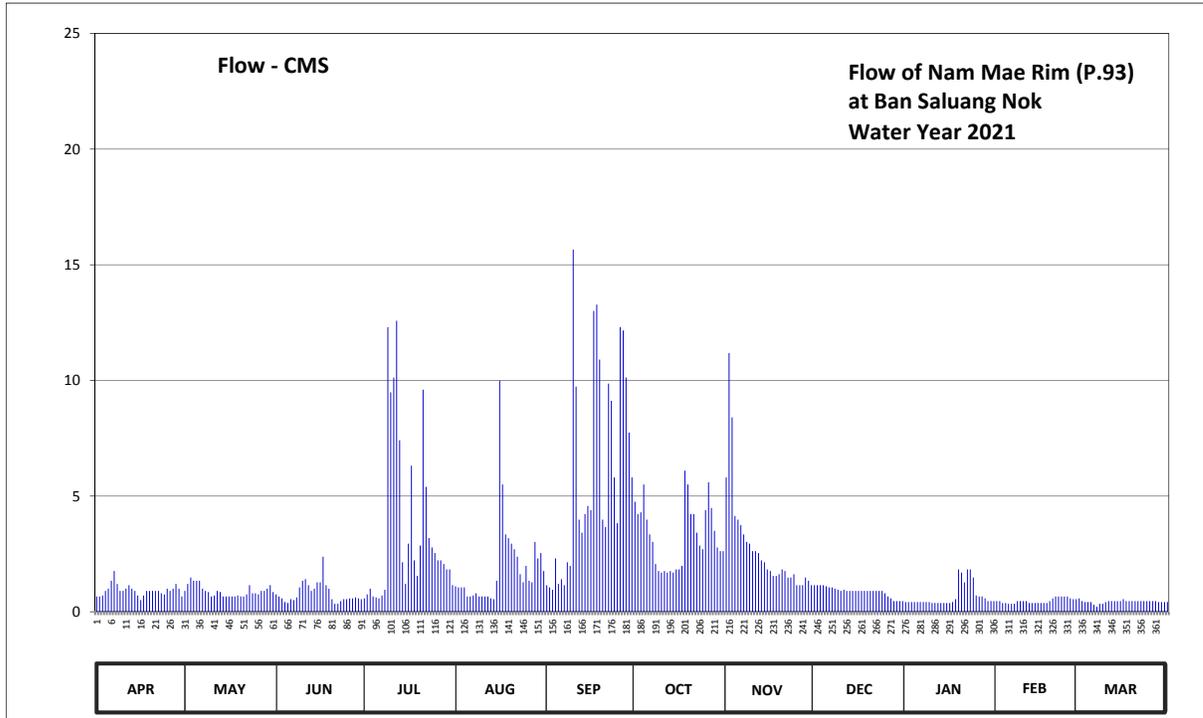
Lat 19 - 00 - 56 N Long 98 - 52 - 53 E

Location : on left bank at Ban Saluang Nok.

	<b>Ban Saluang Nok</b>	<b>Amphoe Mae Rim</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	368 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+340.588 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+344.720 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	340.69	340.74	340.71	340.67	340.78	340.79	341.25	341.36	340.79	340.63	340.64	340.67	
2	340.69	340.80	340.69	340.71	340.77	340.77	341.19	341.82	340.79	340.63	340.64	340.64	
3	340.70	340.84	340.67	340.76	340.77	340.75	341.20	341.60	340.79	340.63	340.62	340.63	
4	340.74	340.82	340.63	340.69	340.77	340.95	341.33	341.18	340.79	340.63	340.62	340.63	
5	340.76	340.82	340.62	340.68	340.69	340.80	341.16	341.16	340.78	340.63	340.61	340.63	
6	340.82	340.82	340.66	340.67	340.69	340.83	341.08	341.13	340.77	340.63	340.61	340.60	
7	340.88	340.76	340.65	340.70	340.70	340.79	341.04	341.08	340.77	340.63	340.61	340.57	
8	340.80	340.74	340.68	340.75	340.72	340.93	340.92	341.04	340.76	340.63	340.64	340.61	
9	340.74	340.73	340.77	341.90	340.69	340.91	340.88	341.03	340.75	340.63	340.64	340.61	
10	340.74	340.69	340.82	341.69	340.69	342.13	340.87	340.99	340.74	340.62	340.64	340.63	
11	340.76	340.70	340.83	341.74	340.69	341.71	340.88	340.99	340.75	340.62	340.64	340.64	
12	340.79	340.74	340.79	341.92	340.69	341.16	340.87	340.98	340.74	340.62	340.62	340.64	
13	340.76	340.73	340.74	341.51	340.67	341.09	340.88	340.94	340.74	340.62	340.62	340.64	
14	340.74	340.69	340.76	340.93	340.66	341.19	340.87	340.93	340.74	340.62	340.62	340.64	
15	340.70	340.69	340.81	340.80	340.82	341.23	340.89	340.89	340.74	340.62	340.62	340.64	
16	340.65	340.69	340.81	341.03	341.73	341.21	340.89	340.88	340.74	340.62	340.62	340.66	
17	340.70	340.69	340.96	341.41	341.33	341.95	340.91	340.85	340.74	340.63	340.62	340.64	
18	340.74	340.69	340.79	340.94	341.08	341.97	341.39	340.85	340.74	340.66	340.62	340.64	
19	340.74	340.70	340.76	340.85	341.06	341.80	341.33	340.86	340.74	340.89	340.64	340.64	
20	340.74	340.69	340.66	341.02	341.03	341.16	341.19	340.89	340.74	340.87	340.67	340.64	
21	340.74	340.69	340.61	341.70	341.00	341.12	341.19	340.88	340.74	340.81	340.69	340.64	
22	340.74	340.71	340.61	341.32	340.96	341.72	341.09	340.84	340.74	340.89	340.69	340.64	
23	340.72	340.79	340.64	341.06	340.86	341.66	341.02	340.84	340.74	340.89	340.69	340.64	
24	340.71	340.72	340.66	341.01	340.81	341.36	341.00	340.86	340.74	340.84	340.69	340.64	
25	340.76	340.72	340.66	340.98	340.91	341.14	341.21	340.79	340.72	340.70	340.69	340.64	
26	340.74	340.71	340.67	340.94	340.82	341.90	341.34	340.79	340.69	340.69	340.67	340.64	
27	340.76	340.74	340.67	340.94	340.81	341.89	341.22	340.79	340.67	340.69	340.66	340.64	
28	340.80	340.74	340.68	340.92	341.04	341.74	341.10	340.84	340.64	340.67	340.66	340.63	
29	340.76	340.76	340.67	340.89	340.95	341.54	341.01	340.82	340.64	340.64		340.63	
30	340.69	340.79	340.66	340.89	340.98	341.36	340.99	340.79	340.64	340.64		340.63	
31		340.73		340.79	340.88		340.99		340.64	340.64		340.63	
Mean	340.74	340.74	340.71	341.06	340.87	341.32	341.07	340.99	340.73	340.68	340.64	340.63	
Max	340.88	340.84	340.96	341.92	341.73	342.13	341.39	341.82	340.79	340.89	340.69	340.67	342.13
Min	340.65	340.69	340.61	340.67	340.66	340.75	340.87	340.79	340.64	340.62	340.61	340.57	340.57
Annual Max Momentary Gage Height	342.24		m. (MSL.) ,				at 06.00 Hours , on Sep 10, 2021						
Zero Gage at Bottom Elevation	340.59		m. (MSL.) ,			River Bed	340.15	m. (MSL.)					
Left Bank Elevation		344.27		m. (MSL.) ,									
Right Bank Elevation		344.11		m. (MSL.) ,		Drainage Are	368	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.66	0.90	0.75	0.58	1.10	1.15	4.75	5.80	1.15	0.42	0.46	0.58	
2	0.66	1.20	0.66	0.75	1.05	1.05	4.22	11.18	1.15	0.42	0.46	0.46	
3	0.70	1.48	0.58	1.00	1.05	0.95	4.30	8.40	1.15	0.42	0.38	0.42	
4	0.90	1.34	0.42	0.66	1.05	2.30	5.50	4.14	1.15	0.42	0.38	0.42	
5	1.00	1.34	0.38	0.62	0.66	1.20	3.98	3.98	1.10	0.42	0.34	0.42	
6	1.34	1.34	0.54	0.58	0.66	1.41	3.34	3.74	1.05	0.42	0.34	0.30	
7	1.76	1.00	0.50	0.70	0.70	1.15	3.02	3.34	1.05	0.42	0.34	0.21	
8	1.20	0.90	0.62	0.95	0.80	2.14	2.06	3.02	1.00	0.42	0.46	0.34	
9	0.90	0.85	1.05	12.30	0.66	1.98	1.76	2.94	0.95	0.42	0.46	0.34	
10	0.90	0.66	1.34	9.48	0.66	15.65	1.69	2.62	0.90	0.38	0.46	0.42	
11	1.00	0.70	1.41	10.12	0.66	9.73	1.76	2.62	0.95	0.38	0.46	0.46	
12	1.15	0.90	1.15	12.58	0.66	3.98	1.69	2.54	0.90	0.38	0.38	0.46	
13	1.00	0.85	0.90	7.41	0.58	3.42	1.76	2.22	0.90	0.38	0.38	0.46	
14	0.90	0.66	1.00	2.14	0.54	4.22	1.69	2.14	0.90	0.38	0.38	0.46	
15	0.70	0.66	1.27	1.20	1.34	4.57	1.83	1.83	0.90	0.38	0.38	0.46	
16	0.50	0.66	1.27	2.94	9.99	4.39	1.83	1.76	0.90	0.38	0.38	0.54	
17	0.70	0.66	2.38	6.31	5.50	13.00	1.98	1.55	0.90	0.42	0.38	0.46	
18	0.90	0.66	1.15	2.22	3.34	13.28	6.10	1.55	0.90	0.54	0.38	0.46	
19	0.90	0.70	1.00	1.55	3.18	10.90	5.50	1.62	0.90	1.83	0.46	0.46	
20	0.90	0.66	0.54	2.86	2.94	3.98	4.22	1.83	0.90	1.69	0.58	0.46	
21	0.90	0.66	0.34	9.60	2.70	3.66	4.22	1.76	0.90	1.27	0.66	0.46	
22	0.90	0.75	0.34	5.40	2.38	9.86	3.42	1.48	0.90	1.83	0.66	0.46	
23	0.80	1.15	0.46	3.18	1.62	9.12	2.86	1.48	0.90	1.83	0.66	0.46	
24	0.75	0.80	0.54	2.78	1.27	5.80	2.70	1.62	0.90	1.48	0.66	0.46	
25	1.00	0.80	0.54	2.54	1.98	3.82	4.39	1.15	0.80	0.70	0.66	0.46	
26	0.90	0.75	0.58	2.22	1.34	12.30	5.60	1.15	0.66	0.66	0.58	0.46	
27	1.00	0.90	0.58	2.22	1.27	12.16	4.48	1.15	0.58	0.66	0.54	0.46	
28	1.20	0.90	0.62	2.06	3.02	10.12	3.50	1.48	0.46	0.58	0.54	0.42	
29	1.00	1.00	0.58	1.83	2.30	7.74	2.78	1.34	0.46	0.46		0.42	
30	0.66	1.15	0.54	1.83	2.54	5.80	2.62	1.15	0.46	0.46		0.42	
31		0.85		1.15	1.76		2.62		0.46	0.46		0.42	
<b>Total</b>	27.78	27.83	24.03	111.76	59.30	180.83	102.17	82.58	27.18	21.31	13.20	13.49	691.46 CMSDAY
<b>Mean</b>	0.93	0.90	0.80	3.61	1.91	6.03	3.30	2.75	0.88	0.69	0.47	0.44	1.89 CMS
<b>Max</b>	1.76	1.48	2.38	12.58	9.99	15.65	6.10	11.18	1.15	1.83	0.66	0.58	15.65 CMS
<b>Min</b>	0.50	0.66	0.34	0.58	0.54	0.95	1.69	1.15	0.46	0.38	0.34	0.21	0.21 CMS
<b>Runoff</b>	2.40	2.40	2.08	9.66	5.12	15.62	8.83	7.13	2.35	1.84	1.14	1.17	59.74 MCM
<b>Momentary Peak</b>	17.36 CMS. at 342.24 m. (MSL.) at 06.00 Hours , on Sep 10, 2021												
<b>Runoff Yield</b>	5.15 Liters/Second/Square KM.			Momentary Peak Yield			47.17 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PING RIVER BASIN

Ping River at 3<sup>rd</sup> Ring Bridge , Chiang Mai (P.103)

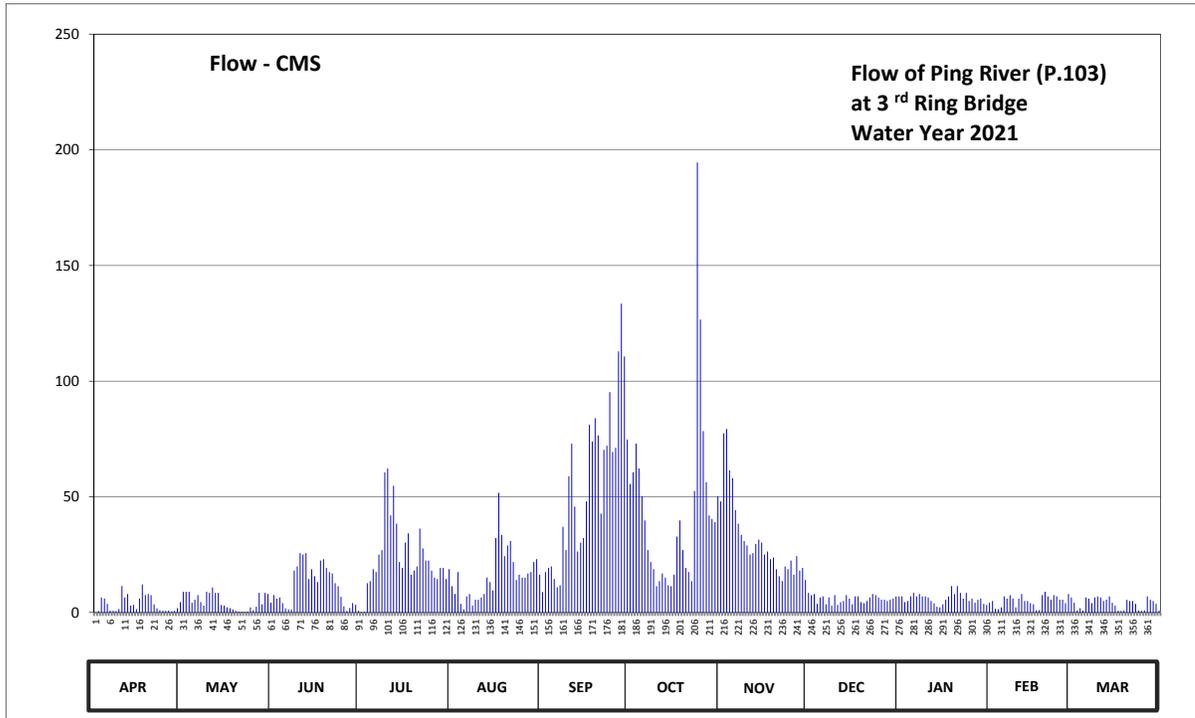
Lat 18 - 52 - 06 N Long 98 - 58 - 37 E

Location : on left bank at 3 rd Ring Bridge.

	<b>Ban</b>	3 rd Ring Bridge	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	6,014	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+300.890 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+313.660 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2021 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2021 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2021 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.32	302.09	302.06	301.43	301.93	301.87	302.60	302.50	302.08	302.05	301.99	302.04	
2	301.63	302.09	302.03	301.48	301.85	302.05	302.66	302.85	302.06	302.05	302.01	301.99	
3	302.04	302.09	302.04	301.96	302.05	302.08	302.80	302.87	302.07	302.00	301.86	301.76	
4	302.03	301.99	301.98	301.98	301.97	302.09	302.68	302.67	301.97	302.01	301.84	301.89	
5	301.97	302.02	301.88	302.07	301.83	302.00	302.53	302.63	302.04	302.05	301.91	301.74	
6	301.74	302.06	301.83	302.05	302.05	301.92	302.39	302.45	302.05	302.08	302.05	302.04	
7	301.70	302.00	301.83	302.17	302.07	301.94	302.20	302.37	301.96	302.05	302.03	302.03	
8	301.61	301.94	302.06	302.20	301.94	302.35	302.12	302.30	302.04	302.07	302.06	301.98	
9	301.85	302.09	302.09	302.66	302.02	302.20	302.07	302.26	301.94	302.05	302.03	302.04	
10	302.13	302.08	302.18	302.68	302.02	302.64	301.93	302.23	302.06	302.05	301.91	302.05	
11	302.04	302.12	302.17	302.42	302.04	302.80	301.98	302.17	301.95	302.04	302.03	302.04	
12	302.07	302.08	302.18	302.59	302.07	302.47	302.04	302.18	302.00	302.01	302.07	302.01	
13	301.94	302.08	302.00	302.37	302.01	302.19	302.01	302.24	302.01	301.98	302.01	302.02	
14	301.95	301.95	302.07	302.12	301.97	302.25	301.94	302.27	302.06	301.92	302.01	302.05	
15	301.85	301.94	302.02	302.08	301.89	302.28	301.93	302.25	302.03	301.91	301.98	301.99	
16	302.03	301.91	301.97	302.25	302.28	302.50	302.03	302.17	301.96	301.96	301.96	301.94	
17	302.14	301.89	302.13	302.31	302.55	302.89	302.29	302.19	302.05	302.02	301.79	301.73	
18	302.06	301.83	302.14	302.03	302.30	302.81	302.39	302.14	302.05	302.05	301.80	301.67	
19	302.07	301.64	302.08	302.06	302.16	302.92	302.20	302.15	302.00	302.13	302.06	301.75	
20	302.06	301.51	302.05	302.09	302.23	302.84	302.08	302.07	301.98	302.07	302.09	302.02	
21	301.96	301.51	302.04	302.34	302.26	302.43	302.05	302.02	302.01	302.13	302.05	302.01	
22	301.88	301.44	301.96	302.21	302.12	302.77	301.98	301.98	302.04	302.08	302.02	302.01	
23	301.78	301.53	301.93	302.13	301.99	302.79	302.56	302.09	302.07	302.03	302.06	301.97	
24	301.70	301.91	301.82	302.13	302.03	303.03	303.83	302.07	302.06	302.08	302.05	301.75	
25	301.66	301.80	301.67	302.06	302.01	302.76	303.31	302.13	302.04	302.01	302.02	301.68	
26	301.71	301.92	301.55	302.01	302.01	302.78	302.86	302.03	302.02	302.03	302.02	301.75	
27	301.55	302.08	301.64	302.00	302.04	303.19	302.61	302.16	302.02	301.99	301.98	302.05	
28	301.66	301.96	301.73	302.08	302.05	303.37	302.42	302.06	302.01	302.02	302.07	302.02	
29	301.89	302.08	301.70	302.08	302.12	303.17	302.40	302.08	302.02	302.03	302.03	302.01	
30	302.00	302.07	301.55	302.00	302.14	302.82	302.38	301.99	302.03	301.97	301.97	301.97	
31		301.99		302.07	302.03		302.53		302.05	301.95		301.71	
Mean	301.87	301.93	301.95	302.13	302.07	302.54	302.38	302.25	302.02	302.03	301.99	301.93	
Max	302.14	302.12	302.18	302.68	302.55	303.37	303.83	302.87	302.08	302.13	302.09	302.05	303.83
Min	301.32	301.44	301.55	301.43	301.83	301.87	301.93	301.98	301.94	301.91	301.79	301.67	301.32
Annual Max Momentary Gage Height	303.96		m. (MSL.) ,			at 10.00 Hours ,	on Oct 24, 2021						
Zero Gage at Bottom Elevation	300.89		m. (MSL.) ,			River Bed	300.07	m. (MSL.)					
Left Bank Elevation		313.39		m. (MSL.) ,									
Right Bank Elevation		313.65		m. (MSL.) ,		Drainage Are	6,014	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	9.00	7.50	0.26	11.35	8.80	55.50	48.00	8.50	7.00	4.25	6.50	
2	0.66	9.00	6.00	0.36	8.00	17.50	60.60	77.50	7.50	7.00	5.00	4.25	
3	6.50	9.00	6.50	12.70	17.50	19.30	73.00	79.30	8.00	4.50	1.60	0.92	
4	6.00	4.25	4.00	13.60	3.75	19.90	62.30	61.45	3.75	5.00	1.40	1.90	
5	3.75	5.50	1.80	18.70	1.30	14.50	50.25	58.05	6.50	7.00	2.25	0.88	
6	0.88	7.50	1.30	17.50	7.00	10.90	39.80	44.25	7.00	8.50	7.00	6.50	
7	0.80	4.50	1.30	25.05	8.00	11.80	27.00	38.40	3.50	7.00	6.00	6.00	
8	0.62	3.00	18.10	27.00	3.00	37.00	21.80	33.50	6.50	8.00	7.50	4.00	
9	1.50	9.00	19.90	60.60	5.50	27.00	18.70	30.90	3.00	7.00	6.00	6.50	
10	11.45	8.50	25.70	62.30	5.50	58.90	11.35	28.95	7.50	7.00	2.25	7.00	
11	6.50	10.80	25.05	42.00	6.50	73.00	13.60	25.05	3.25	6.50	6.00	6.50	
12	8.00	8.50	25.70	54.75	8.00	45.75	16.90	25.70	4.50	5.00	8.00	5.00	
13	3.00	8.50	14.50	38.40	15.10	26.35	15.10	29.60	5.00	4.00	5.00	5.50	
14	3.25	3.25	18.70	21.80	13.15	30.25	11.80	31.55	7.50	2.50	5.00	7.00	
15	1.50	3.00	15.70	19.30	9.60	32.20	11.35	30.25	6.00	2.25	4.00	4.25	
16	6.00	2.25	13.15	30.25	32.20	48.00	16.30	25.05	3.50	3.50	3.50	3.00	
17	12.10	1.90	22.45	34.20	51.75	81.10	32.85	26.35	7.00	5.50	0.98	0.86	
18	7.50	1.30	23.10	16.30	33.50	73.90	39.80	23.10	7.00	7.00	1.00	0.74	
19	8.00	0.68	19.30	18.10	24.40	84.00	27.00	23.75	4.50	11.45	7.50	0.90	
20	7.50	0.42	17.50	19.90	28.95	76.60	19.30	18.70	4.00	8.00	9.00	5.50	
21	3.50	0.42	16.90	36.30	30.90	42.75	17.50	15.70	5.00	11.45	7.00	5.00	
22	1.80	0.28	12.70	27.65	21.80	70.30	13.60	13.60	6.50	8.50	5.50	5.00	
23	0.96	0.46	11.35	22.45	14.05	72.10	52.50	19.90	8.00	6.00	7.50	3.75	
24	0.80	2.25	6.80	22.45	16.30	95.30	194.50	18.70	7.50	8.50	7.00	0.90	
25	0.72	1.00	2.61	18.10	15.10	69.40	126.65	22.45	6.50	5.00	5.50	0.76	
26	0.82	2.50	0.70	15.10	15.10	71.20	78.40	16.30	5.50	6.00	5.50	0.90	
27	0.50	8.50	1.92	14.50	16.90	112.90	56.35	24.40	5.50	4.25	4.00	7.00	
28	0.72	3.50	4.11	19.30	17.50	133.55	42.00	18.10	5.00	5.50	8.00	5.50	
29	1.90	8.50	3.30	19.30	21.80	110.70	40.50	19.30	5.50	6.00		5.00	
30	4.50	8.00	0.70	14.50	23.10	74.80	39.10	14.05	6.00	3.75		3.75	
31		4.25		18.70	16.30		50.25		7.00	3.25		0.82	
Total	111.85	149.51	348.34	761.42	502.90	1649.75	1335.65	941.90	182.00	191.90	143.23	122.08	6440.53 CMSDAY
Mean	3.73	4.82	11.61	24.56	16.22	54.99	43.09	31.40	5.87	6.19	5.12	3.94	17.65 CMS
Max	12.10	10.80	25.70	62.30	51.75	133.55	194.50	79.30	8.50	11.45	9.00	7.00	194.50 CMS
Min	0.12	0.28	0.70	0.26	1.30	8.80	11.35	13.60	3.00	2.25	0.98	0.74	0.12 CMS
Runoff	9.66	12.92	30.10	65.79	43.45	142.54	115.40	81.38	15.72	16.58	12.38	10.55	556.46 MCM
Momentary Peak	214.00 CMS. at 303.96 m. (MSL.) at 10.00 Hours , on Oct 24, 2021												
Runoff Yield	2.93 Liters/Second/Square KM.			Momentary Peak Yield			35.58 Liters/Second/Square KM.						

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Setuwaree Bridge , Lampang (W.1C)

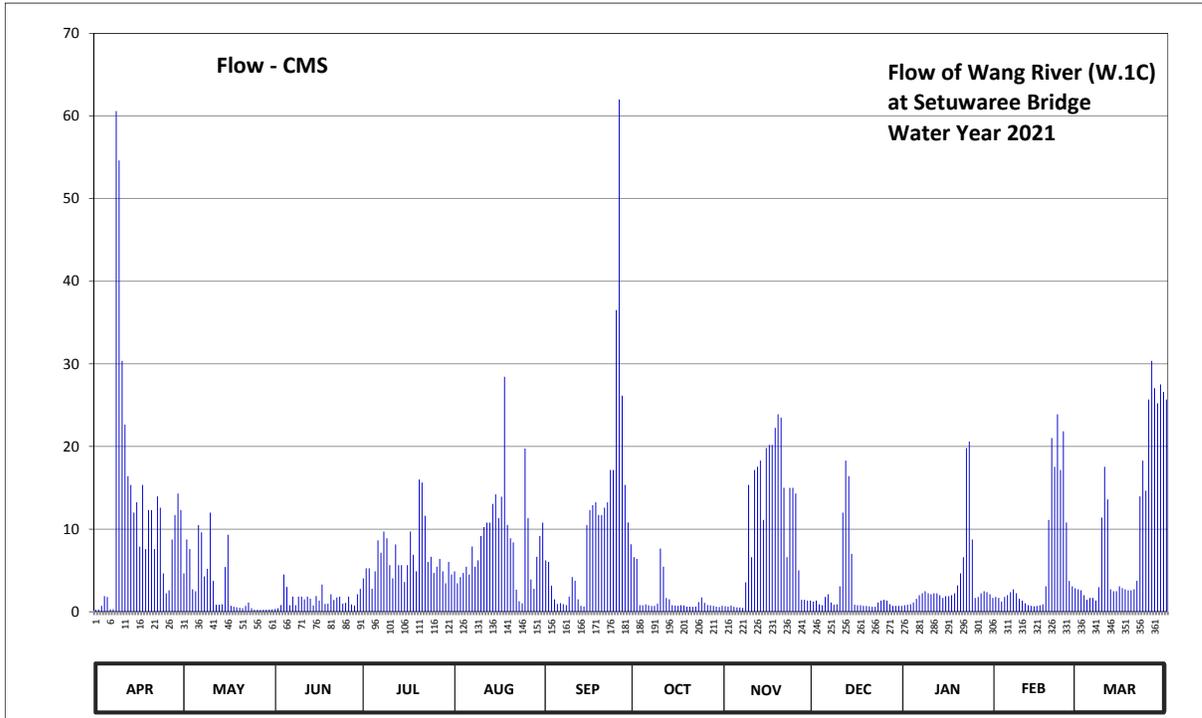
Lat 18 - 17 - 59 N Long 99 - 30 - 40 E

Location : on left bank at the bridge.

	<b>Ban</b> Setuwaree Bridge	<b>Amphoe</b> Mueang	<b>Changwat</b> Lampang
<b>Drainage Area</b>	3,434 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+229.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+234.725 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1990 - 1998, 2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 - 1998, 2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1990 - 1998, 2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	228.57	228.98	228.72	229.57	229.62	229.69	229.08	229.07	228.73	228.68	228.78	228.86	
2	228.58	229.16	228.83	229.64	229.53	229.68	229.07	229.02	228.74	228.69	228.77	228.85	
3	228.67	229.12	229.20	229.64	229.58	229.51	229.19	229.14	228.70	228.70	228.73	228.80	
4	228.79	228.86	229.60	229.48	229.61	229.35	229.19	229.00	228.68	228.72	228.78	228.75	
5	228.78	228.84	229.50	229.62	229.65	229.25	229.23	228.94	228.78	228.76	228.80	228.77	
6	228.59	229.22	229.19	229.79	229.60	229.28	229.16	228.92	228.81	228.80	228.83	228.77	
7	228.60	229.19	229.39	229.73	229.76	229.24	229.10	228.87	228.72	228.82	228.86	228.74	
8	230.25	228.96	229.18	229.83	229.65	229.20	229.12	228.92	228.69	228.84	228.82	228.88	
9	230.16	229.01	229.39	229.80	229.69	229.39	229.26	229.37	228.70	228.82	228.76	229.25	
10	229.73	229.27	229.39	229.66	229.81	229.58	229.75	229.08	228.89	228.81	228.74	229.43	
11	229.56	228.93	229.35	229.57	229.85	229.55	229.65	229.42	229.27	228.82	228.71	229.32	
12	229.40	228.69	229.39	229.77	229.87	229.35	229.37	229.43	229.45	228.82	228.68	228.86	
13	229.37	228.69	229.36	229.66	229.87	229.12	229.35	229.45	229.40	228.80	228.67	228.84	
14	229.27	228.70	229.17	229.66	229.95	229.04	229.19	229.24	229.10	228.77	228.66	228.84	
15	229.31	229.02	229.40	229.54	229.99	229.22	229.14	229.49	228.69	228.79	228.67	228.89	
16	229.13	229.18	229.33	229.66	229.89	229.28	229.12	229.50	228.68	228.79	228.68	228.87	
17	229.37	228.67	229.52	229.83	229.98	229.30	229.19	229.50	228.68	228.80	228.70	228.86	
18	229.12	228.65	229.25	229.72	230.34	229.31	229.17	229.55	228.67	228.82	228.89	228.85	
19	229.28	228.64	229.26	229.62	229.86	229.26	229.02	229.59	228.67	228.90	229.24	228.85	
20	229.28	228.63	229.42	230.04	229.80	229.26	229.01	229.58	228.66	228.98	229.52	228.86	
21	229.12	228.62	229.34	230.03	229.78	229.29	228.99	229.36	228.65	229.08	229.43	228.93	
22	229.33	228.67	229.38	229.90	229.47	229.31	229.03	229.08	228.65	229.49	229.59	229.33	
23	229.29	228.72	229.39	229.68	229.32	229.42	229.31	229.36	228.72	229.51	229.42	229.45	
24	228.98	228.62	229.26	229.71	229.27	229.42	229.38	229.36	228.74	229.16	229.54	229.35	
25	228.82	228.64	229.29	229.61	230.14	229.85	229.29	229.34	228.75	228.77	229.23	229.63	
26	228.85	228.64	229.39	229.65	229.89	230.27	229.20	229.00	228.74	228.78	228.93	229.73	
27	229.16	228.63	229.23	229.70	229.56	229.64	229.16	228.75	228.70	228.82	228.89	229.66	
28	229.26	228.64	229.14	229.62	229.48	229.37	229.12	228.75	228.67	228.84	228.87	229.62	
29	229.34	228.64	229.42	229.53	229.71	229.23	229.02	228.74	228.67	228.83		229.67	
30	229.28	228.67	229.48	229.68	229.81	229.14	228.98	228.74	228.67	228.81		229.65	
31		228.68		229.60	229.87		229.11		228.67	228.77		229.63	
Mean	229.17	228.83	229.31	229.69	229.75	229.39	229.19	229.19	228.79	228.86	228.94	229.12	
Max	230.25	229.27	229.60	230.04	230.34	230.27	229.75	229.59	229.45	229.51	229.59	229.73	230.34
Min	228.57	228.62	228.72	229.48	229.27	229.04	228.98	228.74	228.65	228.68	228.66	228.74	228.57
Annual Max Momentary Gage Height	230.55		m. (MSL.) ,				at 23.00 Hours ,						on Apr 8, 2021
Zero Gage at Bottom Elevation	229.30		m. (MSL.) ,			River Bed	227.32		m. (MSL.)				
Left Bank Elevation		234.44		m. (MSL.) ,									
Right Bank Elevation		235.10		m. (MSL.) ,		Drainage Are	3,434		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	4.64	0.32	4.05	4.88	6.21	6.60	0.67	1.23	0.78	1.78	2.72	
2	0.26	8.74	0.43	5.26	3.45	6.02	6.40	0.62	1.34	0.84	1.67	2.60	
3	0.72	7.58	0.80	5.26	4.20	3.15	0.79	0.74	0.90	0.90	1.23	2.00	
4	1.89	2.72	4.50	2.78	4.69	1.50	0.79	0.60	0.78	1.12	1.78	1.45	
5	1.78	2.48	3.00	4.88	5.45	0.95	0.89	0.54	1.78	1.56	2.00	1.67	
6	0.28	10.50	0.79	8.65	4.50	1.04	0.76	0.52	2.12	2.00	2.36	1.67	
7	0.30	9.61	1.82	7.15	7.90	0.92	0.70	0.47	1.12	2.24	2.72	1.34	
8	60.60	4.28	0.78	9.71	5.45	0.80	0.72	3.56	0.84	2.48	2.24	2.96	
9	54.62	5.20	1.82	8.90	6.21	1.82	0.98	15.35	0.90	2.24	1.56	11.40	
10	30.37	12.00	1.82	5.64	9.17	4.20	7.65	6.60	3.08	2.12	1.34	17.54	
11	22.66	3.74	1.50	4.05	10.25	3.75	5.45	17.16	12.00	2.24	1.01	13.60	
12	16.40	0.84	1.82	8.15	10.79	1.50	1.66	17.54	18.30	2.24	0.78	2.72	
13	15.35	0.84	1.58	5.64	10.79	0.72	1.50	18.30	16.40	2.00	0.72	2.48	
14	12.00	0.90	0.77	5.64	13.05	0.64	0.79	11.10	7.00	1.67	0.66	2.48	
15	13.25	5.40	1.90	3.60	14.21	10.50	0.74	19.82	0.84	1.89	0.72	3.08	
16	7.87	9.32	1.34	5.64	11.33	12.30	0.72	20.20	0.78	1.89	0.78	2.84	
17	15.35	0.72	3.30	9.71	13.92	12.90	0.79	20.20	0.78	2.00	0.90	2.72	
18	7.58	0.60	0.95	6.90	28.44	13.25	0.77	22.25	0.72	2.24	3.08	2.60	
19	12.30	0.54	0.98	4.88	10.52	11.70	0.62	23.89	0.72	3.20	11.10	2.60	
20	12.30	0.48	2.12	16.00	8.90	11.70	0.61	23.48	0.66	4.64	21.02	2.72	
21	7.58	0.42	1.42	15.63	8.40	12.60	0.59	15.00	0.60	6.60	17.54	3.74	
22	13.95	0.72	1.74	11.60	2.67	13.25	0.63	6.60	0.60	19.82	23.89	13.95	
23	12.60	1.12	1.82	6.02	1.26	17.16	1.18	15.00	1.12	20.61	17.16	18.30	
24	4.64	0.42	0.98	6.65	1.01	17.16	1.74	15.00	1.34	8.74	21.84	14.65	
25	2.24	0.24	1.07	4.69	19.75	36.50	1.07	14.30	1.45	1.67	10.80	25.68	
26	2.60	0.24	1.82	5.45	11.33	62.00	0.80	5.00	1.34	1.78	3.74	30.37	
27	8.74	0.23	0.89	6.40	3.90	26.14	0.76	1.45	0.90	2.24	3.08	27.06	
28	11.70	0.24	0.74	4.88	2.78	15.35	0.72	1.45	0.72	2.48	2.84	25.22	
29	14.30	0.24	2.12	3.45	6.65	10.80	0.62	1.34	0.72	2.36		27.52	
30	12.30	0.27	2.78	6.02	9.17	8.16	0.58	1.34	0.72	2.12		26.60	
31		0.28		4.50	10.79		0.71		0.72	1.67		25.68	
<b>Total</b>	376.77	95.55	47.72	207.78	265.81	324.69	49.33	300.09	82.52	110.38	160.34	321.96	2342.94
<b>Mean</b>	12.56	3.08	1.59	6.70	8.57	10.82	1.59	10.00	2.66	3.56	5.73	10.39	6.42
<b>Max</b>	60.60	12.00	4.50	16.00	28.44	62.00	7.65	23.89	18.30	20.61	23.89	30.37	62.00
<b>Min</b>	0.24	0.23	0.32	2.78	1.01	0.64	0.58	0.47	0.60	0.78	0.66	1.34	0.23
<b>Runoff</b>	32.55	8.26	4.12	17.95	22.97	28.05	4.26	25.93	7.13	9.54	13.85	27.82	202.43
<b>Momentary Peak</b>	82.43 CMS. at 230.55 m. (MSL.) at 23.00 Hours , on Apr 8, 2021												
<b>Runoff Yield</b>	1.87 Liters/Second/Square KM.			<b>Momentary Peak Yield</b>				24.00 Liters/Second/Square KM.					

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Don Chai , Lampang (W.3A)

Lat 17 - 38 - 29 N Long 99 - 13 - 55 E

Location : on right bank about 30 meters upstream from Siriyong Bridge.

	Ban Don Chai	Amphoe Thoen	Changwat Lampang
<b>Drainage Area</b>	8,929 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+161.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from automatic gage building	<b>Elevation</b>	+167.074 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1967 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The channel is filled of the Mimosa pudica plants. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.17	160.55	160.44	160.23	160.53	161.81	161.90	162.21	160.47	160.22	160.27	160.40	
2	160.14	160.55	160.40	160.22	160.49	161.84	161.79	162.04	160.48	160.21	160.27	160.37	
3	160.12	160.66	160.36	160.22	160.52	161.84	161.71	161.86	160.48	160.20	160.26	160.34	
4	160.10	160.76	160.34	160.22	160.53	161.71	161.67	161.66	160.47	160.20	160.27	160.31	
5	160.10	160.83	160.38	160.22	160.52	161.55	161.53	161.50	160.45	160.21	160.27	160.29	
6	160.10	160.74	160.37	160.20	160.49	161.32	161.38	161.40	160.42	160.21	160.26	160.27	
7	160.10	160.77	160.36	160.79	160.53	161.51	161.29	161.30	160.41	160.20	160.24	160.25	
8	160.19	160.79	160.52	160.91	160.54	161.69	161.22	161.19	160.42	160.19	160.20	160.24	
9	160.48	160.80	160.59	160.95	160.53	163.28	161.14	161.09	160.41	160.18	160.23	160.23	
10	161.43	160.74	160.53	160.77	160.54	164.08	161.07	161.02	160.38	160.16	160.23	160.29	
11	161.27	160.68	160.53	160.91	160.55	163.76	161.06	160.99	160.37	160.14	160.23	160.26	
12	160.87	160.61	160.52	160.78	160.54	163.26	161.84	160.93	160.34	160.15	160.24	160.22	
13	160.73	160.60	160.49	160.83	160.57	162.51	162.38	160.86	160.32	160.26	160.19	160.21	
14	160.63	160.62	160.50	160.84	160.64	162.07	162.23	160.83	160.31	160.31	160.23	160.20	
15	160.56	160.59	160.48	161.01	160.71	162.15	161.89	160.83	160.34	160.29	160.28	160.21	
16	160.52	160.56	160.46	161.30	160.87	163.43	161.66	160.77	160.34	160.28	160.28	160.21	
17	160.54	160.53	160.54	160.79	161.02	163.35	162.28	160.75	160.38	160.27	160.33	160.21	
18	160.53	160.50	160.53	160.65	160.93	162.88	162.69	160.72	160.34	160.28	160.42	160.19	
19	160.54	160.48	160.47	160.56	161.07	162.45	162.18	160.69	160.31	160.27	160.48	160.20	
20	160.55	160.54	160.46	160.70	161.33	162.20	161.82	160.68	160.29	160.30	160.50	160.19	
21	160.52	160.51	160.47	160.67	161.20	161.76	161.61	160.71	160.26	160.30	160.50	160.20	
22	160.46	160.48	160.51	160.74	161.24	162.80	161.56	160.70	160.25	160.32	160.48	160.20	
23	160.44	160.46	160.45	160.84	161.15	164.15	161.78	160.67	160.25	160.32	160.70	160.32	
24	160.47	160.44	160.39	160.86	161.01	164.51	161.86	160.62	160.25	160.30	160.61	160.45	
25	160.49	160.41	160.31	160.88	160.88	164.01	162.00	160.58	160.26	160.28	160.61	160.48	
26	160.47	160.37	160.29	160.81	160.87	163.58	161.79	160.59	160.36	160.30	160.58	160.48	
27	160.47	160.43	160.27	160.73	161.62	163.64	161.55	160.60	160.28	160.36	160.47	160.47	
28	160.52	160.70	160.26	160.70	161.52	163.28	161.38	160.62	160.20	160.31	160.44	160.49	
29	160.55	160.48	160.24	160.64	161.41	162.76	161.31	160.55	160.16	160.29	160.29	160.59	
30	160.57	160.50	160.22	160.60	161.61	162.27	161.28	160.50	160.21	160.28	160.28	160.55	
31		160.52		160.59	161.74		161.64		160.22	160.24		160.53	
Mean	160.49	160.59	160.42	160.68	160.89	162.72	161.69	160.98	160.34	160.25	160.36	160.32	
Max	161.43	160.83	160.59	161.30	161.74	164.51	162.69	162.21	160.48	160.36	160.70	160.59	164.51
Min	160.10	160.37	160.22	160.20	160.49	161.32	161.06	160.50	160.16	160.14	160.19	160.10	
Annual Max Momentary Gage Height	164.60		m. (MSL.) ,			at 06.00 Hours ,	on Sep 24, 2021						
Zero Gage at Bottom Elevation	161.00		m. (MSL.) ,			River Bed	159.21	m. (MSL.)					
Left Bank Elevation		169.12		m. (MSL.) ,									
Right Bank Elevation		169.08		m. (MSL.) ,		Drainage Are	8,929	Square Kilometers					



## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Wang Man , Tak (W.4A)

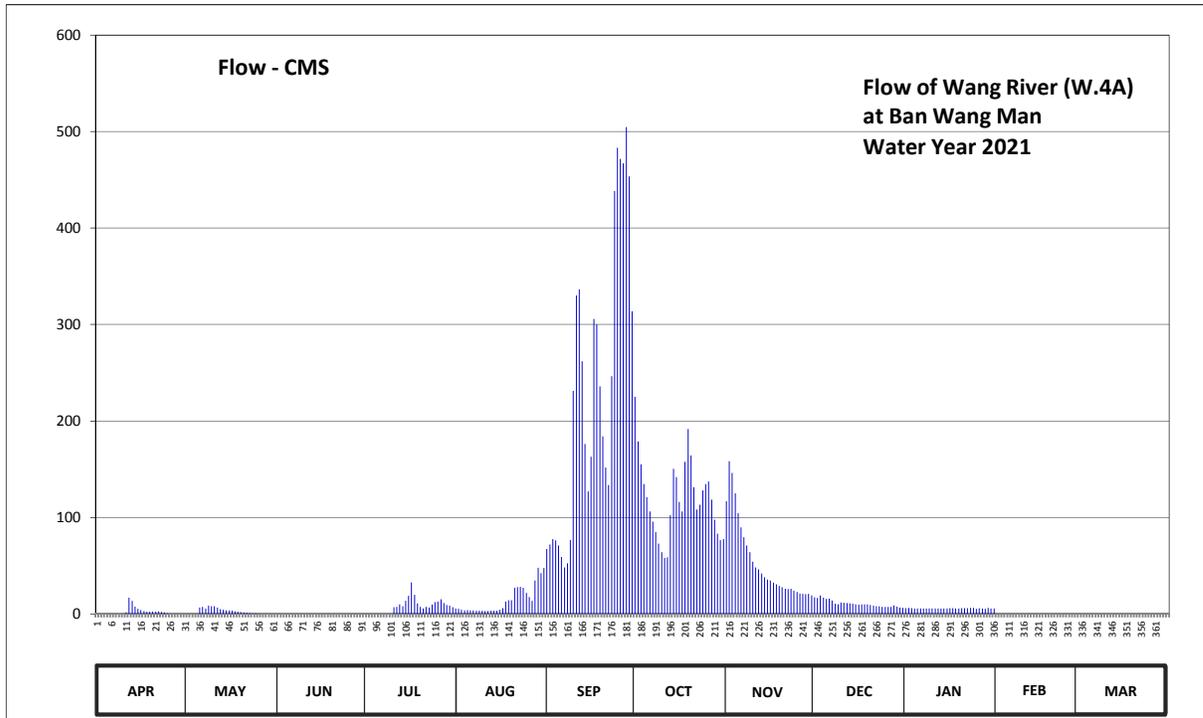
Lat 17 - 12 - 18 N Long 99 - 05 - 53 E

Location : on left bank about 200 meters upstream from the bridge on highway.

	Ban Wang Man	Amphoe Sam Ngao	Changwat Tak
<b>Drainage Area</b>	10,311 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+130.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of Wat Wang Man		<b>Elevation</b> +143.191 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1968 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1971 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1971 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good.Stage-discharge relation defined by 18 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.09	130.16	130.11	129.92	130.41	132.12	134.69	133.07	130.86	130.42	130.38	130.57	
2	130.12	130.17	130.09	129.93	130.38	132.22	134.06	133.75	130.84	130.44	130.41	130.57	
3	130.14	130.17	130.07	129.98	130.32	132.33	133.70	133.56	130.92	130.43	130.45	130.53	
4	130.11	130.14	130.03	129.99	130.27	132.30	133.37	133.21	130.85	130.41	130.45	130.50	
5	130.07	130.18	129.98	129.98	130.29	132.20	133.14	132.85	130.81	130.41	130.40	130.48	
6	130.07	130.45	129.99	129.98	130.27	131.94	132.88	132.57	130.82	130.41	130.43	130.46	
7	130.13	130.50	130.00	129.97	130.26	131.69	132.68	132.37	130.76	130.40	130.43	130.41	
8	130.11	130.40	130.00	130.00	130.23	131.79	132.47	132.20	130.64	130.40	130.42	130.41	
9	130.10	130.55	130.00	130.01	130.25	132.31	132.24	132.05	130.61	130.40	130.41	130.63	
10	130.08	130.52	130.00	129.95	130.24	134.77	132.05	131.83	130.69	130.40	130.42	130.84	
11	130.11	130.53	130.00	130.47	130.22	135.80	131.92	131.69	130.68	130.40	130.41	130.84	
12	130.85	130.45	129.98	130.50	130.22	135.85	131.93	131.64	130.66	130.40	130.41	130.85	
13	130.75	130.37	130.03	130.61	130.24	135.15	132.81	131.53	130.65	130.40	130.41	130.86	
14	130.51	130.31	130.05	130.52	130.23	134.02	133.63	131.43	130.64	130.40	130.42	130.85	
15	130.38	130.27	130.05	130.75	130.25	133.24	133.49	131.37	130.61	130.40	130.41	130.84	
16	130.30	130.26	130.05	130.91	130.32	133.82	133.06	131.34	130.60	130.42	130.41	130.83	
17	130.22	130.24	130.06	131.29	130.43	135.59	132.88	131.28	130.61	130.42	130.41	130.84	
18	130.18	130.20	130.04	130.94	130.73	135.54	133.74	131.23	130.61	130.41	130.41	130.85	
19	130.18	130.17	130.01	130.65	130.77	134.83	134.25	131.19	130.62	130.40	130.40	130.84	
20	130.18	130.14	129.98	130.50	130.77	134.14	133.84	131.15	130.59	130.42	130.41	130.85	
21	130.16	130.11	129.99	130.41	131.14	133.65	133.31	131.11	130.56	130.42	130.43	130.83	
22	130.19	130.08	129.97	130.50	131.15	133.35	132.92	131.10	130.53	130.42	130.46	130.81	
23	130.15	130.07	129.98	130.46	131.16	134.96	133.01	131.11	130.52	130.44	130.45	130.82	
24	130.12	130.05	129.99	130.60	131.14	136.51	133.26	131.06	130.50	130.44	130.47	130.82	
25	130.03	130.03	129.98	130.70	130.99	136.72	133.37	131.02	130.49	130.39	130.63	130.82	
26	129.99	130.02	129.87	130.73	130.87	136.67	133.41	130.97	130.49	130.43	130.59	130.80	
27	130.04	130.00	129.86	130.80	130.75	136.65	133.10	130.96	130.49	130.41	130.58	130.80	
28	130.06	129.98	129.85	130.67	131.34	136.81	132.72	130.95	130.57	130.39	130.55	130.79	
29	130.08	129.97	129.81	130.59	131.68	136.59	132.44	130.96	130.51	130.44		130.78	
30	130.12	130.14	129.81	130.55	131.54	135.66	132.31	130.92	130.46	130.41		130.78	
31		130.17		130.47	131.67		132.33		130.44	130.40		130.84	
Mean	130.19	130.22	129.99	130.43	130.66	134.31	133.06	131.72	130.63	130.41	130.44	130.73	
Max	130.85	130.55	130.11	131.29	131.68	136.81	134.69	133.75	130.92	130.44	130.63	130.86	136.81
Min	129.99	129.97	129.81	129.92	130.22	131.69	131.92	130.92	130.44	130.39	130.38	130.41	129.81
Annual Max Momentary Gage Height	136.88		m. (MSL.) ,				at 12.00 Hours , on Sep 28, 2021						
Zero Gage at Bottom Elevation	130.00		m. (MSL.) ,			River Bed	129.53	m. (MSL.)					
Left Bank Elevation		142.77		m. (MSL.) ,									
Right Bank Elevation		142.72		m. (MSL.) ,		Drainage Are	10,311	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	5.59	67.18	224.88	116.60	17.07	5.78	0.00	0.00	
2	0.00	0.00	0.00	0.00	5.12	71.90	178.62	158.15	16.38	6.16	0.00	0.00	
3	0.00	0.00	0.00	0.00	4.28	77.40	154.90	146.00	19.14	5.97	0.00	0.00	
4	0.00	0.00	0.00	0.00	3.58	75.90	134.60	125.00	16.73	5.59	0.00	0.00	
5	0.00	0.00	0.00	0.00	3.86	70.90	120.80	104.38	15.35	5.59	0.00	0.00	
6	0.00	6.35	0.00	0.00	3.58	58.93	105.98	89.66	15.69	5.59	0.00	0.00	
7	0.00	7.30	0.00	0.00	3.44	48.14	95.40	79.40	13.80	5.40	0.00	0.00	
8	0.00	5.40	0.00	0.00	3.02	52.29	84.51	70.90	10.44	5.40	0.00	0.00	
9	0.00	8.35	0.00	0.00	3.30	76.40	72.90	63.93	9.66	5.40	0.00	0.00	
10	0.00	7.72	0.00	0.00	3.16	231.08	63.93	54.04	11.74	5.40	0.00	0.00	
11	1.43	7.93	0.00	6.73	2.88	330.00	58.04	48.14	11.48	5.40	0.00	0.00	
12	16.73	6.35	0.00	7.30	2.88	336.38	58.49	46.06	10.96	5.40	0.00	0.00	
13	13.50	4.98	0.00	9.66	3.16	261.75	102.24	41.71	10.70	5.40	0.00	0.00	
14	7.51	4.14	0.00	7.72	3.02	175.94	150.35	37.86	10.44	5.40	0.00	0.00	
15	5.12	3.58	0.00	13.50	3.30	126.80	141.80	35.59	9.66	5.40	0.00	0.00	
16	4.00	3.44	0.00	18.80	4.28	162.72	116.00	34.48	9.40	5.78	0.00	0.00	
17	2.88	3.16	0.00	32.63	5.97	305.50	105.98	32.26	9.66	5.78	0.00	0.00	
18	2.34	2.60	0.00	19.83	12.90	300.00	157.50	30.41	9.66	5.59	0.00	0.00	
19	2.34	2.21	0.00	10.70	14.10	235.83	191.60	28.93	9.92	5.40	0.00	0.00	
20	2.34	1.82	0.00	7.30	14.10	183.98	164.04	27.45	9.19	5.78	0.00	0.00	
21	2.08	1.43	0.00	5.59	27.08	151.65	131.00	25.97	8.56	5.78	0.00	0.00	
22	2.47	1.04	0.00	7.30	27.45	133.40	108.12	25.60	7.93	5.78	0.00	0.00	
23	1.95	0.91	0.00	6.54	27.82	246.36	113.00	25.97	7.72	6.16	0.00	0.00	
24	1.56	0.65	0.00	9.40	27.08	438.03	128.00	24.12	7.30	6.16	0.00	0.00	
25	0.39	0.39	0.00	12.00	21.56	483.00	134.60	22.64	7.11	5.26	0.00	0.00	
26	0.00	0.26	0.00	12.90	17.42	471.50	137.00	20.87	7.11	5.97	0.00	0.00	
27	0.00	0.00	0.00	15.00	13.50	466.90	118.40	20.52	7.11	5.59	0.00	0.00	
28	0.00	0.00	0.00	11.22	34.48	504.39	97.50	20.18	8.77	5.26	0.00	0.00	
29	0.00	0.00	0.00	9.19	47.72	453.47	82.96	20.52	7.51	6.16	0.00	0.00	
30	0.00	0.00	0.00	8.35	42.09	313.62	76.40	19.14	6.54	5.59	0.00	0.00	
31	0.00	0.00	0.00	6.73	47.31	77.40	77.40	6.16	5.40	5.40	0.00	0.00	
<b>Total</b>	<b>66.64</b>	<b>80.01</b>	<b>0.00</b>	<b>238.39</b>	<b>439.03</b>	<b>6911.34</b>	<b>3686.94</b>	<b>1596.48</b>	<b>328.89</b>	<b>174.72</b>	<b>0.00</b>	<b>0.00</b>	<b>13522.44</b> CMSDAY
<b>Mean</b>	<b>2.22</b>	<b>2.58</b>	<b>0.00</b>	<b>7.69</b>	<b>14.16</b>	<b>230.38</b>	<b>118.93</b>	<b>53.22</b>	<b>10.61</b>	<b>5.64</b>	<b>0.00</b>	<b>0.00</b>	<b>37.05</b> CMS
<b>Max</b>	<b>16.73</b>	<b>8.35</b>	<b>0.00</b>	<b>32.63</b>	<b>47.72</b>	<b>504.39</b>	<b>224.88</b>	<b>158.15</b>	<b>19.14</b>	<b>6.16</b>	<b>0.00</b>	<b>0.00</b>	<b>504.39</b> CMS
<b>Min</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2.88</b>	<b>48.14</b>	<b>58.04</b>	<b>19.14</b>	<b>6.16</b>	<b>5.26</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>5.76</b>	<b>6.91</b>	<b>0.00</b>	<b>20.60</b>	<b>37.93</b>	<b>597.14</b>	<b>318.55</b>	<b>137.94</b>	<b>28.42</b>	<b>15.10</b>	<b>0.00</b>	<b>0.00</b>	<b>1168.34</b> MCM
<b>Momentary Peak</b>	<b>525.32</b>	<b>CMS.</b>	<b>at 136.88 m. (MSL.)</b>	<b>at 12.00 Hours</b>	<b>, on Sep 28, 2021</b>								
<b>Runoff Yield</b>	<b>3.53</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>50.06</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Don Mun , Lampang (W.10A)

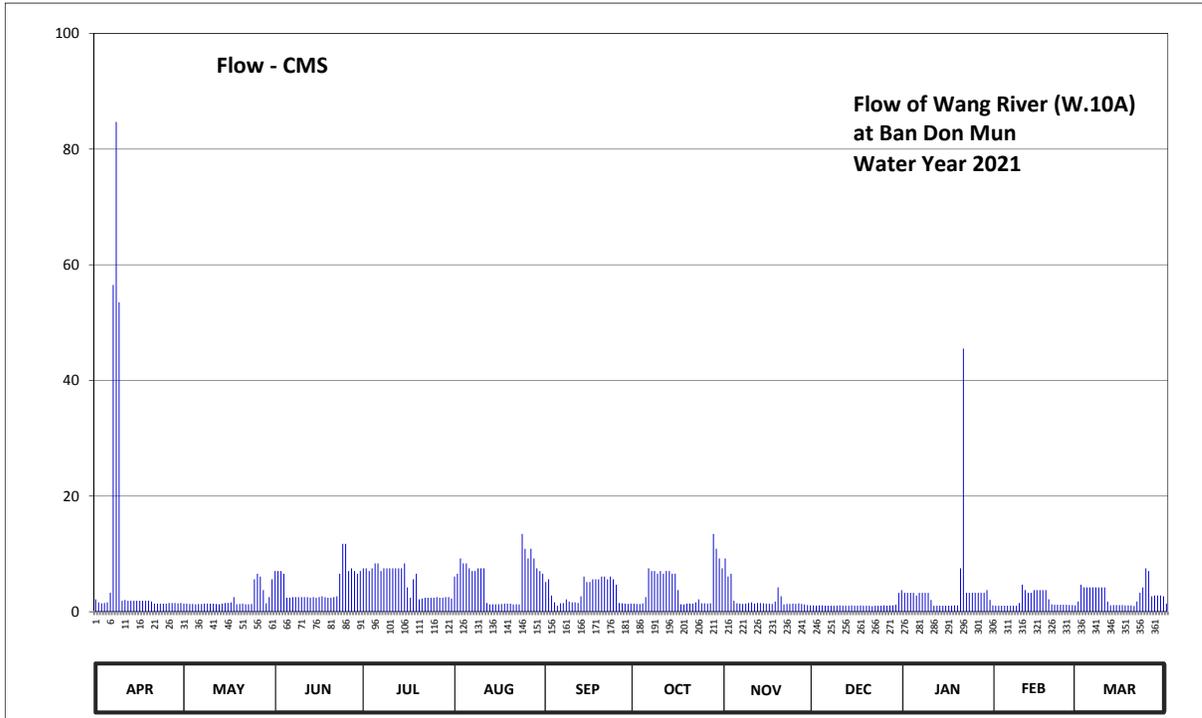
Lat 18 - 31 - 07 N Long 99 - 37 - 58 E

Location : on left bank at Ban Don Mun

	Ban Don Mun	Amphoe Mueang	Changwat Lampang
<b>Drainage Area</b>	2,777 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+259.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the bridge.	<b>Elevation</b>	+270.290 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 32 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	260.15	260.08	260.29	260.30	260.27	260.25	260.08	260.32	260.02	260.21	260.01	260.12	
2	260.11	260.08	260.29	260.30	260.28	260.26	260.07	260.27	260.01	260.21	260.01	260.24	
3	260.09	260.07	260.29	260.29	260.32	260.20	260.07	260.28	260.02	260.21	260.01	260.23	
4	260.10	260.07	260.28	260.30	260.31	260.11	260.09	260.13	260.02	260.21	260.01	260.23	
5	260.11	260.06	260.17	260.31	260.31	260.01	260.18	260.09	260.01	260.20	260.01	260.23	
6	260.21	260.07	260.17	260.31	260.30	260.09	260.30	260.08	260.01	260.21	260.01	260.23	
7	260.73	260.07	260.18	260.29	260.29	260.10	260.29	260.07	260.01	260.21	260.01	260.23	
8	260.91	260.08	260.18	260.30	260.29	260.15	260.29	260.08	260.01	260.21	260.01	260.23	
9	260.71	260.08	260.18	260.30	260.30	260.12	260.28	260.10	260.01	260.21	260.10	260.23	
10	260.13	260.08	260.18	260.30	260.30	260.11	260.29	260.11	260.02	260.14	260.24	260.23	
11	260.14	260.08	260.18	260.30	260.30	260.11	260.28	260.08	260.01	260.01	260.22	260.12	
12	260.13	260.07	260.18	260.30	260.10	260.10	260.29	260.10	260.01	260.01	260.21	260.02	
13	260.13	260.06	260.17	260.30	260.05	260.19	260.29	260.10	260.01	260.01	260.21	260.03	
14	260.13	260.08	260.18	260.30	260.06	260.27	260.28	260.09	260.02	260.01	260.22	260.03	
15	260.13	260.10	260.17	260.31	260.06	260.25	260.28	260.08	260.01	260.01	260.22	260.03	
16	260.13	260.10	260.18	260.23	260.06	260.25	260.22	260.08	260.01	260.01	260.22	260.03	
17	260.13	260.11	260.19	260.17	260.07	260.26	260.06	260.07	260.02	260.01	260.22	260.02	
18	260.13	260.18	260.18	260.26	260.08	260.26	260.05	260.12	260.01	260.02	260.22	260.02	
19	260.13	260.06	260.17	260.28	260.08	260.26	260.08	260.23	260.01	260.02	260.15	260.02	
20	260.12	260.07	260.17	260.15	260.08	260.27	260.08	260.19	260.01	260.30	260.05	260.00	
21	260.08	260.08	260.18	260.16	260.05	260.27	260.08	260.05	259.99	260.65	260.04	260.12	
22	260.08	260.06	260.19	260.17	260.06	260.26	260.11	260.07	260.01	260.21	260.04	260.21	
23	260.08	260.06	260.28	260.17	260.05	260.27	260.15	260.07	260.01	260.21	260.04	260.23	
24	260.08	260.07	260.35	260.17	260.37	260.26	260.09	260.08	260.01	260.21	260.04	260.30	
25	260.08	260.26	260.35	260.17	260.34	260.24	260.09	260.07	260.02	260.21	260.04	260.29	
26	260.10	260.28	260.29	260.18	260.32	260.10	260.08	260.09	260.01	260.21	260.03	260.19	
27	260.10	260.27	260.30	260.17	260.34	260.09	260.09	260.07	260.02	260.21	260.03	260.20	
28	260.10	260.22	260.29	260.17	260.32	260.08	260.37	260.05	260.02	260.21	260.02	260.20	
29	260.09	260.09	260.28	260.18	260.30	260.07	260.34	260.03	260.04	260.22		260.20	
30	260.10	260.18	260.29	260.18	260.29	260.08	260.32	260.02	260.21	260.14		260.19	
31		260.26		260.16	260.28		260.30		260.22	260.02		260.08	
Mean	260.18	260.11	260.23	260.24	260.21	260.18	260.19	260.11	260.03	260.16	260.09	260.15	
Max	260.91	260.28	260.35	260.31	260.37	260.27	260.37	260.32	260.22	260.65	260.24	260.30	260.91
Min	260.08	260.06	260.17	260.15	260.05	260.01	260.05	260.02	259.99	260.01	260.01	260.00	259.99
Annual Max Momentary Gage Height	261.00		m. (MSL.) ,				at 11.00 Hours ,						
Zero Gage at Bottom Elevation	259.00		m. (MSL.) ,			River Bed	258.52		m. (MSL.)				
Left Bank Elevation	270.17		m. (MSL.) ,										
Right Bank Elevation	269.86		m. (MSL.) ,		Drainage Are	2,777	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.15	1.40	7.03	7.50	6.09	5.15	1.40	9.20	1.10	3.27	1.05	1.76	
2	1.63	1.40	7.03	7.50	6.56	5.62	1.35	6.09	1.05	3.27	1.05	4.68	
3	1.45	1.35	7.03	7.03	9.20	2.80	1.35	6.56	1.10	3.27	1.05	4.21	
4	1.50	1.35	6.56	7.50	8.35	1.63	1.45	1.89	1.10	3.27	1.05	4.21	
5	1.63	1.30	2.41	8.35	8.35	1.05	2.54	1.45	1.05	2.80	1.05	4.21	
6	3.27	1.35	2.41	8.35	7.50	1.45	7.50	1.40	1.05	3.27	1.05	4.21	
7	56.50	1.35	2.54	7.03	7.03	1.50	7.03	1.35	1.05	3.27	1.05	4.21	
8	84.70	1.40	2.54	7.50	7.03	2.15	7.03	1.40	1.05	3.27	1.05	4.21	
9	53.50	1.40	2.54	7.50	7.50	1.76	6.56	1.50	1.05	3.27	1.50	4.21	
10	1.89	1.40	2.54	7.50	7.50	1.63	7.03	1.63	1.10	2.02	4.68	4.21	
11	2.02	1.40	2.54	7.50	7.50	1.63	6.56	1.40	1.05	1.05	3.74	1.76	
12	1.89	1.35	2.54	7.50	1.50	1.50	7.03	1.50	1.05	1.05	3.27	1.10	
13	1.89	1.30	2.41	7.50	1.25	2.67	7.03	1.50	1.05	1.05	3.27	1.15	
14	1.89	1.40	2.54	7.50	1.30	6.09	6.56	1.45	1.10	1.05	3.74	1.15	
15	1.89	1.50	2.41	8.35	1.30	5.15	6.56	1.40	1.05	1.05	3.74	1.15	
16	1.89	1.50	2.54	4.21	1.30	5.15	3.74	1.40	1.05	1.05	3.74	1.15	
17	1.89	1.63	2.67	2.41	1.35	5.62	1.30	1.35	1.10	1.05	3.74	1.10	
18	1.89	2.54	2.54	5.62	1.40	5.62	1.25	1.76	1.05	1.10	3.74	1.10	
19	1.89	1.30	2.41	6.56	1.40	5.62	1.40	4.21	1.05	1.10	2.15	1.10	
20	1.76	1.35	2.41	2.15	1.40	6.09	1.40	2.67	1.05	7.50	1.25	1.00	
21	1.40	1.40	2.54	2.28	1.25	6.09	1.40	1.25	0.95	45.50	1.20	1.76	
22	1.40	1.30	2.67	2.41	1.30	5.62	1.63	1.35	1.05	3.27	1.20	3.27	
23	1.40	1.30	6.56	2.41	1.25	6.09	2.15	1.35	1.05	3.27	1.20	4.21	
24	1.40	1.35	11.75	2.41	13.45	5.62	1.45	1.40	1.05	3.27	1.20	7.50	
25	1.40	5.62	11.75	2.41	10.90	4.68	1.45	1.35	1.10	3.27	1.20	7.03	
26	1.50	6.56	7.03	2.54	9.20	1.50	1.40	1.45	1.05	3.27	1.15	2.67	
27	1.50	6.09	7.50	2.41	10.90	1.45	1.45	1.35	1.10	3.27	1.15	2.80	
28	1.50	3.74	7.03	2.41	9.20	1.40	13.45	1.25	1.10	3.27	1.10	2.80	
29	1.45	1.45	6.56	2.54	7.50	1.35	10.90	1.15	1.20	3.74		2.80	
30	1.50	2.54	7.03	2.54	7.03	1.40	9.20	1.10	3.27	2.02		2.67	
31		5.62		2.28	6.56		7.50		3.74	1.10		1.40	
Total	241.57	65.94	138.06	161.70	173.35	105.08	138.05	64.11	37.96	123.28	56.36	90.79	1396.25 CMSDAY
Mean	8.05	2.13	4.60	5.22	5.59	3.50	4.45	2.14	1.22	3.98	2.01	2.93	3.83 CMS
Max	84.70	6.56	11.75	8.35	13.45	6.09	13.45	9.20	3.74	45.50	4.68	7.50	84.70 CMS
Min	1.40	1.30	2.41	2.15	1.25	1.05	1.25	1.10	0.95	1.05	1.05	1.00	0.95 CMS
Runoff	20.87	5.70	11.93	13.97	14.98	9.08	11.23	5.54	3.28	10.65	4.87	7.84	120.64 MCM
Momentary Peak	100.00 CMS. at 261.00 m. (MSL.) at 11.00 Hours , on Apr 9, 2021												
Runoff Yield	1.38 Liters/Second/Square KM. Momentary Peak Yield 36.01 Liters/Second/Square KM.												

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Hai , Lampang (W.16A)

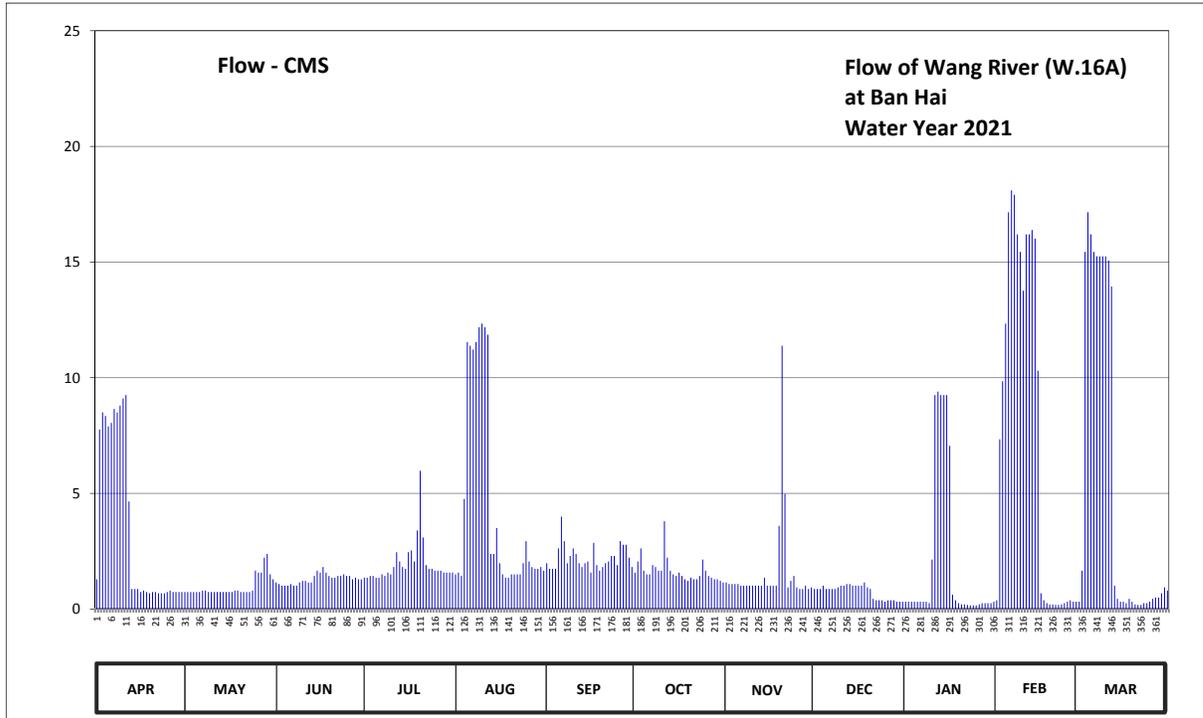
Lat 18 - 47 - 07 N Long 99 - 37 - 49 E

Location : on left bank at Ban Hai

	<b>Ban Hai</b>	<b>Amphoe</b> Chae Hom	<b>Changwat</b> Lampang
<b>Drainage Area</b>	1,395 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+304.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 10.00 meters from the top staff gage.	<b>Elevation</b>	+310.113 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1995 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1995 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1995 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The pumping station is located about 150 meters upstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	304.77	304.69	304.75	304.78	304.80	304.86	304.81	304.75	304.71	304.62	304.63	304.62	
2	305.39	304.69	304.74	304.78	304.81	304.83	304.87	304.74	304.71	304.62	305.36	304.82	
3	305.44	304.69	304.73	304.79	304.79	304.83	304.94	304.74	304.71	304.62	305.53	305.86	
4	305.43	304.69	304.73	304.79	305.16	304.83	304.82	304.74	304.73	304.62	305.69	305.95	
5	305.40	304.69	304.73	304.78	305.64	304.94	304.80	304.74	304.71	304.62	305.95	305.90	
6	305.41	304.69	304.74	304.78	305.63	305.09	304.80	304.73	304.71	304.62	306.00	305.86	
7	305.45	304.70	304.73	304.80	305.62	304.98	304.85	304.73	304.71	304.62	305.99	305.85	
8	305.44	304.70	304.73	304.79	305.64	304.86	304.84	304.73	304.71	304.62	305.90	305.85	
9	305.46	304.69	304.75	304.81	305.68	304.90	304.82	304.73	304.72	304.61	305.86	305.85	
10	305.48	304.69	304.76	304.80	305.69	304.94	304.82	304.73	304.73	304.88	305.77	305.85	
11	305.49	304.69	304.76	304.84	305.68	304.91	305.07	304.73	304.73	305.49	305.90	305.84	
12	305.15	304.69	304.75	304.92	305.66	304.86	304.89	304.73	304.74	305.50	305.90	305.78	
13	304.71	304.69	304.75	304.87	304.91	304.84	304.82	304.73	304.74	305.49	305.91	304.73	
14	304.71	304.69	304.79	304.84	304.91	304.86	304.80	304.78	304.73	305.49	305.89	304.64	
15	304.71	304.69	304.82	304.83	305.04	304.87	304.79	304.73	304.73	305.49	305.56	304.62	
16	304.69	304.69	304.81	304.92	304.86	304.81	304.81	304.73	304.73	305.34	304.68	304.62	
17	304.70	304.69	304.84	304.93	304.80	304.97	304.79	304.73	304.73	304.67	304.63	304.61	
18	304.69	304.70	304.81	304.87	304.78	304.85	304.77	304.73	304.75	304.63	304.61	304.64	
19	304.68	304.70	304.79	305.03	304.78	304.82	304.76	305.05	304.72	304.61	304.60	304.62	
20	304.69	304.69	304.78	305.26	304.80	304.84	304.78	305.63	304.71	304.60	304.60	304.60	
21	304.69	304.69	304.78	305.00	304.80	304.86	304.77	305.18	304.64	304.60	304.59	304.59	
22	304.68	304.69	304.79	304.85	304.80	304.87	304.77	304.72	304.63	304.59	304.59	304.59	
23	304.68	304.69	304.79	304.83	304.80	304.90	304.79	304.76	304.63	304.58	304.60	304.61	
24	304.68	304.70	304.80	304.83	304.86	304.90	304.88	304.79	304.63	304.58	304.61	304.61	
25	304.69	304.82	304.79	304.82	304.98	304.85	304.82	304.72	304.62	304.58	304.62	304.62	
26	304.70	304.81	304.79	304.82	304.87	304.98	304.79	304.71	304.63	304.60	304.63	304.64	
27	304.69	304.81	304.77	304.82	304.84	304.96	304.78	304.71	304.63	304.61	304.62	304.65	
28	304.69	304.89	304.78	304.81	304.83	304.96	304.77	304.73	304.63	304.61	304.62	304.65	
29	304.69	304.91	304.77	304.81	304.83	304.89	304.77	304.71	304.62	304.61		304.68	
30	304.69	304.80	304.77	304.81	304.84	304.84	304.76	304.72	304.62	304.61		304.72	
31		304.77		304.81	304.82		304.75		304.62	304.62		304.70	
Mean	304.96	304.72	304.77	304.85	305.06	304.89	304.82	304.79	304.69	304.79	305.21	305.04	
Max	305.49	304.91	304.84	305.26	305.69	305.09	305.07	305.63	304.75	305.50	306.00	305.95	306.00
Min	304.68	304.69	304.73	304.78	304.78	304.81	304.75	304.71	304.62	304.58	304.59	304.59	304.58
Annual Max Momentary Gage Height	306.05		m. (MSL.) ,				at 23.00 Hours ,						
Zero Gage at Bottom Elevation	304.00		m. (MSL.) ,			River Bed	303.73	m. (MSL.)					
Left Bank Elevation		310.13		m. (MSL.) ,									
Right Bank Elevation		310.11		m. (MSL.) ,		Drainage Are	1,395	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.29	0.74	1.15	1.36	1.50	1.98	1.58	1.15	0.87	0.32	0.38	0.32	
2	7.76	0.74	1.08	1.36	1.58	1.74	2.06	1.08	0.87	0.32	7.34	1.66	
3	8.50	0.74	1.01	1.43	1.43	1.74	2.62	1.08	0.87	0.32	9.85	15.44	
4	8.35	0.74	1.01	1.43	4.76	1.74	1.66	1.08	1.01	0.32	12.34	17.15	
5	7.90	0.74	1.01	1.36	11.54	2.62	1.50	1.08	0.87	0.32	17.15	16.20	
6	8.05	0.74	1.08	1.36	11.38	4.00	1.50	1.01	0.87	0.32	18.10	15.44	
7	8.65	0.80	1.01	1.50	11.22	2.94	1.90	1.01	0.87	0.32	17.91	15.25	
8	8.50	0.80	1.01	1.43	11.54	1.98	1.82	1.01	0.87	0.32	16.20	15.25	
9	8.80	0.74	1.15	1.58	12.18	2.30	1.66	1.01	0.94	0.26	15.44	15.25	
10	9.10	0.74	1.22	1.50	12.34	2.62	1.66	1.01	1.01	2.14	13.76	15.25	
11	9.25	0.74	1.22	1.82	12.18	2.38	3.80	1.01	1.01	9.25	16.20	15.06	
12	4.65	0.74	1.15	2.46	11.86	1.98	2.22	1.01	1.08	9.40	16.20	13.94	
13	0.87	0.74	1.15	2.06	2.38	1.82	1.66	1.01	1.08	9.25	16.39	1.01	
14	0.87	0.74	1.43	1.82	2.38	1.98	1.50	1.36	1.01	9.25	16.01	0.44	
15	0.87	0.74	1.66	1.74	3.50	2.06	1.43	1.01	1.01	9.25	10.30	0.32	
16	0.74	0.74	1.58	2.46	1.98	1.58	1.58	1.01	1.01	7.06	0.68	0.32	
17	0.80	0.74	1.82	2.54	1.50	2.86	1.43	1.01	1.01	0.62	0.38	0.26	
18	0.74	0.80	1.58	2.06	1.36	1.90	1.29	1.01	1.15	0.38	0.26	0.44	
19	0.68	0.80	1.43	3.40	1.36	1.66	1.22	3.60	0.94	0.26	0.20	0.32	
20	0.74	0.74	1.36	5.98	1.50	1.82	1.36	11.38	0.87	0.20	0.20	0.20	
21	0.74	0.74	1.36	3.10	1.50	1.98	1.29	4.98	0.44	0.20	0.18	0.18	
22	0.68	0.74	1.43	1.90	1.50	2.06	1.29	0.94	0.38	0.18	0.18	0.18	
23	0.68	0.74	1.43	1.74	1.50	2.30	1.43	1.22	0.38	0.16	0.20	0.26	
24	0.68	0.80	1.50	1.74	1.98	2.30	2.14	1.43	0.38	0.16	0.26	0.26	
25	0.74	1.66	1.43	1.66	2.94	1.90	1.66	0.94	0.32	0.16	0.32	0.32	
26	0.80	1.58	1.43	1.66	2.06	2.94	1.43	0.87	0.38	0.20	0.38	0.44	
27	0.74	1.58	1.29	1.66	1.82	2.78	1.36	0.87	0.38	0.26	0.32	0.50	
28	0.74	2.22	1.36	1.58	1.74	2.78	1.29	1.01	0.38	0.26	0.32	0.50	
29	0.74	2.38	1.29	1.58	1.74	2.22	1.29	0.87	0.32	0.26		0.68	
30	0.74	1.50	1.29	1.58	1.82	1.82	1.22	0.94	0.32	0.26		0.94	
31		1.29		1.58	1.66		1.15		0.32	0.32		0.80	
Total	104.39	30.27	38.92	60.43	139.73	66.78	51.00	48.00	23.22	62.30	207.45	164.58	997.07 CMSDAY
Mean	3.48	0.98	1.30	1.95	4.51	2.23	1.65	1.60	0.75	2.01	7.41	5.31	2.73 CMS
Max	9.25	2.38	1.82	5.98	12.34	4.00	3.80	11.38	1.15	9.40	18.10	17.15	18.10 CMS
Min	0.68	0.74	1.01	1.36	1.36	1.58	1.15	0.87	0.32	0.16	0.18	0.18	0.16 CMS
Runoff	9.02	2.62	3.36	5.22	12.07	5.77	4.41	4.15	2.01	5.38	17.92	14.22	86.15 MCM
Momentary Peak	19.13	CMS.	at 306.05 m. (MSL.)	at 23.00 Hours	, on Nov 19, 2021								
Runoff Yield	1.96	Liters/Second/Square KM.		Momentary Peak Yield	13.71	Liters/Second/Square KM.							

## WATER YEAR : 2021

## WANG RIVER BASIN

Nam Mae Soi at Ban Nong Nao , Lampang (W.17)

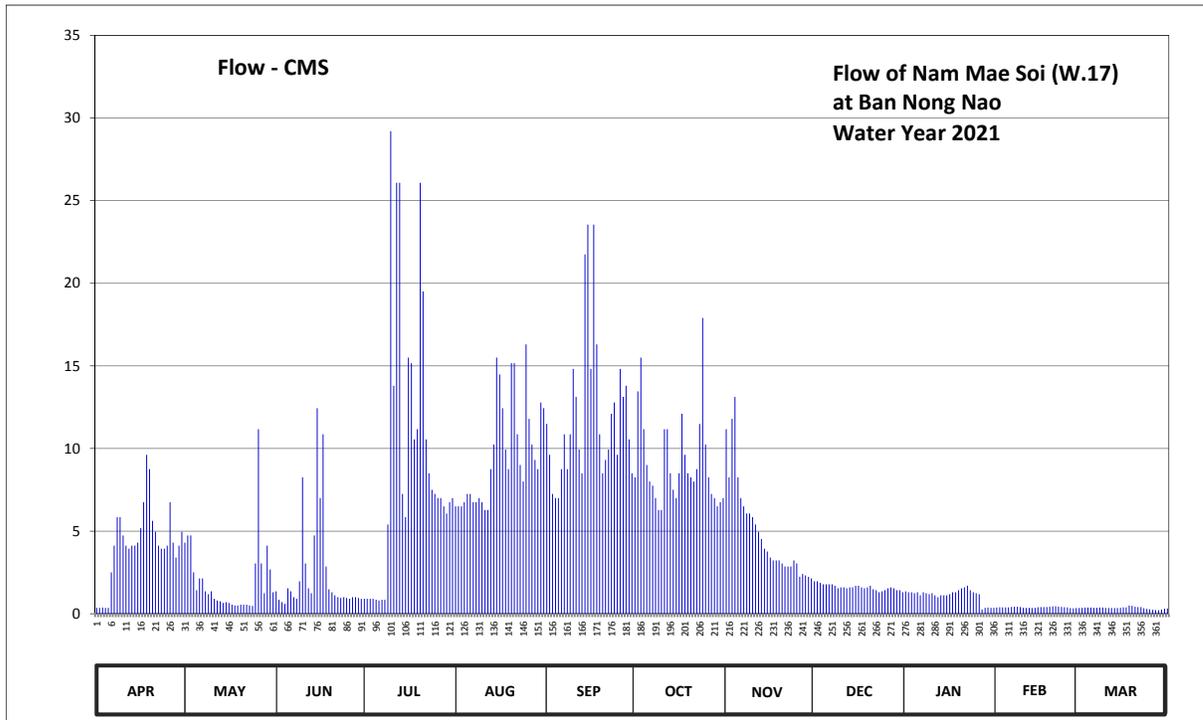
Lat 18 - 43 - 20 N Long 99 - 34 - 02 E

Location : on right at the bridge of Lampang - Wang Nua Road.

	<b>Ban Nong Nao</b>	<b>Amphoe Chae Hom</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	719 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+292.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 21 meters from the top staff gage.	<b>Elevation</b>	+296.276 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1980 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.26	291.40	291.16	291.08	291.50	291.68	291.57	291.67	291.24	291.16	291.27	291.25	
2	291.26	291.42	291.07	291.08	291.50	291.62	291.74	291.57	291.24	291.15	291.29	291.26	
3	291.27	291.42	291.04	291.08	291.50	291.53	291.80	291.69	291.23	291.15	291.28	291.27	
4	291.26	291.30	291.02	291.08	291.51	291.52	291.67	291.73	291.22	291.14	291.28	291.27	
5	291.26	291.17	291.19	291.07	291.53	291.52	291.60	291.57	291.22	291.15	291.28	291.27	
6	291.30	291.26	291.16	291.06	291.53	291.59	291.56	291.52	291.22	291.12	291.31	291.26	
7	291.39	291.26	291.10	291.07	291.51	291.66	291.55	291.50	291.22	291.15	291.32	291.26	
8	291.47	291.16	291.08	291.07	291.51	291.59	291.52	291.48	291.21	291.14	291.32	291.27	
9	291.47	291.13	291.24	291.45	291.52	291.66	291.49	291.48	291.19	291.13	291.30	291.27	
10	291.42	291.16	291.57	292.10	291.51	291.78	291.49	291.47	291.20	291.14	291.26	291.26	
11	291.39	291.08	291.33	291.75	291.49	291.73	291.67	291.45	291.20	291.12	291.25	291.25	
12	291.38	291.06	291.19	292.04	291.49	291.63	291.67	291.43	291.19	291.10	291.26	291.25	
13	291.39	291.05	291.14	292.04	291.59	291.58	291.58	291.41	291.20	291.12	291.25	291.25	
14	291.39	291.03	291.42	291.53	291.64	291.95	291.54	291.38	291.20	291.12	291.26	291.25	
15	291.40	291.04	291.71	291.47	291.80	291.99	291.52	291.37	291.21	291.12	291.29	291.26	
16	291.44	291.03	291.52	291.80	291.77	291.78	291.58	291.35	291.21	291.13	291.30	291.28	
17	291.51	291.01	291.66	291.79	291.71	291.99	291.70	291.34	291.20	291.15	291.30	291.28	
18	291.62	291.00	291.32	291.65	291.63	291.82	291.62	291.34	291.19	291.15	291.30	291.40	
19	291.59	291.00	291.18	291.67	291.59	291.66	291.58	291.34	291.20	291.17	291.32	291.38	
20	291.46	291.01	291.15	292.04	291.79	291.58	291.57	291.33	291.21	291.19	291.35	291.32	
21	291.43	291.01	291.12	291.90	291.79	291.61	291.56	291.32	291.18	291.20	291.35	291.30	
22	291.39	291.01	291.10	291.65	291.66	291.63	291.59	291.32	291.17	291.21	291.33	291.30	
23	291.38	291.00	291.09	291.58	291.60	291.70	291.68	291.32	291.15	291.17	291.31	291.24	
24	291.38	290.99	291.10	291.54	291.56	291.72	291.86	291.34	291.16	291.15	291.29	291.20	
25	291.39	291.33	291.09	291.53	291.82	291.62	291.64	291.33	291.17	291.14	291.28	291.17	
26	291.51	291.67	291.08	291.52	291.69	291.78	291.57	291.27	291.19	291.13	291.24	291.14	
27	291.40	291.33	291.10	291.52	291.64	291.73	291.53	291.29	291.20	291.16	291.23	291.12	
28	291.35	291.14	291.10	291.50	291.61	291.75	291.52	291.28	291.19	291.26	291.25	291.11	
29	291.39	291.39	291.09	291.48	291.59	291.65	291.50	291.27	291.17	291.27		291.15	
30	291.43	291.31	291.08	291.51	291.72	291.58	291.51	291.26	291.17	291.26		291.21	
31		291.15		291.52	291.71		291.52		291.15	291.26		291.22	
Mean	291.40	291.17	291.21	291.52	291.61	291.69	291.60	291.41	291.20	291.16	291.29	291.25	
Max	291.62	291.67	291.71	292.10	291.82	291.99	291.86	291.73	291.24	291.27	291.35	291.40	292.10
Min	291.26	290.99	291.02	291.06	291.49	291.52	291.49	291.26	291.15	291.10	291.23	291.11	290.99
Annual Max Momentary Gage Height	292.37		m. (MSL.) ,				at 03.00 Hours ,						on Jul 13, 2021
Zero Gage at Bottom Elevation	292.00		m. (MSL.) ,			River Bed	290.77	m. (MSL.)					
Left Bank Elevation	296.51		m. (MSL.) ,										
Right Bank Elevation	296.46		m. (MSL.) ,			Drainage Are	719	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	4.30	1.36	0.90	6.50	11.48	8.25	11.17	1.96	1.36	0.37	0.35	
2	0.36	4.74	0.85	0.90	6.50	9.62	13.46	8.25	1.96	1.30	0.39	0.36	
3	0.37	4.74	0.70	0.90	6.50	7.25	15.50	11.79	1.87	1.30	0.38	0.37	
4	0.36	2.50	0.60	0.90	6.75	7.00	11.17	13.12	1.78	1.24	0.38	0.37	
5	0.36	1.42	1.54	0.85	7.25	7.00	9.00	8.25	1.78	1.30	0.38	0.37	
6	2.50	2.14	1.36	0.80	7.25	8.75	8.00	7.00	1.78	1.12	0.41	0.36	
7	4.12	2.14	1.00	0.85	6.75	10.86	7.75	6.50	1.78	1.30	0.42	0.36	
8	5.84	1.36	0.90	0.85	6.75	8.75	7.00	6.06	1.69	1.24	0.42	0.37	
9	5.84	1.18	1.96	5.40	7.00	10.86	6.28	6.06	1.54	1.18	0.40	0.37	
10	4.74	1.36	8.25	29.20	6.75	14.82	6.28	5.84	1.60	1.24	0.36	0.36	
11	4.12	0.90	3.04	13.80	6.28	13.12	11.17	5.40	1.60	1.12	0.35	0.35	
12	3.94	0.80	1.54	26.08	6.28	9.93	11.17	4.96	1.54	1.00	0.36	0.35	
13	4.12	0.75	1.24	26.08	8.75	8.50	8.50	4.52	1.60	1.12	0.35	0.35	
14	4.12	0.65	4.74	7.25	10.24	21.75	7.50	3.94	1.60	1.12	0.36	0.35	
15	4.30	0.70	12.44	5.84	15.50	23.55	7.00	3.76	1.69	1.12	0.39	0.36	
16	5.18	0.65	7.00	15.50	14.48	14.82	8.50	3.40	1.69	1.18	0.40	0.38	
17	6.75	0.55	10.86	15.16	12.44	23.55	12.10	3.22	1.60	1.30	0.40	0.38	
18	9.62	0.50	2.86	10.55	9.93	16.30	9.62	3.22	1.54	1.30	0.40	0.50	
19	8.75	0.50	1.48	11.17	8.75	10.86	8.50	3.22	1.60	1.42	0.42	0.48	
20	5.62	0.55	1.30	26.08	15.16	8.50	8.25	3.04	1.69	1.54	0.45	0.42	
21	4.96	0.55	1.12	19.50	15.16	9.31	8.00	2.86	1.48	1.60	0.45	0.40	
22	4.12	0.55	1.00	10.55	10.86	9.93	8.75	2.86	1.42	1.69	0.43	0.40	
23	3.94	0.50	0.95	8.50	9.00	12.10	11.48	2.86	1.30	1.42	0.41	0.34	
24	3.94	0.47	1.00	7.50	8.00	12.78	17.90	3.22	1.36	1.30	0.39	0.30	
25	4.12	3.04	0.95	7.25	16.30	9.62	10.24	3.04	1.42	1.24	0.38	0.27	
26	6.75	11.17	0.90	7.00	11.79	14.82	8.25	2.23	1.54	1.18	0.34	0.24	
27	4.30	3.04	1.00	7.00	10.24	13.12	7.25	2.41	1.60	0.26	0.33	0.22	
28	3.40	1.24	1.00	6.50	9.31	13.80	7.00	2.32	1.54	0.36	0.35	0.21	
29	4.12	4.12	0.95	6.06	8.75	10.55	6.50	2.23	1.42	0.37		0.25	
30	4.96	2.68	0.90	6.75	12.78	8.50	6.75	2.14	1.42	0.36		0.31	
31		1.30		7.00	12.44		7.00		1.30	0.36		0.32	
Total	125.98	61.09	74.79	292.67	300.44	361.80	284.12	148.89	49.69	34.94	10.87	10.82	1756.10 CMSDAY
Mean	4.20	1.97	2.49	9.44	9.69	12.06	9.17	4.96	1.60	1.13	0.39	0.35	4.81 CMS
Max	9.62	11.17	12.44	29.20	16.30	23.55	17.90	13.12	1.96	1.69	0.45	0.50	29.20 CMS
Min	0.36	0.47	0.60	0.80	6.28	7.00	6.28	2.14	1.30	0.26	0.33	0.21	0.21 CMS
Runoff	10.88	5.28	6.46	25.29	25.96	31.26	24.55	12.86	4.29	3.02	0.94	0.93	151.73 MCM
Momentary Peak		45.11 CMS.											at 292.37 m. (MSL.) at 03.00 Hours , on Jul 13, 2021
Runoff Yield		6.69											Liters/Second/Square KM. Momentary Peak Yield 62.74 Liters/Second/Square KM.

## WATER YEAR : 2021

## WANG RIVER BASIN

Nam Mae Tui at Ban Tha Lo , Lampang (W.20)

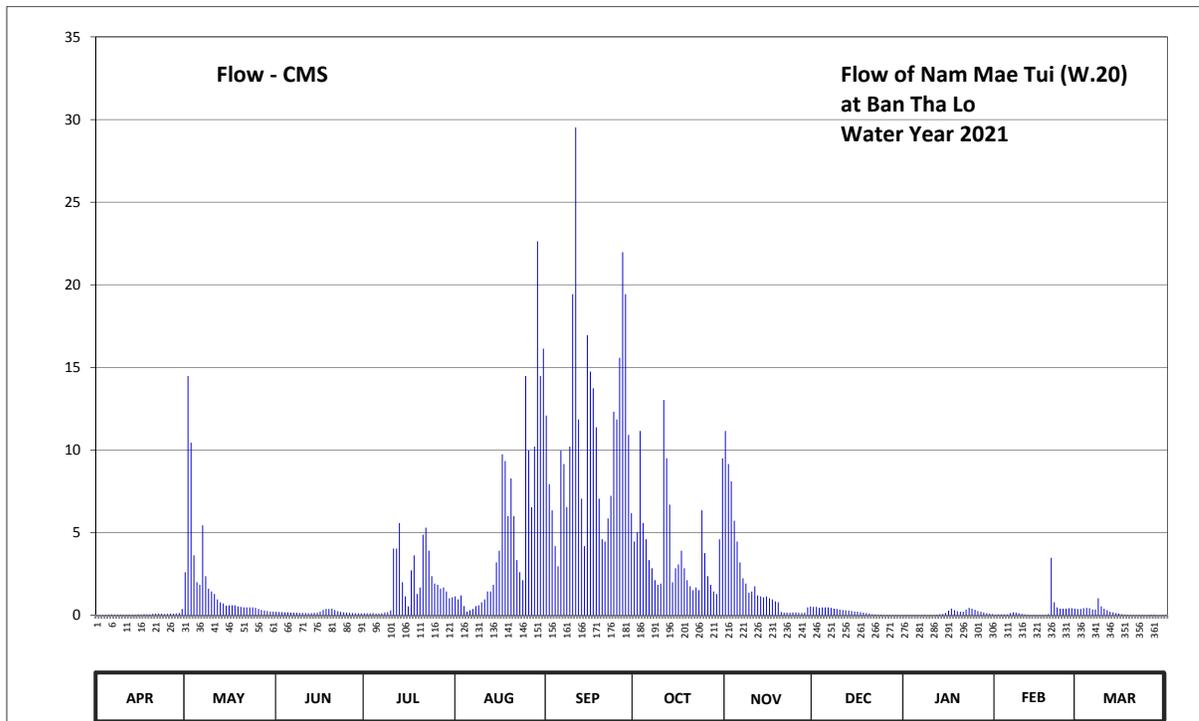
Lat 18 - 18 - 39 N Long 99 - 27 - 28 E

Location : on left bank at the bridge of Lampang - Hang Chat Highway.

	Ban Tha Lo	Amphoe Mueang	Changwat Lampang
<b>Drainage Area</b>	742 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+230.420 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+237.644 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good.Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.01	230.95	230.42	230.24	230.79	231.51	231.09	231.47	230.66	230.00	230.07	230.61	
2	230.01	231.61	230.40	230.24	230.76	231.31	231.13	231.38	230.66	230.00	230.10	230.61	
3	230.01	231.44	230.37	230.24	230.80	231.22	231.47	231.32	230.64	230.00	230.09	230.63	
4	230.02	231.03	230.35	230.25	230.68	231.07	231.17	231.18	230.65	230.00	230.10	230.64	
5	230.05	230.90	230.35	230.19	230.44	230.98	231.10	231.09	230.65	230.00	230.09	230.63	
6	230.10	230.88	230.32	230.19	230.55	231.42	231.01	231.00	230.65	230.01	230.26	230.60	
7	230.08	231.16	230.31	230.23	230.61	231.38	230.97	230.92	230.64	230.04	230.35	230.60	
8	230.07	230.93	230.29	230.34	230.68	231.23	230.91	230.89	230.62	230.02	230.31	230.77	
9	230.07	230.85	230.28	230.38	230.70	231.43	230.88	230.82	230.61	230.00	230.23	230.67	
10	230.06	230.83	230.29	230.54	230.73	231.79	230.89	230.83	230.59	230.01	230.16	230.62	
11	230.06	230.81	230.27	231.06	230.76	232.09	231.55	230.87	230.56	230.01	230.09	230.56	
12	230.06	230.76	230.26	231.06	230.83	231.50	231.40	230.80	230.55	230.02	230.03	230.44	
13	230.06	230.73	230.26	231.17	230.83	231.26	231.24	230.79	230.53	230.12	230.01	230.35	
14	230.05	230.72	230.30	230.90	230.88	231.07	230.90	230.78	230.50	230.13	230.00	230.26	
15	230.11	230.69	230.30	230.79	231.00	231.70	230.97	230.79	230.45	230.27	230.00	230.19	
16	230.09	230.70	230.43	230.67	231.05	231.62	230.99	230.77	230.43	230.52	230.00	230.12	
17	230.13	230.70	230.57	230.96	231.41	231.58	231.05	230.76	230.37	230.62	230.00	230.07	
18	230.11	230.70	230.61	231.03	231.39	231.48	230.97	230.74	230.31	230.56	230.00	230.02	
19	230.11	230.67	230.61	230.81	231.20	231.26	230.91	230.73	230.25	230.47	230.14	230.00	
20	230.17	230.66	230.62	230.86	231.33	231.10	230.87	230.40	230.17	230.43	231.02	230.00	
21	230.19	230.65	230.56	231.12	231.20	231.09	230.84	230.32	230.11	230.44	230.73	230.01	
22	230.20	230.65	230.48	231.15	231.01	231.19	230.86	230.32	230.09	230.59	230.65	230.01	
23	230.18	230.65	230.42	231.05	230.95	231.27	230.84	230.30	230.04	230.64	230.62	230.01	
24	230.16	230.65	230.36	230.93	230.91	231.52	231.22	230.33	230.02	230.62	230.62	230.01	
25	230.16	230.64	230.31	230.89	231.61	231.50	231.04	230.33	230.01	230.58	230.62	230.02	
26	230.19	230.61	230.28	230.88	231.42	231.65	230.93	230.30	230.00	230.50	230.63	230.07	
27	230.18	230.57	230.26	230.85	231.23	231.87	230.88	230.28	230.00	230.42	230.63	230.07	
28	230.22	230.53	230.25	230.86	231.43	231.79	230.83	230.31	230.00	230.34	230.62	230.01	
29	230.28	230.50	230.23	230.83	231.89	231.46	230.81	230.65	230.01	230.26		230.01	
30	230.61	230.46	230.23	230.77	231.61	231.21	231.10	230.67	230.01	230.19		230.03	
31		230.43		230.78	231.67		231.40		230.01	230.13		230.04	
Mean	230.13	230.78	230.37	230.72	231.04	231.42	231.04	230.74	230.35	230.26	230.29	230.28	
Max	230.61	231.61	230.62	231.17	231.89	232.09	231.55	231.47	230.66	230.64	231.02	230.77	232.09
Min	230.01	230.43	230.23	230.19	230.44	230.98	230.81	230.28	230.00	230.00	230.00	230.00	230.00
Annual Max Momentary Gage Height	232.13		m. (MSL.) ,				at 09.00 Hours ,						on Sep 11, 2021
Zero Gage at Bottom Elevation	230.42		m. (MSL.) ,			River Bed	229.27		m. (MSL.)				
Left Bank Elevation		238.02		m. (MSL.) ,									
Right Bank Elevation		238.07		m. (MSL.) ,		Drainage Are	742		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	2.60	0.21	0.12	1.14	12.09	4.46	11.15	0.50	0.02	0.04	0.38	
2	0.02	14.48	0.20	0.12	0.96	7.93	5.02	9.15	0.50	0.02	0.05	0.38	
3	0.02	10.44	0.19	0.12	1.20	6.35	11.15	8.10	0.45	0.02	0.05	0.43	
4	0.03	3.62	0.18	0.13	0.55	4.18	5.58	5.72	0.48	0.02	0.05	0.45	
5	0.04	2.00	0.18	0.10	0.22	2.96	4.60	4.46	0.48	0.02	0.05	0.43	
6	0.05	1.84	0.16	0.10	0.30	9.97	3.34	3.20	0.48	0.02	0.13	0.35	
7	0.04	5.44	0.16	0.12	0.38	9.15	2.84	2.24	0.45	0.03	0.18	0.35	
8	0.04	2.36	0.15	0.17	0.55	6.53	2.12	1.92	0.40	0.03	0.16	1.02	
9	0.04	1.60	0.14	0.19	0.60	10.21	1.84	1.36	0.38	0.02	0.12	0.53	
10	0.04	1.44	0.15	0.29	0.78	19.43	1.92	1.44	0.34	0.02	0.08	0.40	
11	0.04	1.28	0.14	4.04	0.96	29.53	13.03	1.76	0.31	0.02	0.05	0.31	
12	0.04	0.96	0.13	4.04	1.44	11.85	9.50	1.20	0.30	0.03	0.03	0.22	
13	0.04	0.78	0.13	5.58	1.44	7.05	6.70	1.14	0.28	0.06	0.02	0.18	
14	0.04	0.72	0.15	2.00	1.84	4.18	2.00	1.08	0.25	0.07	0.02	0.13	
15	0.06	0.58	0.15	1.14	3.20	16.95	2.84	1.14	0.23	0.14	0.02	0.10	
16	0.05	0.60	0.22	0.53	3.90	14.75	3.08	1.02	0.22	0.27	0.02	0.06	
17	0.07	0.60	0.32	2.72	9.74	13.73	3.90	0.96	0.19	0.40	0.02	0.04	
18	0.06	0.60	0.38	3.62	9.33	11.38	2.84	0.84	0.16	0.31	0.02	0.03	
19	0.06	0.53	0.38	1.28	6.00	7.05	2.12	0.78	0.13	0.24	0.07	0.02	
20	0.09	0.50	0.40	1.68	8.28	4.60	1.76	0.20	0.09	0.22	3.48	0.02	
21	0.10	0.48	0.31	4.88	6.00	4.46	1.52	0.16	0.06	0.22	0.78	0.02	
22	0.10	0.48	0.24	5.30	3.34	5.86	1.68	0.16	0.05	0.34	0.48	0.02	
23	0.09	0.48	0.21	3.90	2.60	7.23	1.52	0.15	0.03	0.45	0.40	0.02	
24	0.08	0.48	0.18	2.36	2.12	12.32	6.35	0.17	0.03	0.40	0.40	0.02	
25	0.08	0.45	0.16	1.92	14.48	11.85	3.76	0.17	0.02	0.33	0.40	0.03	
26	0.10	0.38	0.14	1.84	9.97	15.58	2.36	0.15	0.02	0.25	0.43	0.04	
27	0.09	0.32	0.13	1.60	6.53	21.98	1.84	0.14	0.02	0.21	0.43	0.04	
28	0.11	0.28	0.13	1.68	10.21	19.43	1.44	0.16	0.02	0.17	0.40	0.02	
29	0.14	0.25	0.12	1.44	22.63	10.91	1.28	0.48	0.02	0.13		0.02	
30	0.38	0.23	0.12	1.02	14.48	6.18	4.60	0.53	0.02	0.10		0.03	
31		0.22		1.08	16.13		9.50		0.02	0.07		0.03	
Total	2.16	57.02	5.86	55.11	161.30	325.67	126.49	61.13	6.93	4.65	8.38	6.12	820.82 CMSDAY
Mean	0.07	1.84	0.20	1.78	5.20	10.86	4.08	2.04	0.22	0.15	0.30	0.20	2.25 CMS
Max	0.38	14.48	0.40	5.58	22.63	29.53	13.03	11.15	0.50	0.45	3.48	1.02	29.53 CMS
Min	0.02	0.22	0.12	0.10	0.22	2.96	1.28	0.14	0.02	0.02	0.02	0.02	0.02 CMS
Runoff	0.19	4.93	0.51	4.76	13.94	28.14	10.93	5.28	0.60	0.40	0.72	0.53	70.92 MCM
Momentary Peak	31.01	CMS. at 232.13 m. (MSL.) at 09.00 Hours , on Sep 11, 2021											
Runoff Yield	3.03	Liters/Second/Square KM. Momentary Peak Yield 41.79 Liters/Second/Square KM.											

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Tha Dua , Lampang (W.21)

Lat 18 - 20 - 35 N Long 99 - 32 - 14 E

Location : on left bank at the bridge on highway.

	Ban Tha Dua	Amphoe Mueang	Changwat Lampang
<b>Drainage Area</b>	3,348 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+232.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5 meters from the top staff gage.	<b>Elevation</b>	+236.495 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	231.52	231.58	231.50	232.09	232.22	232.99	232.45	232.29	231.65	231.61	231.75	232.05	
2	231.50	231.59	231.51	232.22	232.16	232.97	232.46	232.18	231.66	231.62	231.73	232.03	
3	231.50	231.65	231.89	232.20	232.04	232.76	232.64	232.50	231.63	231.65	231.70	231.89	
4	231.49	231.62	232.15	232.16	232.20	232.55	232.62	232.14	231.68	231.70	231.81	231.84	
5	231.49	231.58	232.11	232.19	232.28	232.43	232.74	232.08	231.91	231.80	231.86	231.87	
6	231.56	231.95	231.91	232.23	232.38	232.46	232.57	232.04	231.80	231.84	231.94	231.87	
7	231.56	232.12	231.90	232.33	232.41	232.52	232.49	231.92	231.67	231.89	231.96	231.83	
8	233.60	231.98	231.84	232.22	232.44	232.50	232.51	231.87	231.64	231.91	231.88	231.82	
9	233.65	231.85	231.75	232.15	232.41	232.80	232.53	231.85	231.69	231.85	231.85	231.91	
10	232.58	231.80	231.65	232.05	232.43	233.08	232.55	231.88	231.74	231.84	231.83	231.89	
11	231.87	231.75	231.61	232.04	232.48	232.93	232.80	231.84	231.77	231.83	231.73	231.86	
12	231.75	231.76	231.81	232.18	232.57	232.68	232.88	231.92	231.72	231.81	231.67	231.86	
13	231.70	231.75	231.79	232.02	232.55	232.24	232.83	231.95	231.65	231.77	231.65	231.82	
14	231.65	231.74	231.75	232.03	232.64	232.24	232.56	231.95	231.61	231.79	231.64	231.92	
15	231.64	231.80	231.80	231.95	232.87	232.56	232.47	231.96	231.60	231.84	231.65	231.97	
16	231.62	231.79	231.67	232.09	232.67	232.62	232.43	231.94	231.60	231.86	231.67	231.98	
17	231.66	231.68	231.83	232.30	232.69	232.64	232.52	231.89	231.59	231.87	231.70	231.97	
18	231.68	231.60	231.80	232.26	233.44	232.69	232.47	231.89	231.58	231.91	231.80	231.99	
19	231.67	231.58	231.76	232.23	233.00	232.63	232.30	231.87	231.58	232.04	231.85	231.99	
20	231.66	231.57	231.66	232.70	232.99	232.63	232.31	231.81	231.58	232.20	232.12	232.02	
21	231.72	231.56	231.77	232.60	232.99	232.69	232.29	231.79	231.57	232.19	232.19	232.04	
22	231.69	231.55	231.78	232.45	232.62	232.73	232.38	231.74	231.59	232.01	232.12	232.08	
23	231.70	231.54	231.79	232.28	232.47	232.92	232.90	231.89	231.73	231.84	232.16	232.10	
24	231.68	231.53	231.80	232.31	232.43	232.90	232.99	231.75	231.75	231.74	232.14	232.16	
25	231.68	231.55	231.69	232.30	233.77	233.16	232.82	231.70	231.74	231.68	232.13	232.23	
26	231.67	231.53	231.91	232.26	233.16	233.65	232.70	231.68	231.71	231.79	232.10	232.28	
27	231.69	231.51	231.86	232.23	232.77	233.15	232.61	231.68	231.63	231.83	232.08	232.19	
28	231.68	231.53	231.77	232.19	232.66	232.83	232.48	231.68	231.60	231.83	232.06	232.19	
29	231.60	231.53	231.86	232.19	233.02	232.66	232.32	231.67	231.59	231.81		232.36	
30	231.59	231.51	231.98	232.21	233.14	232.54	232.20	231.65	231.60	231.76		232.26	
31		231.50		232.21	233.17		232.34		231.59	231.75		232.16	
Mean	231.80	231.66	231.80	232.22	232.68	232.74	232.55	231.90	231.66	231.83	231.88	232.01	
Max	233.65	232.12	232.15	232.70	233.77	233.65	232.99	232.50	231.91	232.20	232.19	232.36	233.77
Min	231.49	231.50	231.50	231.95	232.04	232.24	232.20	231.65	231.57	231.61	231.64	231.82	231.49
Annual Max Momentary Gage Height	233.87		m. (MSL.) ,			at 18.00 Hours ,		on Apr 8, 2021					
Zero Gage at Bottom Elevation	232.00		m. (MSL.) ,			River Bed	230.92	m. (MSL.)					
Left Bank Elevation		239.85		m. (MSL.) ,									
Right Bank Elevation		240.72		m. (MSL.) ,		Drainage Are	3,348	Square Kilometers					



## WATER YEAR : 2021

## WANG RIVER BASIN

## Nam Mae Chang at Ban Wang Phrao , Lampang (W.22)

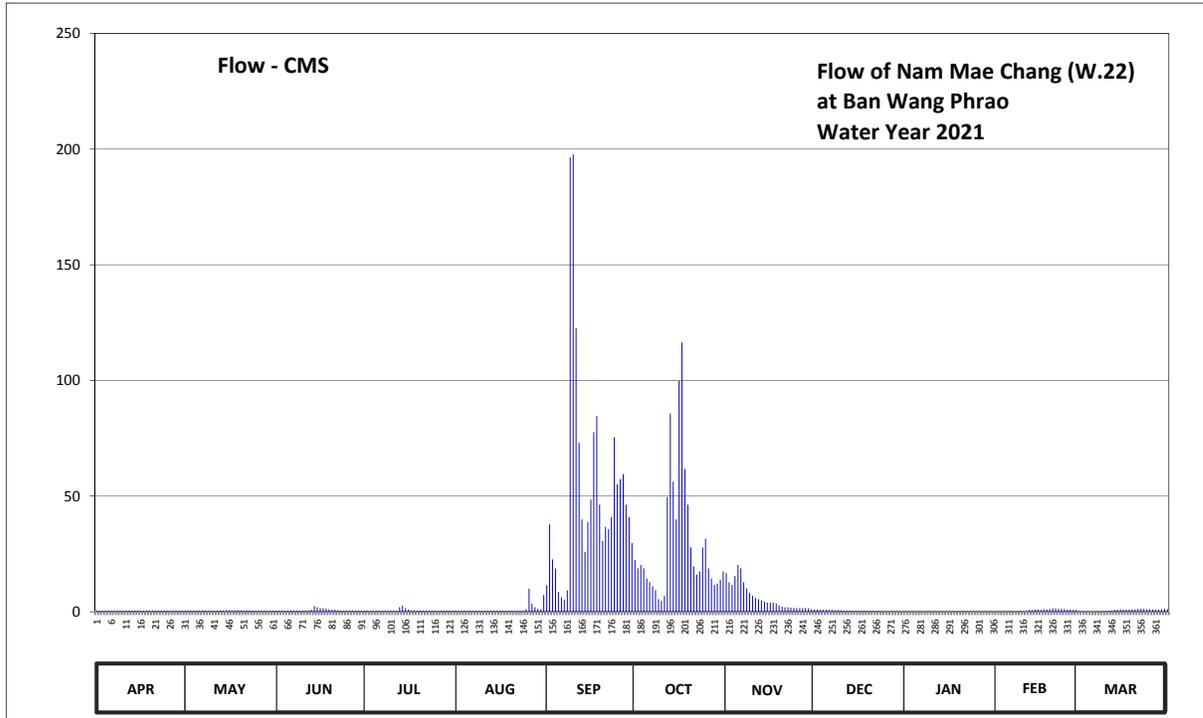
Lat 18 - 08 - 40 N Long 99 - 24 - 30 E

Location : on right bank at the bridge.

	Ban Wang Phrao	Amphoe Ko Kha	Changwat Lampang
<b>Drainage Area</b>	1,527 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+215.161 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the approach of the bridge.	<b>Elevation</b>	+221.137 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good.Stage-discharge relation defined by 32 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

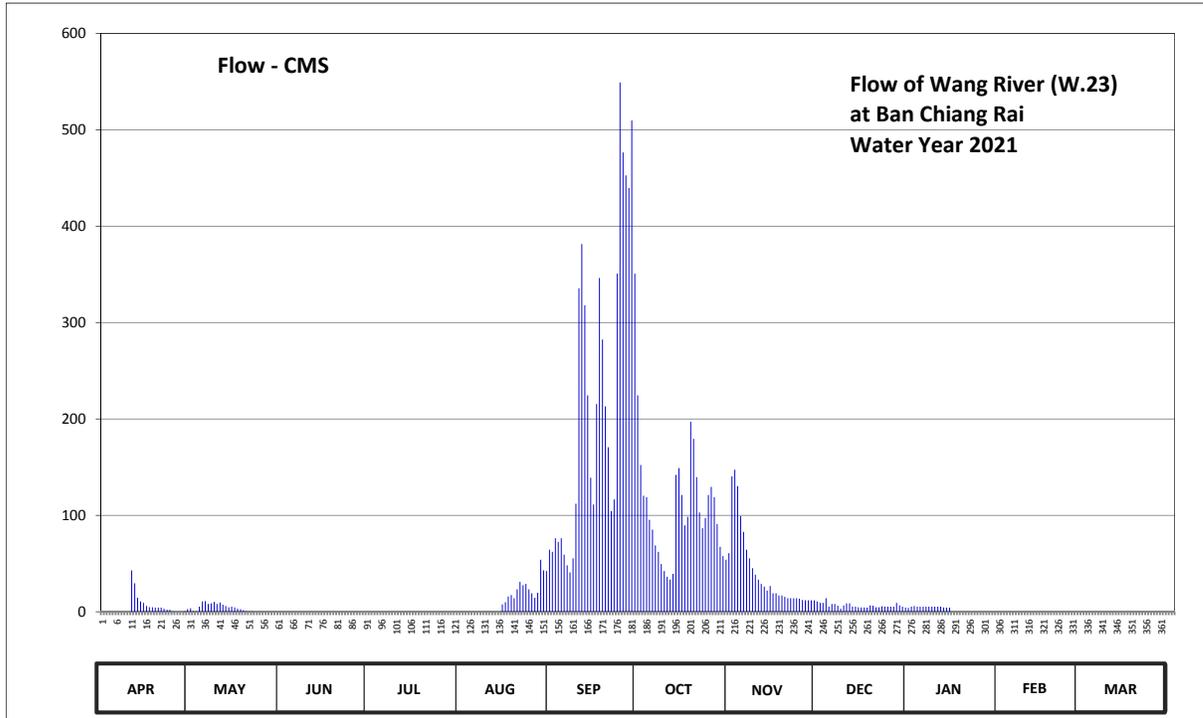
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	215.36	215.40	215.37	215.35	215.36	215.93	215.79	215.71	215.19	214.93	214.82	215.02	
2	215.36	215.40	215.37	215.35	215.33	216.27	215.74	215.64	215.18	214.94	214.82	214.91	
3	215.37	215.39	215.37	215.34	215.33	216.12	215.76	215.62	215.17	214.93	214.82	214.83	
4	215.37	215.39	215.36	215.33	215.33	216.06	215.74	215.69	215.16	214.90	214.81	214.79	
5	215.39	215.39	215.38	215.33	215.33	215.86	215.67	215.76	215.16	214.88	214.80	214.77	
6	215.40	215.39	215.37	215.34	215.33	215.79	215.64	215.74	215.15	214.89	214.79	214.78	
7	215.39	215.42	215.37	215.34	215.33	215.75	215.61	215.64	215.15	214.87	214.78	214.85	
8	215.38	215.40	215.37	215.33	215.32	215.88	215.57	215.59	215.14	214.87	214.86	214.86	
9	215.38	215.39	215.37	215.34	215.31	217.28	215.46	215.54	215.13	214.87	215.04	214.93	
10	215.40	215.39	215.38	215.34	215.31	217.29	215.43	215.51	215.12	214.92	215.01	215.05	
11	215.39	215.40	215.37	215.34	215.33	216.69	215.51	215.48	215.09	214.90	215.00	215.09	
12	215.38	215.40	215.37	215.34	215.33	216.27	216.06	215.46	215.10	214.89	215.15	215.11	
13	215.38	215.41	215.47	215.60	215.32	215.97	216.38	215.44	215.08	214.88	215.14	215.17	
14	215.38	215.41	215.62	215.63	215.32	215.83	216.12	215.42	215.05	214.87	215.19	215.18	
15	215.39	215.41	215.60	215.56	215.33	215.96	215.97	215.40	215.05	214.87	215.19	215.21	
16	215.38	215.42	215.56	215.48	215.32	216.05	216.50	215.40	215.05	214.89	215.15	215.20	
17	215.40	215.41	215.55	215.40	215.32	216.31	216.64	215.40	215.06	215.03	215.21	215.19	
18	215.39	215.41	215.54	215.36	215.32	216.37	216.17	215.38	215.06	215.01	215.20	215.19	
19	215.38	215.42	215.50	215.35	215.32	216.03	216.03	215.34	215.04	214.97	215.22	215.20	
20	215.38	215.41	215.47	215.35	215.34	215.88	215.85	215.31	215.04	214.98	215.25	215.20	
21	215.38	215.41	215.46	215.35	215.33	215.94	215.75	215.29	215.02	215.00	215.25	215.22	
22	215.38	215.42	215.44	215.35	215.32	215.93	215.70	215.29	215.00	214.99	215.23	215.23	
23	215.38	215.42	215.37	215.35	215.33	215.98	215.72	215.28	215.00	214.98	215.23	215.22	
24	215.38	215.41	215.36	215.35	215.34	216.29	215.85	215.27	215.01	214.97	215.22	215.21	
25	215.37	215.38	215.35	215.35	215.51	216.11	215.89	215.26	214.98	214.94	215.20	215.21	
26	215.39	215.38	215.35	215.34	215.90	216.13	215.74	215.26	214.96	214.93	215.19	215.20	
27	215.40	215.38	215.35	215.34	215.68	216.15	215.67	215.26	214.98	214.91	215.17	215.19	
28	215.40	215.39	215.36	215.35	215.60	216.03	215.62	215.26	214.99	214.90	215.16	215.19	
29	215.40	215.37	215.35	215.34	215.52	215.98	215.63	215.25	214.98	214.87		215.21	
30	215.40	215.37	215.36	215.35	215.51	215.87	215.66	215.21	214.95	214.85		215.22	
31		215.37		215.35	215.82		215.72		214.95	214.83		215.21	
Mean	215.38	215.40	215.42	215.37	215.40	216.13	215.83	215.44	215.06	214.92	215.07	215.09	
Max	215.40	215.42	215.62	215.63	215.90	217.29	216.64	215.76	215.19	215.03	215.25	215.23	217.29
Min	215.36	215.37	215.35	215.33	215.31	215.75	215.43	215.21	214.95	214.83	214.78	214.77	214.77
Annual Max Momentary Gage Height	217.81		m. (MSL.) ,			at 13.00 Hours ,							
Zero Gage at Bottom Elevation	215.16		m. (MSL.) ,			River Bed	213.51	m. (MSL.)					
Left Bank Elevation	221.22		m. (MSL.) ,										
Right Bank Elevation	221.24		m. (MSL.) ,			Drainage Are	1,527	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.50	0.47	0.45	0.46	11.50	22.30	16.70	0.95	0.17	0.11	0.26	
2	0.46	0.50	0.47	0.45	0.43	37.75	18.80	12.70	0.90	0.17	0.11	0.16	
3	0.47	0.49	0.47	0.44	0.43	22.60	20.20	11.60	0.85	0.17	0.11	0.12	
4	0.47	0.49	0.46	0.43	0.43	18.60	18.80	15.45	0.80	0.15	0.11	0.10	
5	0.49	0.49	0.48	0.43	0.43	8.60	14.35	20.20	0.80	0.14	0.10	0.09	
6	0.50	0.49	0.47	0.44	0.43	6.25	12.70	18.80	0.75	0.15	0.10	0.09	
7	0.49	0.60	0.47	0.44	0.43	5.25	11.05	12.70	0.75	0.14	0.09	0.13	
8	0.48	0.50	0.47	0.43	0.42	9.30	9.30	10.10	0.70	0.14	0.13	0.13	
9	0.48	0.49	0.47	0.44	0.41	196.40	5.46	8.10	0.65	0.14	0.32	0.17	
10	0.50	0.49	0.48	0.44	0.41	197.70	4.68	6.90	0.60	0.16	0.23	0.35	
11	0.49	0.50	0.47	0.44	0.43	122.52	6.90	5.98	0.47	0.15	0.20	0.47	
12	0.48	0.50	0.47	0.44	0.43	73.05	49.60	5.46	0.50	0.15	0.75	0.55	
13	0.48	0.55	0.85	2.00	0.42	39.85	85.70	4.94	0.44	0.14	0.70	0.85	
14	0.48	0.55	2.40	2.60	0.42	25.85	56.20	4.42	0.35	0.14	0.95	0.90	
15	0.49	0.55	2.00	1.60	0.43	38.80	39.85	3.90	0.35	0.14	0.95	1.10	
16	0.48	0.60	1.60	0.90	0.42	48.50	99.75	3.90	0.35	0.15	0.75	1.00	
17	0.50	0.55	1.50	0.50	0.42	77.65	116.40	3.90	0.38	0.29	1.10	0.95	
18	0.49	0.55	1.40	0.46	0.42	84.55	61.70	3.52	0.38	0.23	1.00	0.95	
19	0.48	0.60	1.00	0.45	0.42	46.30	46.30	2.76	0.32	0.19	1.20	1.00	
20	0.48	0.55	0.85	0.45	0.44	30.60	27.75	2.19	0.32	0.19	1.50	1.00	
21	0.48	0.55	0.80	0.45	0.43	36.70	19.50	1.90	0.26	0.20	1.50	1.20	
22	0.48	0.60	0.70	0.45	0.42	35.65	16.00	1.90	0.20	0.20	1.30	1.30	
23	0.48	0.60	0.47	0.45	0.43	40.90	17.40	1.80	0.20	0.19	1.30	1.20	
24	0.48	0.55	0.46	0.45	0.44	75.35	27.75	1.70	0.23	0.19	1.20	1.10	
25	0.47	0.48	0.45	0.45	1.10	55.10	31.55	1.60	0.19	0.17	1.00	1.10	
26	0.49	0.48	0.45	0.44	10.00	57.30	18.80	1.60	0.18	0.17	0.95	1.00	
27	0.50	0.48	0.45	0.44	3.60	59.50	14.35	1.60	0.19	0.16	0.85	0.95	
28	0.50	0.49	0.46	0.45	2.00	46.30	11.60	1.60	0.20	0.15	0.80	0.95	
29	0.50	0.47	0.45	0.44	1.20	40.90	12.15	1.50	0.19	0.14		1.10	
30	0.50	0.47	0.46	0.45	1.10	29.65	13.80	1.10	0.18	0.13		1.20	
31		0.47		0.45	7.20		17.40		0.18	0.12		1.10	
<b>Total</b>	14.53	16.18	22.40	19.15	36.45	1578.97	928.09	190.52	13.81	5.12	19.41	22.57	2867.20 CMSDAY
<b>Mean</b>	0.48	0.52	0.75	0.62	1.18	52.63	29.94	6.35	0.45	0.17	0.69	0.73	7.86 CMS
<b>Max</b>	0.50	0.60	2.40	2.60	10.00	197.70	116.40	20.20	0.95	0.29	1.50	1.30	197.70 CMS
<b>Min</b>	0.46	0.47	0.45	0.43	0.41	5.25	4.68	1.10	0.18	0.12	0.09	0.09	0.09 CMS
<b>Runoff</b>	1.26	1.40	1.94	1.65	3.15	136.42	80.19	16.46	1.19	0.44	1.68	1.95	247.73 MCM
<b>Momentary Peak</b>	268.40 CMS. at 217.81 m. (MSL.) at 13.00 Hours , on Sep 9, 2021												
<b>Runoff Yield</b>	5.14 Liters/Second/Square KM.			Momentary Peak Yield			175.77 Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	3.60	0.00	0.00	0.00	62.16	152.08	140.45	9.16	5.20	0.00	0.00	
2	0.00	0.84	0.00	0.00	0.00	76.22	120.38	147.43	9.16	6.00	0.00	0.00	
3	0.00	0.56	0.00	0.00	0.00	72.52	118.85	130.38	14.04	5.20	0.00	0.00	
4	0.00	5.20	0.00	0.00	0.00	76.22	95.46	99.20	5.20	5.20	0.00	0.00	
5	0.00	10.68	0.00	0.00	0.00	59.20	85.10	82.88	8.10	5.20	0.00	0.00	
6	0.00	11.06	0.00	0.00	0.00	48.10	68.82	64.38	8.10	5.20	0.00	0.00	
7	0.00	8.10	0.00	0.00	0.00	40.70	62.16	55.50	6.30	5.20	0.00	0.00	
8	0.00	8.78	0.00	0.00	0.00	55.50	49.58	45.14	3.20	5.20	0.00	0.00	
9	0.00	10.30	0.00	0.00	0.00	111.97	42.18	38.48	6.60	5.20	0.00	0.00	
10	0.00	8.10	0.00	0.00	0.00	335.55	36.26	33.30	8.78	5.20	0.00	0.00	
11	42.92	9.54	0.00	0.00	0.00	381.35	33.30	28.90	8.78	5.20	0.00	0.00	
12	29.60	7.20	0.00	0.00	0.00	317.80	39.22	26.10	5.40	4.40	0.00	0.00	
13	14.50	6.00	0.00	0.00	0.00	224.46	142.00	22.02	5.20	4.20	0.00	0.00	
14	10.68	4.60	0.00	0.00	0.00	138.90	148.98	26.80	4.60	4.20	0.00	0.00	
15	9.16	5.20	0.00	0.00	7.50	111.20	121.15	19.12	4.40	0.00	0.00	0.00	
16	6.00	4.40	0.00	0.00	9.92	215.53	89.54	19.12	4.40	0.00	0.00	0.00	
17	4.80	3.20	0.00	0.00	15.88	346.27	98.45	16.80	4.20	0.00	0.00	0.00	
18	4.60	2.60	0.00	0.00	17.38	282.40	197.00	16.80	6.60	0.00	0.00	0.00	
19	4.20	1.60	0.00	0.00	14.04	213.10	179.40	15.42	6.30	0.00	0.00	0.00	
20	4.20	0.42	0.00	0.00	23.30	170.68	139.68	14.04	4.60	0.00	0.00	0.00	
21	4.20	0.28	0.00	0.00	31.08	104.45	102.95	14.04	4.60	0.00	0.00	0.00	
22	3.20	0.56	0.00	0.00	27.50	116.56	86.58	14.04	5.70	0.00	0.00	0.00	
23	2.20	0.00	0.00	0.00	28.90	350.74	96.95	14.04	5.20	0.00	0.00	0.00	
24	2.20	0.00	0.00	0.00	23.30	549.02	121.15	13.58	5.20	0.00	0.00	0.00	
25	0.56	0.00	0.00	0.00	19.12	476.50	129.60	12.20	5.20	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	14.50	452.70	118.85	11.82	5.20	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	19.70	439.43	91.02	11.82	9.16	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	54.02	509.63	67.34	11.82	6.60	0.00	0.00	0.00	
29	0.56	0.00	0.00	0.00	42.92	350.74	57.72	11.82	5.20	0.00	0.00	0.00	
30	2.80	0.00	0.00	0.00	42.18	224.46	54.02	10.68	4.20	0.00	0.00	0.00	
31		0.00		0.00	64.38		60.68		4.00	0.00		0.00	
<b>Total</b>	146.38	112.82	0.00	0.00	455.62	6914.06	3006.45	1168.12	193.38	70.80	0.00	0.00	12067.63 CMSDAY
<b>Mean</b>	4.88	3.64	0.00	0.00	14.70	230.47	96.98	38.94	6.24	2.28	0.00	0.00	33.06 CMS
<b>Max</b>	42.92	11.06	0.00	0.00	64.38	549.02	197.00	147.43	14.04	6.00	0.00	0.00	549.02 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	40.70	33.30	10.68	3.20	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	12.65	9.75	0.00	0.00	39.37	597.37	259.76	100.93	16.71	6.12	0.00	0.00	1042.64 MCM
<b>Momentary Peak</b>		576.82 CMS.				at 148.14 m. (MSL.)							on Sep 24, 2021
<b>Runoff Yield</b>		3.34			Liters/Second/Square KM.								Momentary Peak Yield 58.34 Liters/Second/Square KM.

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Tha Phai , Tak (W.24)

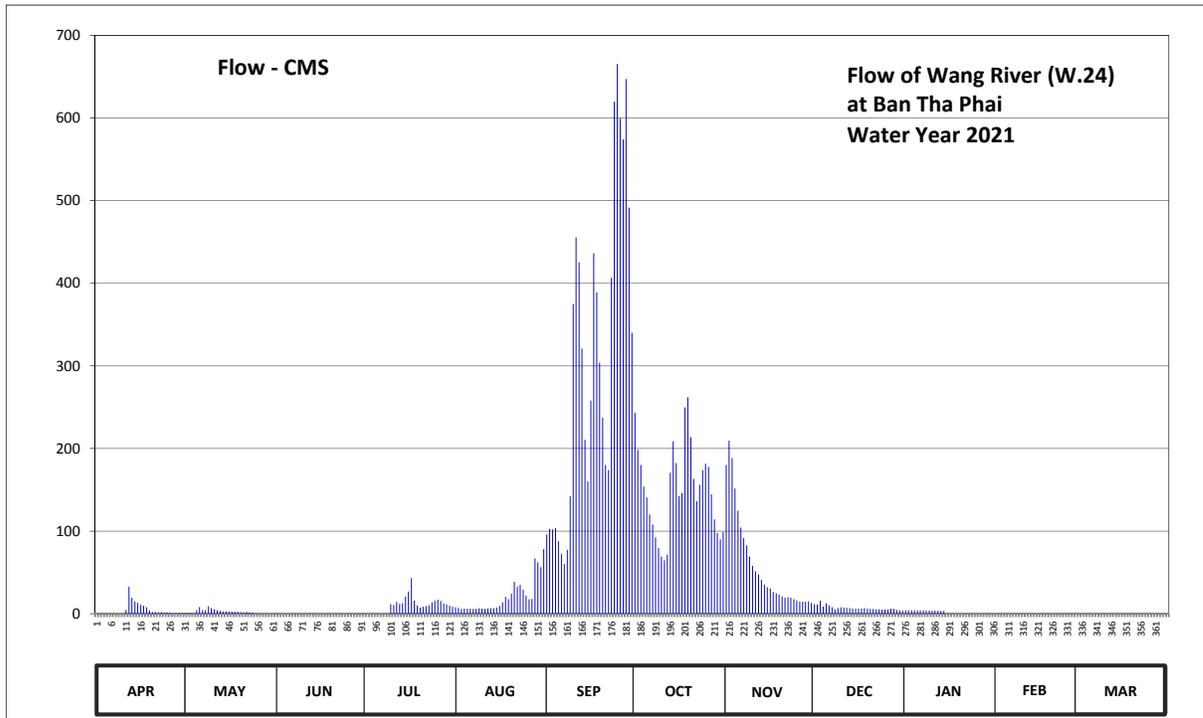
Lat 17 - 19 - 18 N Long 99 - 04 - 38 E

Location : on left bank at Ban Tha Phai

	Ban Tha Phai	Amphoe Sam Ngao	Changwat Tak
<b>Drainage Area</b>	10,192 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+135.430 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +145.049 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings.		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2010 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2010 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good.Stage-discharge relation defined by 19 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	135.96	136.85	136.96	136.77	137.20	138.60	140.48	139.70	137.32	137.03	137.09	137.49	
2	135.96	136.85	136.97	136.77	137.17	138.69	139.93	140.07	137.31	137.04	137.08	137.47	
3	135.95	136.84	136.91	136.77	137.11	138.68	139.70	139.81	137.43	137.03	137.09	137.45	
4	135.98	136.84	136.84	136.77	137.13	138.70	139.36	139.33	137.23	137.03	137.10	137.43	
5	136.00	137.04	136.79	136.77	137.13	138.49	139.19	138.98	137.35	137.02	137.14	137.42	
6	136.00	137.21	136.79	136.77	137.13	138.28	138.92	138.71	137.27	137.02	137.16	137.41	
7	136.01	137.04	136.78	136.77	137.11	138.12	138.76	138.54	137.20	137.03	137.16	137.40	
8	136.01	137.04	136.78	136.77	137.12	138.35	138.55	138.42	137.09	137.02	137.16	137.40	
9	136.01	137.24	136.81	136.76	137.15	139.21	138.38	138.24	137.16	137.01	137.14	137.39	
10	136.01	137.15	137.07	137.32	137.13	142.02	138.24	138.09	137.20	137.00	137.11	137.39	
11	137.05	137.09	137.08	137.29	137.12	142.86	138.18	138.00	137.19	137.01	137.11	137.39	
12	137.75	137.03	137.06	137.39	137.14	142.56	138.27	137.95	137.17	137.00	137.11	137.41	
13	137.52	136.99	137.04	137.33	137.15	141.41	139.58	137.86	137.16	136.99	137.11	137.41	
14	137.41	136.95	137.05	137.35	137.15	140.08	140.06	137.78	137.14	136.99	137.23	137.39	
15	137.36	136.96	137.03	137.55	137.19	139.44	139.73	137.74	137.13	137.07	137.34	137.38	
16	137.30	136.96	137.03	137.66	137.26	140.66	139.21	137.72	137.13	137.10	137.35	137.39	
17	137.26	136.94	137.01	137.89	137.38	142.67	139.26	137.65	137.14	137.09	137.39	137.40	
18	137.20	136.94	136.99	137.43	137.54	142.18	140.56	137.62	137.16	137.09	137.39	137.40	
19	137.02	136.94	137.02	137.28	137.48	141.21	140.71	137.59	137.14	137.07	137.39	137.40	
20	136.91	136.91	137.05	137.19	137.61	140.41	140.12	137.55	137.12	137.09	137.41	137.40	
21	136.91	136.90	137.01	137.22	137.83	139.70	139.48	137.52	137.11	137.10	137.43	137.40	
22	136.89	136.92	136.90	137.25	137.75	139.62	139.13	137.53	137.09	137.12	137.43	137.41	
23	136.91	136.90	136.85	137.28	137.78	142.37	139.39	137.52	137.08	137.13	137.43	137.36	
24	136.89	136.89	136.86	137.38	137.70	144.13	139.62	137.48	137.07	137.09	137.50	137.18	
25	136.88	136.87	136.86	137.43	137.57	144.41	139.72	137.44	137.07	137.12	137.52	137.14	
26	136.87	136.84	136.84	137.47	137.48	144.00	139.67	137.40	137.07	137.10	137.50	137.14	
27	136.82	136.82	136.80	137.42	137.49	143.83	139.24	137.40	137.13	137.08	137.50	137.13	
28	136.84	136.85	136.77	137.34	138.21	144.30	138.84	137.40	137.12	137.13	137.49	137.10	
29	136.85	137.04	136.77	137.31	138.15	143.21	138.62	137.41	137.05	137.12		137.09	
30	136.85	137.07	136.77	137.27	138.07	141.63	138.52	137.36	137.02	137.11		137.20	
31		137.00		137.22	138.36		138.64		137.01	137.11		137.27	
Mean	136.71	136.96	136.92	137.20	137.44	140.99	139.29	138.06	137.16	137.06	137.28	137.34	
Max	137.75	137.24	137.08	137.89	138.36	144.41	140.71	140.07	137.43	137.13	137.52	137.49	144.41
Min	135.95	136.82	136.77	136.76	137.11	138.12	138.18	137.36	137.01	136.99	137.08	137.09	135.95
Annual Max Momentary Gage Height	144.45		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	135.43		m. (MSL.) ,			River Bed	136.04		m. (MSL.)				
Left Bank Elevation		145.00		m. (MSL.) ,									
Right Bank Elevation		145.23		m. (MSL.) ,		Drainage Are	10,192		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.90	0.00	0.00	7.80	96.10	243.16	180.00	11.55	4.17	0.00	0.00	
2	0.00	0.90	0.00	0.00	7.11	102.85	198.23	209.57	11.18	4.36	0.00	0.00	
3	0.00	0.72	0.00	0.00	5.73	102.10	180.00	188.51	15.68	4.17	0.00	0.00	
4	0.00	0.72	0.00	0.00	6.19	103.60	153.82	151.51	8.70	4.17	0.00	0.00	
5	0.00	4.36	0.00	0.00	6.19	87.85	140.74	124.78	12.68	3.98	0.00	0.00	
6	0.00	8.10	0.00	0.00	6.19	72.10	120.22	104.35	9.90	3.98	0.00	0.00	
7	0.00	4.36	0.00	0.00	5.73	60.18	108.10	91.60	7.80	4.17	0.00	0.00	
8	0.00	4.36	0.00	0.00	5.96	77.35	92.35	82.60	5.31	3.98	0.00	0.00	
9	0.00	9.00	0.00	0.00	6.65	142.27	79.60	69.10	6.88	3.79	0.00	0.00	
10	0.00	6.65	0.00	11.55	6.19	374.78	69.10	57.96	7.80	3.60	0.00	0.00	
11	4.55	5.31	0.00	10.50	5.96	455.30	64.62	51.30	7.57	3.79	0.00	0.00	
12	32.80	4.17	0.00	14.18	6.42	425.32	71.35	47.60	7.11	3.60	0.00	0.00	
13	19.38	3.42	0.00	11.93	6.65	320.87	170.76	40.94	6.88	3.42	0.00	0.00	
14	14.93	2.70	0.00	12.68	6.65	210.38	208.76	35.02	6.42	3.42	0.00	0.00	
15	13.05	2.88	0.00	21.00	7.57	159.98	182.31	32.06	6.19	0.00	0.00	0.00	
16	10.80	2.88	0.00	26.94	9.60	257.92	142.27	30.58	6.19	0.00	0.00	0.00	
17	9.60	2.52	0.00	43.16	13.80	436.30	146.12	26.40	6.42	0.00	0.00	0.00	
18	7.80	2.52	0.00	15.68	20.46	389.02	249.72	24.78	6.88	0.00	0.00	0.00	
19	3.98	2.52	0.00	10.20	17.55	303.85	262.02	23.16	6.42	0.00	0.00	0.00	
20	1.98	1.98	0.00	7.57	24.24	237.42	213.64	21.00	5.96	0.00	0.00	0.00	
21	1.98	1.80	0.00	8.40	38.72	180.00	163.06	19.38	5.73	0.00	0.00	0.00	
22	1.62	2.16	0.00	9.30	32.80	173.84	136.18	19.92	5.31	0.00	0.00	0.00	
23	1.98	1.80	0.00	10.20	35.02	406.61	156.13	19.38	5.12	0.00	0.00	0.00	
24	1.62	1.62	0.00	13.80	29.10	619.71	173.84	17.55	4.93	0.00	0.00	0.00	
25	1.44	0.00	0.00	15.68	22.08	665.23	181.54	16.05	4.93	0.00	0.00	0.00	
26	1.26	0.00	0.00	17.18	17.55	599.10	177.69	14.55	4.93	0.00	0.00	0.00	
27	0.36	0.00	0.00	15.30	17.93	574.03	144.58	14.55	6.19	0.00	0.00	0.00	
28	0.72	0.00	0.00	12.30	66.85	647.15	114.14	14.55	5.96	0.00	0.00	0.00	
29	0.90	0.00	0.00	11.18	62.40	491.58	97.60	14.93	4.55	0.00	0.00	0.00	
30	0.90	0.00	0.00	9.90	56.48	340.07	90.10	13.05	3.98	0.00	0.00	0.00	
31		0.00		8.40	78.10		99.10		3.79	0.00		0.00	
<b>Total</b>	<b>131.65</b>	<b>78.35</b>	<b>0.00</b>	<b>317.03</b>	<b>639.67</b>	<b>9112.86</b>	<b>4630.85</b>	<b>1756.73</b>	<b>218.94</b>	<b>54.60</b>	<b>0.00</b>	<b>0.00</b>	<b>16940.68</b> CMSDAY
<b>Mean</b>	<b>4.39</b>	<b>2.53</b>	<b>0.00</b>	<b>10.23</b>	<b>20.63</b>	<b>303.76</b>	<b>149.38</b>	<b>58.56</b>	<b>7.06</b>	<b>1.76</b>	<b>0.00</b>	<b>0.00</b>	<b>46.41</b> CMS
<b>Max</b>	<b>32.80</b>	<b>9.00</b>	<b>0.00</b>	<b>43.16</b>	<b>78.10</b>	<b>665.23</b>	<b>262.02</b>	<b>209.57</b>	<b>15.68</b>	<b>4.36</b>	<b>0.00</b>	<b>0.00</b>	<b>665.23</b> CMS
<b>Min</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5.73</b>	<b>60.18</b>	<b>64.62</b>	<b>13.05</b>	<b>3.79</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>11.37</b>	<b>6.77</b>	<b>0.00</b>	<b>27.39</b>	<b>55.27</b>	<b>787.35</b>	<b>400.11</b>	<b>151.78</b>	<b>18.92</b>	<b>4.72</b>	<b>0.00</b>	<b>0.00</b>	<b>1463.67</b> MCM
<b>Momentary Peak</b>	<b>672.13</b>	<b>CMS.</b>	<b>at 144.45 m. (MSL.)</b>	<b>at 06.00 Hours</b>	<b>, on Sep 25, 2021</b>								
<b>Runoff Yield</b>	<b>4.55</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>65.95</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Rong Kho , Lampang (W.25)

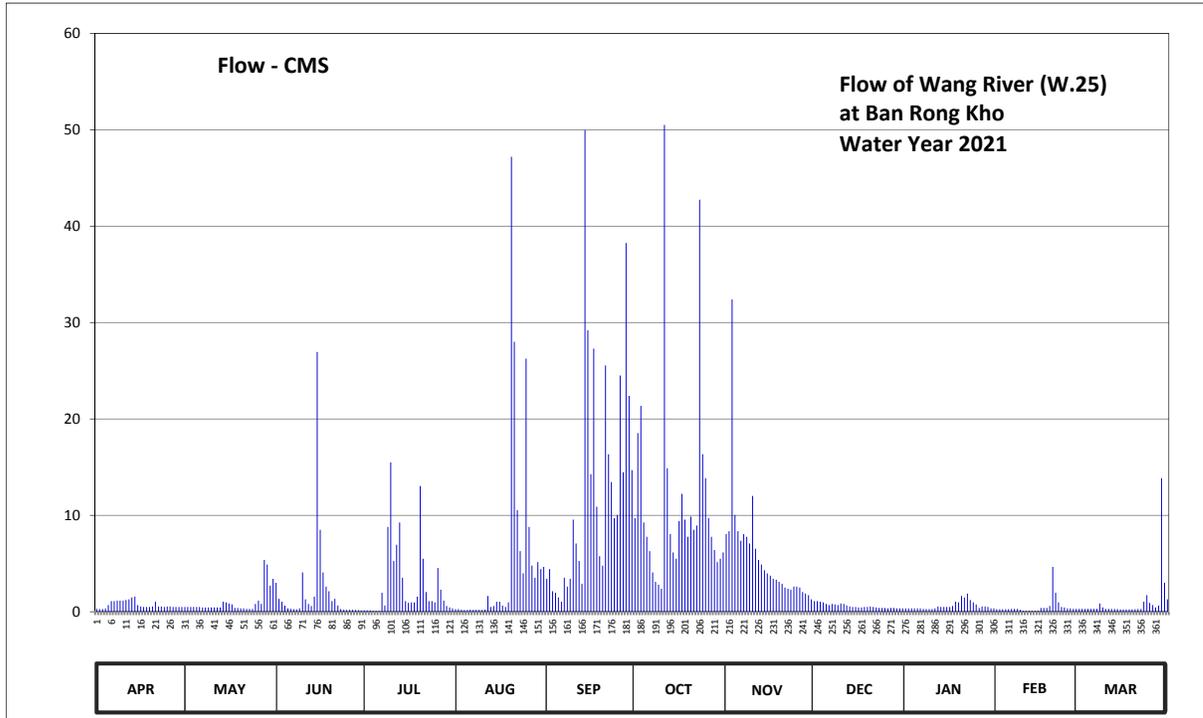
Lat 19 - 02 - 14 N Long 99 - 36 - 59 E

Location : on left bank at Ban Rong Kho.

	<b>Ban Rong Kho</b>	<b>Amphoe Wang Nuea</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	746 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+381.903 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+387.093 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 31 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	382.00	382.04	382.38	381.92	381.98	382.42	382.90	382.79	382.15	382.01	381.98	382.00	
2	381.99	382.04	382.19	381.92	381.99	382.51	383.31	382.81	382.15	382.01	381.98	382.00	
3	381.99	382.04	382.14	381.92	381.96	382.29	383.41	383.71	382.14	382.01	381.98	382.00	
4	382.01	382.04	382.07	381.91	381.94	382.27	382.87	382.92	382.13	382.01	381.98	382.00	
5	382.08	382.04	382.01	381.90	381.94	382.21	382.77	382.81	382.10	382.01	381.98	382.00	
6	382.15	382.04	382.00	381.89	381.96	382.14	382.66	382.74	382.08	382.01	382.00	382.00	
7	382.15	382.03	381.98	382.27	381.95	382.43	382.48	382.79	382.10	382.00	382.00	382.00	
8	382.16	382.03	381.97	382.07	381.95	382.34	382.39	382.77	382.09	381.99	382.00	382.11	
9	382.16	382.03	382.01	382.84	381.95	382.42	382.36	382.72	382.08	381.99	381.95	382.03	
10	382.16	382.03	382.48	383.20	381.94	382.89	382.32	383.03	382.11	381.99	381.88	382.00	
11	382.17	382.03	382.18	382.58	381.96	382.72	384.10	382.68	382.10	382.01	381.88	382.00	
12	382.18	382.03	382.10	382.71	382.23	382.58	383.17	382.59	382.07	382.05	381.88	382.00	
13	382.21	382.03	382.06	382.87	382.04	382.37	382.79	382.55	382.05	382.04	381.88	382.00	
14	382.22	382.14	382.22	382.43	382.06	384.09	382.65	382.50	382.04	382.04	381.88	381.99	
15	382.08	382.13	383.57	382.15	382.14	383.63	382.60	382.47	382.04	382.04	381.91	381.97	
16	382.05	382.11	382.82	382.12	382.14	383.14	382.88	382.45	382.03	382.04	382.02	381.97	
17	382.04	382.09	382.48	382.13	382.07	383.58	383.04	382.42	382.03	382.06	382.02	381.97	
18	382.04	382.02	382.34	382.13	382.04	382.97	382.89	382.41	382.04	382.14	382.02	381.97	
19	382.04	382.02	382.29	382.22	382.13	382.62	382.77	382.39	382.04	382.13	382.06	381.97	
20	382.05	382.01	382.15	383.08	384.04	382.54	382.91	382.37	382.05	382.23	382.53	381.98	
21	382.14	382.01	382.19	382.60	383.60	383.53	382.82	382.33	382.04	382.21	382.27	381.99	
22	382.05	382.00	382.07	382.28	382.95	383.23	382.85	382.32	382.03	382.26	382.13	381.99	
23	382.05	382.00	381.99	382.15	382.66	383.10	383.95	382.31	382.02	382.17	382.04	382.14	
24	382.04	382.00	381.96	382.15	382.47	382.90	383.23	382.34	382.02	382.13	382.03	382.24	
25	382.05	382.10	381.94	382.13	383.55	382.92	383.12	382.34	382.02	382.09	382.01	382.12	
26	382.05	382.16	381.95	382.52	382.84	383.50	382.90	382.33	382.01	382.02	382.01	382.08	
27	382.04	382.10	381.95	382.31	382.54	383.15	382.77	382.28	382.02	382.05	382.00	382.03	
28	382.04	382.59	381.94	382.16	382.43	383.85	382.67	382.26	382.02	382.05	382.00	382.07	
29	382.04	382.55	381.93	382.06	382.57	383.44	382.57	382.24	382.01	382.04		383.12	
30	382.04	382.35	381.92	382.03	382.51	383.16	382.60	382.18	382.01	382.01		382.38	
31		382.42		382.01	382.53		382.65		382.01	382.01		382.18	
Mean	382.08	382.10	382.18	382.28	382.36	382.90	382.88	382.56	382.06	382.06	382.01	382.07	
Max	382.22	382.59	383.57	383.20	384.04	384.09	384.10	383.71	382.15	382.26	382.53	383.12	384.10
Min	381.99	382.00	381.92	381.89	381.94	382.14	382.32	382.18	382.01	381.99	381.88	381.97	381.88
Annual Max Momentary Gage Height	384.52		m. (MSL.) ,			at 14.00 Hours ,	on Sep 14, 2021						
Zero Gage at Bottom Elevation	381.90		m. (MSL.) ,			River Bed	381.67	m. (MSL.)					
Left Bank Elevation		387.23		m. (MSL.) ,									
Right Bank Elevation		387.29		m. (MSL.) ,		Drainage Are	746	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.50	3.00	0.14	0.26	3.42	9.70	8.06	1.10	0.35	0.26	0.30	
2	0.28	0.50	1.34	0.14	0.28	4.42	18.53	8.35	1.10	0.35	0.26	0.30	
3	0.28	0.50	1.04	0.14	0.22	2.12	21.35	32.40	1.04	0.35	0.26	0.30	
4	0.35	0.50	0.65	0.12	0.18	1.96	9.25	10.04	0.98	0.35	0.26	0.30	
5	0.70	0.50	0.35	0.10	0.18	1.48	7.78	8.35	0.80	0.35	0.26	0.30	
6	1.10	0.50	0.30	0.10	0.22	1.04	6.28	7.36	0.70	0.35	0.30	0.30	
7	1.10	0.45	0.26	1.96	0.20	3.53	4.08	8.06	0.80	0.30	0.30	0.30	
8	1.16	0.45	0.24	0.65	0.20	2.60	3.10	7.78	0.75	0.28	0.30	0.86	
9	1.16	0.45	0.35	8.80	0.20	3.42	2.80	7.08	0.70	0.28	0.20	0.45	
10	1.16	0.45	4.08	15.50	0.18	9.55	2.40	12.02	0.86	0.28	0.09	0.30	
11	1.22	0.45	1.28	5.26	0.22	7.08	50.50	6.54	0.80	0.35	0.09	0.30	
12	1.28	0.45	0.80	6.94	1.64	5.26	14.89	5.38	0.65	0.55	0.09	0.30	
13	1.48	0.45	0.60	9.25	0.50	2.90	8.06	4.90	0.55	0.50	0.09	0.30	
14	1.56	1.04	1.56	3.53	0.60	49.95	6.15	4.30	0.50	0.50	0.09	0.28	
15	0.70	0.98	26.95	1.10	1.04	29.20	5.50	3.97	0.50	0.50	0.12	0.24	
16	0.55	0.86	8.50	0.92	1.04	14.27	9.40	3.75	0.45	0.50	0.40	0.24	
17	0.50	0.75	4.08	0.98	0.65	27.30	12.22	3.42	0.45	0.60	0.40	0.24	
18	0.50	0.40	2.60	0.98	0.50	10.89	9.55	3.31	0.50	1.04	0.40	0.24	
19	0.50	0.40	2.12	1.56	0.98	5.76	7.78	3.10	0.50	0.98	0.60	0.24	
20	0.55	0.35	1.10	13.04	47.20	4.78	9.87	2.90	0.55	1.64	4.66	0.26	
21	1.04	0.35	1.34	5.50	28.00	25.55	8.50	2.50	0.50	1.48	1.96	0.28	
22	0.55	0.30	0.65	2.04	10.55	16.33	8.95	2.40	0.45	1.88	0.98	0.28	
23	0.55	0.30	0.28	1.10	6.28	13.45	42.75	2.30	0.40	1.22	0.50	1.04	
24	0.50	0.30	0.22	1.10	3.97	9.70	16.33	2.60	0.40	0.98	0.45	1.72	
25	0.55	0.80	0.18	0.98	26.25	10.04	13.86	2.60	0.40	0.75	0.35	0.92	
26	0.55	1.16	0.20	4.54	8.80	24.50	9.70	2.50	0.35	0.40	0.35	0.70	
27	0.50	0.80	0.20	2.30	4.78	14.48	7.78	2.04	0.40	0.55	0.30	0.45	
28	0.50	5.38	0.18	1.16	3.53	38.25	6.41	1.88	0.40	0.55	0.30	0.65	
29	0.50	4.90	0.16	0.60	5.14	22.40	5.14	1.72	0.35	0.50		13.86	
30	0.50	2.70	0.14	0.45	4.42	14.68	5.50	1.28	0.35	0.35		3.00	
31		3.42		0.35	4.66		6.15		0.35	0.35		1.28	
<b>Total</b>	22.17	31.34	64.75	91.33	162.87	380.31	350.26	172.89	18.63	19.41	14.62	30.53	1359.11 CMSDAY
<b>Mean</b>	0.74	1.01	2.16	2.95	5.25	12.68	11.30	5.76	0.60	0.63	0.52	0.98	3.72 CMS
<b>Max</b>	1.56	5.38	26.95	15.50	47.20	49.95	50.50	32.40	1.10	1.88	4.66	13.86	50.50 CMS
<b>Min</b>	0.28	0.30	0.14	0.10	0.18	1.04	2.40	1.28	0.35	0.28	0.09	0.24	0.09 CMS
<b>Runoff</b>	1.92	2.71	5.59	7.89	14.07	32.86	30.26	14.94	1.61	1.68	1.26	2.64	117.43 MCM
<b>Momentary Peak</b>	77.40	CMS. at 384.52 m. (MSL.) at 14.00 Hours , on Sep 14, 2021											
<b>Runoff Yield</b>	4.99	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>				103.75	Liters/Second/Square KM.				

## WATER YEAR : 2021

## WANG RIVER BASIN

## Huai Mae Ta at Ban Muang My , Lampang (W.26)

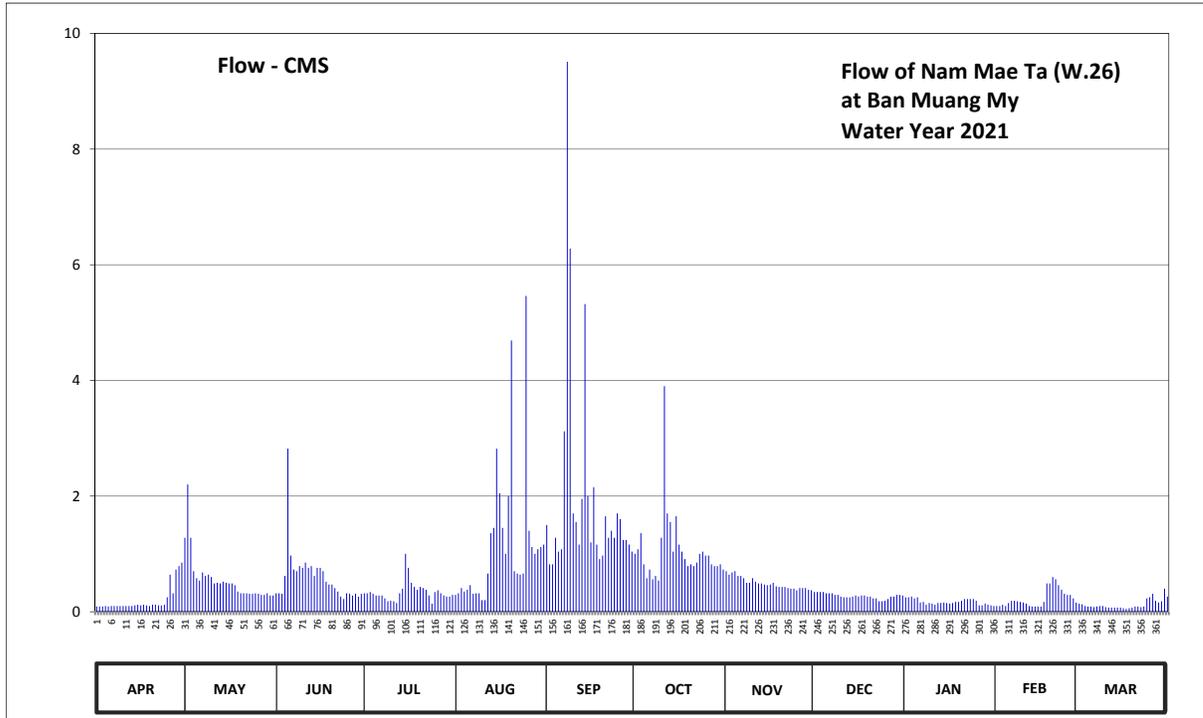
Lat 18 - 35 - 46 N Long 99 - 37 - 19 E

Location : on left bank at Ban Muang My.

	Ban Muang My	Amphoe Chae Hom	Changwat Lampang
<b>Drainage Area</b>	150 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+286.470 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+290.173 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	285.88	286.47	286.08	286.08	286.06	286.52	286.40	286.30	286.09	286.03	285.90	285.94	
2	285.88	286.66	286.08	286.08	286.08	286.34	286.42	286.27	286.09	286.03	285.89	285.93	
3	285.88	286.47	286.07	286.09	286.14	286.34	286.49	286.29	286.09	286.04	285.92	285.89	
4	285.89	286.30	286.26	286.07	286.10	286.47	286.34	286.30	286.09	286.02	285.89	285.88	
5	285.88	286.24	286.77	286.05	286.12	286.41	286.24	286.26	286.08	286.03	285.95	285.88	
6	285.90	286.22	286.39	286.05	286.17	286.42	286.31	286.26	286.08	285.96	285.99	285.86	
7	285.90	286.29	286.31	286.05	286.07	286.82	286.23	286.24	286.08	285.97	285.99	285.87	
8	285.90	286.26	286.30	286.02	286.08	287.69	286.26	286.20	286.06	285.92	285.98	285.89	
9	285.89	286.27	286.33	285.98	286.08	287.29	286.22	286.20	286.06	285.95	285.97	285.89	
10	285.90	286.25	286.32	285.99	286.00	286.56	286.47	286.24	286.04	285.94	285.96	285.86	
11	285.90	286.19	286.35	285.98	286.00	286.53	286.95	286.21	286.03	285.92	285.94	285.84	
12	285.90	286.20	286.32	285.95	286.28	286.44	286.56	286.19	286.03	285.95	285.89	285.84	
13	285.90	286.19	286.33	286.08	286.49	286.61	286.53	286.19	286.03	285.95	285.88	285.83	
14	285.91	286.21	286.26	286.13	286.51	287.16	286.41	286.18	286.04	285.96	285.87	285.83	
15	285.92	286.20	286.32	286.40	286.77	286.62	286.55	286.17	286.05	285.95	285.87	285.83	
16	285.91	286.19	286.32	286.32	286.63	286.45	286.44	286.18	286.04	285.94	285.88	285.81	
17	285.92	286.19	286.30	286.20	286.51	286.65	286.41	286.20	286.05	285.95	285.97	285.80	
18	285.91	286.17	286.21	286.15	286.40	286.44	286.37	286.16	286.05	285.97	286.19	285.82	
19	285.90	286.10	286.18	286.12	286.62	286.37	286.33	286.15	286.04	285.97	286.19	285.83	
20	285.92	286.08	286.18	286.15	287.07	286.39	286.34	286.15	286.04	285.99	286.25	285.88	
21	285.92	286.08	286.14	286.14	286.30	286.55	286.33	286.15	286.02	286.01	286.23	285.87	
22	285.91	286.08	286.10	286.12	286.28	286.47	286.35	286.14	286.02	286.01	286.17	285.86	
23	285.91	286.07	286.04	286.05	286.27	286.50	286.40	286.13	285.98	286.01	286.12	285.88	
24	285.92	286.07	286.01	285.94	286.28	286.47	286.41	286.13	285.98	286.01	286.07	286.02	
25	286.03	286.08	286.08	286.09	287.18	286.56	286.39	286.11	285.99	285.99	286.06	286.03	
26	286.27	286.07	286.07	286.11	286.50	286.54	286.39	286.14	286.01	285.91	286.06	286.07	
27	286.08	286.06	286.05	286.08	286.43	286.46	286.34	286.14	286.04	285.91	286.02	285.99	
28	286.31	286.06	286.07	286.05	286.40	286.46	286.33	286.14	286.04	285.94	285.96	285.96	
29	286.33	286.08	286.04	286.04	286.42	286.44	286.33	286.12	286.06	285.92	285.98	285.98	
30	286.35	286.05	286.07	286.04	286.43	286.41	286.34	286.11	286.06	285.91	286.13	286.13	
31		286.05		286.06	286.44		286.31		286.05	285.90	286.04	286.04	
Mean	285.97	286.19	286.21	286.09	286.36	286.58	286.39	286.19	286.05	285.97	286.00	285.90	
Max	286.35	286.66	286.77	286.40	287.18	287.69	286.95	286.30	286.09	286.04	286.25	286.13	287.69
Min	285.88	286.05	286.01	285.94	286.00	286.34	286.22	286.11	285.98	285.90	285.87	285.80	285.80
Annual Max Momentary Gage Height	287.75		m. (MSL.) ,			at 06.00 Hours ,		on Sep 8, 2021					
Zero Gage at Bottom Elevation	286.47		m. (MSL.) ,			River Bed	285.29	m. (MSL.)					
Left Bank Elevation		291.23		m. (MSL.) ,									
Right Bank Elevation		291.27		m. (MSL.) ,		Drainage Are	150	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	1.28	0.32	0.32	0.29	1.50	1.00	0.70	0.34	0.25	0.10	0.14	
2	0.09	2.20	0.32	0.32	0.32	0.82	1.08	0.64	0.34	0.25	0.10	0.13	
3	0.09	1.28	0.31	0.34	0.41	0.82	1.36	0.68	0.34	0.26	0.12	0.10	
4	0.10	0.70	0.62	0.31	0.35	1.28	0.82	0.70	0.34	0.23	0.10	0.09	
5	0.09	0.58	2.82	0.28	0.38	1.04	0.58	0.62	0.32	0.25	0.15	0.09	
6	0.10	0.54	0.97	0.28	0.46	1.08	0.73	0.62	0.32	0.16	0.19	0.08	
7	0.10	0.68	0.73	0.28	0.31	3.12	0.56	0.58	0.32	0.17	0.19	0.09	
8	0.10	0.62	0.70	0.23	0.32	9.51	0.62	0.50	0.29	0.12	0.18	0.10	
9	0.10	0.64	0.79	0.18	0.32	6.28	0.54	0.50	0.29	0.15	0.17	0.10	
10	0.10	0.60	0.76	0.19	0.20	1.70	1.28	0.58	0.26	0.14	0.16	0.08	
11	0.10	0.49	0.85	0.18	0.20	1.55	3.90	0.52	0.25	0.12	0.14	0.07	
12	0.10	0.50	0.76	0.15	0.66	1.16	1.70	0.49	0.25	0.15	0.10	0.07	
13	0.10	0.49	0.79	0.32	1.36	1.95	1.55	0.49	0.25	0.15	0.09	0.07	
14	0.11	0.52	0.62	0.40	1.45	5.32	1.04	0.47	0.26	0.16	0.09	0.07	
15	0.12	0.50	0.76	1.00	2.82	2.00	1.65	0.46	0.28	0.15	0.09	0.07	
16	0.11	0.49	0.76	0.76	2.05	1.20	1.16	0.47	0.26	0.14	0.09	0.06	
17	0.12	0.49	0.70	0.50	1.45	2.15	1.04	0.50	0.28	0.15	0.17	0.05	
18	0.11	0.46	0.52	0.43	1.00	1.16	0.91	0.44	0.28	0.17	0.49	0.06	
19	0.10	0.35	0.47	0.38	2.00	0.91	0.79	0.43	0.26	0.17	0.49	0.07	
20	0.12	0.32	0.47	0.43	4.69	0.97	0.82	0.43	0.26	0.19	0.60	0.09	
21	0.12	0.32	0.41	0.41	0.70	1.65	0.79	0.43	0.23	0.22	0.56	0.09	
22	0.11	0.32	0.35	0.38	0.66	1.28	0.85	0.41	0.23	0.22	0.46	0.08	
23	0.11	0.31	0.26	0.28	0.64	1.40	1.00	0.40	0.18	0.22	0.38	0.09	
24	0.12	0.31	0.22	0.14	0.66	1.28	1.04	0.40	0.18	0.22	0.31	0.23	
25	0.25	0.32	0.32	0.34	5.46	1.70	0.97	0.37	0.19	0.19	0.29	0.25	
26	0.64	0.31	0.31	0.37	1.40	1.60	0.97	0.41	0.22	0.11	0.29	0.31	
27	0.32	0.29	0.28	0.32	1.12	1.24	0.82	0.41	0.26	0.11	0.23	0.19	
28	0.73	0.29	0.31	0.28	1.00	1.24	0.79	0.41	0.26	0.14	0.16	0.16	
29	0.79	0.32	0.26	0.26	1.08	1.16	0.79	0.38	0.29	0.12		0.18	
30	0.85	0.28	0.31	0.26	1.12	1.04	0.82	0.37	0.29	0.11		0.40	
31		0.28		0.29	1.16		0.73		0.28	0.10		0.26	
<b>Total</b>	6.09	17.08	18.07	10.61	36.04	59.11	32.70	14.81	8.40	5.29	6.49	3.92	218.61 CMSDAY
<b>Mean</b>	0.20	0.55	0.60	0.34	1.16	1.97	1.05	0.49	0.27	0.17	0.23	0.13	0.60 CMS
<b>Max</b>	0.85	2.20	2.82	1.00	5.46	9.51	3.90	0.70	0.34	0.26	0.60	0.40	9.51 CMS
<b>Min</b>	0.09	0.28	0.22	0.14	0.20	0.82	0.54	0.37	0.18	0.10	0.09	0.05	0.05 CMS
<b>Runoff</b>	0.53	1.48	1.56	0.92	3.11	5.11	2.83	1.28	0.73	0.46	0.56	0.34	18.89 MCM
<b>Momentary Peak</b>	10.05	CMS. at 287.75 m. (MSL.) at 06.00 Hours , on Sep 8, 2021											
<b>Runoff Yield</b>	3.99	Liters/Second/Square KM. Momentary Peak Yield 67.00 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

Yom River at Ban Nam Khong , Phrae (Y.1C)

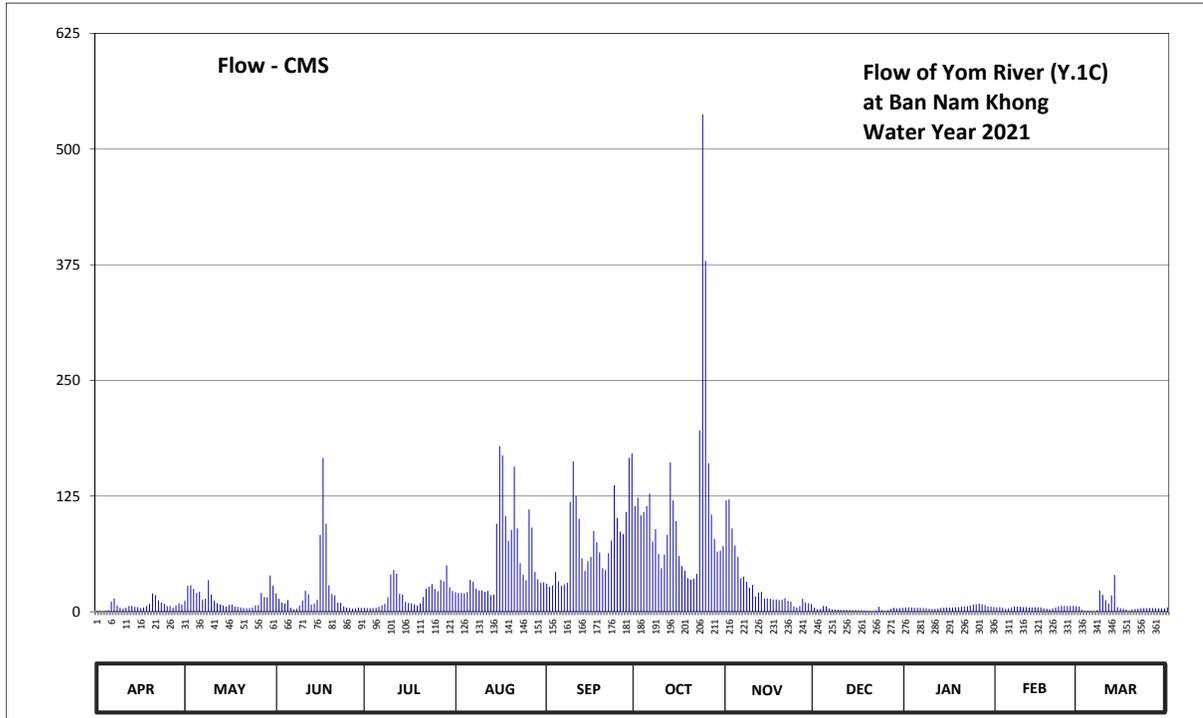
Lat 18 - 08 - 02 N Long 100 - 07 - 29 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	<b>Ban Nam Khong</b>	<b>Amphoe Mueang</b>	<b>Changwat Phrae</b>
<b>Drainage Area</b>	7,661 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+143.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the station office		<b>Elevation</b> +153.972 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Mae yom weir situated about 76 kilometers above gage site. Stage-discharge relation defined by 50 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.35	143.90	144.11	143.61	144.14	144.32	145.39	145.46	143.62	143.63	143.64	143.68	
2	143.37	144.28	143.96	143.60	144.12	144.26	145.49	145.47	143.53	143.64	143.65	143.49	
3	143.34	144.29	143.84	143.60	144.12	144.29	145.28	145.12	143.54	143.63	143.62	143.35	
4	143.36	144.21	143.80	143.60	144.11	144.54	145.32	144.91	143.70	143.61	143.56	143.35	
5	143.46	144.12	143.92	143.61	144.14	144.37	145.39	144.76	143.69	143.61	143.59	143.34	
6	143.87	144.15	143.61	143.66	144.40	144.28	145.54	144.43	143.58	143.61	143.63	143.31	
7	143.97	143.94	143.52	143.73	144.36	144.31	144.96	144.46	143.52	143.60	143.68	143.44	
8	143.72	143.96	143.56	143.79	144.22	144.34	145.11	144.36	143.51	143.60	143.68	144.18	
9	143.63	144.39	143.72	144.01	144.18	145.44	144.80	144.24	143.50	143.56	143.66	144.07	
10	143.57	144.08	143.91	144.50	144.18	145.92	144.60	144.30	143.48	143.54	143.65	143.92	
11	143.61	143.90	144.17	144.57	144.15	145.51	144.79	144.03	143.49	143.55	143.65	143.80	
12	143.70	143.81	144.09	144.51	144.17	145.24	145.04	144.13	143.48	143.57	143.63	144.06	
13	143.71	143.76	143.76	144.10	144.07	144.74	145.91	144.15	143.47	143.60	143.63	144.49	
14	143.66	143.72	143.79	144.08	144.08	144.56	145.46	143.97	143.48	143.62	143.64	143.65	
15	143.65	143.68	143.93	143.86	145.18	144.70	145.21	143.97	143.47	143.63	143.64	143.59	
16	143.60	143.75	145.04	143.82	146.09	144.76	144.77	143.96	143.45	143.62	143.63	143.57	
17	143.63	143.76	145.96	143.81	145.99	145.09	144.63	143.94	143.44	143.63	143.58	143.52	
18	143.70	143.68	145.18	143.77	145.27	144.95	144.56	143.94	143.42	143.64	143.56	143.67	
19	143.79	143.66	144.29	143.72	144.97	144.82	144.43	143.92	143.39	143.65	143.53	144.21	
20	144.11	143.63	144.10	143.80	145.10	144.60	144.40	143.93	143.39	143.68	143.58	144.28	
21	144.07	143.60	144.06	144.02	145.86	144.57	144.42	143.98	143.33	143.69	143.62	144.37	
22	143.91	143.59	143.84	144.22	145.12	144.81	144.51	143.90	143.44	143.69	143.68	144.48	
23	143.84	143.60	143.83	144.26	144.67	144.97	146.26	143.87	143.66	143.73	143.71	144.49	
24	143.79	143.63	143.69	144.32	144.50	145.64	149.26	143.68	143.48	143.76	143.71	144.53	
25	143.70	143.73	143.62	144.21	144.39	145.25	147.95	143.63	143.35	143.77	143.70	144.59	
26	143.70	143.74	143.60	144.16	145.35	145.08	145.90	143.70	143.46	143.80	143.71	144.55	
27	143.63	144.12	143.56	144.40	145.13	145.05	145.29	143.96	143.55	143.77	143.71	144.48	
28	143.73	144.02	143.58	144.37	144.54	145.32	144.99	143.84	143.61	143.74	143.69	144.43	
29	143.81	144.01	143.62	144.64	144.41	145.96	144.83	143.81	143.58	143.69		144.44	
30	143.76	144.48	143.61	144.25	144.34	146.01	144.84	143.78	143.60	143.67		144.47	
31		144.28		144.17	144.35		144.90		143.61	143.65		144.71	
Mean	143.69	143.92	143.98	144.02	144.64	144.92	145.30	144.19	143.51	143.65	143.64	144.02	
Max	144.11	144.48	145.96	144.64	146.09	146.01	149.26	145.47	143.70	143.80	143.71	144.71	149.26
Min	143.34	143.59	143.52	143.60	144.07	144.26	144.40	143.63	143.33	143.54	143.53	143.31	143.31
Annual Max Momentary Gage Height	149.48		m. (MSL.) ,				at 10.00 Hours ,						on Oct 24, 2021
Zero Gage at Bottom Elevation	143.50		m. (MSL.) ,			River Bed	142.05		m. (MSL.)				
Left Bank Elevation		153.91		m. (MSL.) ,									
Right Bank Elevation		154.02		m. (MSL.) ,		Drainage Are	7,661		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	11.80	19.77	4.21	21.18	30.10	114.10	120.40	4.42	4.63	4.84	5.68		
2	0.76	28.00	13.84	4.00	20.24	27.00	123.10	121.30	2.74	4.84	5.05	2.08		
3	0.52	28.50	10.00	4.00	20.24	28.50	104.20	90.00	2.92	4.63	4.42	0.60		
4	0.68	24.50	8.80	4.00	19.77	43.02	107.80	71.67	6.10	4.21	3.28	0.60		
5	1.72	20.24	12.48	4.21	21.18	32.85	114.10	59.38	5.89	4.21	3.82	0.52		
6	10.90	21.65	4.21	5.26	34.50	28.00	127.60	36.24	3.64	4.21	4.63	0.28		
7	14.18	13.16	2.56	6.91	32.30	29.55	76.02	37.98	2.56	4.00	5.68	1.48		
8	6.64	13.84	3.28	8.53	25.00	31.20	89.13	32.30	2.38	4.00	5.68	23.06		
9	4.63	33.95	6.64	15.61	23.06	118.60	62.50	26.00	2.20	3.28	5.26	18.07		
10	3.46	18.48	12.14	40.30	23.06	162.40	47.10	29.00	1.96	2.92	5.05	12.48		
11	4.21	11.80	22.59	45.06	21.65	124.90	61.72	16.43	2.08	3.10	5.05	8.80		
12	6.10	9.10	18.89	40.98	22.59	100.60	83.00	20.71	1.96	3.46	4.63	17.66		
13	6.37	7.72	7.72	19.30	18.07	57.82	161.45	21.65	1.84	4.00	4.63	39.72		
14	5.26	6.64	8.53	18.48	18.48	44.38	120.40	14.18	1.96	4.42	4.84	5.05		
15	5.05	5.68	12.82	10.60	95.25	54.70	97.90	14.18	1.84	4.63	4.84	3.82		
16	4.00	7.45	83.00	9.40	179.00	59.38	60.16	13.84	1.60	4.42	4.63	3.46		
17	4.63	7.72	166.20	9.10	169.05	87.38	49.38	13.16	1.48	4.63	3.64	2.56		
18	6.10	5.68	95.25	7.99	103.30	75.15	44.38	13.16	1.24	4.84	3.28	0.94		
19	8.53	5.26	28.50	6.64	76.89	64.16	36.24	12.48	0.92	5.05	2.74	2.64		
20	19.77	4.63	19.30	8.80	88.25	47.10	34.50	12.82	0.92	5.68	3.64	2.92		
21	18.07	4.00	17.66	16.02	156.70	45.06	35.66	14.52	0.44	5.89	4.42	3.28		
22	12.14	3.82	10.00	25.00	90.00	63.33	40.98	11.80	1.48	5.89	5.68	3.72		
23	10.00	4.00	9.70	27.00	52.42	76.89	196.00	10.90	5.26	6.91	6.37	3.76		
24	8.53	4.63	5.89	30.10	40.30	136.60	537.50	5.68	1.96	7.72	6.37	3.92		
25	6.10	6.91	4.42	24.50	33.95	101.50	379.25	4.63	0.60	7.99	6.10	4.16		
26	6.10	7.18	4.00	22.12	110.50	86.50	160.50	6.10	1.72	8.80	6.37	4.00		
27	4.63	20.24	3.28	34.50	90.88	83.88	105.10	13.84	3.10	7.99	6.37	3.72		
28	6.91	16.02	3.64	32.85	43.02	107.80	78.63	10.00	4.21	7.18	5.89	3.52		
29	9.10	15.61	4.42	50.14	35.08	166.20	64.99	9.10	3.64	5.89		3.56		
30	7.72	39.14	4.21	26.50	31.20	171.00	65.82	8.26	4.00	5.47		3.68		
31		28.00		22.59	31.75		70.80		4.21	5.05		4.64		
Total	203.41	435.35	623.74	584.70	1748.86	2285.55	3450.01	871.71	81.27	159.94	137.20	194.38	10776.12	CMSDAY
Mean	6.78	14.04	20.79	18.86	56.41	76.19	111.29	29.06	2.62	5.16	4.90	6.27	29.52	CMS
Max	19.77	39.14	166.20	50.14	179.00	171.00	537.50	121.30	6.10	8.80	6.37	39.72	537.50	CMS
Min	0.52	3.82	2.56	4.00	18.07	27.00	34.50	4.63	0.44	2.92	2.74	0.28	0.28	CMS
Runoff	17.57	37.61	53.89	50.52	151.10	197.47	298.08	75.32	7.02	13.82	11.85	16.79	931.06	MCM
Momentary Peak	565.00 CMS. at 149.48 m. (MSL.) at 10.00 Hours , on Oct 24, 2021													
Runoff Yield	3.85 Liters/Second/Square KM.			Momentary Peak Yield			73.75 Liters/Second/Square KM.							

## WATER YEAR : 2021

## YOM RIVER BASIN

Yom River at Ban Wang Mai Khon , Sukhothai (Y.3A)

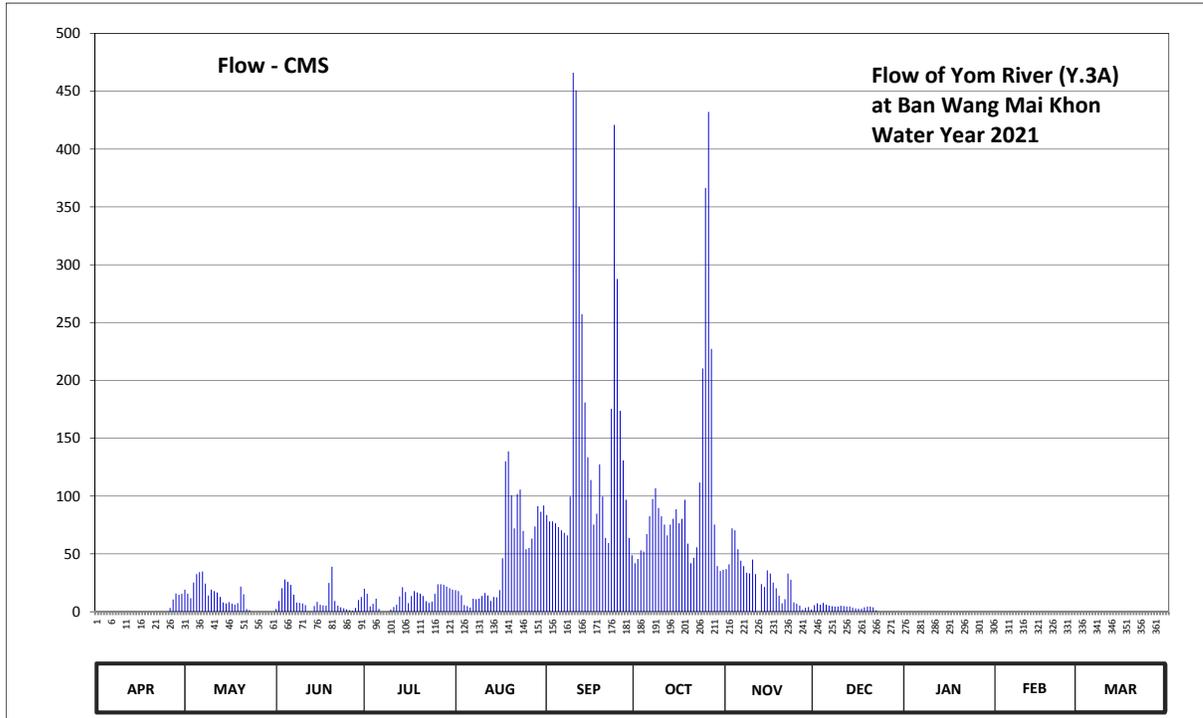
Lat 17 - 18 - 46 N Long 99 - 49 - 37 E

Location : on right bank about 100 meters downstream from the bridge on highway.

	Ban Wang Mai Khon	Amphoe Sawankhalok	Changwat Sukhothai
<b>Drainage Area</b>	12,757 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+51.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of automatic gage building.	<b>Elevation</b>	+65.475 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1967 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.30	51.25	50.72	51.27	51.24	52.47	51.70	51.60	52.52	51.46	51.39	51.87	
2	50.30	51.16	51.00	51.16	51.22	52.37	51.77	51.68	52.56	51.70	52.02	51.87	
3	50.30	51.06	51.28	50.83	51.13	52.37	51.91	52.26	52.53	51.90	52.07	51.86	
4	50.32	51.38	51.43	50.91	50.87	52.34	51.89	52.23	52.57	51.88	52.00	51.86	
5	50.37	51.52	51.39	51.05	50.84	52.28	52.17	51.93	52.53	51.84	52.02	51.85	
6	50.43	51.55	51.34	50.73	50.79	52.23	52.45	51.74	52.51	51.83	52.01	51.86	
7	50.36	51.56	51.14	50.61	51.05	52.19	52.72	51.65	52.50	51.83	52.00	51.86	
8	50.33	51.36	50.95	50.58	51.04	52.15	52.89	51.54	52.49	51.82	52.06	51.86	
9	50.32	51.12	50.94	50.61	51.05	52.76	52.58	51.53	52.49	51.81	52.12	51.86	
10	50.31	51.25	50.92	50.70	51.11	57.85	52.45	51.76	52.51	51.79	52.00	51.85	
11	50.31	51.22	50.87	50.81	51.18	57.71	52.32	51.52	52.50	51.77	51.80	51.85	
12	50.31	51.19	50.63	50.88	51.12	56.62	52.15	51.90	52.49	51.73	51.69	51.85	
13	50.31	51.09	50.62	51.10	51.00	55.39	52.32	52.77	52.49	51.70	51.68	51.85	
14	50.31	50.95	50.84	51.30	51.09	54.19	52.41	52.75	52.44	51.67	51.62	51.85	
15	50.31	50.92	50.97	51.20	51.08	53.37	52.56	52.83	52.42	51.63	51.58	51.85	
16	50.32	50.96	50.88	50.93	51.24	53.02	52.34	52.82	52.41	51.57	51.54	51.88	
17	50.36	50.91	50.86	51.11	51.78	52.32	52.41	52.78	52.41	51.47	51.52	52.12	
18	50.35	50.88	50.85	51.22	53.31	52.49	52.71	52.74	52.46	51.45	51.52	52.25	
19	50.33	50.93	51.37	51.19	53.46	53.26	52.02	52.68	52.49	51.43	51.51	52.22	
20	50.33	51.31	51.64	51.16	52.78	52.76	51.70	52.56	52.49	51.42	51.51	52.20	
21	50.33	51.15	51.00	51.11	52.26	52.11	51.79	52.63	52.46	51.41	51.52	52.18	
22	50.33	50.72	50.85	50.99	52.80	52.03	51.96	52.82	52.35	51.35	51.66	52.18	
23	50.33	50.67	50.80	50.94	52.87	54.10	52.98	52.80	52.15	51.32	51.81	52.16	
24	50.33	50.69	50.76	50.98	52.22	57.42	54.67	52.58	52.02	51.44	51.88	52.14	
25	50.51	50.95	50.71	51.16	51.93	55.82	56.82	52.55	51.72	51.36	51.88	52.13	
26	50.77	50.92	50.67	51.35	51.95	54.07	57.53	52.51	51.37	51.22	51.88	52.12	
27	51.03	50.94	50.65	51.35	52.10	53.32	54.94	52.37	51.19	51.08	51.88	52.11	
28	51.17	50.96	50.77	51.34	52.29	52.71	52.32	52.44	51.01	51.05	51.88	52.15	
29	51.14	50.76	51.02	51.31	52.61	52.11	51.65	52.47	51.10	51.00		52.21	
30	51.16	50.74	51.09	51.28	52.52	51.83	51.57	52.38	51.02	50.96		52.19	
31		50.70		51.25	52.62		51.59		51.36	50.95		52.16	
Mean	50.46	51.06	50.97	51.05	51.76	53.52	52.69	52.29	52.18	51.51	51.79	52.01	
Max	51.17	51.56	51.64	51.35	53.46	57.85	57.53	52.83	52.57	51.90	52.12	52.25	57.85
Min	50.30	50.67	50.62	50.58	50.79	51.83	51.57	51.52	51.01	50.95	51.39	51.85	50.30
Annual Max Momentary Gage Height	58.45		m. (MSL.) ,				at 16.00 Hours ,						
Zero Gage at Bottom Elevation		51.00	m. (MSL.) ,			River Bed	51.21	m. (MSL.)					
Left Bank Elevation		63.89	m. (MSL.) ,										
Right Bank Elevation		63.70	m. (MSL.) ,			Drainage Are	12,757	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	19.10	2.28	19.94	18.68	83.65	42.00	36.80	5.64	0.00	0.00	0.00	
2	0.00	15.48	9.40	15.48	17.84	78.15	45.64	40.96	7.32	0.00	0.00	0.00	
3	0.00	11.68	20.36	4.64	14.34	78.15	53.03	72.10	6.06	0.00	0.00	0.00	
4	0.00	25.36	27.96	6.88	5.76	76.50	51.97	70.45	7.74	0.00	0.00	0.00	
5	0.00	32.64	25.88	11.30	4.92	73.20	67.15	54.09	6.06	0.00	0.00	0.00	
6	0.00	34.20	23.28	2.47	3.61	70.45	82.55	44.08	5.22	0.00	0.00	0.00	
7	0.00	34.72	14.72	0.19	11.30	68.25	97.40	39.40	4.80	0.00	0.00	0.00	
8	0.00	24.32	8.00	0.00	10.92	66.05	106.75	33.68	4.56	0.00	0.00	0.00	
9	0.00	13.96	7.72	0.19	11.30	99.60	89.70	33.16	4.56	0.00	0.00	0.00	
10	0.00	19.10	7.16	1.90	13.58	465.95	82.55	45.12	5.22	0.00	0.00	0.00	
11	0.00	17.84	5.76	4.08	16.24	450.75	75.40	32.64	4.80	0.00	0.00	0.00	
12	0.00	16.62	0.57	6.04	13.96	350.02	66.05	0.00	4.56	0.00	0.00	0.00	
13	0.00	12.82	0.38	13.20	9.40	257.12	75.40	23.92	4.56	0.00	0.00	0.00	
14	0.00	8.00	4.92	21.20	12.82	180.81	80.35	21.40	3.36	0.00	0.00	0.00	
15	0.00	7.16	8.56	17.00	12.44	133.52	88.60	35.71	2.88	0.00	0.00	0.00	
16	0.00	8.28	6.04	7.44	18.68	113.92	76.50	33.04	2.64	0.00	0.00	0.00	
17	0.00	6.88	5.48	13.58	46.16	75.40	80.35	25.18	2.64	0.00	0.00	0.00	
18	0.00	6.04	5.20	17.84	130.16	84.75	96.85	20.14	3.84	0.00	0.00	0.00	
19	0.00	7.44	24.84	16.62	138.56	127.36	58.90	13.88	4.56	0.00	0.00	0.00	
20	0.00	21.72	38.88	15.48	100.70	99.60	42.00	7.32	4.56	0.00	0.00	0.00	
21	0.00	15.10	9.40	13.58	72.10	63.85	46.68	10.83	3.84	0.00	0.00	0.00	
22	0.00	2.28	5.20	9.12	101.80	59.45	55.68	33.04	1.20	0.00	0.00	0.00	
23	0.00	1.33	3.80	7.72	105.65	175.50	111.70	27.70	0.00	0.00	0.00	0.00	
24	0.00	0.00	3.04	8.84	69.90	420.84	210.24	8.16	0.00	0.00	0.00	0.00	
25	0.00	0.00	2.09	15.48	54.09	287.68	366.34	6.90	0.00	0.00	0.00	0.00	
26	3.23	0.00	1.33	23.80	55.15	173.73	432.06	5.22	0.00	0.00	0.00	0.00	
27	10.54	0.00	0.95	23.80	63.30	130.72	227.22	1.68	0.00	0.00	0.00	0.00	
28	15.86	0.00	3.23	23.28	73.75	96.85	75.40	3.36	0.00	0.00	0.00	0.00	
29	14.72	0.00	10.16	21.72	91.35	63.85	39.40	4.08	0.00	0.00	0.00	0.00	
30	15.48	0.00	12.82	20.36	86.40	48.79	35.24	1.92	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	19.10	91.90	0.00	36.28	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	<b>59.83</b>	<b>362.07</b>	<b>299.41</b>	<b>382.27</b>	<b>1476.76</b>	<b>4554.46</b>	<b>3095.38</b>	<b>785.96</b>	<b>100.62</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>11116.76</b> CMSDAY
<b>Mean</b>	<b>1.99</b>	<b>11.68</b>	<b>9.98</b>	<b>12.33</b>	<b>47.64</b>	<b>151.82</b>	<b>99.85</b>	<b>26.20</b>	<b>3.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>30.46</b> CMS
<b>Max</b>	<b>15.86</b>	<b>34.72</b>	<b>38.88</b>	<b>23.80</b>	<b>138.56</b>	<b>465.95</b>	<b>432.06</b>	<b>72.10</b>	<b>7.74</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>465.95</b> CMS
<b>Min</b>	<b>0.00</b>	<b>0.00</b>	<b>0.38</b>	<b>0.00</b>	<b>3.61</b>	<b>48.79</b>	<b>35.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>5.17</b>	<b>31.28</b>	<b>25.87</b>	<b>33.03</b>	<b>127.59</b>	<b>393.51</b>	<b>267.44</b>	<b>67.91</b>	<b>8.69</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>960.49</b> MCM
<b>Momentary Peak</b>		<b>553.25</b> CMS.	<b>at 58.45 m. (MSL.) at 16.00 Hours , on Sep 10, 2021</b>										
<b>Runoff Yield</b>		<b>2.39</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 43.37 Liters/Second/Square KM.</b>										

## WATER YEAR : 2021

## YOM RIVER BASIN

Yom River at Nai Mueang, Sukhothai (Y.4)

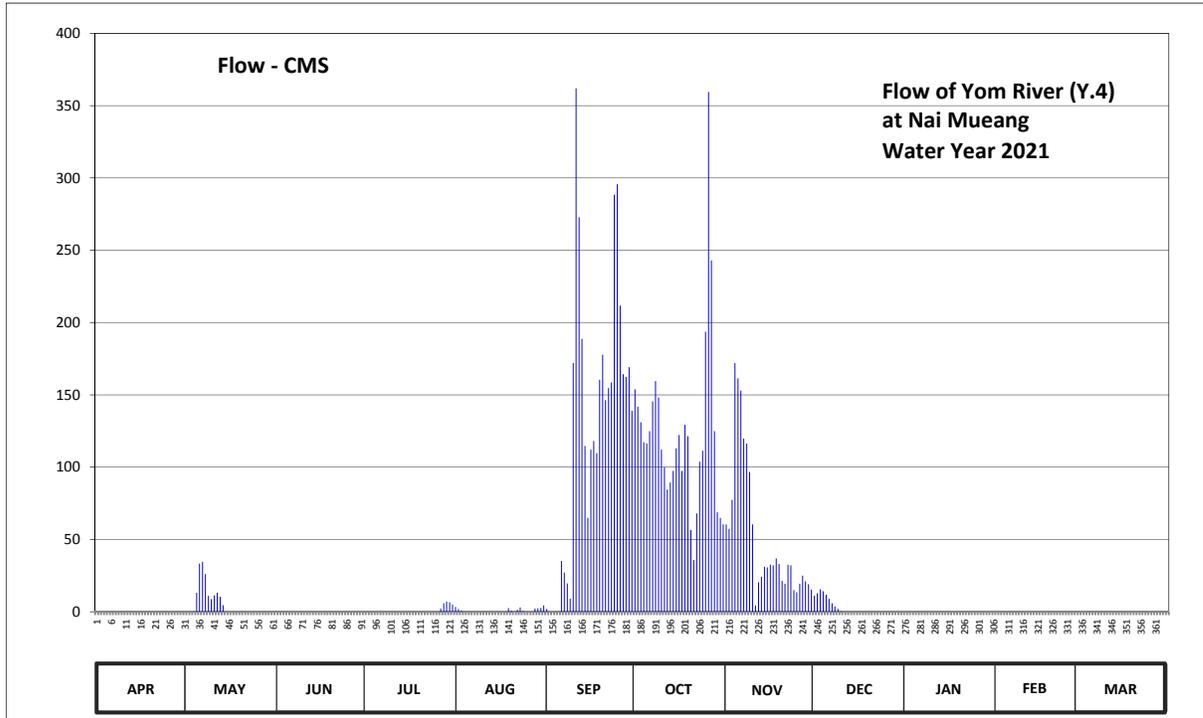
Lat 17 - 00 - 23 N Long 99 - 49 - 20 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Sukhothai
<b>Drainage Area</b>	16,683	sq.km.	
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+43.440	m. (MSL.)	
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+50.889 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1990 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.94	43.65	44.20	44.81	47.40	47.28	48.17	47.05	47.78	45.28	43.60	44.77	
2	42.94	44.67	44.00	45.37	47.27	47.00	48.04	47.01	47.85	45.10	43.55	44.74	
3	42.94	45.49	43.84	45.53	47.16	46.99	47.92	47.27	47.96	45.03	43.53	44.73	
4	42.94	45.71	44.44	45.22	46.95	47.01	47.76	48.36	47.91	45.03	43.51	44.71	
5	42.94	46.23	45.52	45.00	46.63	46.87	47.75	48.25	47.81	44.96	43.56	44.69	
6	42.94	46.66	45.99	45.10	46.31	46.69	47.85	48.16	47.68	44.89	43.61	44.68	
7	42.94	46.68	46.01	45.05	46.07	46.55	48.08	47.79	47.54	44.83	43.61	44.66	
8	42.94	46.53	45.60	44.92	46.05	46.40	48.23	47.75	47.42	44.77	43.60	44.65	
9	42.94	46.17	45.11	44.82	45.96	46.11	48.11	47.51	47.28	44.72	43.60	44.63	
10	42.94	46.10	44.83	44.79	45.81	48.36	47.70	47.05	47.06	44.66	43.59	44.61	
11	42.94	46.18	44.55	44.87	45.77	50.03	47.55	47.47	46.83	44.59	43.56	44.57	
12	42.94	46.23	44.11	45.02	45.89	49.30	47.36	48.11	46.56	44.53	43.54	44.54	
13	42.94	46.15	43.86	45.15	45.95	48.53	47.42	48.22	46.29	44.47	43.52	44.51	
14	42.94	45.93	43.80	45.49	45.92	47.73	47.52	48.39	46.08	44.43	43.52	44.47	
15	42.94	45.51	43.81	45.96	46.02	47.11	47.71	48.38	45.90	44.47	43.53	44.45	
16	42.94	45.22	44.13	46.08	46.02	47.70	47.82	48.42	45.70	44.67	43.68	44.44	
17	42.94	45.11	44.47	45.91	45.49	47.77	47.52	48.41	45.56	44.80	44.06	44.44	
18	42.94	45.12	44.64	46.04	46.29	47.67	47.90	48.51	45.43	44.81	44.42	44.44	
19	42.94	45.10	44.69	46.29	47.33	48.24	47.81	48.43	45.31	44.74	44.66	44.44	
20	42.94	45.19	45.32	46.43	47.14	48.42	47.00	48.14	45.20	44.41	44.94	44.67	
21	42.94	45.70	46.10	46.56	46.88	48.09	46.70	48.08	45.09	44.00	45.04	44.97	
22	42.94	45.94	45.82	46.68	47.22	48.18	47.15	48.42	44.94	43.85	45.01	45.11	
23	42.94	45.56	45.33	46.71	47.37	48.22	47.60	48.41	44.80	43.78	44.92	45.19	
24	42.94	45.01	44.98	46.68	47.10	49.43	47.69	47.94	44.68	43.73	44.84	45.22	
25	42.94	44.56	44.77	46.69	46.69	49.49	48.58	47.88	44.56	43.70	44.80	45.18	
26	42.94	44.43	44.56	46.92	46.49	48.75	50.01	48.08	44.46	44.13	44.79	45.12	
27	42.94	44.50	44.33	47.30	46.91	48.28	49.04	48.24	44.38	44.55	44.79	45.05	
28	42.94	44.47	44.20	47.54	47.30	48.26	47.85	48.13	44.31	44.38	44.79	44.97	
29	42.94	44.50	44.09	47.59	47.31	48.33	47.16	48.07	44.63	44.08		44.94	
30	42.94	44.52	44.33	47.57	47.34	48.01	47.11	47.95	45.33	43.84		45.05	
31		44.38		47.50	47.47		47.05		45.44	43.69		45.16	
Mean	42.94	45.39	44.71	45.99	46.63	47.89	47.78	48.00	46.06	44.48	44.08	44.77	
Max	42.94	46.68	46.10	47.59	47.47	50.03	50.01	48.51	47.96	45.28	45.04	45.22	50.03
Min	42.94	43.65	43.80	44.79	45.49	46.11	46.70	47.01	44.31	43.69	43.51	44.44	42.94
Annual Max Momentary Gage Height	50.25		m. (MSL.) ,				at 06.00 Hours ,						on Sep 11, 2021
Zero Gage at Bottom Elevation	43.44		m. (MSL.) ,			River Bed	42.54	m. (MSL.)					
Left Bank Elevation		51.69		m. (MSL.) ,									
Right Bank Elevation		51.59		m. (MSL.) ,		Drainage Are	16,683	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	3.30	1.98	153.81	60.40	11.06	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	1.87	0.00	141.72	57.36	12.70	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.86	0.00	131.00	77.37	15.52	0.00	0.00	0.00	
4	0.00	0.19	0.00	0.00	0.00	0.05	117.16	171.96	14.17	0.00	0.00	0.00	
5	0.00	13.14	0.00	0.00	0.00	0.00	116.33	161.40	11.74	0.00	0.00	0.00	
6	0.00	33.30	0.00	0.00	0.00	35.10	124.88	152.88	8.86	0.00	0.00	0.00	
7	0.00	34.50	0.00	0.00	0.00	27.10	145.44	119.67	5.78	0.00	0.00	0.00	
8	0.00	26.06	0.00	0.00	0.00	19.60	159.48	116.33	3.62	0.00	0.00	0.00	
9	0.00	11.01	0.00	0.00	0.00	9.03	148.23	96.56	1.98	0.00	0.00	0.00	
10	0.00	8.70	0.00	0.00	0.00	171.96	112.15	60.40	0.30	0.00	0.00	0.00	
11	0.00	11.34	0.00	0.00	0.00	361.97	99.78	4.42	0.00	0.00	0.00	0.00	
12	0.00	13.14	0.00	0.00	0.00	272.90	84.52	20.34	0.00	0.00	0.00	0.00	
13	0.00	10.35	0.00	0.00	0.00	188.67	89.31	24.18	0.00	0.00	0.00	0.00	
14	0.00	4.54	0.00	0.00	0.00	114.66	97.36	31.17	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	64.96	112.99	30.74	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	112.15	122.25	32.56	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	118.00	97.36	32.08	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	109.65	129.25	36.88	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	2.53	160.44	121.38	33.04	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.74	177.78	56.60	21.36	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	146.37	35.70	19.32	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	1.32	154.74	68.00	32.56	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	2.97	158.52	103.80	32.08	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.50	288.42	111.32	14.98	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	295.65	193.62	13.42	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	211.65	359.46	19.32	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	2.20	0.00	164.28	242.92	24.96	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	5.78	2.20	162.36	124.88	21.02	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	6.88	2.31	169.08	68.76	18.98	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	6.44	2.64	138.93	64.96	15.25	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	4.90	4.42		60.40		0.00	0.00	0.00	0.00	
Total	0.00	166.27	0.00	26.20	25.66	3836.00	3794.82	1552.99	85.73	0.00	0.00	0.00	9487.67 CMSDAY
Mean	0.00	5.36	0.00	0.85	0.83	127.87	122.41	51.77	2.77	0.00	0.00	0.00	25.99 CMS
Max	0.00	34.50	0.00	6.88	4.42	361.97	359.46	171.96	15.52	0.00	0.00	0.00	361.97 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	35.70	4.42	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	14.37	0.00	2.26	2.22	331.43	327.87	134.18	7.41	0.00	0.00	0.00	819.73 MCM
Momentary Peak		389.73		CMS. at 50.25 m. (MSL.)		at 06.00 Hours		on Sep 11, 2021					
Runoff Yield		1.56		Liters/Second/Square KM.		Momentary Peak Yield		23.36					Liters/Second/Square KM.

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Kaeng Luang , Sukhothai (Y.6)

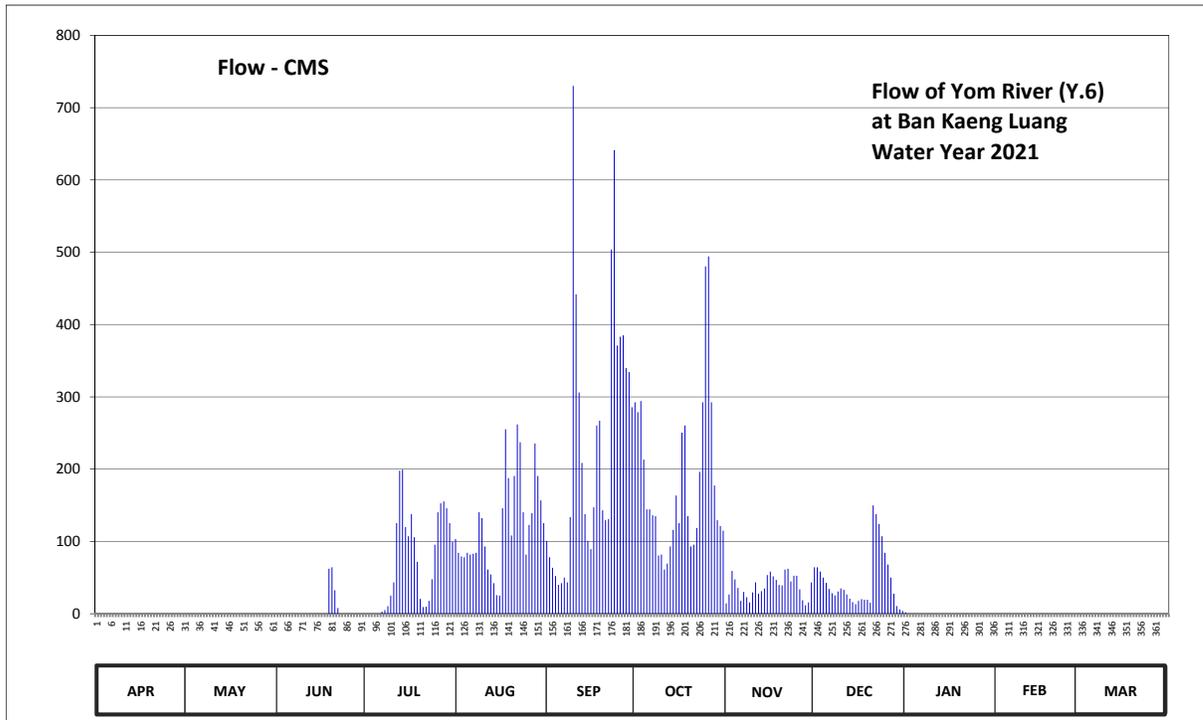
Lat 17 - 26 - 12 N Long 99 - 47 - 15 E

Location : on left bank about 150 meters upstream from Kaeng Luang.

	<b>Ban</b>	<b>Kaeng Luang</b>	<b>Amphoe</b>	<b>Si Satchanalai</b>	<b>Changwat</b>	<b>Sukhothai</b>
<b>Drainage Area</b>	12,619	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+59.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near automatic gage building				<b>Elevation</b>	+68.928 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1952 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1952 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1952 to date					
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	58.65	60.01	60.60	60.22	61.48	61.46	62.75	61.92	62.66	60.10	59.54	59.83	
2	58.65	59.78	60.94	60.00	61.33	61.28	62.67	62.16	62.66	60.00	59.50	59.84	
3	58.65	60.00	61.09	60.02	61.29	61.16	62.76	62.61	62.60	59.76	59.45	59.86	
4	58.65	60.12	60.84	59.96	61.28	61.06	62.27	62.48	62.51	59.59	59.13	59.84	
5	58.65	60.27	60.45	60.00	61.33	60.95	61.79	62.31	62.41	59.38	59.06	59.83	
6	58.64	60.22	60.25	60.01	61.31	60.97	61.79	62.00	62.29	59.23	59.47	59.83	
7	58.64	60.24	59.79	60.14	61.32	61.04	61.73	62.22	62.19	59.24	59.50	59.95	
8	58.64	60.19	60.01	60.25	61.33	60.98	61.72	62.10	62.14	59.66	59.59	60.05	
9	58.64	60.44	59.96	60.46	61.76	61.71	61.30	61.95	62.23	59.68	59.56	60.09	
10	58.64	60.52	59.87	60.77	61.70	64.65	61.31	62.21	62.30	59.76	59.50	60.12	
11	58.63	60.39	59.69	60.98	61.40	63.52	61.14	62.42	62.27	59.93	59.49	60.12	
12	58.63	60.74	59.59	61.65	61.14	62.83	61.21	62.18	62.16	59.72	59.47	60.13	
13	58.63	60.75	59.54	62.17	61.08	62.24	61.40	62.24	62.06	59.44	59.47	60.13	
14	58.63	60.69	59.96	62.18	60.97	61.74	61.58	62.30	61.96	59.23	59.53	60.14	
15	58.63	60.49	60.08	61.61	60.78	61.46	61.93	62.55	61.89	59.04	59.51	60.88	
16	58.62	60.26	60.08	61.51	60.77	61.37	61.65	62.60	62.00	58.93	59.48	60.95	
17	58.68	60.05	60.11	61.74	61.80	61.81	62.50	62.53	62.05	58.91	59.47	60.88	
18	58.68	59.88	60.55	61.50	62.53	62.56	62.56	62.47	62.03	58.89	59.46	60.81	
19	58.68	59.75	62.64	61.23	62.10	62.60	61.72	62.37	62.03	58.89	59.45	60.70	
20	58.69	59.57	62.66	60.70	61.52	61.78	61.40	62.36	61.94	58.89	59.44	60.56	
21	59.08	59.60	62.26	60.42	62.12	61.68	61.42	62.63	61.83	58.89	59.43	60.33	
22	59.91	59.55	61.75	60.43	62.57	61.69	61.60	62.64	61.74	58.89	59.42	59.96	
23	59.66	59.53	61.36	60.64	62.42	63.79	62.16	62.44	61.64	58.91	59.42	59.74	
24	59.98	59.50	61.21	61.02	61.76	64.33	62.75	62.54	61.51	58.99	59.41	59.47	
25	59.89	59.48	61.18	61.42	61.31	63.18	63.69	62.54	61.33	59.85	59.40	59.29	
26	59.81	59.44	61.17	61.76	61.63	63.24	63.75	62.28	61.20	59.46	59.39	59.21	
27	59.78	59.43	61.15	61.85	61.75	63.25	62.75	62.02	61.04	59.50	59.38	59.19	
28	59.71	59.47	61.06	61.87	62.41	63.02	62.03	61.85	60.81	59.59	59.37	59.19	
29	59.68	59.60	60.79	61.80	62.12	62.99	61.68	61.95	60.46	59.50		59.18	
30	59.99	59.74	60.56	61.65	61.88	62.71	61.62	62.42	60.30	59.48		59.14	
31		59.98		61.45	61.65		61.57		60.20	59.49		59.13	
Mean	59.01	59.99	60.71	61.01	61.61	62.23	62.01	62.31	61.82	59.38	59.44	59.95	
Max	59.99	60.75	62.66	62.18	62.57	64.65	63.75	62.64	62.66	60.10	59.59	60.95	64.65
Min	58.62	59.43	59.54	59.96	60.77	60.95	61.14	61.85	60.20	58.89	59.06	59.13	58.62
Annual Max Momentary Gage Height	64.72		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	59.00		m. (MSL.) ,			River Bed	56.38	m. (MSL.)					
Left Bank Elevation	68.89		m. (MSL.) ,										
Right Bank Elevation	68.59		m. (MSL.) ,			Drainage Are	12,619	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	103.24	100.68	292.40	14.34	64.20	2.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	84.25	78.00	278.80	26.50	64.20	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	79.25	63.48	294.10	59.20	58.20	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	78.00	52.18	213.26	47.50	49.83	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	84.25	40.00	144.44	35.60	42.60	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.20	81.75	42.16	144.44	17.70	34.30	0.00	0.00	0.00	
7	0.00	0.00	0.00	2.80	83.00	49.92	136.28	30.10	28.30	0.00	0.00	0.00	
8	0.00	0.00	0.00	5.00	84.25	43.24	134.92	22.90	25.30	0.00	0.00	0.00	
9	0.00	0.00	0.00	10.58	140.36	133.56	80.50	15.60	30.70	0.00	0.00	0.00	
10	0.00	0.00	0.00	25.02	132.20	730.20	81.75	29.50	34.90	0.00	0.00	0.00	
11	0.00	0.00	0.00	43.24	93.00	441.80	61.22	43.30	33.10	0.00	0.00	0.00	
12	0.00	0.00	0.00	125.40	61.22	306.15	69.25	27.70	26.50	0.00	0.00	0.00	
13	0.00	0.00	0.00	197.82	54.44	208.52	93.00	31.30	20.82	0.00	0.00	0.00	
14	0.00	0.00	0.00	199.28	42.16	137.64	116.04	34.90	16.02	0.00	0.00	0.00	
15	0.00	0.00	0.00	119.96	25.68	100.68	163.48	53.55	13.11	0.00	0.00	0.00	
16	0.00	0.00	0.00	107.08	25.02	89.25	125.40	58.20	17.70	0.00	0.00	0.00	
17	0.00	0.00	0.00	137.64	145.80	147.16	250.35	51.69	20.30	0.00	0.00	0.00	
18	0.00	0.00	0.00	105.80	255.32	260.28	260.28	46.80	19.26	0.00	0.00	0.00	
19	0.00	0.00	62.20	71.75	187.60	266.90	134.92	39.80	19.26	0.00	0.00	0.00	
20	0.00	0.00	64.20	20.40	108.36	143.08	93.00	39.10	15.18	0.00	0.00	0.00	
21	0.00	0.00	32.50	9.26	190.52	129.48	95.56	61.20	149.88	0.00	0.00	0.00	
22	0.00	0.00	8.00	9.59	261.94	130.84	118.60	62.20	137.64	0.00	0.00	0.00	
23	0.00	0.00	0.00	17.85	237.11	503.66	196.36	44.70	124.04	0.00	0.00	0.00	
24	0.00	0.00	0.00	47.66	140.36	641.17	292.40	52.62	107.08	0.00	0.00	0.00	
25	0.00	0.00	0.00	95.56	81.75	371.09	480.26	52.62	84.25	0.00	0.00	0.00	
26	0.00	0.00	0.00	140.36	122.68	383.14	494.30	33.70	68.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	152.60	139.00	385.18	292.40	18.74	49.92	0.00	0.00	0.00	
28	0.00	0.00	0.00	155.32	235.46	339.81	177.38	11.55	27.76	0.00	0.00	0.00	
29	0.00	0.00	0.00	145.80	190.52	334.15	129.48	15.60	10.58	0.00	0.00	0.00	
30	0.00	0.00	0.00	125.40	156.68	285.60	121.32	43.30	6.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	99.40	125.40	0.00	114.76	0.00	4.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	166.90	2170.77	3830.57	6939.00	5680.65	1121.51	1402.93	2.00	0.00	0.00	21314.33 CMSDAY
<b>Mean</b>	0.00	0.00	5.56	70.02	123.57	231.30	183.25	37.38	45.26	0.06	0.00	0.00	58.40 CMS
<b>Max</b>	0.00	0.00	64.20	199.28	261.94	730.20	494.30	62.20	149.88	2.00	0.00	0.00	730.20 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	25.02	40.00	61.22	11.55	4.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	14.42	187.55	330.96	599.53	490.81	96.90	121.21	0.17	0.00	0.00	1841.56 MCM
<b>Momentary Peak</b>	750.36 CMS. at 64.72 m. (MSL.) at 15.00 Hours , on Sep 10, 2021												
<b>Runoff Yield</b>	4.63 Liters/Second/Square KM.			Momentary Peak Yield				59.46 Liters/Second/Square KM.					

## WATER YEAR : 2021

## YOM RIVER BASIN

Nam Ngao at Ban Luang Nua , Lampang (Y.13A)

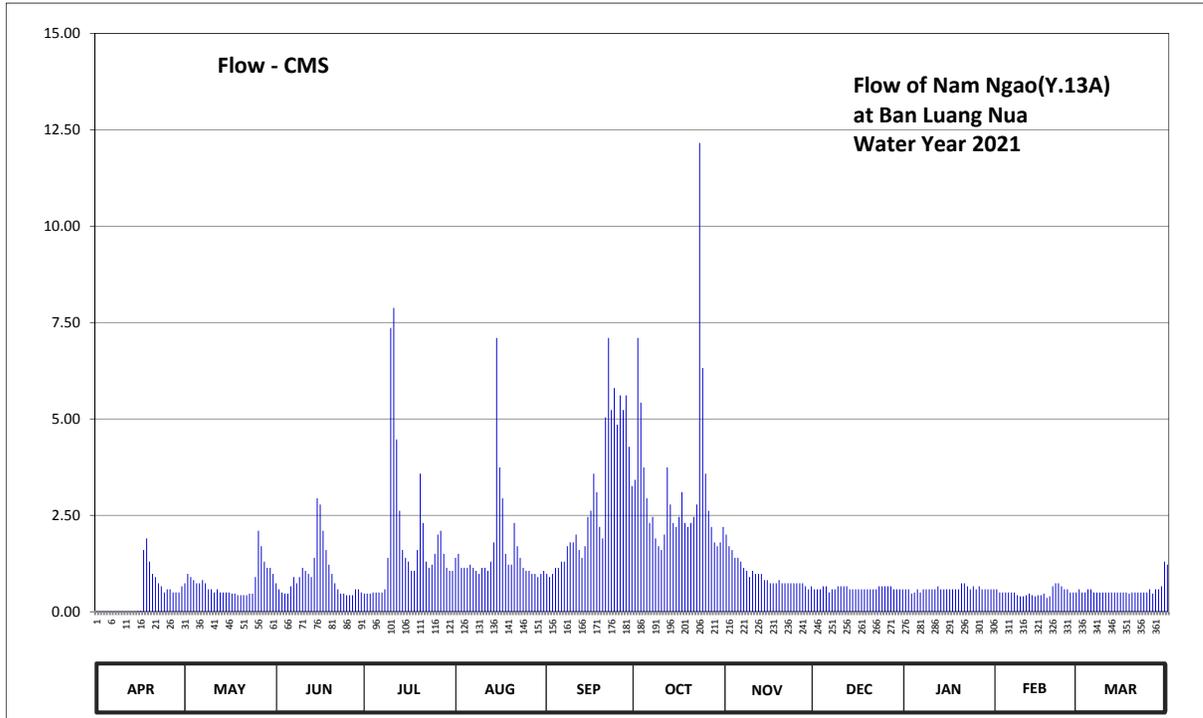
Lat 18 - 45 - 39 N Long 99 - 58 - 21 E

Location : on left bank at the bridge on highway about 1.6 kilometers upstream from station Y.13

	<b>Ban Luang Nua</b>	<b>Amphoe Ngao</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	378 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+268.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.	<b>Elevation</b>	+272.644 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1988 - 1995, 2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1988 - 1995, 2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1988 - 1995, 2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

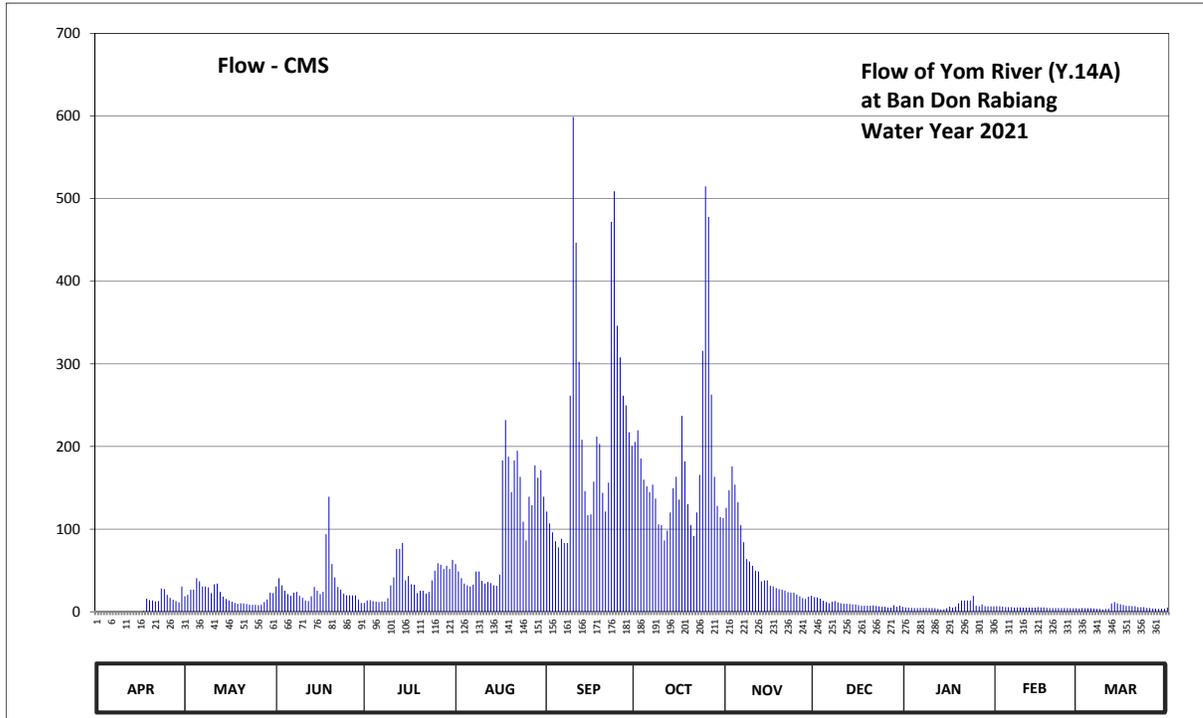
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.31	269.43	269.43	269.39	269.51	269.46	269.67	269.57	269.41	269.41	269.41	269.41	
2	268.31	269.46	269.41	269.39	269.52	269.45	269.85	269.54	269.41	269.41	269.40	269.40	
3	268.31	269.45	269.40	269.39	269.48	269.46	269.78	269.53	269.41	269.39	269.40	269.40	
4	268.31	269.44	269.39	269.40	269.48	269.48	269.69	269.51	269.42	269.40	269.40	269.41	
5	268.32	269.43	269.39	269.40	269.48	269.48	269.64	269.51	269.42	269.41	269.40	269.41	
6	268.33	269.43	269.42	269.40	269.49	269.50	269.60	269.50	269.40	269.40	269.40	269.40	
7	268.32	269.44	269.45	269.40	269.48	269.50	269.61	269.48	269.41	269.41	269.40	269.40	
8	268.32	269.43	269.43	269.41	269.47	269.54	269.56	269.47	269.41	269.41	269.38	269.40	
9	268.32	269.41	269.45	269.51	269.46	269.55	269.54	269.45	269.42	269.41	269.37	269.40	
10	268.32	269.41	269.48	269.86	269.48	269.55	269.53	269.47	269.42	269.41	269.37	269.40	
11	268.31	269.40	269.47	269.88	269.48	269.57	269.57	269.46	269.42	269.41	269.38	269.40	
12	268.31	269.41	269.46	269.73	269.47	269.53	269.69	269.46	269.42	269.42	269.39	269.40	
13	268.31	269.40	269.45	269.62	269.50	269.51	269.63	269.46	269.41	269.41	269.38	269.40	
14	268.34	269.40	269.51	269.53	269.55	269.54	269.60	269.44	269.41	269.41	269.37	269.40	
15	268.39	269.40	269.64	269.51	269.85	269.61	269.59	269.44	269.41	269.41	269.38	269.40	
16	268.47	269.40	269.63	269.50	269.69	269.62	269.61	269.43	269.41	269.41	269.38	269.40	
17	269.53	269.39	269.58	269.47	269.64	269.68	269.65	269.43	269.41	269.41	269.39	269.40	
18	269.56	269.39	269.53	269.47	269.52	269.65	269.60	269.43	269.41	269.41	269.36	269.39	
19	269.50	269.38	269.49	269.53	269.49	269.59	269.59	269.44	269.41	269.41	269.37	269.40	
20	269.46	269.38	269.46	269.68	269.49	269.56	269.60	269.43	269.41	269.43	269.42	269.40	
21	269.45	269.38	269.43	269.60	269.60	269.76	269.61	269.43	269.41	269.43	269.43	269.40	
22	269.43	269.38	269.41	269.50	269.54	269.85	269.63	269.43	269.41	269.42	269.43	269.40	
23	269.42	269.39	269.39	269.48	269.51	269.77	270.01	269.43	269.42	269.41	269.42	269.40	
24	269.40	269.39	269.39	269.49	269.48	269.80	269.82	269.43	269.42	269.42	269.41	269.40	
25	269.41	269.45	269.38	269.52	269.47	269.75	269.68	269.43	269.42	269.41	269.41	269.41	
26	269.41	269.58	269.38	269.57	269.47	269.79	269.62	269.43	269.42	269.42	269.40	269.39	
27	269.40	269.54	269.38	269.58	269.46	269.77	269.59	269.43	269.42	269.41	269.40	269.41	
28	269.40	269.50	269.41	269.52	269.46	269.79	269.55	269.42	269.41	269.41	269.40	269.41	
29	269.40	269.48	269.41	269.48	269.45	269.72	269.54	269.41	269.41	269.41	269.41	269.42	
30	269.42	269.48	269.40	269.47	269.46	269.66	269.55	269.42	269.41	269.41	269.41	269.50	
31		269.46		269.47	269.47		269.59		269.41	269.41		269.49	
Mean	268.85	269.43	269.45	269.52	269.51	269.62	269.64	269.46	269.41	269.41	269.39	269.41	
Max	269.56	269.58	269.64	269.88	269.85	269.85	270.01	269.57	269.42	269.43	269.43	269.50	270.01
Min	268.31	269.38	269.38	269.39	269.45	269.45	269.53	269.41	269.40	269.39	269.36	269.39	268.31
Annual Max Momentary Gage Height	270.13		m. (MSL.) ,				at 20.00 Hours ,						on Oct 23, 2021
Zero Gage at Bottom Elevation	268.30		m. (MSL.) ,				River Bed 268.20		m. (MSL.)				
Left Bank Elevation		274.92		m. (MSL.) ,									
Right Bank Elevation		275.04		m. (MSL.) ,			Drainage Are	378		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.74	0.74	0.47	1.40	0.98	3.42	2.00	0.58	0.58	0.58	0.58	
2	0.01	0.98	0.58	0.47	1.50	0.90	7.10	1.70	0.58	0.58	0.50	0.50	
3	0.01	0.90	0.50	0.47	1.14	0.98	5.42	1.60	0.58	0.47	0.50	0.50	
4	0.01	0.82	0.47	0.50	1.14	1.14	3.74	1.40	0.66	0.50	0.50	0.58	
5	0.01	0.74	0.47	0.50	1.14	1.14	2.94	1.40	0.66	0.58	0.50	0.58	
6	0.01	0.74	0.66	0.50	1.22	1.30	2.30	1.30	0.50	0.50	0.50	0.50	
7	0.01	0.82	0.90	0.50	1.14	1.30	2.46	1.14	0.58	0.58	0.50	0.50	
8	0.01	0.74	0.74	0.58	1.06	1.70	1.90	1.06	0.58	0.58	0.43	0.50	
9	0.01	0.58	0.90	1.40	0.98	1.80	1.70	0.90	0.66	0.58	0.40	0.50	
10	0.01	0.58	1.14	7.36	1.14	1.80	1.60	1.06	0.66	0.58	0.40	0.50	
11	0.01	0.50	1.06	7.88	1.14	2.00	2.00	0.98	0.66	0.58	0.43	0.50	
12	0.01	0.58	0.98	4.47	1.06	1.60	3.74	0.98	0.66	0.66	0.47	0.50	
13	0.01	0.50	0.90	2.62	1.30	1.40	2.78	0.98	0.58	0.58	0.43	0.50	
14	0.01	0.50	1.40	1.60	1.80	1.70	2.30	0.82	0.58	0.58	0.40	0.50	
15	0.02	0.50	2.94	1.40	7.10	2.46	2.20	0.82	0.58	0.58	0.43	0.50	
16	0.03	0.50	2.78	1.30	3.74	2.62	2.46	0.74	0.58	0.58	0.43	0.50	
17	1.60	0.47	2.10	1.06	2.94	3.58	3.10	0.74	0.58	0.58	0.47	0.50	
18	1.90	0.47	1.60	1.06	1.50	3.10	2.30	0.74	0.58	0.58	0.36	0.47	
19	1.30	0.43	1.22	1.60	1.22	2.20	2.20	0.82	0.58	0.58	0.40	0.50	
20	0.98	0.43	0.98	3.58	1.22	1.90	2.30	0.74	0.58	0.74	0.66	0.50	
21	0.90	0.43	0.74	2.30	2.30	5.04	2.46	0.74	0.58	0.74	0.74	0.50	
22	0.74	0.43	0.58	1.30	1.70	7.10	2.78	0.74	0.58	0.66	0.74	0.50	
23	0.66	0.47	0.47	1.14	1.40	5.23	12.16	0.74	0.66	0.58	0.66	0.50	
24	0.50	0.47	0.47	1.22	1.14	5.80	6.32	0.74	0.66	0.66	0.58	0.50	
25	0.58	0.90	0.43	1.50	1.06	4.85	3.58	0.74	0.66	0.58	0.58	0.58	
26	0.58	2.10	0.43	2.00	1.06	5.61	2.62	0.74	0.66	0.66	0.50	0.47	
27	0.50	1.70	0.43	2.10	0.98	5.23	2.20	0.74	0.66	0.58	0.50	0.58	
28	0.50	1.30	0.58	1.50	0.98	5.61	1.80	0.66	0.58	0.58	0.50	0.58	
29	0.50	1.14	0.58	1.14	0.90	4.28	1.70	0.58	0.58	0.58		0.66	
30	0.66	1.14	0.50	1.06	0.98	3.26	1.80	0.66	0.58	0.58		1.30	
31		0.98		1.06	1.06		2.20		0.58	0.58		1.22	
<b>Total</b>	12.09	23.58	28.27	55.64	48.44	87.61	97.58	29.00	18.78	18.35	14.09	17.60	451.03 CMSDAY
<b>Mean</b>	0.40	0.76	0.94	1.79	1.56	2.92	3.15	0.97	0.61	0.59	0.50	0.57	1.24 CMS
<b>Max</b>	1.90	2.10	2.94	7.88	7.10	7.10	12.16	2.00	0.66	0.74	0.74	1.30	12.16 CMS
<b>Min</b>	0.01	0.43	0.43	0.47	0.90	0.90	1.60	0.58	0.50	0.47	0.36	0.47	0.01 CMS
<b>Runoff</b>	1.04	2.04	2.44	4.81	4.19	7.57	8.43	2.51	1.62	1.59	1.22	1.52	38.97 MCM
<b>Momentary Peak</b>	16.48 CMS. at 270.13 m. (MSL.) at 20.00 Hours , on Oct 23, 2021												
<b>Runoff Yield</b>	3.27 Liters/Second/Square KM.			Momentary Peak Yield			43.60 Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	18.72	30.69	10.50	57.70	121.27	205.70	125.73	17.76	5.28	6.73	3.75		
2	0.00	20.30	40.61	13.62	48.70	106.83	219.45	147.12	17.28	4.99	6.44	4.32		
3	0.00	26.70	32.02	14.01	40.61	95.98	185.43	176.04	15.84	4.70	6.15	4.13		
4	0.00	26.70	25.37	12.84	34.01	85.24	159.73	153.90	13.23	4.70	5.57	4.13		
5	0.00	40.61	21.40	12.06	32.02	78.03	151.64	132.43	11.67	4.51	5.57	4.13		
6	0.00	36.67	19.20	11.67	30.69	88.39	144.86	104.66	10.21	4.70	5.57	3.75		
7	0.00	30.69	23.05	12.45	32.68	83.18	153.90	84.21	12.06	4.70	4.99	3.37		
8	0.00	30.69	24.15	12.06	48.70	83.18	136.95	63.70	12.84	4.70	5.28	3.37		
9	0.00	29.36	19.20	16.32	48.70	261.52	105.75	60.70	11.28	4.51	5.28	2.64		
10	0.00	22.50	16.80	32.02	37.34	599.00	104.66	55.70	10.21	4.32	4.99	3.37		
11	0.00	33.35	13.62	41.48	34.01	446.78	86.27	49.70	9.63	4.13	4.99	3.56		
12	0.00	34.01	12.84	75.97	36.01	302.57	98.15	48.70	9.63	3.37	4.99	9.92		
13	0.00	24.15	18.72	75.97	34.68	208.20	120.15	36.67	9.34	2.64	4.99	11.67		
14	0.00	18.24	30.02	83.18	32.02	145.99	149.38	38.00	8.76	2.80	4.99	10.21		
15	0.00	15.36	25.37	38.00	31.35	116.81	163.22	38.00	8.76	4.13	5.57	9.05		
16	0.00	13.62	21.40	43.22	44.96	117.92	135.82	31.35	7.89	6.15	5.28	8.18		
17	1.20	12.06	24.15	33.35	183.08	157.40	237.09	30.69	7.02	4.99	5.28	7.02		
18	15.84	10.50	93.81	32.68	232.03	211.95	181.90	28.69	7.31	5.86	4.70	7.02		
19	14.01	9.63	139.21	22.50	187.78	203.20	130.19	27.36	7.31	10.21	4.51	6.73		
20	13.62	10.21	57.70	25.37	144.86	143.73	104.66	26.70	7.31	13.62	4.51	6.73		
21	12.45	10.21	41.48	25.37	183.08	121.27	91.64	25.37	7.60	13.62	4.51	5.57		
22	12.84	9.34	30.02	21.95	194.83	156.23	120.15	23.60	7.02	13.62	4.51	5.57		
23	28.03	8.47	26.70	24.15	163.22	471.94	165.55	23.05	6.44	13.62	4.51	5.57		
24	27.36	8.18	21.95	38.00	109.00	508.94	315.87	23.05	5.86	19.20	4.32	4.70		
25	20.30	8.18	19.75	49.70	86.27	346.12	514.86	20.85	5.86	7.31	4.32	4.32		
26	16.80	7.89	19.75	58.70	139.21	307.89	477.86	18.72	5.28	6.44	4.13	3.75		
27	14.40	8.47	19.75	56.70	129.07	261.52	262.84	16.32	4.99	8.76	4.13	3.56		
28	12.84	11.67	19.75	51.70	177.20	249.74	163.22	15.36	7.89	6.73	4.13	3.37		
29	11.28	14.88	14.88	55.70	162.06	216.95	127.96	18.24	5.86	6.44		3.56		
30	30.69	23.05	10.50	51.70	171.38	200.70	114.58	19.20	7.31	6.44		3.56		
31		22.50		62.70	139.21		113.46		5.86	6.44		4.99		
<b>Total</b>	<b>231.66</b>	<b>596.91</b>	<b>913.86</b>	<b>1115.64</b>	<b>3026.46</b>	<b>6498.47</b>	<b>5442.89</b>	<b>1663.81</b>	<b>285.31</b>	<b>213.63</b>	<b>140.94</b>	<b>165.57</b>	<b>20295.15</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>7.72</b>	<b>19.26</b>	<b>30.46</b>	<b>35.99</b>	<b>97.63</b>	<b>216.62</b>	<b>175.58</b>	<b>55.46</b>	<b>9.20</b>	<b>6.89</b>	<b>5.03</b>	<b>5.34</b>	<b>55.60</b>	<b>CMS</b>
<b>Max</b>	<b>30.69</b>	<b>40.61</b>	<b>139.21</b>	<b>83.18</b>	<b>232.03</b>	<b>599.00</b>	<b>514.86</b>	<b>176.04</b>	<b>17.76</b>	<b>19.20</b>	<b>6.73</b>	<b>11.67</b>	<b>599.00</b>	<b>CMS</b>
<b>Min</b>	<b>0.00</b>	<b>7.89</b>	<b>10.50</b>	<b>10.50</b>	<b>30.69</b>	<b>78.03</b>	<b>86.27</b>	<b>15.36</b>	<b>4.99</b>	<b>2.64</b>	<b>4.13</b>	<b>2.64</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>20.02</b>	<b>51.57</b>	<b>78.96</b>	<b>96.39</b>	<b>261.49</b>	<b>561.47</b>	<b>470.27</b>	<b>143.75</b>	<b>24.65</b>	<b>18.46</b>	<b>12.18</b>	<b>14.31</b>	<b>1753.50</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>658.60</b>	<b>CMS.</b>	<b>at 68.81 m. (MSL.)</b>	<b>at 21.00 Hours</b>	<b>on Sep 23, 2021</b>								
<b>Runoff Yield</b>		<b>4.58</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>54.25</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## YOM RIVER BASIN

Yom River at Ban Kong , Sukhothai (Y.15)

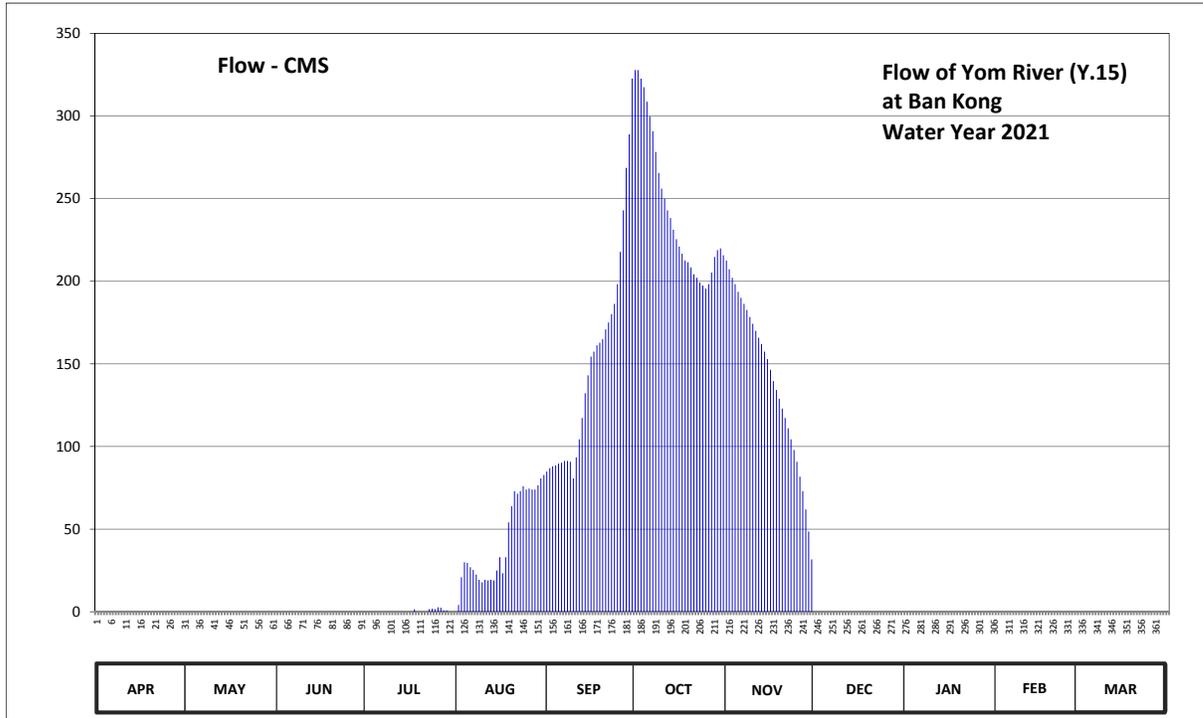
Lat 16 - 55 - 39 N Long 99 - 57 - 34 E

Location : on left bank at Ban Kong.

	<b>Ban Kong</b>	<b>Amphoe Kong Krailat</b>	<b>Changwat Sukhothai</b>
<b>Drainage Area</b>	18,894 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+35.320 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+45.320 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2010 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2010 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 8 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.32	37.67	35.87	38.64	39.20	41.54	44.06	43.31	39.58	38.95	36.86	36.35	
2	35.32	37.68	36.07	38.66	39.73	41.58	44.06	43.26	38.84	38.82	36.83	36.48	
3	35.32	37.66	36.25	38.68	40.17	41.60	44.04	43.21	38.99	38.70	36.82	36.72	
4	35.32	37.61	36.32	38.68	40.39	41.61	44.02	43.17	39.79	38.57	36.82	36.92	
5	35.32	37.54	36.32	38.66	40.38	41.63	43.98	43.12	40.52	38.43	36.82	37.15	
6	36.41	37.46	36.30	38.62	40.32	41.64	43.93	43.08	40.80	38.31	36.84	37.26	
7	36.61	37.38	36.27	38.59	40.28	41.66	43.88	43.04	40.85	38.25	36.84	37.50	
8	36.82	37.33	36.21	38.57	40.21	41.66	43.81	43.00	40.84	38.13	36.84	37.69	
9	36.80	37.30	36.23	38.57	40.13	41.65	43.73	42.95	40.81	38.05	36.84	37.82	
10	36.78	37.29	36.30	38.58	40.09	41.46	43.67	42.90	40.72	37.91	36.83	37.99	
11	36.77	37.28	36.37	38.64	40.13	41.70	43.63	42.85	40.76	37.77	36.82	38.08	
12	36.75	37.24	36.43	38.68	40.12	41.89	43.58	42.80	40.79	37.65	36.82	38.11	
13	36.73	37.21	36.62	38.70	40.13	42.10	43.54	42.75	40.74	37.51	36.82	38.16	
14	36.73	37.12	36.93	38.70	40.12	42.33	43.48	42.69	40.64	37.40	36.82	38.22	
15	36.73	36.98	37.18	38.70	40.27	42.49	43.43	42.63	40.61	37.25	36.81	38.32	
16	36.73	36.83	37.39	38.72	40.46	42.65	43.39	42.54	40.57	37.13	36.81	38.37	
17	36.76	36.70	37.73	38.87	40.23	42.69	43.35	42.44	40.54	37.05	36.81	38.39	
18	36.90	36.60	38.16	39.65	40.46	42.74	43.31	42.36	40.48	36.96	36.82	38.40	
19	37.11	36.53	38.42	39.25	40.93	42.76	43.30	42.28	40.42	36.85	36.84	38.38	
20	37.24	36.42	38.62	39.02	41.13	42.79	43.27	42.19	40.35	36.71	36.85	38.35	
21	37.36	36.26	38.76	39.27	41.31	42.86	43.23	42.10	40.24	36.66	36.95	38.32	
22	37.54	36.13	38.83	39.57	41.28	42.91	43.21	42.00	40.10	36.58	37.15	38.28	
23	37.71	35.97	38.87	39.65	41.31	42.97	43.18	41.89	39.96	36.54	37.35	38.24	
24	37.83	35.89	38.89	39.66	41.37	43.04	43.16	41.78	39.85	36.49	37.30	38.24	
25	37.87	35.87	38.84	39.65	41.33	43.17	43.14	41.65	39.76	36.46	37.20	38.23	
26	37.87	35.84	38.71	39.69	41.34	43.36	43.17	41.48	39.69	36.40	37.09	38.27	
27	37.82	35.83	38.63	39.68	41.33	43.58	43.24	41.31	39.63	36.35	37.14	38.30	
28	37.79	35.81	38.59	39.63	41.33	43.75	43.33	41.09	39.56	36.27	37.16	38.31	
29	37.69	35.80	38.56	39.63	41.38	43.87	43.37	40.81	39.48	36.12		38.33	
30	37.68	35.80	38.56	39.44	41.46	44.04	43.38	40.43	39.37	35.98		38.31	
31		35.81		39.23	41.50		43.34		39.25	35.90		38.26	
Mean	36.85	36.74	37.44	39.04	40.64	42.46	43.52	42.37	40.15	37.30	36.93	37.93	
Max	37.87	37.68	38.89	39.69	41.50	44.04	44.06	43.31	40.85	38.95	37.35	38.40	44.06
Min	35.32	35.80	35.87	38.57	39.20	41.46	43.14	40.43	38.84	35.90	36.81	36.35	35.32
Annual Max Momentary Gage Height	44.07		m. (MSL.) ,				at 05.00 Hours ,						on Oct 1, 2021
Zero Gage at Bottom Elevation		35.32	m. (MSL.) ,			River Bed	33.30	m. (MSL.)					
Left Bank Elevation		46.11	m. (MSL.) ,										
Right Bank Elevation		46.24	m. (MSL.) ,			Drainage Are	18,894	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	84.85	327.83	212.55	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	4.11	86.95	327.83	207.30	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	20.93	88.00	322.62	202.05	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	29.97	88.55	317.41	198.24	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	29.54	89.65	308.62	193.64	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	26.96	90.20	299.67	189.96	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	25.30	91.30	290.72	186.28	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	22.50	91.30	278.19	182.60	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	19.37	90.75	265.48	178.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	17.81	80.65	256.12	174.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	19.37	93.50	249.88	170.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	18.98	104.40	242.88	165.80	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	19.37	117.30	238.24	162.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	18.98	132.18	231.28	157.44	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	24.90	143.01	225.48	152.88	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	32.98	154.40	220.95	146.46	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	23.30	157.44	216.75	139.56	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	1.50	32.98	161.24	212.55	134.16	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	54.11	162.76	211.50	128.88	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	63.90	165.04	208.35	122.97	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	72.96	170.84	204.15	117.30	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	71.44	175.04	202.05	111.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	1.50	72.96	180.08	199.16	104.40	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	1.80	75.99	186.28	197.32	97.90	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.50	73.97	198.24	195.48	90.75	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	2.70	74.47	217.80	198.24	81.70	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	2.40	73.97	242.88	205.20	72.96	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.90	73.97	268.60	214.65	61.90	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.90	76.49	288.93	218.85	48.47	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	80.65	322.62	219.90	31.69	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	82.75		215.70		0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	13.20	1334.98	4524.78	7523.05	4223.44	0.00	0.00	0.00	0.00	17619.45 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.43	43.06	150.83	242.68	140.78	0.00	0.00	0.00	0.00	48.27 CMS
<b>Max</b>	0.00	0.00	0.00	2.70	82.75	322.62	327.83	212.55	0.00	0.00	0.00	0.00	327.83 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	80.65	195.48	31.69	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	1.14	115.34	390.94	649.99	364.91	0.00	0.00	0.00	0.00	1522.32 MCM
<b>Momentary Peak</b>	330.44	CMS. at 44.07 m. (MSL.) at 05.00 Hours , on Oct 1, 2021											
<b>Runoff Yield</b>	2.55	Liters/Second/Square KM. Momentary Peak Yield 17.49 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Bang Rakam , Phitsanulok (Y.16)

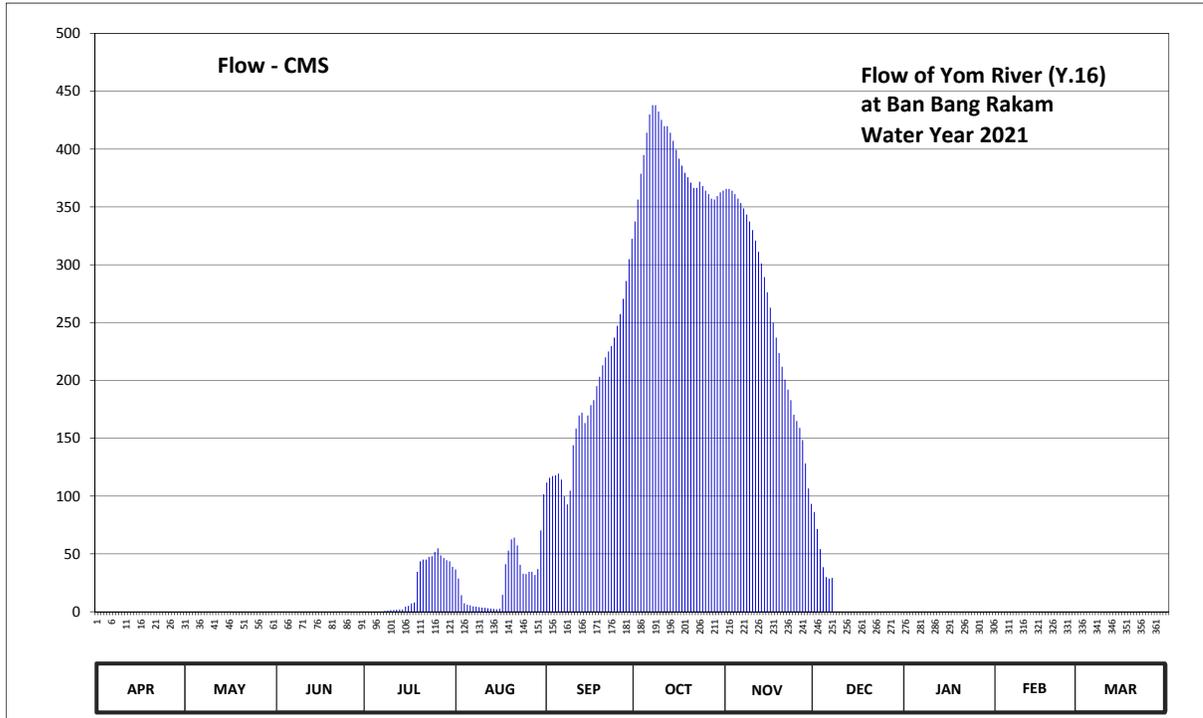
Lat 16 - 45 - 29 N Long 100 - 06 - 56 E

Location : on right bank about 58 meters upstream from the old staff gage.

	<b>Ban</b>	<b>Bang Rakam</b>	<b>Amphoe</b>	<b>Bang Rakam</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	19,536	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+31.630	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 13 meters from the top staff gage.				<b>Elevation</b>	+43.630 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1967 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1967 , 1995 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1967 , 1995 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +38.860 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.70	31.73	31.75	31.87	34.99	36.89	40.44	40.81	36.35	33.71	31.71	31.95	
2	31.70	31.73	31.75	31.99	34.70	36.97	40.69	40.81	36.00	33.49	31.71	31.95	
3	31.71	31.73	31.75	32.11	33.98	37.00	40.98	40.79	35.55	33.22	31.69	31.94	
4	31.71	31.72	31.76	32.19	33.43	37.01	41.19	40.75	35.06	33.10	31.69	31.93	
5	31.73	31.72	31.76	32.20	33.31	37.04	41.44	40.70	34.75	33.04	31.69	31.92	
6	31.74	31.72	31.75	32.21	33.23	36.94	41.64	40.65	34.69	32.97	31.68	31.85	
7	31.75	31.73	31.75	32.36	33.14	36.65	41.74	40.59	34.72	32.84	31.68	31.85	
8	31.75	31.73	31.74	32.48	33.10	36.50	41.74	40.52	34.74	32.83	31.65	31.81	
9	31.72	31.75	31.74	32.59	33.05	36.75	41.67	40.44	34.75	32.78	31.65	31.81	
10	31.72	31.75	31.73	32.65	33.00	37.50	41.58	40.34	34.76	32.70	31.64	31.79	
11	31.73	31.76	31.72	32.68	32.97	37.76	41.51	40.22	34.74	32.60	31.62	31.75	
12	31.73	31.76	31.72	32.73	32.93	37.95	41.51	40.09	34.72	32.49	31.62	31.75	
13	31.71	31.75	31.74	32.75	32.90	37.99	41.44	39.95	34.68	32.33	31.61	31.75	
14	31.71	31.75	31.74	32.76	32.85	37.84	41.35	39.79	34.62	32.25	31.61	31.71	
15	31.69	31.75	31.75	33.10	32.80	37.95	41.25	39.60	34.55	32.22	31.61	31.71	
16	31.69	31.74	31.75	33.19	32.86	38.10	41.15	39.41	34.52	32.00	31.73	31.71	
17	31.67	31.74	31.77	33.41	33.99	38.17	41.07	39.22	34.54	31.82	31.77	31.71	
18	31.67	31.73	31.77	33.49	35.15	38.37	40.99	39.03	34.56	31.77	31.88	31.73	
19	31.67	31.73	31.78	34.92	35.51	38.50	40.94	38.83	34.50	31.72	31.91	31.73	
20	31.67	31.73	31.78	35.23	35.78	38.66	40.88	38.64	34.42	31.70	31.93	31.73	
21	31.67	31.75	31.78	35.28	35.82	38.77	40.82	38.46	34.37	31.69	31.95	31.72	
22	31.69	31.75	31.78	35.28	35.64	38.85	40.82	38.32	34.33	31.69	31.95	31.72	
23	31.69	31.77	31.78	35.35	35.13	38.92	40.89	38.17	34.26	31.70	31.95	31.72	
24	31.69	31.77	31.79	35.37	34.86	39.03	40.84	37.96	34.18	31.70	31.83	31.72	
25	31.70	31.78	31.79	35.48	34.85	39.18	40.79	37.87	34.11	31.70	31.78	31.73	
26	31.70	31.78	31.80	35.57	34.92	39.33	40.75	37.77	34.02	31.71	31.78	31.73	
27	31.71	31.78	31.80	35.39	34.92	39.52	40.70	37.58	33.94	31.72	31.78	31.73	
28	31.71	31.76	31.81	35.32	34.82	39.74	40.69	37.21	33.85	31.73	31.78	31.85	
29	31.73	31.75	31.81	35.26	35.00	40.00	40.73	36.79	33.75	31.75		32.03	
30	31.73	31.74	31.81	35.23	35.97	40.24	40.77	36.51	33.67	31.77		32.03	
31		31.74		35.07	36.69		40.79		33.56	31.77		32.03	
Mean	31.71	31.75	31.76	33.73	34.27	38.14	41.09	39.26	34.56	32.27	31.75	31.81	
Max	31.75	31.78	31.81	35.57	36.69	40.24	41.74	40.81	36.35	33.71	31.95	32.03	41.74
Min	31.67	31.72	31.72	31.87	32.80	36.50	40.44	36.51	33.56	31.69	31.61	31.71	31.61
Annual Max Momentary Gage Height	41.76		m. (MSL.) ,				at 14.00 Hours ,						
Zero Gage at Bottom Elevation	31.63		m. (MSL.) ,			River Bed	30.86		m. (MSL.)				
Left Bank Elevation		38.85		m. (MSL.) ,									
Right Bank Elevation		42.99		m. (MSL.) ,		Drainage Are	19,536		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	36.52	111.69	337.40	365.57	86.23	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	28.80	115.77	356.33	365.57	71.50	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	14.36	117.30	378.66	364.03	54.18	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	7.30	117.81	394.83	360.95	38.54	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	6.10	119.34	414.16	357.10	30.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	5.44	114.24	429.96	353.25	28.56	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.18	4.72	99.68	437.86	348.65	29.28	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.62	4.40	92.80	437.86	343.40	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	1.06	4.00	104.63	432.33	337.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	1.35	3.60	144.00	425.22	329.90	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.50	3.36	158.46	419.69	320.90	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.78	3.04	169.70	419.69	311.27	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	1.90	2.80	172.10	414.16	301.05	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	1.96	2.50	163.10	407.15	289.40	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	4.40	2.20	169.70	399.45	276.10	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	5.12	2.56	178.70	391.75	262.80	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	7.10	14.53	182.90	385.59	249.86	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	7.90	41.15	195.04	379.43	236.94	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	34.56	52.80	203.10	375.58	223.68	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	43.56	62.56	213.02	370.96	211.78	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	45.16	64.12	219.84	366.34	200.62	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	45.16	57.38	225.00	366.34	191.94	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	47.40	40.57	229.62	371.73	182.90	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	48.04	32.88	236.94	367.88	170.30	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	51.76	32.60	247.14	364.03	164.90	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	54.87	34.56	257.34	360.95	159.02	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	48.68	34.56	270.50	357.10	148.40	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	46.44	31.76	285.90	356.33	128.23	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	44.52	36.80	304.70	359.41	106.61	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	43.56	70.27	322.40	362.49	93.24	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	38.83	101.66	364.03	364.03	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	627.41	839.90	5542.46	12004.69	7755.76	338.29	0.00	0.00	0.00	27108.51 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	20.24	27.09	184.75	387.25	258.53	10.91	0.00	0.00	0.00	74.27 CMS
<b>Max</b>	0.00	0.00	0.00	54.87	101.66	322.40	437.86	365.57	86.23	0.00	0.00	0.00	437.86 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	2.20	92.80	337.40	93.24	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	54.21	72.57	478.87	1037.21	670.10	29.23	0.00	0.00	0.00	2342.18 MCM
<b>Momentary Peak</b>	439.44	CMS. at 41.76 m. (MSL.) at 14.00 Hours , on Oct 7, 2021											
<b>Runoff Yield</b>	3.80	Liters/Second/Square KM. Momentary Peak Yield 22.49 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

Yom River at Ban Sam Ngam , Phichit (Y.17)

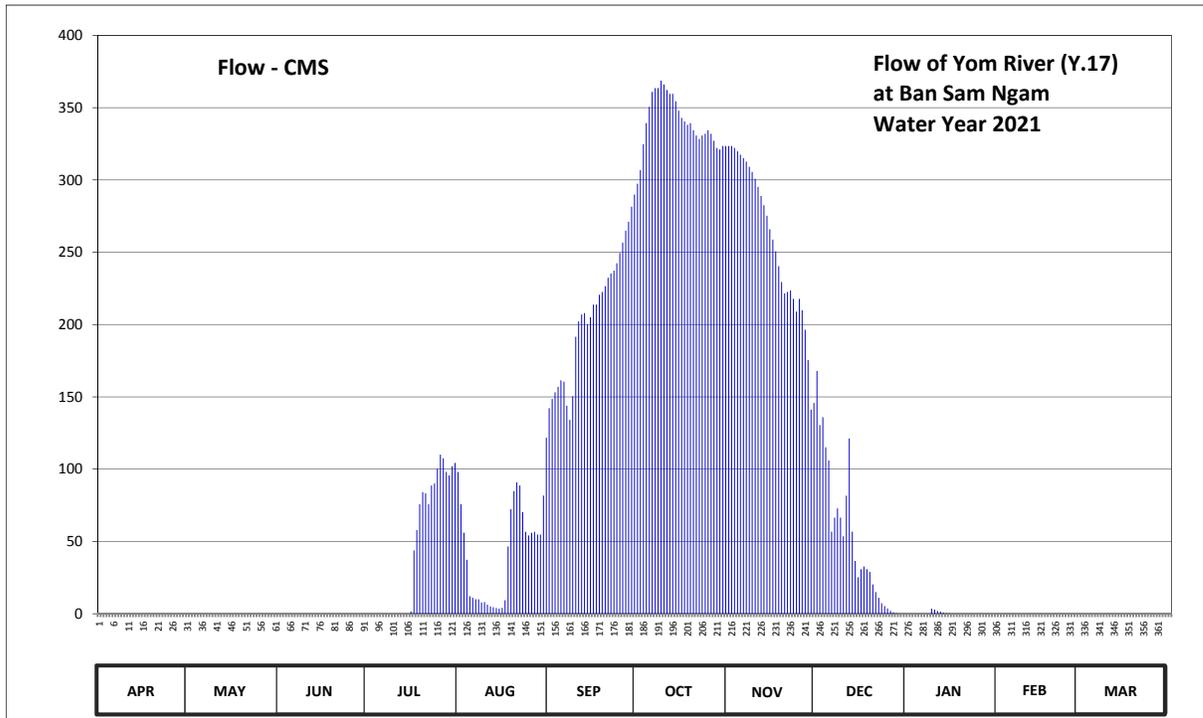
Lat 16 - 30 - 27 N Long 100 - 12 - 15 E

Location : on left bank at the bridge on highway from in front of Amphoe Sam Ngam office.

	Ban Sam Ngam	Amphoe Sam Ngam	Changwat Phichit
<b>Drainage Area</b>	21,717 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+31.490 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 50 meters from Amphoe Sam Ngam Office.	<b>Elevation</b>	+41.843 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 , 1990 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1967 , 1990 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.29	31.29	31.29	31.54	34.69	35.21	36.79	37.01	35.49	33.73	30.49	30.49	
2	31.29	31.29	31.29	31.54	34.40	35.28	36.87	37.01	35.08	33.65	30.50	30.49	
3	31.29	31.29	31.29	31.54	34.10	35.33	37.02	37.00	35.14	33.54	30.50	30.49	
4	31.29	31.29	31.29	31.54	33.77	35.37	37.14	36.98	34.90	33.44	30.51	30.49	
5	31.29	31.29	31.29	31.54	33.22	35.42	37.23	36.96	34.79	33.32	30.52	30.49	
6	31.29	31.29	31.29	31.54	33.19	35.41	37.31	36.94	34.94	33.20	30.53	30.49	
7	31.29	31.29	31.29	31.54	33.16	35.23	37.33	36.92	34.97	33.07	30.53	30.49	
8	31.29	31.29	31.29	31.54	33.16	35.12	37.33	36.89	34.99	32.95	30.54	30.49	
9	31.29	31.29	31.29	31.54	33.09	35.30	37.37	36.86	34.97	32.82	30.54	30.49	
10	31.29	31.29	31.29	31.54	33.10	35.74	37.35	36.82	34.93	32.70	30.55	30.49	
11	31.29	31.29	31.29	31.54	33.03	35.85	37.32	36.77	35.01	32.56	30.55	30.49	
12	31.29	31.29	31.29	31.54	32.97	35.90	37.30	36.71	35.08	32.42	30.55	30.49	
13	31.29	31.29	31.29	31.54	32.93	35.91	37.30	36.65	34.94	32.26	30.56	30.49	
14	31.29	31.29	31.29	31.54	32.88	35.83	37.26	36.58	34.86	32.04	30.56	30.49	
15	31.29	31.29	31.29	31.54	32.81	35.88	37.21	36.49	34.80	32.00	30.56	30.49	
16	31.29	31.29	31.29	32.48	32.89	35.97	37.17	36.42	34.83	31.88	30.57	30.49	
17	31.29	31.29	31.29	33.89	33.14	35.97	37.15	36.34	34.84	31.73	30.58	30.49	
18	31.29	31.29	31.29	34.13	33.94	36.04	37.13	36.24	34.83	31.50	30.58	30.49	
19	31.29	31.29	31.29	34.40	34.35	36.06	37.14	36.13	34.82	31.28	30.58	30.49	
20	31.29	31.29	31.29	34.51	34.52	36.10	37.10	36.05	34.74	31.15	30.58	30.49	
21	31.29	31.29	31.29	34.50	34.60	36.16	37.07	36.06	34.66	30.96	30.59	30.49	
22	31.29	31.29	31.29	34.40	34.57	36.19	37.05	36.07	34.58	30.73	30.59	30.49	
23	31.29	31.29	31.29	34.57	34.32	36.21	37.07	36.01	34.49	30.45	30.59	30.49	
24	31.29	31.29	31.29	34.59	34.11	36.26	37.08	35.92	34.42	30.36	30.59	30.49	
25	31.29	31.29	31.29	34.72	34.07	36.33	37.10	36.01	34.35	30.40	30.59	30.49	
26	31.29	31.29	31.29	34.84	34.10	36.40	37.08	35.93	34.26	30.42	30.58	30.49	
27	31.29	31.29	31.29	34.81	34.11	36.48	37.04	35.79	34.18	30.43	30.58	30.49	
28	31.29	31.29	31.29	34.69	34.08	36.54	37.00	35.57	34.09	30.45	30.58	30.49	
29	31.29	31.29	31.29	34.66	34.08	36.64	36.99	35.20	33.99	30.46	30.49	30.49	
30	31.29	31.29	31.29	34.74	34.48	36.72	37.01	35.25	33.89	30.47	30.49	30.49	
31		31.29		34.77	34.98		37.01		33.80	30.48		30.49	
Mean	31.29	31.29	31.29	33.03	33.77	35.90	37.14	36.39	34.70	31.83	30.56	30.49	
Max	31.29	31.29	31.29	34.84	34.98	36.72	37.37	37.01	35.49	33.73	30.59	30.49	37.37
Min	31.29	31.29	31.29	31.54	32.81	35.12	36.79	35.20	33.80	30.36	30.49	30.49	30.36
Annual Max Momentary Gage Height	37.38			m. (MSL.) ,			at 21.00 Hours ,						
Zero Gage at Bottom Elevation	31.49			m. (MSL.) ,		River Bed	29.74		m. (MSL.)				
Left Bank Elevation		38.06		m. (MSL.) ,									
Right Bank Elevation		38.03		m. (MSL.) ,		Drainage Are	21,717		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	98.01	142.12	297.35	323.42	167.93	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	75.70	148.56	306.73	323.42	130.52	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	56.00	153.16	324.64	322.20	135.86	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	37.30	156.84	339.28	319.82	115.05	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	12.11	161.45	350.50	317.44	105.91	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	10.97	160.53	360.90	315.06	56.80	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	9.98	143.96	363.50	312.68	66.40	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	9.98	134.08	363.50	309.11	72.80	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	7.75	150.40	368.70	305.54	66.40	3.54	0.00	0.00	
10	0.00	0.00	0.00	0.00	8.00	191.54	366.10	300.78	53.60	2.80	0.00	0.00	
11	0.00	0.00	0.00	0.00	6.25	202.15	362.20	295.24	81.66	2.02	0.00	0.00	
12	0.00	0.00	0.00	0.00	5.08	207.00	359.60	288.91	121.28	1.39	0.00	0.00	
13	0.00	0.00	0.00	0.00	4.52	207.97	359.60	282.58	56.80	0.88	0.00	0.00	
14	0.00	0.00	0.00	0.00	3.96	200.21	354.40	275.24	36.48	0.28	0.00	0.00	
15	0.00	0.00	0.00	0.00	3.47	205.06	347.90	265.97	25.20	0.20	0.00	0.00	
16	0.00	0.00	0.00	1.66	4.03	213.79	342.94	258.76	30.84	0.00	0.00	0.00	
17	0.00	0.00	0.00	43.75	9.32	213.79	340.50	250.58	32.72	0.00	0.00	0.00	
18	0.00	0.00	0.00	57.86	46.50	220.62	338.06	240.38	30.84	0.00	0.00	0.00	
19	0.00	0.00	0.00	75.70	72.33	222.58	339.28	229.44	28.96	0.00	0.00	0.00	
20	0.00	0.00	0.00	84.06	84.82	226.50	334.40	221.60	20.28	0.00	0.00	0.00	
21	0.00	0.00	0.00	83.30	90.90	232.38	330.74	222.58	14.92	0.00	0.00	0.00	
22	0.00	0.00	0.00	75.70	88.62	235.32	328.30	223.56	10.94	0.00	0.00	0.00	
23	0.00	0.00	0.00	88.62	70.30	237.32	330.74	217.68	7.22	0.00	0.00	0.00	
24	0.00	0.00	0.00	90.14	56.62	242.42	331.96	208.94	5.26	0.00	0.00	0.00	
25	0.00	0.00	0.00	100.38	54.14	249.56	334.40	217.68	3.65	0.00	0.00	0.00	
26	0.00	0.00	0.00	110.04	56.00	256.70	331.96	209.91	2.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	107.54	56.62	264.94	327.08	196.34	0.94	0.00	0.00	0.00	
28	0.00	0.00	0.00	98.01	54.76	271.12	322.20	175.33	0.27	0.00	0.00	0.00	
29	0.00	0.00	0.00	95.64	54.76	281.52	321.01	141.20	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	101.96	81.78	289.96	323.42	145.80	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	104.33	121.73		323.42		0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	1318.69	1352.31	6223.55	10525.31	7717.19	1481.53	11.11	0.00	0.00	28629.69 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	42.54	43.62	207.45	339.53	257.24	47.79	0.36	0.00	0.00	78.44 CMS
<b>Max</b>	0.00	0.00	0.00	110.04	121.73	289.96	368.70	323.42	167.93	3.54	0.00	0.00	368.70 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	3.47	134.08	297.35	141.20	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	113.93	116.84	537.71	909.39	666.77	128.00	0.96	0.00	0.00	2473.61 MCM
<b>Momentary Peak</b>	370.00	CMS. at 37.38 m. (MSL.) at 21.00 Hours , on Oct 8, 2021											
<b>Runoff Yield</b>	3.61	Liters/Second/Square KM. Momentary Peak Yield 17.04 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

Yom River at Ban Huai Sak , Phrae (Y.20)

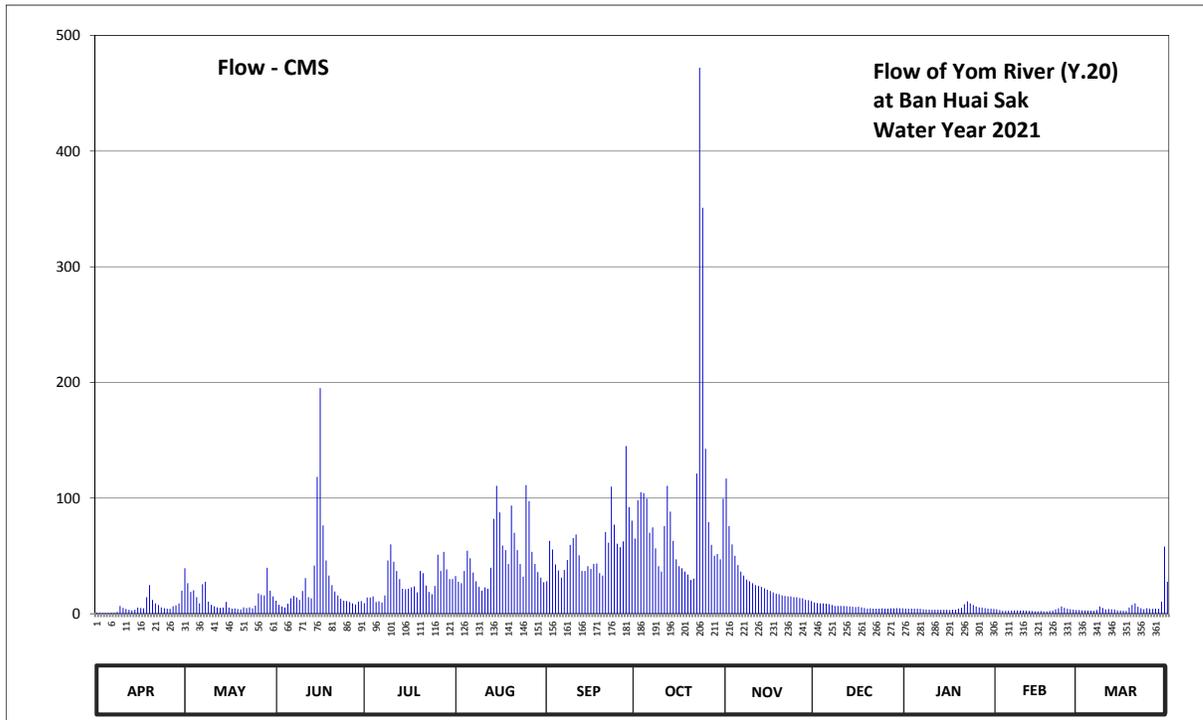
Lat 18 - 35 - 10 N Long 100 - 09 - 05 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

	<b>Ban Huai Sak</b>	<b>Amphoe Song</b>	<b>Changwat Phrae</b>
<b>Drainage Area</b>	5,392 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+181.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	+193.552 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1971 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1972 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1972 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Mae yom weir situated about 15 kilometers above site. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.49	182.71	182.01	181.94	182.56	182.45	183.23	184.07	181.96	181.74	181.71	181.67	
2	181.48	182.41	181.89	182.09	182.44	183.19	183.80	183.44	181.94	181.74	181.67	181.65	
3	181.46	182.22	181.83	182.09	182.41	183.04	183.90	183.13	181.93	181.74	181.63	181.65	
4	181.45	182.26	181.79	182.12	182.66	182.78	183.89	182.93	181.93	181.74	181.63	181.64	
5	181.46	182.10	181.92	181.97	183.02	182.67	183.82	182.77	181.92	181.74	181.63	181.63	
6	181.49	181.93	182.07	181.99	182.89	182.53	183.33	182.65	181.91	181.73	181.64	181.62	
7	181.48	182.39	182.13	181.96	182.63	182.68	183.42	182.57	181.88	181.71	181.65	181.67	
8	181.55	182.44	182.09	182.14	182.45	182.86	183.06	182.49	181.85	181.70	181.65	181.83	
9	181.85	181.98	182.03	182.85	182.33	183.12	182.75	182.45	181.85	181.69	181.64	181.77	
10	181.78	181.89	182.24	183.13	182.25	183.24	182.65	182.41	181.85	181.68	181.64	181.70	
11	181.72	181.84	182.52	182.83	182.32	183.30	183.44	182.37	181.85	181.68	181.63	181.72	
12	181.68	181.80	182.10	182.66	182.29	182.94	183.98	182.35	181.84	181.68	181.62	181.71	
13	181.65	181.78	182.07	182.50	182.72	182.66	183.65	182.33	181.83	181.68	181.61	181.70	
14	181.68	181.79	182.76	182.29	183.55	182.66	183.19	182.30	181.82	181.68	181.60	181.65	
15	181.79	181.97	184.09	182.28	183.98	182.75	182.87	182.27	181.81	181.68	181.60	181.64	
16	181.77	181.79	185.07	182.29	183.64	182.70	182.75	182.24	181.82	181.67	181.61	181.63	
17	181.75	181.74	183.45	182.32	183.11	182.79	182.71	182.21	181.80	181.68	181.60	181.62	
18	182.10	181.75	182.85	182.34	183.03	182.80	182.65	182.18	181.77	181.68	181.60	181.79	
19	182.37	181.72	182.57	182.21	182.79	182.62	182.59	182.17	181.74	181.74	181.62	181.88	
20	182.03	181.70	182.37	182.66	183.73	182.57	182.48	182.14	181.75	181.78	181.64	181.93	
21	181.93	181.80	182.23	182.62	183.33	183.34	182.51	182.13	181.74	181.91	181.70	181.82	
22	181.88	181.77	182.14	182.36	183.03	183.16	184.13	182.12	181.74	181.99	181.75	181.76	
23	181.80	181.80	182.06	182.22	182.79	183.97	187.80	182.12	181.74	181.93	181.83	181.71	
24	181.76	181.75	182.01	182.17	182.55	183.46	186.70	182.10	181.75	181.88	181.78	181.76	
25	181.74	181.86	182.00	182.35	183.99	183.14	184.42	182.10	181.74	181.83	181.73	181.73	
26	181.73	182.19	181.97	182.95	183.79	183.08	183.50	182.08	181.74	181.80	181.71	181.73	
27	181.84	182.15	181.93	182.66	183.00	183.18	183.12	182.07	181.75	181.79	181.69	181.74	
28	181.87	182.14	181.90	183.00	182.79	184.45	182.93	182.03	181.75	181.76	181.67	181.73	
29	181.93	182.72	181.98	182.69	182.64	183.71	182.96	182.02	181.76	181.74		181.98	
30	182.25	182.25	182.00	182.50	182.53	183.52	182.87	182.00	181.75	181.74		183.09	
31		182.12		182.50	182.43		183.82		181.75	181.72		182.44	
Mean	181.76	182.02	182.34	182.41	182.89	183.05	183.51	182.41	181.81	181.75	181.66	181.79	
Max	182.37	182.72	185.07	183.13	183.99	184.45	187.80	184.07	181.96	181.99	181.83	183.09	187.80
Min	181.45	181.70	181.79	181.94	182.25	182.45	182.48	182.00	181.74	181.67	181.60	181.62	181.45
Annual Max Momentary Gage Height	188.62		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	181.00		m. (MSL.) ,			River Bed	179.15	m. (MSL.)					
Left Bank Elevation		193.51		m. (MSL.) ,									
Right Bank Elevation		193.64		m. (MSL.) ,		Drainage Are	5,392	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.93	39.27	11.33	9.20	32.52	28.00	65.00	116.90	9.80	4.42	3.88	3.22	
2	0.86	26.40	7.75	13.97	27.60	63.00	98.00	75.80	9.20	4.42	3.22	2.90	
3	0.72	18.80	6.25	13.97	26.40	55.50	105.00	60.00	8.90	4.42	2.58	2.90	
4	0.65	20.40	5.32	15.04	36.96	42.56	104.30	50.00	8.90	4.42	2.58	2.74	
5	0.72	14.30	8.60	10.10	54.50	37.42	99.40	42.09	8.60	4.42	2.58	2.58	
6	0.93	8.90	13.31	10.70	48.00	31.26	70.00	36.50	8.30	4.24	2.74	2.42	
7	0.86	25.60	15.41	9.80	35.58	37.88	74.65	32.94	7.50	3.88	2.90	3.22	
8	1.55	27.60	13.97	15.78	28.00	46.50	56.50	29.60	6.75	3.70	2.90	6.25	
9	6.75	10.40	11.99	46.00	23.20	59.50	41.15	28.00	6.75	3.54	2.74	4.96	
10	5.14	7.75	19.60	60.00	20.00	65.50	36.50	26.40	6.75	3.38	2.74	3.70	
11	4.06	6.50	30.84	45.00	22.80	68.50	75.80	24.80	6.75	3.38	2.58	4.06	
12	3.38	5.50	14.30	36.96	21.60	50.50	110.60	24.00	6.50	3.38	2.42	3.88	
13	2.90	5.14	13.31	30.00	39.74	36.96	88.25	23.20	6.25	3.38	2.26	3.70	
14	3.38	5.32	41.62	21.60	82.13	36.96	63.00	22.00	6.00	3.38	2.10	2.90	
15	5.32	10.10	118.30	21.20	110.60	41.15	47.00	20.80	5.75	3.38	2.10	2.74	
16	4.96	5.32	194.95	21.60	87.60	38.80	41.15	19.60	6.00	3.22	2.26	2.58	
17	4.60	4.42	76.38	22.80	59.00	43.03	39.27	18.40	5.50	3.38	2.10	2.42	
18	14.30	4.60	46.00	23.60	55.00	43.50	36.50	17.26	4.96	3.38	2.10	5.32	
19	24.80	4.06	32.94	18.40	43.03	35.12	33.78	16.89	4.42	4.42	2.42	7.50	
20	11.99	3.70	24.80	36.96	93.45	32.94	29.20	15.78	4.60	5.14	2.74	8.90	
21	8.90	5.50	19.20	35.12	70.00	70.50	30.42	15.41	4.42	8.30	3.70	6.00	
22	7.50	4.96	15.78	24.40	55.00	61.50	121.10	15.04	4.42	10.70	4.60	4.78	
23	5.50	5.50	12.98	18.80	43.03	109.90	472.00	15.04	4.42	8.90	6.25	3.88	
24	4.78	4.60	11.33	16.89	32.10	76.95	351.00	14.30	4.60	7.50	5.14	4.78	
25	4.42	7.00	11.00	24.00	111.30	60.50	142.60	14.30	4.42	6.25	4.24	4.24	
26	4.24	17.63	10.10	51.00	97.35	57.50	79.25	13.64	4.42	5.50	3.88	4.24	
27	6.50	16.15	8.90	36.96	53.50	62.50	59.50	13.31	4.60	5.32	3.54	4.42	
28	7.25	15.78	8.00	53.50	43.03	145.00	50.00	11.99	4.60	4.78	3.22	4.24	
29	8.90	39.74	10.40	38.34	36.04	92.15	51.50	11.66	4.78	4.42		10.40	
30	20.00	20.00	11.00	30.00	31.26	80.40	47.00	11.00	4.60	4.42		58.00	
31		15.04		30.00	27.20		99.40		4.60	4.06		27.60	
Total	176.79	405.98	825.66	841.69	1547.52	1711.48	2818.82	836.65	188.06	147.43	86.51	211.47	9798.06 CMSDAY
Mean	5.89	13.10	27.52	27.15	49.92	57.05	90.93	27.89	6.07	4.76	3.09	6.82	26.84 CMS
Max	24.80	39.74	194.95	60.00	111.30	145.00	472.00	116.90	9.80	10.70	6.25	58.00	472.00 CMS
Min	0.65	3.70	5.32	9.20	20.00	28.00	29.20	11.00	4.42	3.22	2.10	2.42	0.65 CMS
Runoff	15.27	35.08	71.34	72.72	133.71	147.87	243.55	72.29	16.25	12.74	7.47	18.27	846.55 MCM
Momentary Peak	564.30 CMS. at 188.62 m. (MSL.) at 09.00 Hours , on Oct 23, 2021												
Runoff Yield	4.98 Liters/Second/Square KM.			Momentary Peak Yield				104.66 Liters/Second/Square KM.					

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Na Pla Kang , Sukhothai (Y.21)

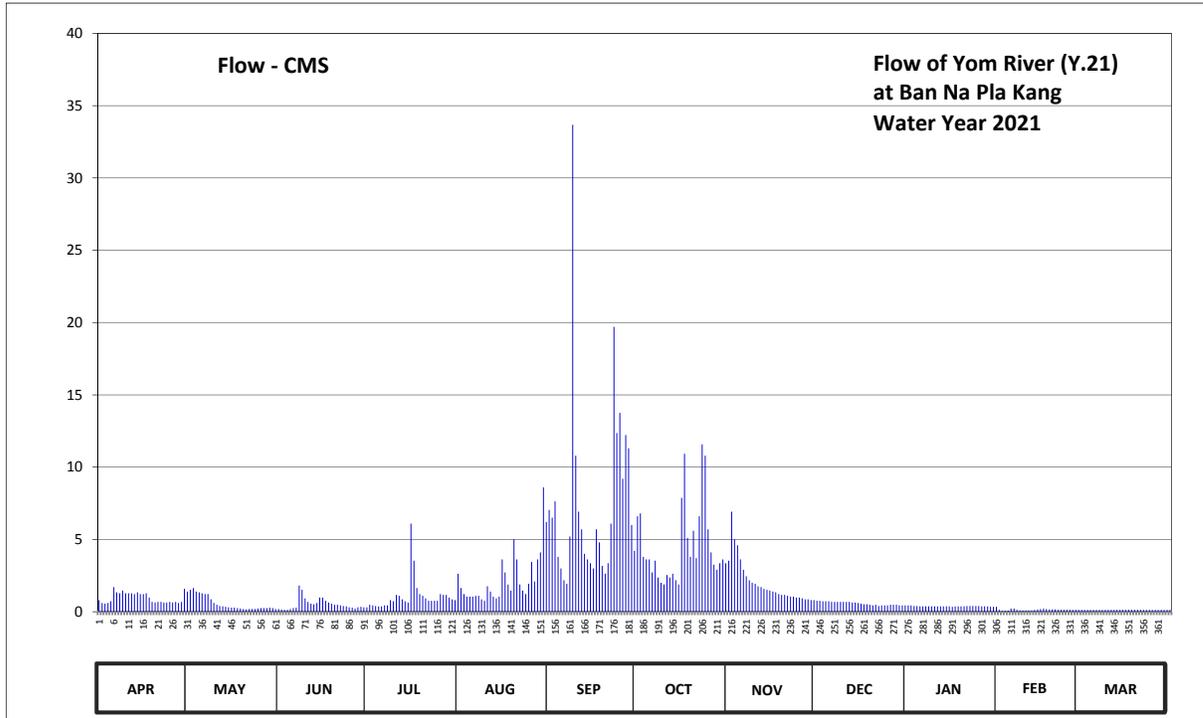
Lat 17 - 47 - 32 N Long 99 - 47 - 13 E

Location : on right bank at Ban Na Pla Kang.

	<b>Ban Na Pla Kang</b>	<b>Amphoe Si Satchanalai</b>	<b>Changwat Sukhothai</b>
<b>Drainage Area</b>	309 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+114.456 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+121.709 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 5 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.80	114.90	114.63	114.67	115.07	115.52	115.48	115.17	114.79	114.71	114.61	114.61	
2	114.75	114.92	114.62	114.72	114.94	115.47	115.50	115.51	114.79	114.71	114.57	114.61	
3	114.74	114.94	114.61	114.71	114.87	115.57	115.20	115.32	114.78	114.70	114.58	114.61	
4	114.75	114.90	114.61	114.70	114.84	115.20	115.18	115.28	114.78	114.70	114.59	114.61	
5	114.78	114.89	114.63	114.69	114.84	115.11	115.18	115.18	114.78	114.69	114.64	114.61	
6	114.95	114.88	114.65	114.69	114.84	115.02	115.08	115.10	114.77	114.69	114.64	114.61	
7	114.89	114.87	114.66	114.71	114.85	114.99	115.17	115.05	114.77	114.69	114.61	114.61	
8	114.88	114.87	114.97	114.71	114.85	115.34	115.04	115.02	114.77	114.69	114.60	114.61	
9	114.91	114.81	114.92	114.80	114.81	116.92	115.00	115.00	114.77	114.69	114.60	114.61	
10	114.88	114.75	114.82	114.78	114.79	115.83	114.98	114.99	114.77	114.69	114.60	114.61	
11	114.88	114.72	114.77	114.86	114.96	115.51	115.06	114.96	114.77	114.69	114.60	114.61	
12	114.88	114.70	114.74	114.85	114.90	115.39	115.04	114.95	114.77	114.69	114.60	114.61	
13	114.87	114.69	114.73	114.81	114.84	115.22	115.07	114.93	114.76	114.69	114.61	114.61	
14	114.89	114.68	114.75	114.78	114.82	115.18	115.02	114.92	114.76	114.69	114.62	114.61	
15	114.87	114.67	114.83	114.76	114.84	115.15	114.98	114.91	114.75	114.69	114.63	114.61	
16	114.87	114.66	114.83	115.43	115.18	115.11	115.59	114.90	114.74	114.68	114.64	114.61	
17	114.88	114.66	114.79	115.17	115.08	115.39	115.84	114.89	114.73	114.69	114.63	114.61	
18	114.83	114.65	114.76	114.94	114.98	115.30	115.33	114.87	114.73	114.69	114.62	114.61	
19	114.77	114.64	114.74	114.87	114.91	115.13	115.20	114.86	114.72	114.69	114.62	114.61	
20	114.76	114.63	114.72	114.85	115.32	115.07	115.38	114.86	114.71	114.69	114.62	114.61	
21	114.77	114.62	114.72	114.82	115.18	115.15	115.19	114.85	114.72	114.70	114.61	114.61	
22	114.77	114.63	114.71	114.79	114.98	115.43	115.48	114.84	114.70	114.70	114.61	114.61	
23	114.76	114.63	114.70	114.79	114.91	116.40	115.89	114.84	114.71	114.70	114.61	114.61	
24	114.76	114.63	114.69	114.79	114.87	115.95	115.83	114.83	114.71	114.70	114.61	114.61	
25	114.77	114.64	114.67	114.79	114.99	116.05	115.39	114.83	114.71	114.70	114.61	114.61	
26	114.76	114.65	114.66	114.87	115.16	115.70	115.23	114.82	114.72	114.69	114.61	114.61	
27	114.77	114.65	114.64	114.86	115.01	115.94	115.14	114.81	114.72	114.69	114.61	114.61	
28	114.75	114.65	114.67	114.86	115.18	115.87	115.10	114.81	114.72	114.69	114.61	114.61	
29	114.77	114.66	114.68	114.83	115.23	115.42	115.15	114.80	114.71	114.68		114.61	
30	114.93	114.65	114.67	114.81	115.65	115.24	115.18	114.80	114.71	114.68		114.61	
31		114.63		114.80	115.44		115.15		114.71	114.68		114.61	
Mean	114.82	114.72	114.72	114.82	115.00	115.49	115.26	114.96	114.74	114.69	114.61	114.61	
Max	114.95	114.94	114.97	115.43	115.65	116.92	115.89	115.51	114.79	114.71	114.64	114.61	116.92
Min	114.74	114.62	114.61	114.67	114.79	114.99	114.98	114.80	114.70	114.68	114.57	114.61	114.57
Annual Max Momentary Gage Height	118.44			m. (MSL.) ,			at 08.00 Hours ,						
Zero Gage at Bottom Elevation	114.46			m. (MSL.) ,		River Bed	113.63	m. (MSL.)					
Left Bank Elevation		121.71		m. (MSL.) ,									
Right Bank Elevation		121.65		m. (MSL.) ,		Drainage Are	309	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	1.40	0.19	0.31	2.63	7.04	6.60	3.53	0.76	0.44	0.13	0.13	
2	0.60	1.52	0.16	0.48	1.64	6.50	6.80	6.92	0.76	0.44	0.07	0.13	
3	0.56	1.64	0.13	0.44	1.22	7.64	3.80	5.00	0.72	0.40	0.08	0.13	
4	0.60	1.40	0.13	0.40	1.04	3.80	3.62	4.60	0.72	0.40	0.09	0.13	
5	0.72	1.34	0.19	0.37	1.04	2.99	3.62	3.62	0.72	0.37	0.22	0.13	
6	1.70	1.28	0.25	0.37	1.04	2.18	2.72	2.90	0.68	0.37	0.22	0.13	
7	1.34	1.22	0.28	0.44	1.10	1.94	3.53	2.45	0.68	0.37	0.13	0.13	
8	1.28	1.22	1.82	0.44	1.10	5.20	2.36	2.18	0.68	0.37	0.10	0.13	
9	1.46	0.86	1.52	0.80	0.86	33.68	2.00	2.00	0.68	0.37	0.10	0.13	
10	1.28	0.60	0.92	0.72	0.76	10.79	1.88	1.94	0.68	0.37	0.10	0.13	
11	1.28	0.48	0.68	1.16	1.76	6.92	2.54	1.76	0.68	0.37	0.10	0.13	
12	1.28	0.40	0.56	1.10	1.40	5.70	2.36	1.70	0.68	0.37	0.10	0.13	
13	1.22	0.37	0.52	0.86	1.04	4.00	2.63	1.58	0.64	0.37	0.13	0.13	
14	1.34	0.34	0.60	0.72	0.92	3.62	2.18	1.52	0.64	0.37	0.16	0.13	
15	1.22	0.31	0.98	0.64	1.04	3.35	1.88	1.46	0.60	0.37	0.19	0.13	
16	1.22	0.28	0.98	6.10	3.62	2.99	7.88	1.40	0.56	0.34	0.22	0.13	
17	1.28	0.28	0.76	3.53	2.72	5.70	10.92	1.34	0.52	0.37	0.19	0.13	
18	0.98	0.25	0.64	1.64	1.88	4.80	5.10	1.22	0.52	0.37	0.16	0.13	
19	0.68	0.22	0.56	1.22	1.46	3.17	3.80	1.16	0.48	0.37	0.16	0.13	
20	0.64	0.19	0.48	1.10	5.00	2.63	5.60	1.16	0.44	0.37	0.16	0.13	
21	0.68	0.16	0.48	0.92	3.62	3.35	3.71	1.10	0.48	0.40	0.13	0.13	
22	0.68	0.19	0.44	0.76	1.88	6.10	6.60	1.04	0.40	0.40	0.13	0.13	
23	0.64	0.19	0.40	0.76	1.46	19.70	11.57	1.04	0.44	0.40	0.13	0.13	
24	0.64	0.19	0.37	0.76	1.22	12.35	10.79	0.98	0.44	0.40	0.13	0.13	
25	0.68	0.22	0.31	0.76	1.94	13.75	5.70	0.98	0.44	0.40	0.13	0.13	
26	0.64	0.25	0.28	1.22	3.44	9.20	4.10	0.92	0.48	0.37	0.13	0.13	
27	0.68	0.25	0.22	1.16	2.09	12.22	3.26	0.86	0.48	0.37	0.13	0.13	
28	0.60	0.25	0.31	1.16	3.62	11.31	2.90	0.86	0.48	0.37	0.13	0.13	
29	0.68	0.28	0.34	0.98	4.10	6.00	3.35	0.80	0.44	0.34		0.13	
30	1.58	0.25	0.31	0.86	8.60	4.20	3.62	0.80	0.44	0.34		0.13	
31		0.19		0.80	6.20		3.35		0.44	0.34		0.13	
<b>Total</b>	28.98	18.02	15.81	32.98	71.44	222.82	140.77	58.82	17.80	11.70	3.85	4.03	627.02 CMSDAY
<b>Mean</b>	0.97	0.58	0.53	1.06	2.30	7.43	4.54	1.96	0.57	0.38	0.14	0.13	1.72 CMS
<b>Max</b>	1.70	1.64	1.82	6.10	8.60	33.68	11.57	6.92	0.76	0.44	0.22	0.13	33.68 CMS
<b>Min</b>	0.56	0.16	0.13	0.31	0.76	1.94	1.88	0.80	0.40	0.34	0.07	0.13	0.07 CMS
<b>Runoff</b>	2.50	1.56	1.37	2.85	6.17	19.25	12.16	5.08	1.54	1.01	0.33	0.35	54.17 MCM
<b>Momentary Peak</b>	106.44 CMS. at 118.44 m. (MSL.) at 08.00 Hours , on Sep 9, 2021												
<b>Runoff Yield</b>	5.56 Liters/Second/Square KM.			Momentary Peak Yield			344.47 Liters/Second/Square KM.						

## WATER YEAR : 2021

## YOM RIVER BASIN

Nam Pi at Ban Mang , Phayao (Y.24)

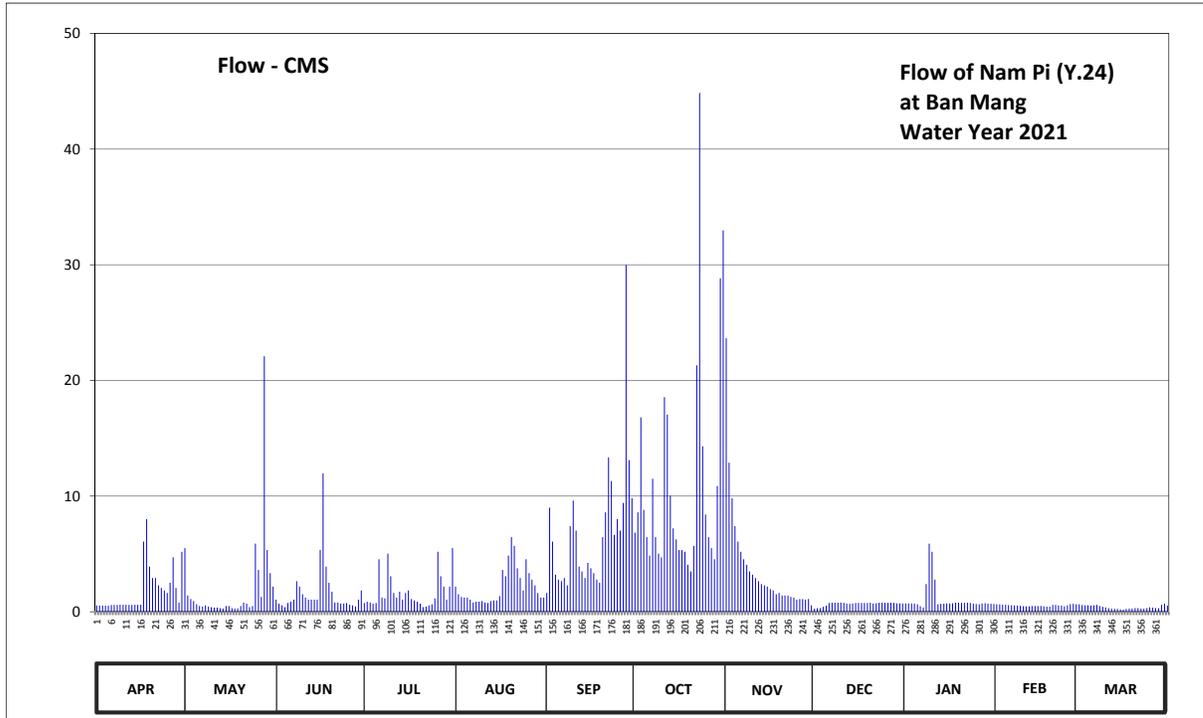
Lat 18 - 52 - 55 N Long 100 - 16 - 58 E

Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.

	<b>Ban Mang</b>	<b>Amphoe</b>	<b>Chiang Muan</b>	<b>Changwat</b>	<b>Phayao</b>
<b>Drainage Area</b>	621 sq.km.				
<b>Type of Gage</b>	Water - stage recorder.				
<b>Zero Gage at Bottom</b>	+257.765 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank at the abutment of the bridge.			<b>Elevation</b>	+264.800 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1977 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1979 - 1986 , 1996 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	1979 - 1986 , 1996 to date				
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records fair. The channel flow silted about 100 meters downstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.15	259.30	258.94	258.89	259.07	259.02	259.37	260.09	258.86	259.31	259.25	259.24	
2	259.14	259.00	258.88	258.91	259.01	259.48	259.46	259.66	258.90	259.31	259.23	259.17	
3	259.13	258.95	258.85	258.90	258.98	259.33	259.82	259.52	258.91	259.31	259.21	259.16	
4	259.12	258.92	258.82	258.88	258.97	259.15	259.47	259.40	259.02	259.30	259.20	259.16	
5	259.12	258.87	258.89	258.89	258.97	259.12	259.35	259.33	259.12	259.24	259.18	259.14	
6	259.18	258.84	258.91	259.24	258.94	259.11	259.26	259.28	259.37	259.08	259.16	259.15	
7	259.19	258.83	258.94	258.97	258.90	259.13	259.60	259.24	259.38	258.97	259.15	259.19	
8	259.19	258.85	259.11	258.96	258.91	259.08	259.35	259.21	259.38	259.09	259.13	259.09	
9	259.20	258.83	259.07	259.27	258.91	259.40	259.27	259.17	259.38	259.32	259.11	259.02	
10	259.20	258.82	259.01	259.14	258.92	259.51	259.25	259.15	259.39	259.28	259.08	258.97	
11	259.20	258.81	258.97	259.02	258.90	259.38	259.89	259.13	259.37	259.12	259.06	258.90	
12	259.19	258.81	258.94	258.97	258.89	259.20	259.83	259.11	259.30	259.24	259.07	258.87	
13	259.19	258.80	258.94	259.03	258.92	259.17	259.53	259.09	259.29	259.29	259.09	258.86	
14	259.20	258.78	258.94	258.94	258.93	259.13	259.39	259.08	259.32	259.30	259.10	258.84	
15	259.20	258.84	258.94	259.02	258.93	259.22	259.34	259.07	259.35	259.31	259.10	258.79	
16	259.21	258.84	259.29	259.04	258.99	259.19	259.29	259.05	259.37	259.32	259.09	258.78	
17	259.33	258.80	259.62	258.95	259.18	259.16	259.29	259.04	259.36	259.33	259.07	258.85	
18	259.43	258.78	259.20	258.93	259.14	259.12	259.28	259.01	259.35	259.38	259.04	258.88	
19	259.20	258.79	259.10	258.91	259.26	259.10	259.21	259.02	259.36	259.38	259.04	258.88	
20	259.13	258.84	259.03	258.88	259.35	259.35	259.17	259.00	259.38	259.37	259.19	258.91	
21	259.13	258.90	258.90	258.82	259.31	259.46	259.31	259.00	259.31	259.37	259.19	258.91	
22	259.08	258.88	258.90	258.83	259.19	259.68	260.00	259.00	259.33	259.38	259.15	258.88	
23	259.06	258.82	258.88	258.85	259.13	259.59	260.73	258.98	259.38	259.36	259.13	258.86	
24	259.04	258.84	258.88	258.87	259.04	259.36	259.72	258.97	259.38	259.30	259.07	258.92	
25	259.02	259.32	258.89	258.96	259.24	259.43	259.45	258.94	259.37	259.27	259.15	258.99	
26	259.10	259.18	258.86	259.28	259.16	259.38	259.35	258.95	259.37	259.25	259.26	258.95	
27	259.25	258.98	258.85	259.14	259.12	259.50	259.30	258.95	259.38	259.31	259.28	258.91	
28	259.06	260.03	258.83	259.07	259.08	260.32	259.24	258.94	259.37	259.34	259.24	258.90	
29	258.90	259.29	258.94	258.94	259.02	259.67	259.57	258.95	259.33	259.30		259.21	
30	259.28	259.16	259.04	259.07	258.97	259.52	260.28	258.85	259.33	259.29		259.28	
31		259.07		259.30	258.97		260.42		259.32	259.27		259.14	
Mean	259.16	258.96	258.98	259.00	259.04	259.34	259.54	259.14	259.29	259.28	259.14	258.99	
Max	259.43	260.03	259.62	259.30	259.35	260.32	260.73	260.09	259.39	259.38	259.28	259.28	260.73
Min	258.90	258.78	258.82	258.82	258.89	259.02	259.17	258.85	258.86	258.97	259.04	258.78	258.78
Annual Max Momentary Gage Height	261.96		m. (MSL.) ,				at 04.00 Hours ,						
Zero Gage at Bottom Elevation	257.76		m. (MSL.) ,			River Bed	255.86		m. (MSL.)				
Left Bank Elevation	266.23		m. (MSL.) ,										
Right Bank Elevation	266.69		m. (MSL.) ,			Drainage Are	621		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	5.50	1.04	0.75	2.17	1.62	6.83	23.64	0.26	0.71	0.65	0.64	
2	0.54	1.40	0.70	0.86	1.51	9.00	8.60	12.88	0.30	0.71	0.63	0.57	
3	0.53	1.10	0.55	0.80	1.28	6.07	16.80	9.82	0.31	0.71	0.61	0.56	
4	0.52	0.92	0.40	0.70	1.22	3.20	8.80	7.40	0.42	0.70	0.60	0.56	
5	0.52	0.65	0.75	0.75	1.22	2.78	6.45	6.07	0.52	0.64	0.58	0.54	
6	0.58	0.50	0.86	4.54	1.04	2.64	4.86	5.18	0.77	0.48	0.56	0.55	
7	0.59	0.45	1.04	1.22	0.80	2.92	11.50	4.54	0.78	0.37	0.55	0.59	
8	0.59	0.55	2.64	1.16	0.86	2.28	6.45	4.06	0.78	2.39	0.53	0.49	
9	0.60	0.45	2.17	5.02	0.86	7.40	5.02	3.48	0.78	5.88	0.51	0.42	
10	0.60	0.40	1.51	3.06	0.92	9.61	4.70	3.20	0.79	5.18	0.48	0.37	
11	0.60	0.35	1.22	1.62	0.80	7.02	18.55	2.92	0.77	2.78	0.46	0.30	
12	0.59	0.35	1.04	1.22	0.75	3.90	17.05	2.64	0.70	0.64	0.47	0.27	
13	0.59	0.30	1.04	1.73	0.92	3.48	10.03	2.39	0.69	0.69	0.49	0.26	
14	0.60	0.27	1.04	1.04	0.98	2.92	7.21	2.28	0.72	0.70	0.50	0.24	
15	0.60	0.50	1.04	1.62	0.98	4.22	6.26	2.17	0.75	0.71	0.50	0.20	
16	0.61	0.50	5.34	1.84	1.34	3.76	5.34	1.95	0.77	0.72	0.49	0.19	
17	6.07	0.30	11.96	1.10	3.62	3.34	5.34	1.84	0.76	0.73	0.47	0.25	
18	8.00	0.27	3.90	0.98	3.06	2.78	5.18	1.51	0.75	0.78	0.44	0.28	
19	3.90	0.29	2.50	0.86	4.86	2.50	4.06	1.62	0.76	0.78	0.44	0.28	
20	2.92	0.50	1.73	0.70	6.45	6.45	3.48	1.40	0.78	0.77	0.59	0.31	
21	2.92	0.80	0.80	0.40	5.69	8.60	5.69	1.40	0.71	0.77	0.59	0.31	
22	2.28	0.70	0.80	0.45	3.76	13.34	21.30	1.40	0.73	0.78	0.55	0.28	
23	2.06	0.40	0.70	0.55	2.92	11.29	44.85	1.28	0.78	0.76	0.53	0.26	
24	1.84	0.50	0.70	0.65	1.84	6.64	14.30	1.22	0.78	0.70	0.47	0.32	
25	1.62	5.88	0.75	1.16	4.54	8.00	8.40	1.04	0.77	0.67	0.55	0.39	
26	2.50	3.62	0.60	5.18	3.34	7.02	6.45	1.10	0.77	0.65	0.66	0.35	
27	4.70	1.28	0.55	3.06	2.78	9.40	5.50	1.10	0.78	0.71	0.68	0.31	
28	2.06	22.08	0.45	2.17	2.28	29.98	4.54	1.04	0.77	0.74	0.64	0.30	
29	0.80	5.34	1.04	1.04	1.62	13.11	10.87	1.10	0.73	0.70		0.61	
30	5.18	3.34	1.84	2.17	1.22	9.82	28.82	0.55	0.73	0.69		0.68	
31		2.17		5.50	1.22		32.97		0.72	0.67		0.54	
<b>Total</b>	56.06	61.66	50.70	53.90	66.85	205.09	346.20	112.22	21.43	34.91	15.22	12.22	1036.46 CMSDAY
<b>Mean</b>	1.87	1.99	1.69	1.74	2.16	6.84	11.17	3.74	0.69	1.13	0.54	0.39	2.84 CMS
<b>Max</b>	8.00	22.08	11.96	5.50	6.45	29.98	44.85	23.64	0.79	5.88	0.68	0.68	44.85 CMS
<b>Min</b>	0.52	0.27	0.40	0.40	0.75	1.62	3.48	0.55	0.26	0.37	0.44	0.19	0.19 CMS
<b>Runoff</b>	4.84	5.33	4.38	4.66	5.78	17.72	29.91	9.70	1.85	3.02	1.32	1.06	89.55 MCM
<b>Momentary Peak</b>	105.60	CMS.	at 261.96 m. (MSL.)	at 04.00 Hours	on Oct 23, 2021								
<b>Runoff Yield</b>	4.57	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	170.05	Liters/Second/Square KM.						

## WATER YEAR : 2021

## YOM RIVER BASIN

## Huai Mae Mok at Ban Mae Phu , Lampang (Y.26)

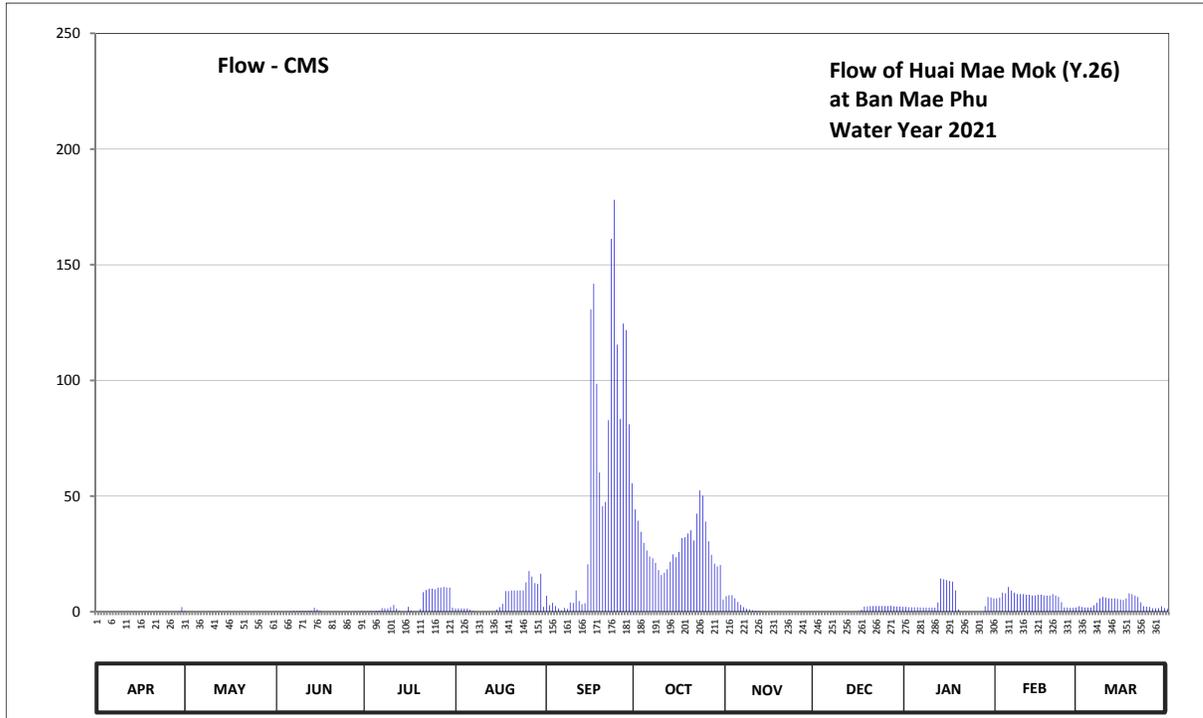
Lat 17 - 19 - 55 N Long 99 - 27 - 43 E

Location : on left bank downstream from Ban Mae Phu Tambon Wiang Mok.

	Ban Mae Phu	Amphoe Thoen	Changwat Lampang
<b>Drainage Area</b>	786 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+100.380 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of gage observer's house.	<b>Elevation</b>	+107.081 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1979 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 7 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.06	101.31	100.99	101.26	101.53	101.94	102.64	101.93	100.85	101.61	101.40	101.24	
2	101.04	101.16	101.02	101.25	101.53	101.67	102.50	101.95	100.85	101.60	101.41	101.22	
3	101.03	101.09	101.09	101.28	101.53	101.75	102.35	101.95	100.90	101.59	101.48	101.21	
4	101.05	101.05	101.14	101.29	101.52	101.64	102.21	101.88	100.91	101.59	101.47	101.21	
5	101.07	101.03	101.18	101.33	101.53	101.53	102.11	101.78	101.02	101.59	101.56	101.21	
6	101.07	101.02	101.24	101.34	101.44	101.36	102.01	101.68	101.21	101.58	101.51	101.26	
7	101.07	101.01	101.33	101.55	101.31	101.56	101.98	101.60	101.21	101.57	101.48	101.32	
8	101.04	101.01	101.30	101.53	101.21	101.50	101.90	101.51	101.20	101.57	101.46	101.40	
9	101.04	101.08	101.32	101.53	101.15	101.76	101.80	101.46	101.19	101.57	101.46	101.42	
10	101.08	101.03	101.33	101.60	101.08	101.75	101.73	101.40	101.17	101.57	101.46	101.41	
11	101.04	101.01	101.33	101.68	101.03	102.04	101.76	101.34	101.16	101.57	101.45	101.40	
12	101.04	101.00	101.33	101.52	101.01	101.81	101.81	101.30	101.17	101.76	101.45	101.40	
13	101.04	100.99	101.36	101.34	100.98	101.71	101.92	101.26	101.04	102.21	101.44	101.40	
14	101.04	100.99	101.56	101.23	101.13	101.74	102.05	101.22	100.91	102.20	101.44	101.39	
15	101.03	100.98	101.47	101.21	101.45	101.88	102.00	101.18	100.95	102.19	101.45	101.38	
16	101.01	100.98	101.34	101.61	101.60	104.62	102.09	101.15	101.25	102.18	101.45	101.37	
17	101.01	100.98	101.23	101.35	101.72	104.84	102.27	101.13	101.44	102.17	101.44	101.40	
18	101.02	100.97	101.12	101.23	102.03	103.95	102.28	101.11	101.62	102.04	101.44	101.47	
19	101.01	100.97	101.07	101.18	102.03	103.06	102.33	101.09	101.63	101.46	101.44	101.46	
20	100.99	101.00	101.02	101.48	102.04	102.68	102.37	101.07	101.64	101.20	101.46	101.44	
21	100.98	100.99	100.98	102.01	102.04	102.73	102.24	101.06	101.64	101.19	101.44	101.42	
22	100.97	100.98	100.95	102.05	102.04	103.60	102.59	101.04	101.64	101.18	101.42	101.33	
23	100.96	100.97	100.95	102.07	102.04	105.22	102.86	101.03	101.64	101.18	101.33	101.24	
24	100.95	100.96	100.94	102.07	102.04	105.54	102.80	101.02	101.64	101.17	101.21	101.23	
25	100.95	100.97	100.93	102.06	102.16	104.31	102.49	101.00	101.64	101.17	101.21	101.22	
26	100.95	100.98	100.96	102.09	102.29	103.61	102.23	100.98	101.64	101.18	101.20	101.18	
27	100.96	100.98	101.07	102.09	102.23	104.50	102.04	100.94	101.65	101.17	101.20	101.18	
28	101.04	100.98	101.21	102.10	102.15	104.44	101.89	100.89	101.63	101.24	101.21	101.19	
29	101.26	101.14	101.22	102.09	102.14	103.56	101.85	100.88	101.62	101.42		101.24	
30	101.60	101.05	101.28	102.09	102.26	102.94	101.87	100.86	101.62	101.41		101.19	
31		100.99		101.57	101.61		101.85		101.61	101.40		101.15	
Mean	101.05	101.02	101.18	101.62	101.67	102.84	102.16	101.29	101.33	101.57	101.41	101.31	
Max	101.60	101.31	101.56	102.10	102.29	105.54	102.86	101.95	101.65	102.21	101.56	101.47	105.54
Min	100.95	100.96	100.93	101.18	100.98	101.36	101.73	100.86	100.85	101.17	101.20	101.15	100.85
Annual Max Momentary Gage Height	105.93		m. (MSL.) ,			at 04.00 Hours ,	on Sep 24, 2021						
Zero Gage at Bottom Elevation	100.38		m. (MSL.) ,			River Bed	100.13	m. (MSL.)					
Left Bank Elevation		107.07		m. (MSL.) ,									
Right Bank Elevation		107.02		m. (MSL.) ,		Drainage Are	786	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.34	0.00	0.18	1.44	6.94	44.20	6.73	0.00	2.12	5.80	2.38	
2	0.00	0.00	0.00	0.15	1.44	2.84	39.30	7.15	0.00	2.00	6.11	2.04	
3	0.00	0.00	0.00	0.24	1.44	3.85	34.52	7.15	0.00	1.92	8.25	1.87	
4	0.00	0.00	0.00	0.27	1.36	2.48	29.80	5.78	0.00	1.92	7.94	1.87	
5	0.00	0.00	0.00	0.42	1.44	1.44	26.44	4.24	0.00	1.92	10.70	1.87	
6	0.00	0.00	0.12	0.46	0.90	0.54	23.85	2.96	0.03	1.84	9.17	2.72	
7	0.00	0.00	0.42	1.60	0.34	1.68	23.10	2.00	0.03	1.76	8.25	3.88	
8	0.00	0.00	0.30	1.44	0.03	1.20	21.10	1.28	0.00	1.76	7.64	5.80	
9	0.00	0.00	0.38	1.44	0.00	3.98	18.04	1.00	0.00	1.76	7.64	6.41	
10	0.00	0.00	0.42	2.00	0.00	3.85	15.90	0.70	0.00	1.76	7.64	6.11	
11	0.00	0.00	0.42	2.96	0.00	9.20	16.82	0.46	0.00	1.76	7.33	5.80	
12	0.00	0.00	0.42	1.36	0.00	4.66	18.35	0.30	0.00	3.98	7.33	5.80	
13	0.00	0.00	0.54	0.46	0.00	3.33	21.60	0.18	0.00	14.40	7.02	5.80	
14	0.00	0.00	1.68	0.09	0.00	3.72	24.85	0.06	0.00	14.00	7.02	5.56	
15	0.00	0.00	1.05	0.03	0.95	20.49	23.60	0.00	0.00	13.67	7.33	5.32	
16	0.00	0.00	0.46	2.12	2.00	130.66	25.85	0.00	0.15	13.34	7.33	5.08	
17	0.00	0.00	0.09	0.50	3.46	141.77	31.82	0.00	0.90	13.01	7.02	5.80	
18	0.00	0.00	0.00	0.09	8.95	98.55	32.16	0.00	2.24	9.20	7.02	7.94	
19	0.00	0.00	0.00	0.00	8.95	60.16	33.84	0.00	2.36	1.00	7.02	7.64	
20	0.00	0.00	0.00	1.10	9.20	45.60	35.19	0.00	2.48	0.00	7.64	7.02	
21	0.00	0.00	0.00	8.45	9.20	47.46	30.81	0.00	2.48	0.00	7.02	6.41	
22	0.00	0.00	0.00	9.45	9.20	82.80	42.45	0.00	2.48	0.00	6.41	4.12	
23	0.00	0.00	0.00	9.95	9.20	161.20	52.46	0.00	2.48	0.00	4.12	2.38	
24	0.00	0.00	0.00	9.95	9.20	178.12	50.15	0.00	2.48	0.00	1.87	2.21	
25	0.00	0.00	0.00	9.70	12.68	115.48	38.99	0.00	2.48	0.00	1.87	2.04	
26	0.00	0.00	0.00	10.45	17.60	83.24	30.48	0.00	2.48	0.00	1.70	1.50	
27	0.00	0.00	0.00	10.45	15.20	124.60	24.60	0.00	2.60	0.00	1.70	1.50	
28	0.00	0.00	0.03	10.70	12.35	121.72	20.79	0.00	2.36	2.38	1.87	1.60	
29	0.18	0.00	0.06	10.45	12.02	81.04	19.57	0.00	2.24	6.41		2.38	
30	2.00	0.00	0.24	10.45	16.40	55.54	20.18	0.00	2.24	6.11		1.60	
31		0.00		1.76	2.12		5.30		2.12	5.80		1.20	
Total	2.18	0.34	6.63	118.67	167.07	1598.14	876.11	39.99	34.63	123.82	177.76	123.65	3268.99 CMSDAY
Mean	0.07	0.01	0.22	3.83	5.39	53.27	28.26	1.33	1.12	3.99	6.35	3.99	8.96 CMS
Max	2.00	0.34	1.68	10.70	17.60	178.12	52.46	7.15	2.60	14.40	10.70	7.94	178.12 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.54	5.30	0.00	0.00	0.00	1.70	1.20	0.00 CMS
Runoff	0.19	0.03	0.57	10.25	14.43	138.08	75.70	3.46	2.99	10.70	15.36	10.68	282.44 MCM
Momentary Peak	199.90	CMS.	at 105.93 m. (MSL.)	at 04.00 Hours	, on Sep 24, 2021								
Runoff Yield	11.39	Liters/Second/Square KM.		Momentary Peak Yield	254.33	Liters/Second/Square KM.							

## WATER YEAR : 2021

## Yom RIVER BASIN

## Huai Mae Hu at Ban Mae Hu , Sukhothai (Y.29)

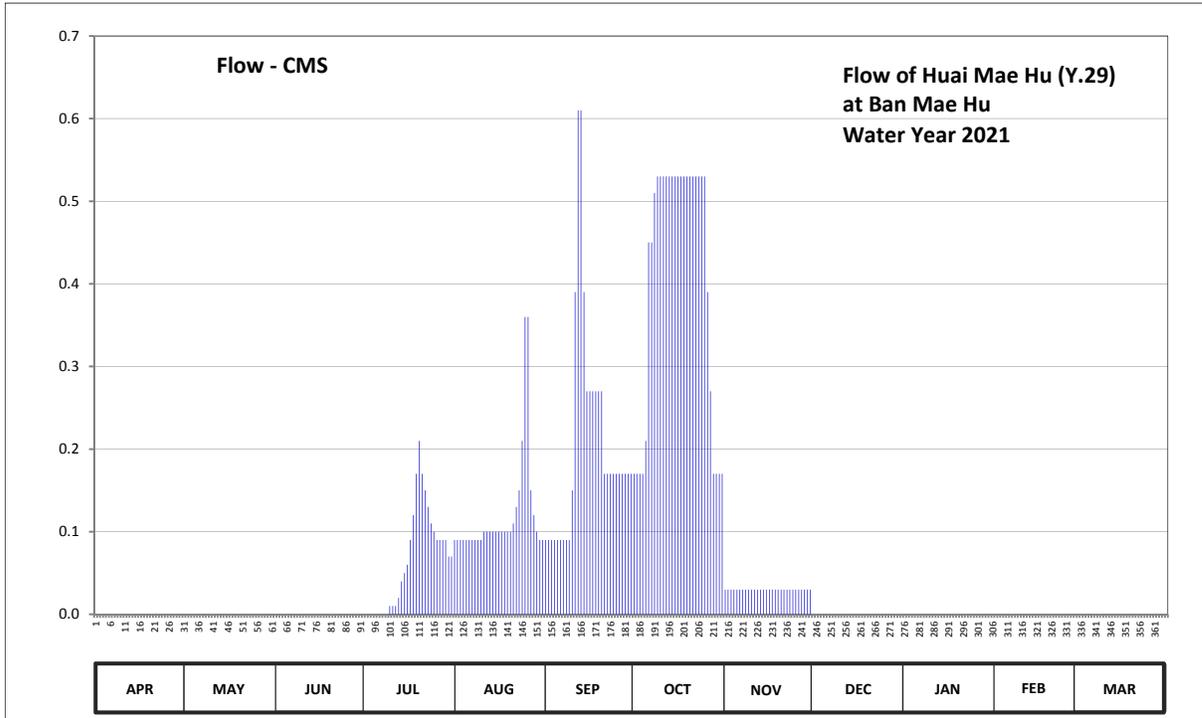
Lat 17 - 42 - 16 N Long 99 - 44 - 16 E

Location : on left bank at Ban Mae Hu.

	<b>Ban Mae Hu</b>	<b>Amphoe Si Satchanalai</b>	<b>Changwat Sukhothai</b>
<b>Drainage Area</b>	57 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+93.445 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+98.126 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1983 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1983 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 3 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	93.45	93.45	93.45	93.50	93.65	93.65	93.75	93.55	93.45	93.45	93.45	93.45	
2	93.45	93.45	93.45	93.50	93.65	93.65	93.75	93.55	93.45	93.45	93.45	93.45	
3	93.45	93.45	93.45	93.50	93.65	93.65	93.75	93.55	93.45	93.45	93.45	93.45	
4	93.45	93.45	93.45	93.50	93.65	93.65	93.75	93.55	93.45	93.45	93.45	93.45	
5	93.45	93.45	93.45	93.50	93.65	93.65	93.80	93.55	93.45	93.45	93.45	93.45	
6	93.45	93.45	93.45	93.50	93.65	93.65	94.00	93.55	93.45	93.45	93.45	93.45	
7	93.45	93.45	93.45	93.50	93.65	93.65	94.00	93.55	93.45	93.45	93.45	93.45	
8	93.45	93.45	93.45	93.50	93.65	93.65	94.04	93.55	93.45	93.45	93.45	93.45	
9	93.45	93.45	93.45	93.50	93.65	93.65	94.05	93.55	93.45	93.45	93.45	93.45	
10	93.45	93.45	93.45	93.51	93.65	93.73	94.05	93.55	93.45	93.45	93.45	93.45	
11	93.45	93.45	93.45	93.51	93.67	93.95	94.05	93.55	93.45	93.45	93.45	93.45	
12	93.45	93.45	93.45	93.52	93.67	94.10	94.05	93.55	93.45	93.45	93.45	93.45	
13	93.45	93.45	93.45	93.54	93.67	94.10	94.05	93.55	93.45	93.45	93.45	93.45	
14	93.45	93.45	93.45	93.57	93.67	93.95	94.05	93.55	93.45	93.45	93.45	93.45	
15	93.45	93.45	93.45	93.59	93.67	93.85	94.05	93.55	93.45	93.45	93.45	93.45	
16	93.45	93.45	93.45	93.61	93.67	93.85	94.05	93.55	93.45	93.45	93.45	93.45	
17	93.45	93.45	93.45	93.65	93.67	93.85	94.05	93.55	93.45	93.45	93.45	93.45	
18	93.45	93.45	93.45	93.70	93.67	93.85	94.05	93.55	93.45	93.45	93.45	93.45	
19	93.45	93.45	93.45	93.75	93.67	93.85	94.05	93.55	93.45	93.45	93.45	93.45	
20	93.45	93.45	93.45	93.80	93.67	93.85	94.05	93.55	93.45	93.45	93.45	93.45	
21	93.45	93.45	93.45	93.75	93.69	93.75	94.05	93.55	93.45	93.45	93.45	93.45	
22	93.45	93.45	93.45	93.73	93.71	93.75	94.05	93.55	93.45	93.45	93.45	93.45	
23	93.45	93.45	93.45	93.71	93.73	93.75	94.05	93.55	93.45	93.45	93.45	93.45	
24	93.45	93.45	93.45	93.69	93.80	93.75	94.05	93.55	93.45	93.45	93.45	93.45	
25	93.45	93.45	93.45	93.67	93.93	93.75	94.05	93.55	93.45	93.45	93.45	93.45	
26	93.45	93.45	93.45	93.65	93.93	93.75	93.95	93.55	93.45	93.45	93.45	93.45	
27	93.45	93.45	93.45	93.65	93.73	93.75	93.85	93.55	93.45	93.45	93.45	93.45	
28	93.45	93.45	93.45	93.65	93.70	93.75	93.75	93.55	93.45	93.45	93.45	93.45	
29	93.45	93.45	93.45	93.65	93.67	93.75	93.75	93.55	93.45	93.45	93.45	93.45	
30	93.45	93.45	93.45	93.63	93.65	93.75	93.75	93.55	93.45	93.45	93.45	93.45	
31		93.45		93.63	93.65		93.75		93.45	93.45		93.45	
Mean	93.45	93.45	93.45	93.60	93.69	93.78	93.95	93.55	93.45	93.45	93.45	93.45	
Max	93.45	93.45	93.45	93.80	93.93	94.10	94.05	93.55	93.45	93.45	93.45	93.45	94.10
Min	93.45	93.45	93.45	93.50	93.65	93.65	93.75	93.55	93.45	93.45	93.45	93.45	93.45
Annual Max Momentary Gage Height	94.10		m. (MSL.) ,			at 06.00 Hours ,	on Sep 12 , 2021						
Zero Gage at Bottom Elevation	93.44		m. (MSL.) ,			River Bed	93.11	m. (MSL.)					
Left Bank Elevation		97.75	m. (MSL.) ,										
Right Bank Elevation		97.71	m. (MSL.) ,			Drainage Are	57	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.09	0.09	0.17	0.03	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.09	0.09	0.17	0.03	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.09	0.09	0.17	0.03	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.09	0.09	0.17	0.03	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.09	0.09	0.21	0.03	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.09	0.09	0.45	0.03	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.09	0.09	0.45	0.03	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.09	0.09	0.51	0.03	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.09	0.09	0.53	0.03	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.01	0.09	0.15	0.53	0.03	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.01	0.10	0.39	0.53	0.03	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.01	0.10	0.61	0.53	0.03	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.02	0.10	0.61	0.53	0.03	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.04	0.10	0.39	0.53	0.03	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.05	0.10	0.27	0.53	0.03	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.06	0.10	0.27	0.53	0.03	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.09	0.10	0.27	0.53	0.03	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.12	0.10	0.27	0.53	0.03	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.17	0.10	0.27	0.53	0.03	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.21	0.10	0.27	0.53	0.03	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.17	0.11	0.17	0.53	0.03	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.15	0.13	0.17	0.53	0.03	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.13	0.15	0.17	0.53	0.03	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.11	0.21	0.17	0.53	0.03	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.10	0.36	0.17	0.53	0.03	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.09	0.36	0.17	0.39	0.03	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.09	0.15	0.17	0.27	0.03	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.09	0.12	0.17	0.17	0.03	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.09	0.10	0.17	0.17	0.03	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.07	0.09	0.17	0.17	0.03	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.07	0.09	0.17	0.17	0.03	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	1.95	3.77	6.28	12.65	0.90	0.00	0.00	0.00	0.00	25.55 CMSDAY
Mean	0.00	0.00	0.00	0.06	0.12	0.21	0.41	0.03	0.00	0.00	0.00	0.00	0.07 CMS
Max	0.00	0.00	0.00	0.21	0.36	0.61	0.53	0.03	0.00	0.00	0.00	0.00	0.61 CMS
Min	0.00	0.00	0.00	0.00	0.09	0.09	0.17	0.03	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.17	0.33	0.54	1.09	0.08	0.00	0.00	0.00	0.00	2.21 MCM
Momentary Peak	0.61	CMS. at 94.10 m. (MSL.) at 06.00 Hours , on Sep 12 , 2021											
Runoff Yield	1.23	Liters/Second/Square KM. Momentary Peak Yield 10.70 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

Huai Pong at Ban Pong , Lampang (Y.30)

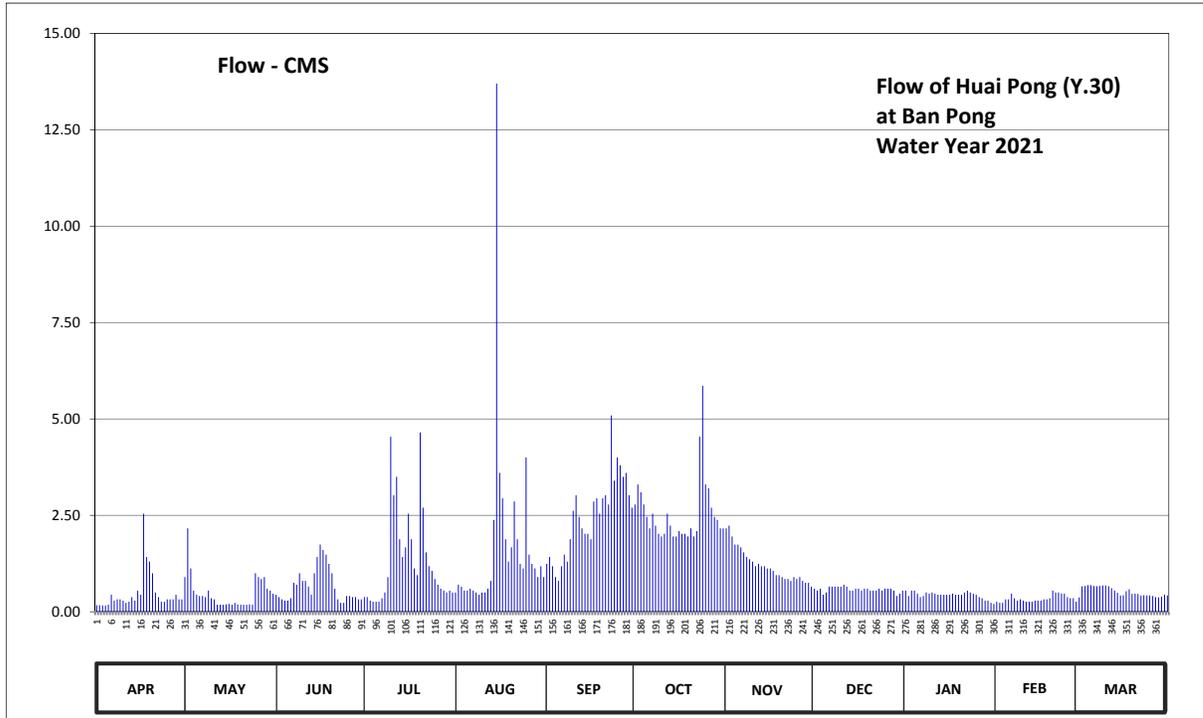
Lat 18 - 42 - 34 N Long 99 - 57 - 27 E

Location : on right bank at the bridge on highway.

	Ban Pong	Amphoe Ngao	Changwat Lampang
<b>Drainage Area</b>	326 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+265.630 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 25 meters from the top staff gage.	<b>Elevation</b>	+271.053 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1983 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1983 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The carcass of the bridge is near the gage site. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.87	266.08	265.98	265.96	266.00	266.14	266.36	266.28	266.02	266.01	265.92	266.07	
2	265.87	266.28	265.96	265.96	266.04	266.17	266.42	266.29	266.01	265.97	265.91	266.36	
3	265.86	266.12	265.94	265.93	266.03	266.13	266.40	266.25	266.02	266.01	265.91	266.37	
4	265.86	266.01	265.93	265.92	266.01	266.08	266.36	266.22	265.98	266.01	265.94	266.39	
5	265.88	265.98	265.93	265.92	266.01	266.06	266.32	266.22	266.00	265.99	265.94	266.39	
6	265.98	265.97	265.95	265.92	266.02	266.13	266.28	266.21	266.03	265.96	265.99	266.37	
7	265.93	265.97	266.05	265.95	266.01	266.18	266.33	266.19	266.03	265.97	265.95	266.36	
8	265.94	265.96	266.04	266.00	266.00	266.15	266.29	266.17	266.03	266.00	265.93	266.37	
9	265.94	266.01	266.10	266.08	265.98	266.24	266.26	266.16	266.03	265.99	265.94	266.38	
10	265.93	265.95	266.06	266.54	266.00	266.34	266.25	266.15	266.03	266.00	265.93	266.38	
11	265.91	265.94	266.06	266.39	266.00	266.39	266.26	266.13	266.04	265.99	265.92	266.36	
12	265.92	265.88	266.03	266.44	266.02	266.32	266.33	266.14	266.03	265.98	265.92	266.31	
13	265.96	265.88	265.98	266.24	266.06	266.28	266.29	266.13	266.01	265.98	265.92	266.25	
14	265.93	265.88	266.10	266.17	266.31	266.26	266.25	266.13	266.01	265.98	265.93	266.19	
15	266.01	265.89	266.17	266.21	267.20	266.26	266.25	266.12	266.02	265.98	265.93	266.12	
16	265.98	265.90	266.22	266.33	266.45	266.24	266.27	266.12	266.02	265.98	265.93	266.13	
17	266.33	265.88	266.20	266.24	266.38	266.37	266.26	266.11	266.01	265.99	265.94	266.23	
18	266.17	265.91	266.18	266.12	266.24	266.38	266.26	266.09	266.02	265.98	265.94	266.28	
19	266.15	265.89	266.14	266.09	266.15	266.33	266.25	266.09	266.02	265.98	265.95	266.16	
20	266.10	265.88	266.10	266.55	266.21	266.38	266.28	266.08	266.01	265.98	266.01	266.17	
21	266.00	265.88	266.02	266.35	266.37	266.39	266.25	266.07	266.01	266.00	266.00	266.16	
22	265.96	265.88	265.94	266.19	266.24	266.36	266.27	266.07	266.01	266.01	266.00	266.12	
23	265.92	265.89	265.91	266.13	266.14	266.59	266.54	266.06	266.02	266.00	265.99	266.13	
24	265.92	265.88	265.91	266.11	266.12	266.43	266.66	266.08	266.01	265.99	265.99	266.12	
25	265.94	266.10	265.97	266.07	266.49	266.49	266.42	266.07	266.02	265.98	265.96	266.12	
26	265.94	266.08	265.97	266.04	266.18	266.47	266.41	266.08	266.02	265.96	265.95	266.11	
27	265.94	266.07	265.96	266.02	266.14	266.44	266.35	266.06	266.02	265.95	265.95	266.08	
28	265.98	266.08	265.96	266.01	266.12	266.45	266.32	266.05	266.01	265.93	265.92	266.07	
29	265.94	266.02	265.94	266.00	266.08	266.39	266.31	266.05	265.97	265.93		266.09	
30	265.94	266.01	265.94	266.01	266.13	266.35	266.28	266.03	265.99	265.91		266.14	
31		265.99		266.00	266.08		266.28		266.01	265.90		266.12	
Mean	265.97	265.97	266.02	266.13	266.17	266.31	266.32	266.13	266.01	265.98	265.95	266.22	
Max	266.33	266.28	266.22	266.55	267.20	266.59	266.66	266.29	266.04	266.01	266.01	266.39	267.20
Min	265.86	265.88	265.91	265.92	265.98	266.06	266.25	266.03	265.97	265.90	265.91	266.07	265.86
Annual Max Momentary Gage Height	267.24		m. (MSL.) ,			at 14.00 Hours ,	on Aug 15, 2021						
Zero Gage at Bottom Elevation	265.63		m. (MSL.) ,			River Bed	265.29	m. (MSL.)					
Left Bank Elevation	273.94		m. (MSL.) ,										
Right Bank Elevation	273.87		m. (MSL.) ,			Drainage Are	326	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.90	0.44	0.38	0.50	1.24	2.78	2.16	0.60	0.55	0.26	0.37	
2	0.17	2.16	0.38	0.38	0.70	1.42	3.30	2.23	0.55	0.41	0.23	0.66	
3	0.16	1.12	0.32	0.29	0.65	1.18	3.10	1.95	0.60	0.55	0.23	0.67	
4	0.16	0.55	0.29	0.26	0.55	0.90	2.78	1.74	0.44	0.55	0.32	0.69	
5	0.18	0.44	0.29	0.26	0.55	0.80	2.46	1.74	0.50	0.47	0.32	0.69	
6	0.44	0.41	0.35	0.26	0.60	1.18	2.16	1.67	0.65	0.38	0.47	0.67	
7	0.29	0.41	0.75	0.35	0.55	1.48	2.54	1.54	0.65	0.41	0.35	0.66	
8	0.32	0.38	0.70	0.50	0.50	1.30	2.23	1.42	0.65	0.50	0.29	0.67	
9	0.32	0.55	1.00	0.90	0.44	1.88	2.02	1.36	0.65	0.47	0.32	0.68	
10	0.29	0.35	0.80	4.54	0.50	2.62	1.95	1.30	0.65	0.50	0.29	0.68	
11	0.23	0.32	0.80	3.02	0.50	3.02	2.02	1.18	0.70	0.47	0.26	0.66	
12	0.26	0.18	0.65	3.50	0.60	2.46	2.54	1.24	0.65	0.44	0.26	0.61	
13	0.38	0.18	0.44	1.88	0.80	2.16	2.23	1.18	0.55	0.44	0.26	0.55	
14	0.29	0.18	1.00	1.42	2.38	2.02	1.95	1.18	0.55	0.44	0.29	0.49	
15	0.55	0.19	1.42	1.67	13.70	2.02	1.95	1.12	0.60	0.44	0.29	0.42	
16	0.44	0.20	1.74	2.54	3.60	1.88	2.09	1.12	0.60	0.44	0.29	0.43	
17	2.54	0.18	1.60	1.88	2.94	2.86	2.02	1.06	0.55	0.47	0.32	0.53	
18	1.42	0.23	1.48	1.12	1.88	2.94	2.02	0.95	0.60	0.44	0.32	0.58	
19	1.30	0.19	1.24	0.95	1.30	2.54	1.95	0.95	0.60	0.44	0.35	0.46	
20	1.00	0.18	1.00	4.65	1.67	2.94	2.16	0.90	0.55	0.44	0.55	0.47	
21	0.50	0.18	0.60	2.70	2.86	3.02	1.95	0.85	0.55	0.50	0.50	0.46	
22	0.38	0.18	0.32	1.54	1.88	2.78	2.09	0.85	0.55	0.55	0.50	0.42	
23	0.26	0.19	0.23	1.18	1.24	5.09	4.54	0.80	0.60	0.50	0.47	0.43	
24	0.26	0.18	0.23	1.06	1.12	3.40	5.86	0.90	0.55	0.47	0.47	0.42	
25	0.32	1.00	0.41	0.85	4.00	4.00	3.30	0.85	0.60	0.44	0.38	0.42	
26	0.32	0.90	0.41	0.70	1.48	3.80	3.20	0.90	0.60	0.38	0.35	0.41	
27	0.32	0.85	0.38	0.60	1.24	3.50	2.70	0.80	0.60	0.35	0.35	0.38	
28	0.44	0.90	0.38	0.55	1.12	3.60	2.46	0.75	0.55	0.29	0.26	0.37	
29	0.32	0.60	0.32	0.50	0.90	3.02	2.38	0.75	0.41	0.29		0.39	
30	0.32	0.55	0.32	0.55	1.18	2.70	2.16	0.65	0.47	0.23		0.44	
31		0.47		0.50	0.90		2.16		0.55	0.20		0.42	
<b>Total</b>	14.35	15.30	20.29	41.48	52.83	73.75	79.05	36.09	17.92	13.45	9.55	16.20	390.26 CMSDAY
<b>Mean</b>	0.48	0.49	0.68	1.34	1.70	2.46	2.55	1.20	0.58	0.43	0.34	0.52	1.07 CMS
<b>Max</b>	2.54	2.16	1.74	4.65	13.70	5.09	5.86	2.23	0.70	0.55	0.55	0.69	13.70 CMS
<b>Min</b>	0.16	0.18	0.23	0.26	0.44	0.80	1.95	0.65	0.41	0.20	0.23	0.37	0.16 CMS
<b>Runoff</b>	1.24	1.32	1.75	3.58	4.56	6.37	6.83	3.12	1.55	1.16	0.83	1.40	33.72 MCM
<b>Momentary Peak</b>	14.40	CMS. at 267.24 m. (MSL.) at 14.00 Hours , on Aug 15, 2021											
<b>Runoff Yield</b>	3.28	Liters/Second/Square KM. Momentary Peak Yield 44.17 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Thung Nong , Phayao (Y.31)

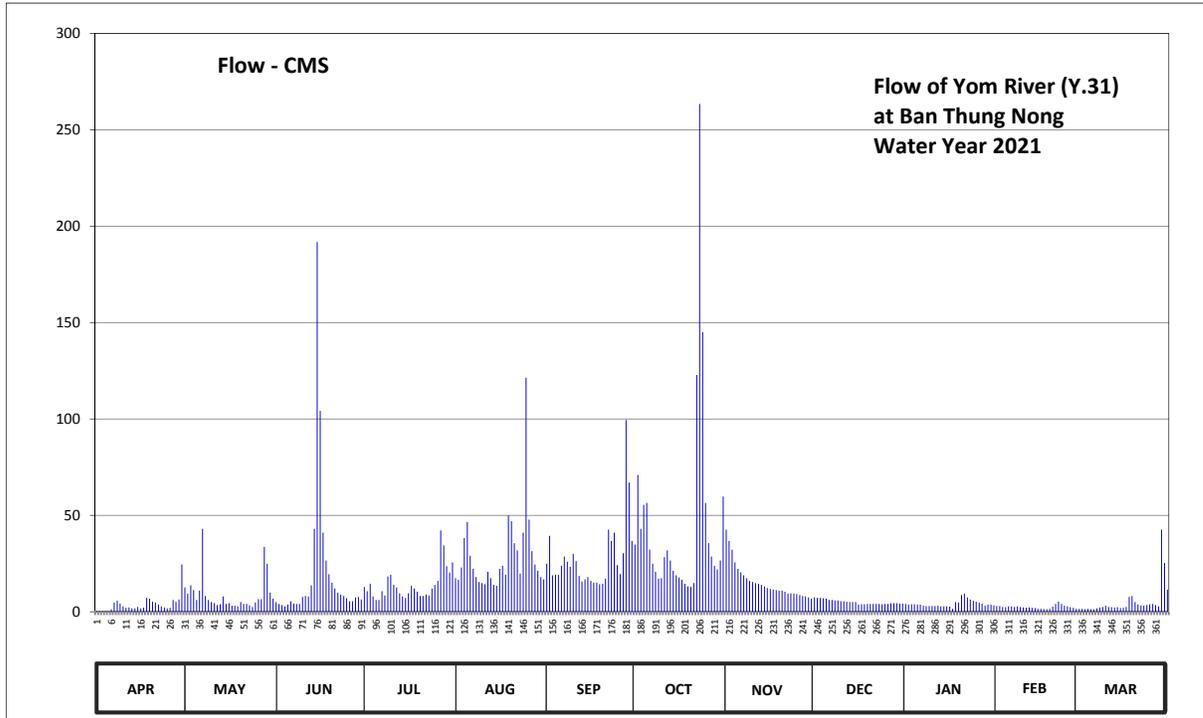
Lat 18 - 56 - 47 N Long 100 - 15 - 32 E

Location : on right bank downstream of the bridge of Pong - Chiang Muan road.

	<b>Ban Thung Nong</b>	<b>Amphoe</b>	<b>Chiang Muan</b>	<b>Changwat</b>	<b>Phayao</b>
<b>Drainage Area</b>	2,027	sq.km.			
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+257.000 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank about 5 meters from the top staff gage.			<b>Elevation</b>	+266.960 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1983 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1996 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	1996 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records fair. Flow effected by the islet about 200 meters downstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.51	258.21	257.90	258.22	258.38	258.62	258.90	259.10	258.01	257.85	257.79	257.69	
2	257.50	258.09	257.85	258.14	258.35	259.02	259.73	258.95	258.00	257.83	257.79	257.68	
3	257.49	258.25	257.82	258.28	258.56	258.43	259.11	258.83	258.00	257.84	257.76	257.66	
4	257.49	258.16	257.78	258.03	258.99	258.44	259.41	258.64	257.99	257.84	257.75	257.68	
5	257.49	257.95	257.83	257.95	259.20	258.44	259.43	258.54	257.98	257.83	257.78	257.66	
6	257.65	258.15	257.92	257.95	258.74	258.59	258.83	258.48	257.95	257.83	257.78	257.65	
7	257.89	259.11	257.86	258.14	258.54	258.73	258.62	258.43	257.95	257.80	257.76	257.71	
8	257.93	258.04	257.85	258.05	258.40	258.65	258.49	258.38	257.94	257.79	257.78	257.74	
9	257.86	257.95	257.85	258.41	258.31	258.57	258.37	258.33	257.94	257.79	257.75	257.76	
10	257.78	257.90	258.02	258.44	258.29	258.77	258.38	258.31	257.92	257.79	257.74	257.80	
11	257.73	257.87	258.04	258.26	258.27	258.66	258.72	258.29	257.92	257.79	257.73	257.76	
12	257.74	257.82	258.03	258.21	258.49	258.42	258.82	258.28	257.91	257.80	257.74	257.75	
13	257.71	257.84	258.25	258.10	258.38	258.32	258.67	258.26	257.90	257.78	257.73	257.74	
14	257.71	258.03	259.11	258.03	258.26	258.36	258.51	258.23	257.90	257.78	257.72	257.75	
15	257.76	257.85	261.44	258.00	258.24	258.40	258.43	258.20	257.90	257.78	257.69	257.72	
16	257.71	257.87	260.32	258.10	258.54	258.33	258.39	258.18	257.83	257.77	257.69	257.73	
17	257.73	257.80	259.06	258.24	258.59	258.30	258.35	258.17	257.84	257.69	257.67	257.76	
18	258.00	257.80	258.67	258.19	258.44	258.30	258.28	258.16	257.84	257.90	257.66	258.02	
19	257.98	257.78	258.45	258.13	259.28	258.27	258.23	258.15	257.85	257.89	257.70	258.04	
20	257.91	257.90	258.30	258.04	259.21	258.28	258.22	258.15	257.85	258.06	257.77	257.90	
21	257.89	257.85	258.19	258.04	258.92	258.37	258.29	258.13	257.85	258.09	257.85	257.84	
22	257.83	257.85	258.11	258.07	258.82	259.10	260.61	258.09	257.85	258.01	257.91	257.81	
23	257.78	257.81	258.07	258.05	258.46	258.95	262.12	258.10	257.85	257.96	257.85	257.80	
24	257.74	257.76	258.04	258.19	259.06	259.06	260.90	258.09	257.84	257.93	257.80	257.82	
25	257.71	257.89	257.99	258.26	260.59	258.60	259.43	258.08	257.85	257.91	257.78	257.84	
26	257.73	257.97	257.92	258.33	259.23	258.45	258.92	258.06	257.85	257.89	257.75	257.85	
27	257.95	257.97	257.92	259.09	258.81	258.78	258.73	258.04	257.87	257.86	257.73	257.82	
28	257.91	258.87	258.01	258.89	258.61	260.24	258.59	258.03	257.87	257.80	257.69	257.78	
29	257.96	258.62	258.02	258.58	258.51	259.65	258.53	258.01	257.87	257.83		259.10	
30	258.61	258.11	257.96	258.48	258.40	258.95	258.67	257.98	257.86	257.83		258.63	
31		257.98		258.64	258.36		259.50		257.86	257.81		258.17	
Mean	257.79	258.03	258.29	258.24	258.68	258.67	258.97	258.29	257.90	257.85	257.75	257.86	
Max	258.61	259.11	261.44	259.09	260.59	260.24	262.12	259.10	258.01	258.09	257.91	259.10	262.12
Min	257.49	257.76	257.78	257.95	258.24	258.27	258.22	257.98	257.83	257.69	257.66	257.65	257.49
Annual Max Momentary Gage Height	262.59		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	257.00		m. (MSL.) ,			River Bed	254.13	m. (MSL.)					
Left Bank Elevation	267.39		m. (MSL.) ,										
Right Bank Elevation	267.25		m. (MSL.) ,			Drainage Are	2,027	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.44	12.58	5.00	12.86	17.42	24.88	34.80	42.55	7.44	4.05	2.95	1.52		
2	0.40	9.36	4.05	10.68	16.55	39.39	71.00	36.70	7.20	3.67	2.95	1.44		
3	0.38	13.70	3.48	14.54	22.92	18.90	42.95	32.21	7.20	3.86	2.50	1.28		
4	0.38	11.22	2.80	7.92	38.22	19.20	55.48	25.56	6.98	3.86	2.35	1.44		
5	0.38	6.10	3.67	6.10	46.50	19.20	56.43	22.28	6.76	3.67	2.80	1.28		
6	1.20	10.95	5.44	6.10	29.00	23.88	32.21	20.40	6.10	3.67	2.80	1.20		
7	4.81	42.95	4.24	10.68	22.28	28.65	24.88	18.90	6.10	3.10	2.50	1.75		
8	5.66	8.16	4.05	8.40	18.00	25.90	20.70	17.42	5.88	2.95	2.80	2.20		
9	4.24	6.10	4.05	18.30	15.39	23.24	17.13	15.97	5.88	2.95	2.35	2.50		
10	2.80	5.00	7.68	19.20	14.82	30.05	17.42	15.39	5.44	2.95	2.20	3.10		
11	2.05	4.43	8.16	13.98	14.26	26.24	28.30	14.82	5.44	2.95	2.05	2.50		
12	2.20	3.48	7.92	12.58	20.70	18.60	31.84	14.54	5.22	3.10	2.20	2.35		
13	1.75	3.86	13.70	9.60	17.42	15.68	26.58	13.98	5.00	2.80	2.05	2.20		
14	1.75	7.92	42.95	7.92	13.98	16.84	21.32	13.14	5.00	2.80	1.90	2.35		
15	2.50	4.05	191.80	7.20	13.42	18.00	18.90	12.30	5.00	2.80	1.52	1.90		
16	1.75	4.43	104.20	9.60	22.28	15.97	17.71	11.76	3.67	2.65	1.52	2.05		
17	2.05	3.10	40.97	13.42	23.88	15.10	16.55	11.49	3.86	1.52	1.36	2.50		
18	7.20	3.10	26.58	12.03	19.20	15.10	14.54	11.22	3.86	5.00	1.28	7.68		
19	6.76	2.80	19.50	10.41	49.90	14.26	13.14	10.95	4.05	4.81	1.60	8.16		
20	5.22	5.00	15.10	8.16	46.93	14.54	12.86	10.95	4.05	8.64	2.65	5.00		
21	4.81	4.05	12.03	8.16	35.56	17.13	14.82	10.41	4.05	9.36	4.05	3.86		
22	3.67	4.05	9.87	8.88	31.84	42.55	122.75	9.36	4.05	7.44	5.22	3.29		
23	2.80	3.29	8.88	8.40	19.80	36.70	263.40	9.60	4.05	6.32	4.05	3.10		
24	2.20	2.50	8.16	12.03	40.97	40.97	145.00	9.36	3.86	5.66	3.10	3.48		
25	1.75	4.81	6.98	13.98	121.35	24.20	56.43	9.12	4.05	5.22	2.80	3.86		
26	2.05	6.54	5.44	15.97	47.78	19.50	35.56	8.64	4.05	4.81	2.35	4.05		
27	6.10	6.54	5.44	42.16	31.47	30.40	28.65	8.16	4.43	4.24	2.05	3.48		
28	5.22	33.69	7.44	34.43	24.54	99.40	23.88	7.92	4.43	3.10	1.52	2.80		
29	6.32	24.88	7.68	23.56	21.32	67.00	21.96	7.44	4.43	3.67		42.55		
30	24.54	9.87	6.32	20.40	18.00	36.70	26.58	6.76	4.24	3.67		25.22		
31		6.76		25.56	16.84		59.75		4.24	3.29		11.49		
<b>Total</b>	113.38	275.27	593.58	433.21	892.54	838.17	1373.52	459.30	156.01	128.58	69.47	161.58	5494.61	CMSDAY
<b>Mean</b>	3.78	8.88	19.79	13.97	28.79	27.94	44.31	15.31	5.03	4.15	2.48	5.21	15.05	CMS
<b>Max</b>	24.54	42.95	191.80	42.16	121.35	99.40	263.40	42.55	7.44	9.36	5.22	42.55	263.40	CMS
<b>Min</b>	0.38	2.50	2.80	6.10	13.42	14.26	12.86	6.76	3.67	1.52	1.28	1.20	0.38	CMS
<b>Runoff</b>	9.80	23.78	51.29	37.43	77.12	72.42	118.67	39.68	13.48	11.11	6.00	13.96	474.73	MCM
<b>Momentary Peak</b>	322.70 CMS. at 262.59 m. (MSL.) at 18.00 Hours , on Oct 22, 2021													
<b>Runoff Yield</b>	7.43 Liters/Second/Square KM.			Momentary Peak Yield				159.20 Liters/Second/Square KM.						

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Khlong Tan , Sukhothai (Y.33)

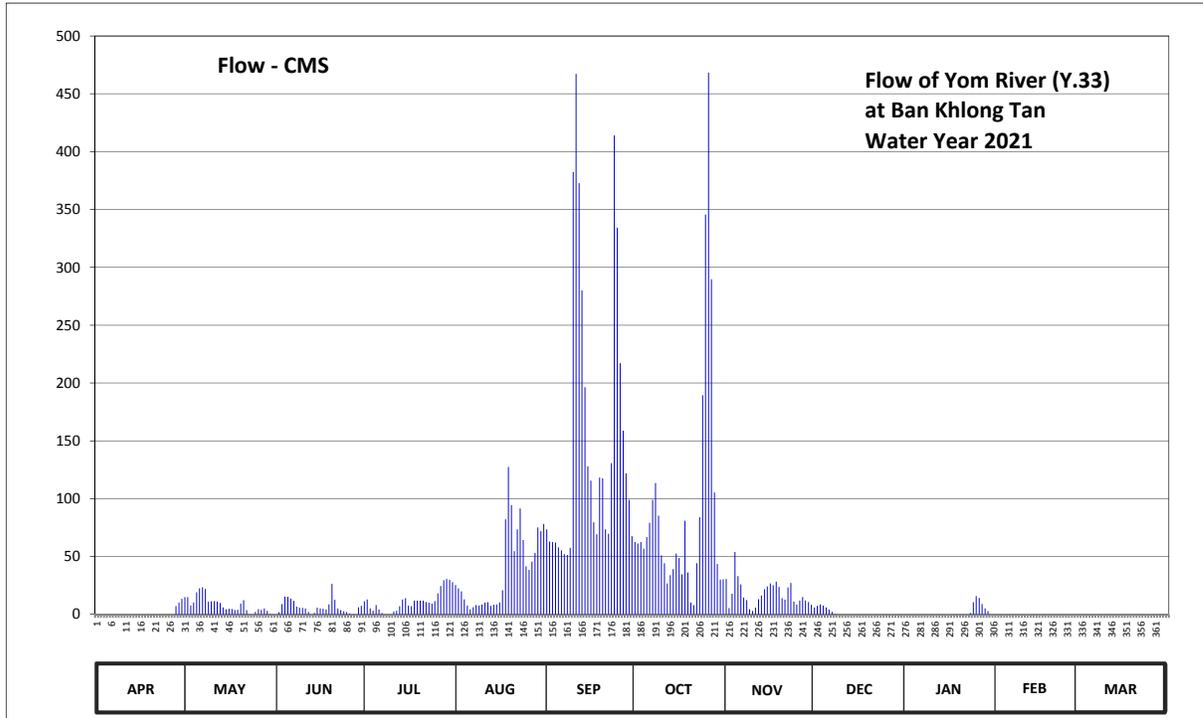
Lat 17 - 10 - 08 N Long 99 - 51 - 40 E

Location : on left bank at the bridge on road from Tambon Khlong Tan.

	Ban Khlong Tan	Amphoe Si Samrong	Changwat Sukhothai
<b>Drainage Area</b>	12,778 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+45.820 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20.30 meters from the top staff gage.	<b>Elevation</b>	+55.420 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1990 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Stable because of back water effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the temporary weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 14 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

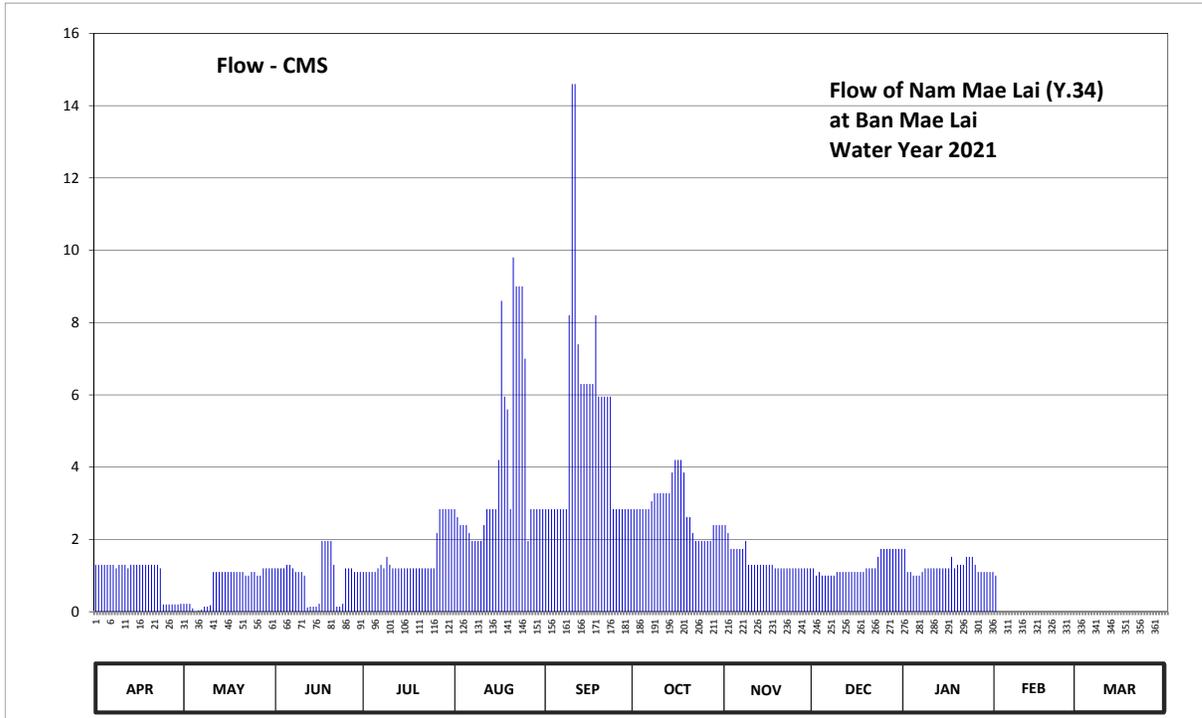
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.92	47.27	46.46	47.11	47.68	49.03	48.77	47.87	47.92	46.92	46.10	46.83	
2	45.92	47.27	46.61	47.18	47.57	48.78	48.74	47.88	48.00	46.71	45.96	46.82	
3	45.92	46.93	46.99	46.80	47.47	48.77	48.77	48.47	48.08	46.36	46.25	46.76	
4	45.92	47.06	47.29	46.69	47.19	48.76	48.63	49.29	48.02	46.35	46.20	46.76	
5	45.94	47.44	47.28	46.95	46.93	48.66	48.87	48.90	47.92	46.27	46.15	46.80	
6	46.03	47.57	47.22	46.74	46.75	48.60	49.16	48.72	47.79	46.15	46.22	46.83	
7	46.14	47.61	47.13	46.57	46.85	48.51	49.58	48.34	47.65	46.10	46.19	46.83	
8	46.14	47.55	46.88	46.43	46.95	48.49	49.87	48.25	47.53	46.08	46.26	46.84	
9	46.15	47.09	46.83	46.43	46.93	48.65	49.62	47.82	47.39	46.06	46.75	46.82	
10	46.15	47.11	46.82	46.47	46.97	53.77	49.25	47.71	47.17	46.03	47.03	46.75	
11	46.15	47.12	46.79	46.65	47.06	54.70	49.14	47.91	46.94	46.04	47.00	46.65	
12	46.16	47.10	46.63	46.68	47.07	53.66	48.74	48.29	46.69	46.74	47.04	46.56	
13	46.17	47.04	46.44	46.90	46.91	52.49	48.92	48.41	46.45	46.82	46.99	46.50	
14	46.17	46.84	46.58	47.18	46.96	51.27	49.04	48.61	46.38	47.13	46.96	46.50	
15	46.17	46.75	46.83	47.23	46.98	50.14	49.27	48.67	46.33	47.14	47.12	46.51	
16	46.22	46.78	46.80	46.93	47.06	49.91	49.22	48.74	46.29	47.06	47.14	46.52	
17	46.39	46.77	46.78	46.90	47.51	49.17	48.94	48.70	46.27	46.91	47.09	46.76	
18	46.37	46.72	46.74	47.14	49.23	48.93	49.58	48.78	46.17	46.79	47.05	47.05	
19	46.35	46.73	46.98	47.14	50.13	49.96	48.98	48.66	46.07	46.60	47.04	47.15	
20	46.34	47.01	47.72	47.14	49.49	49.95	48.16	48.32	46.14	46.45	47.06	47.13	
21	46.33	47.16	47.17	47.14	48.58	49.03	48.04	48.27	46.20	46.35	47.03	47.10	
22	46.33	46.71	46.79	47.08	49.03	48.94	48.29	48.65	46.32	46.30	46.94	47.07	
23	46.33	46.51	46.71	47.05	49.43	50.19	49.27	48.75	46.49	46.58	46.88	47.06	
24	46.32	46.43	46.66	47.01	48.81	54.13	51.16	48.20	46.40	47.07	46.86	47.03	
25	46.32	46.63	46.62	47.12	48.21	53.20	53.34	48.07	46.53	47.31	46.89	46.97	
26	46.33	46.76	46.55	47.41	48.12	51.60	54.71	48.24	46.57	47.24	46.89	46.93	
27	46.34	46.73	46.49	47.65	48.33	50.67	52.62	48.36	46.55	47.00	46.86	46.90	
28	46.90	46.80	46.47	47.83	48.54	50.03	49.71	48.24	46.96	46.80	46.84	46.90	
29	47.06	46.68	46.85	47.87	49.07	49.58	48.27	48.18	47.29	46.67		47.07	
30	47.21	46.53	46.91	47.84	48.99	48.89	47.85	48.06	47.04	46.48		47.14	
31		46.51		47.77	49.14		47.86		46.88	46.29		47.12	
Mean	46.27	46.94	46.83	47.07	47.93	50.28	49.43	48.38	46.92	46.61	46.74	46.86	
Max	47.21	47.61	47.72	47.87	50.13	54.70	54.71	49.29	48.08	47.31	47.14	47.15	54.71
Min	45.92	46.43	46.44	46.43	46.75	48.49	47.85	47.71	46.07	46.03	45.96	46.50	45.92
Annual Max Momentary Gage Height	55.12		m. (MSL.) ,			at 24.00 Hours ,	on Sep 10, 2021						
Zero Gage at Bottom Elevation	45.82		m. (MSL.) ,			River Bed	43.83	m. (MSL.)					
Left Bank Elevation		56.31		m. (MSL.) ,									
Right Bank Elevation		56.97		m. (MSL.) ,		Drainage Are	12,778	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	14.88	0.00	11.31	25.36	73.49	62.54	30.63	6.02	0.00	0.00	0.00	
2	0.00	14.88	1.78	12.78	22.42	62.96	61.28	5.40	7.30	0.00	0.00	0.00	
3	0.00	7.67	8.81	5.20	19.82	62.54	62.54	17.82	8.58	0.00	0.00	0.00	
4	0.00	10.26	15.36	3.22	12.99	62.12	56.66	53.96	7.62	0.00	0.00	0.00	
5	0.00	19.04	15.12	8.05	7.67	57.92	66.74	33.00	6.02	0.00	0.00	0.00	
6	0.00	22.42	13.68	4.12	4.30	55.40	79.08	25.96	4.06	0.00	0.00	0.00	
7	0.00	23.47	11.73	1.12	6.15	52.07	98.91	14.44	2.10	0.00	0.00	0.00	
8	0.00	21.90	6.72	0.00	8.05	51.33	113.54	12.25	0.42	0.00	0.00	0.00	
9	0.00	10.89	5.77	0.00	7.67	57.50	85.30	4.50	0.00	0.00	0.00	0.00	
10	0.00	11.31	5.58	0.00	8.43	382.39	51.00	2.94	0.00	0.00	0.00	0.00	
11	0.00	11.52	5.02	2.50	10.26	467.30	44.18	5.86	0.00	0.00	0.00	0.00	
12	0.00	11.10	2.14	3.04	10.47	372.82	26.72	13.17	0.00	0.00	0.00	0.00	
13	0.00	9.84	0.00	7.10	7.29	280.01	33.82	16.26	0.00	0.00	0.00	0.00	
14	0.00	5.96	1.28	12.78	8.24	196.31	39.10	21.78	0.00	0.00	0.00	0.00	
15	0.00	4.30	5.77	13.92	8.62	128.00	52.48	24.06	0.00	0.00	0.00	0.00	
16	0.00	4.84	5.20	7.67	10.26	115.62	48.78	26.72	0.00	0.00	0.00	0.00	
17	0.00	4.66	4.84	7.10	20.86	79.51	34.64	25.20	0.00	0.00	0.00	0.00	
18	0.00	3.76	4.12	11.94	82.18	69.26	80.90	28.24	0.00	0.00	0.00	0.00	
19	0.00	3.94	8.62	11.94	127.45	118.22	36.28	23.68	0.00	0.00	0.00	0.00	
20	0.00	9.21	26.44	11.94	94.46	117.70	10.22	13.92	0.00	0.00	0.00	0.00	
21	0.00	12.36	12.57	11.94	54.66	73.49	7.94	12.71	0.00	0.00	0.00	0.00	
22	0.00	3.58	5.02	10.68	73.49	69.68	44.26	23.30	0.00	0.00	0.00	0.00	
23	0.00	0.16	3.58	10.05	91.49	130.75	84.02	27.10	0.00	1.28	0.00	0.00	
24	0.00	0.00	2.68	9.21	64.22	414.04	189.38	11.10	0.00	10.47	0.00	0.00	
25	0.00	2.14	1.96	11.52	41.54	334.20	345.68	8.42	0.00	15.84	0.00	0.00	
26	0.00	4.48	0.80	18.26	38.48	217.10	468.35	12.02	0.00	14.16	0.00	0.00	
27	0.00	3.94	0.00	24.55	45.62	158.77	289.69	14.96	0.00	9.00	0.00	0.00	
28	7.10	5.20	0.00	29.47	53.18	121.95	105.40	12.02	0.00	5.20	0.00	0.00	
29	10.26	3.04	6.15	30.63	75.21	98.91	43.58	10.66	0.00	2.86	0.00	0.00	
30	13.44	0.48	7.29	29.76	71.78	67.58	30.05	8.26	0.00	0.00	0.00	0.00	
31		0.16		27.79	78.22		30.34		0.00	0.00		0.00	
<b>Total</b>	<b>30.80</b>	<b>261.39</b>	<b>188.03</b>	<b>349.59</b>	<b>1190.84</b>	<b>4548.94</b>	<b>2783.40</b>	<b>540.34</b>	<b>42.12</b>	<b>58.81</b>	<b>0.00</b>	<b>0.00</b>	<b>9994.26</b> CMSDAY
<b>Mean</b>	<b>1.03</b>	<b>8.43</b>	<b>6.27</b>	<b>11.28</b>	<b>38.41</b>	<b>151.63</b>	<b>89.79</b>	<b>18.01</b>	<b>1.36</b>	<b>1.90</b>	<b>0.00</b>	<b>0.00</b>	<b>27.38</b> CMS
<b>Max</b>	<b>13.44</b>	<b>23.47</b>	<b>26.44</b>	<b>30.63</b>	<b>127.45</b>	<b>467.30</b>	<b>468.35</b>	<b>53.96</b>	<b>8.58</b>	<b>15.84</b>	<b>0.00</b>	<b>0.00</b>	<b>468.35</b> CMS
<b>Min</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.30</b>	<b>51.33</b>	<b>7.94</b>	<b>2.94</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>2.66</b>	<b>22.58</b>	<b>16.25</b>	<b>30.20</b>	<b>102.89</b>	<b>393.03</b>	<b>240.49</b>	<b>46.69</b>	<b>3.64</b>	<b>5.08</b>	<b>0.00</b>	<b>0.00</b>	<b>863.50</b> MCM
<b>Momentary Peak</b>	515.64 CMS. at 55.12 m. (MSL.) at 24.00 Hours , on Sep 10, 2021												
<b>Runoff Yield</b>	2.14 Liters/Second/Square KM.			Momentary Peak Yield				40.35 Liters/Second/Square KM.					





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	0.22	1.20	1.10	2.84	2.84	2.84	2.40	1.20	1.74	1.00	0.00	
2	1.30	0.22	1.20	1.10	2.62	2.84	2.84	2.18	1.00	1.10	0.00	0.00	
3	1.30	0.22	1.20	1.10	2.40	2.84	2.84	1.74	1.10	1.10	0.00	0.00	
4	1.30	0.09	1.20	1.10	2.40	2.84	2.84	1.74	1.00	1.00	0.00	0.00	
5	1.30	0.01	1.30	1.10	2.40	2.84	2.84	1.74	1.00	1.00	0.00	0.00	
6	1.30	0.04	1.30	1.20	2.18	2.84	2.84	1.74	1.00	1.00	0.00	0.00	
7	1.30	0.06	1.20	1.30	1.96	2.84	3.06	1.74	1.00	1.10	0.00	0.00	
8	1.20	0.14	1.10	1.20	1.96	2.84	3.28	1.96	1.00	1.20	0.00	0.00	
9	1.30	0.14	1.10	1.52	1.96	8.20	3.28	1.30	1.10	1.20	0.00	0.00	
10	1.30	0.18	1.10	1.30	1.96	14.60	3.28	1.30	1.10	1.20	0.00	0.00	
11	1.30	1.10	1.00	1.20	2.40	14.60	3.28	1.30	1.10	1.20	0.00	0.00	
12	1.20	1.10	0.12	1.20	2.84	7.40	3.28	1.30	1.10	1.20	0.00	0.00	
13	1.30	1.10	0.14	1.20	2.84	6.30	3.28	1.30	1.10	1.20	0.00	0.00	
14	1.30	1.10	0.14	1.20	2.84	6.30	3.85	1.30	1.10	1.20	0.00	0.00	
15	1.30	1.10	0.14	1.20	2.84	6.30	4.20	1.30	1.10	1.20	0.00	0.00	
16	1.30	1.10	0.22	1.20	4.20	6.30	4.20	1.30	1.10	1.20	0.00	0.00	
17	1.30	1.10	1.96	1.20	8.60	6.30	4.20	1.30	1.10	1.52	0.00	0.00	
18	1.30	1.10	1.96	1.20	5.95	8.20	3.85	1.20	1.10	1.20	0.00	0.00	
19	1.30	1.10	1.96	1.20	5.60	5.95	2.62	1.20	1.20	1.30	0.00	0.00	
20	1.30	1.10	1.96	1.20	2.84	5.95	2.62	1.20	1.20	1.30	0.00	0.00	
21	1.30	1.10	1.30	1.20	9.80	5.95	2.18	1.20	1.20	1.30	0.00	0.00	
22	1.30	1.00	0.14	1.20	9.00	5.95	1.96	1.20	1.20	1.52	0.00	0.00	
23	1.20	1.00	0.14	1.20	9.00	5.95	1.96	1.20	1.52	1.52	0.00	0.00	
24	0.20	1.10	0.22	1.20	9.00	2.84	1.96	1.20	1.74	1.52	0.00	0.00	
25	0.20	1.10	1.20	1.20	7.00	2.84	1.96	1.20	1.74	1.30	0.00	0.00	
26	0.20	1.00	1.20	2.18	1.96	2.84	1.96	1.20	1.74	1.10	0.00	0.00	
27	0.20	1.00	1.20	2.84	2.84	2.84	1.96	1.20	1.74	1.10	0.00	0.00	
28	0.20	1.20	1.10	2.84	2.84	2.84	2.40	1.20	1.74	1.10	0.00	0.00	
29	0.20	1.20	1.10	2.84	2.84	2.84	2.40	1.20	1.74	1.10	0.00	0.00	
30	0.22	1.20	1.10	2.84	2.84	2.84	2.40	1.20	1.74	1.10	0.00	0.00	
31		1.20		2.84	2.84		2.40		1.74	1.10		0.00	
<b>Total</b>	31.02	24.42	30.20	46.40	123.59	156.85	88.86	42.54	39.54	37.92	1.00	0.00	622.34 CMSDAY
<b>Mean</b>	1.03	0.79	1.01	1.50	3.99	5.23	2.87	1.42	1.28	1.22	0.04	0.00	1.71 CMS
<b>Max</b>	1.30	1.20	1.96	2.84	9.80	14.60	4.20	2.40	1.74	1.74	1.00	0.00	14.60 CMS
<b>Min</b>	0.20	0.01	0.12	1.10	1.96	2.84	1.96	1.20	1.00	1.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	2.68	2.11	2.61	4.01	10.68	13.55	7.68	3.68	3.42	3.28	0.09	0.00	53.77 MCM
<b>Momentary Peak</b>	15.05	CMS. at 159.59 m. (MSL.) at 15.00 Hours , on Sep 9, 2021											
<b>Runoff Yield</b>	4.86	Liters/Second/Square KM. Momentary Peak Yield 42.88 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

Nam Khuan at Ban Pa Kha , Phayao (Y.36)

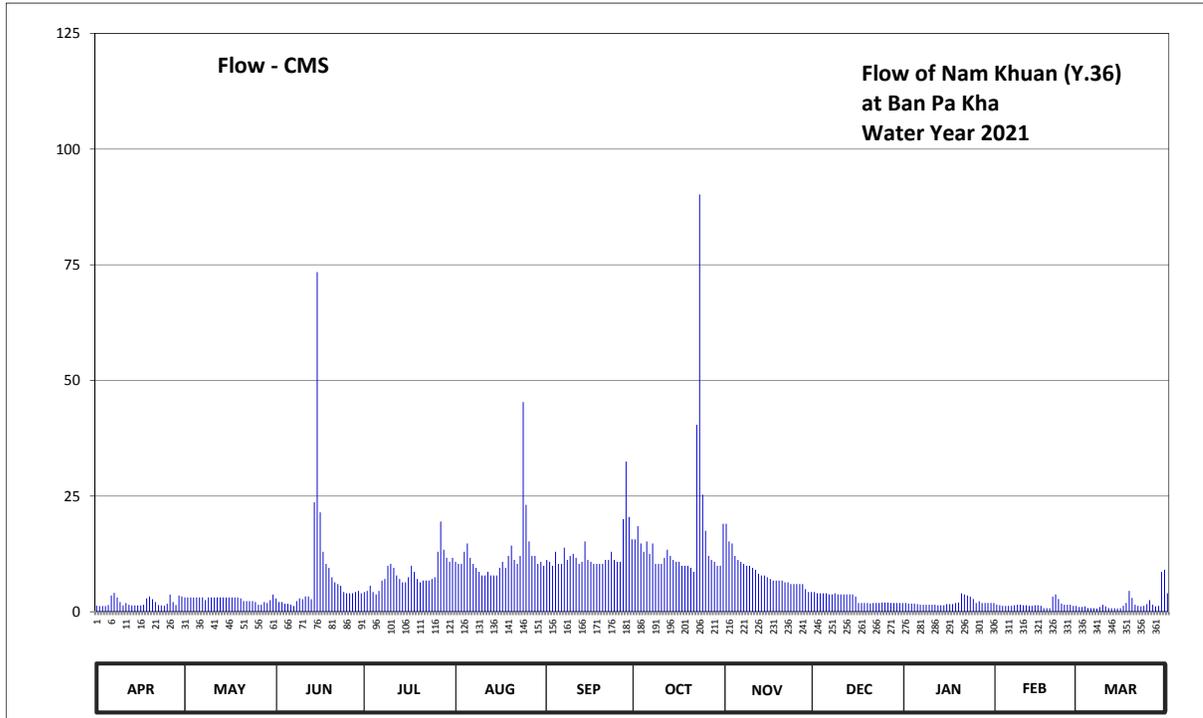
Lat 19 - 09 - 31 N Long 100 - 19 - 40 E

Location : on left bank at the bridge.

	<b>Ban Pa Kha</b>	<b>Amphoe Pong</b>	<b>Changwat Phayao</b>
<b>Drainage Area</b>	851 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+298.586 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the abutment of the bridge.	<b>Elevation</b>	+307.764 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1998 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1998 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the islet at the gage site. Stage-discharge relation defined by 26 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.17	301.28	301.27	301.09	301.26	301.27	301.37	301.44	301.09	300.99	300.96	300.92	
2	301.16	301.28	301.23	301.10	301.25	301.26	301.43	301.36	301.08	300.98	300.95	300.92	
3	301.16	301.28	301.23	301.13	301.25	301.24	301.35	301.35	301.08	300.98	300.94	300.93	
4	301.16	301.28	301.21	301.09	301.31	301.31	301.31	301.29	301.08	300.98	300.94	300.90	
5	301.19	301.28	301.21	301.07	301.35	301.25	301.36	301.27	301.08	300.97	300.94	300.89	
6	301.30	301.28	301.20	301.10	301.28	301.25	301.30	301.26	301.07	300.96	300.94	300.89	
7	301.33	301.28	301.16	301.16	301.25	301.33	301.35	301.25	301.07	300.96	300.95	300.88	
8	301.28	301.25	301.24	301.17	301.23	301.27	301.25	301.24	301.08	300.96	300.96	300.92	
9	301.23	301.28	301.27	301.24	301.21	301.29	301.25	301.24	301.07	300.96	300.96	300.96	
10	301.18	301.28	301.26	301.25	301.19	301.30	301.25	301.23	301.07	300.96	300.95	300.93	
11	301.22	301.28	301.29	301.23	301.19	301.28	301.28	301.22	301.07	300.96	300.95	300.90	
12	301.20	301.28	301.29	301.19	301.21	301.25	301.32	301.20	301.07	300.95	300.94	300.89	
13	301.18	301.28	301.26	301.17	301.19	301.26	301.29	301.19	301.07	300.95	300.94	300.89	
14	301.18	301.28	301.53	301.15	301.19	301.36	301.27	301.19	301.07	300.95	300.95	300.88	
15	301.18	301.28	302.28	301.15	301.19	301.27	301.26	301.18	301.05	300.97	300.95	300.89	
16	301.18	301.28	301.49	301.18	301.23	301.26	301.26	301.17	300.99	300.97	300.94	300.94	
17	301.20	301.28	301.31	301.24	301.26	301.25	301.24	301.16	300.99	300.97	300.89	300.99	
18	301.27	301.28	301.25	301.21	301.23	301.25	301.24	301.16	300.99	300.99	300.89	301.10	
19	301.29	301.28	301.23	301.17	301.29	301.25	301.24	301.16	300.99	301.00	300.89	301.04	
20	301.26	301.27	301.18	301.15	301.34	301.25	301.23	301.16	300.98	301.08	301.05	300.96	
21	301.23	301.24	301.15	301.16	301.27	301.27	301.21	301.15	300.99	301.07	301.07	300.94	
22	301.19	301.24	301.14	301.16	301.25	301.27	301.82	301.15	300.99	301.06	301.03	300.93	
23	301.18	301.24	301.13	301.16	301.29	301.31	302.48	301.14	300.99	301.05	300.98	300.94	
24	301.17	301.24	301.09	301.17	301.89	301.27	301.56	301.14	301.00	301.03	300.96	300.97	
25	301.21	301.23	301.08	301.18	301.52	301.26	301.41	301.14	301.00	300.99	300.96	301.02	
26	301.31	301.20	301.08	301.31	301.36	301.26	301.29	301.14	301.00	301.01	300.96	300.96	
27	301.23	301.20	301.08	301.45	301.29	301.46	301.27	301.14	300.99	300.99	300.94	300.93	
28	301.19	301.23	301.09	301.32	301.29	301.69	301.26	301.11	300.99	300.99	300.94	300.94	
29	301.30	301.22	301.10	301.28	301.25	301.47	301.24	301.09	300.99	300.99		301.21	
30	301.29	301.25	301.08	301.26	301.26	301.37	301.24	301.09	300.99	300.99		301.22	
31		301.31		301.28	301.24		301.44		300.99	300.99		301.08	
Mean	301.23	301.26	301.25	301.19	301.28	301.30	301.36	301.20	301.03	300.99	300.95	300.96	
Max	301.33	301.31	302.28	301.45	301.89	301.69	302.48	301.44	301.09	301.08	301.07	301.22	302.48
Min	301.16	301.20	301.08	301.07	301.19	301.24	301.21	301.09	300.98	300.95	300.89	300.88	300.88
Annual Max Momentary Gage Height	302.94	m. (MSL.) ,		at 06.00 Hours , on Oct 23, 2021									
Zero Gage at Bottom Elevation	298.59	m. (MSL.) ,		River Bed 300.65 m. (MSL.)									
Left Bank Elevation	307.46	m. (MSL.) ,											
Right Bank Elevation	307.72	m. (MSL.) ,		Drainage Are	851	Square Kilometers							



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.29	3.10	2.90	4.25	10.78	11.21	15.65	19.00	4.25	1.88	1.52	1.04	
2	1.22	3.10	2.10	4.50	10.35	10.78	18.50	15.20	4.00	1.76	1.40	1.04	
3	1.22	3.10	2.10	5.61	10.35	9.92	14.75	14.75	4.00	1.76	1.28	1.16	
4	1.22	3.10	1.70	4.25	12.95	12.95	12.95	12.07	4.00	1.76	1.28	0.80	
5	1.43	3.10	1.70	3.75	14.75	10.35	15.20	11.21	4.00	1.64	1.28	0.74	
6	3.50	3.10	1.50	4.50	11.64	10.35	12.50	10.78	3.75	1.52	1.28	0.74	
7	4.10	3.10	1.22	6.72	10.35	13.85	14.75	10.35	3.75	1.52	1.40	0.68	
8	3.10	2.50	2.30	7.09	9.49	11.21	10.35	9.92	4.00	1.52	1.52	1.04	
9	2.10	3.10	2.90	9.92	8.63	12.07	10.35	9.92	3.75	1.52	1.52	1.52	
10	1.36	3.10	2.70	10.35	7.83	12.50	10.35	9.49	3.75	1.52	1.40	1.16	
11	1.90	3.10	3.30	9.49	7.83	11.64	11.64	9.06	3.75	1.52	1.40	0.80	
12	1.50	3.10	3.30	7.83	8.63	10.35	13.40	8.20	3.75	1.40	1.28	0.74	
13	1.36	3.10	2.70	7.09	7.83	10.78	12.07	7.83	3.75	1.40	1.28	0.74	
14	1.36	3.10	23.65	6.35	7.83	15.20	11.21	7.83	3.75	1.40	1.40	0.68	
15	1.36	3.10	73.40	6.35	7.83	11.21	10.78	7.46	3.25	1.64	1.40	0.74	
16	1.36	3.10	21.50	7.46	9.49	10.78	10.78	7.09	1.88	1.64	1.28	1.28	
17	1.50	3.10	12.95	9.92	10.78	10.35	9.92	6.72	1.88	1.64	0.74	1.88	
18	2.90	3.10	10.35	8.63	9.49	10.35	9.92	6.72	1.88	1.88	0.74	4.50	
19	3.30	3.10	9.49	7.09	12.07	10.35	9.92	6.72	1.88	2.00	0.74	3.00	
20	2.70	2.90	7.46	6.35	14.30	10.35	9.49	6.72	1.76	4.00	3.25	1.52	
21	2.10	2.30	6.35	6.72	11.21	11.21	8.63	6.35	1.88	3.75	3.75	1.28	
22	1.43	2.30	5.98	6.72	10.35	11.21	40.40	6.35	1.88	3.50	2.75	1.16	
23	1.36	2.30	5.61	6.72	12.07	12.95	90.20	5.98	1.88	3.25	1.76	1.28	
24	1.29	2.30	4.25	7.09	45.30	11.21	25.30	5.98	2.00	2.75	1.52	1.64	
25	1.70	2.10	4.00	7.46	23.10	10.78	17.50	5.98	2.00	1.88	1.52	2.50	
26	3.70	1.50	4.00	12.95	15.20	10.78	12.07	5.98	2.00	2.25	1.52	1.52	
27	2.10	1.50	4.00	19.50	12.07	20.00	11.21	5.98	1.88	1.88	1.28	1.16	
28	1.43	2.10	4.25	13.40	12.07	32.45	10.78	4.87	1.88	1.88	1.28	1.28	
29	3.50	1.90	4.50	11.64	10.35	20.50	9.92	4.25	1.88	1.88		8.63	
30	3.30	2.50	4.00	10.78	10.78	15.65	9.92	4.25	1.88	1.88		9.06	
31		3.70		11.64	9.92		19.00		1.88	1.88		4.00	
<b>Total</b>	61.69	85.70	236.16	252.12	375.62	383.29	499.41	253.01	87.82	61.70	42.77	59.31	2398.60 CMSDAY
<b>Mean</b>	2.06	2.76	7.87	8.13	12.12	12.78	16.11	8.43	2.83	1.99	1.53	1.91	6.57 CMS
<b>Max</b>	4.10	3.70	73.40	19.50	45.30	32.45	90.20	19.00	4.25	4.00	3.75	9.06	90.20 CMS
<b>Min</b>	1.22	1.50	1.22	3.75	7.83	9.92	8.63	4.25	1.76	1.40	0.74	0.68	0.68 CMS
<b>Runoff</b>	5.33	7.40	20.40	21.78	32.45	33.12	43.15	21.86	7.59	5.33	3.70	5.12	207.24 MCM
<b>Momentary Peak</b>	135.70 CMS. at 302.94 m. (MSL.) at 06.00 Hours , on Oct 23, 2021												
<b>Runoff Yield</b>	7.72 Liters/Second/Square KM.			Momentary Peak Yield			159.46 Liters/Second/Square KM.						

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Wang Chin , Phrae (Y.37)

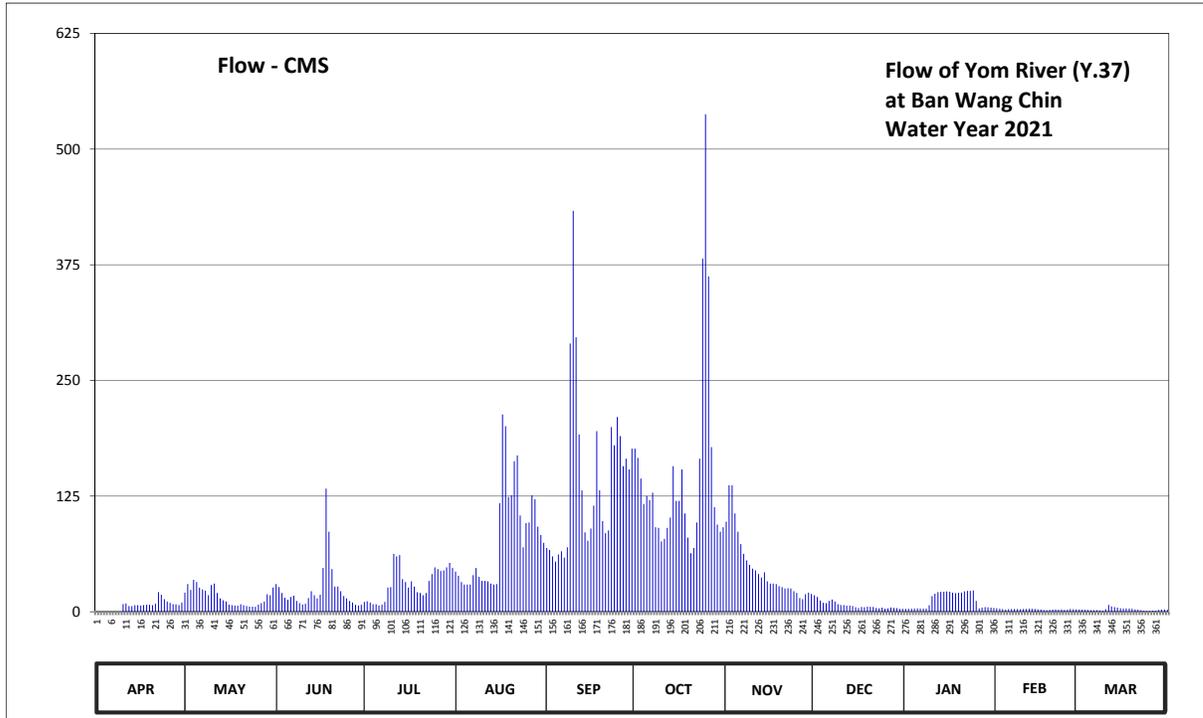
Lat 17 - 54 - 05 N Long 99 - 36 - 21 E

Location : on left bank at the bridge on road.

	<b>Ban Wang Chin</b>	<b>Amphoe Wang Chin</b>	<b>Changwat Phrae</b>
<b>Drainage Area</b>	10,265 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+92.280 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5 meters from the top staff gage.	<b>Elevation</b>	+105.250 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The weir situated about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	93.70	94.50	94.68	94.26	94.90	95.27	96.58	95.67	94.44	93.96	94.25	94.12	
2	93.68	94.68	94.62	94.28	94.83	95.24	96.47	96.14	94.40	93.97	94.21	94.11	
3	93.68	94.56	94.49	94.24	94.72	95.14	96.22	96.14	94.30	93.97	94.18	94.10	
4	93.65	94.76	94.38	94.18	94.67	95.06	95.91	95.79	94.23	93.98	94.13	94.07	
5	93.65	94.72	94.32	94.18	94.67	95.17	96.01	95.52	94.22	93.99	94.16	94.06	
6	93.66	94.61	94.40	94.13	94.67	95.22	95.96	95.33	94.29	93.98	94.17	94.05	
7	93.67	94.57	94.43	94.17	94.84	95.12	96.05	95.18	94.33	93.98	94.17	94.05	
8	93.65	94.54	94.29	94.26	94.96	95.28	95.59	95.08	94.27	93.98	94.17	94.03	
9	93.63	94.44	94.22	94.61	94.81	97.69	95.58	95.01	94.18	94.14	94.15	93.99	
10	94.19	94.66	94.17	94.62	94.74	98.91	95.37	94.95	94.15	94.96	94.18	94.16	
11	94.21	94.69	94.20	95.18	94.74	97.75	95.41	94.92	94.15	95.06	94.18	94.50	
12	94.11	94.49	94.37	95.14	94.73	96.75	95.58	94.86	94.12	95.13	94.19	94.40	
13	94.10	94.36	94.53	95.16	94.69	96.08	95.73	94.80	94.13	95.14	94.19	94.35	
14	94.14	94.31	94.44	94.77	94.67	95.51	96.37	94.89	94.11	95.15	94.17	94.30	
15	94.15	94.27	94.36	94.72	94.68	95.38	95.95	94.73	94.05	95.16	94.15	94.25	
16	94.13	94.17	94.45	94.61	95.92	95.57	95.95	94.69	94.01	95.15	94.13	94.22	
17	94.15	94.14	94.96	94.73	96.99	95.89	96.33	94.69	94.06	95.11	94.07	94.23	
18	94.16	94.13	96.10	94.63	96.85	96.79	95.79	94.68	94.05	95.09	94.06	94.22	
19	94.16	94.12	95.52	94.51	96.00	96.08	95.43	94.64	94.08	95.10	94.09	94.20	
20	94.14	94.18	94.94	94.49	96.02	95.68	95.19	94.62	94.07	95.11	94.12	94.14	
21	94.20	94.14	94.63	94.44	96.43	95.50	95.27	94.59	94.06	95.16	94.14	94.11	
22	94.51	94.11	94.63	94.49	96.50	95.54	95.66	94.60	94.02	95.18	94.11	94.06	
23	94.45	94.08	94.53	94.74	95.76	96.84	96.46	94.59	93.99	95.18	94.14	93.99	
24	94.34	94.08	94.42	94.86	95.28	96.62	98.48	94.53	94.03	95.20	94.10	93.95	
25	94.27	94.07	94.36	94.97	95.65	96.96	99.72	94.49	93.97	94.73	94.11	93.95	
26	94.23	94.17	94.29	94.94	95.66	96.73	98.32	94.37	93.99	94.24	94.17	93.99	
27	94.19	94.22	94.24	94.91	96.02	96.37	96.60	94.34	94.04	94.31	94.16	93.96	
28	94.18	94.27	94.16	94.92	95.97	96.46	95.87	94.46	94.02	94.34	94.14	94.08	
29	94.15	94.46	94.13	94.97	95.60	96.33	95.63	94.50	94.01	94.33		94.12	
30	94.24	94.44	94.16	95.04	95.47	96.58	95.52	94.47	93.96	94.30		94.12	
31		94.61		94.96	95.35		95.59		93.97	94.28		94.10	
Mean	94.05	94.37	94.51	94.65	95.38	96.12	96.15	94.91	94.12	94.62	94.15	94.13	
Max	94.51	94.76	96.10	95.18	96.99	98.91	99.72	96.14	94.44	95.20	94.25	94.50	99.72
Min	93.63	94.07	94.13	94.13	94.67	95.06	95.19	94.34	93.96	93.96	94.06	93.95	93.63
Annual Max Momentary Gage Height	99.88		m. (MSL.) ,				at 06.00 Hours , on Oct 25, 2021						
Zero Gage at Bottom Elevation	92.28		m. (MSL.) ,			River Bed	91.62	m. (MSL.)					
Left Bank Elevation		105.39		m. (MSL.) ,									
Right Bank Elevation		106.47		m. (MSL.) ,		Drainage Area	10,265	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	20.70	29.90	10.60	43.30	68.90	176.20	97.25	17.88	3.02	3.80	2.32		
2	0.24	29.90	26.60	11.30	38.89	66.80	166.30	136.60	16.00	3.19	3.32	2.21		
3	0.24	23.58	20.23	9.90	32.20	59.80	143.80	136.60	12.00	3.19	2.98	2.10		
4	0.15	34.60	15.20	8.00	29.35	54.20	116.35	106.25	9.55	3.36	2.43	1.83		
5	0.15	32.20	12.80	8.00	29.35	61.90	124.90	86.40	9.20	3.53	2.76	1.74		
6	0.18	26.05	16.00	6.75	29.35	65.40	120.60	73.10	11.65	3.36	2.87	1.65		
7	0.21	24.06	17.41	7.75	39.52	58.40	128.50	62.60	13.20	3.36	2.87	1.65		
8	0.15	22.62	11.65	10.60	47.32	69.60	91.30	55.60	10.95	3.36	2.87	1.47		
9	0.09	17.88	9.20	26.05	37.63	289.90	90.60	50.70	8.00	7.00	2.65	1.14		
10	8.25	28.80	7.75	26.60	33.40	433.20	75.90	46.65	7.25	16.88	2.98	2.76		
11	8.85	30.45	8.50	62.60	33.40	296.50	78.70	44.64	7.25	19.36	2.98	7.40		
12	6.25	20.23	14.80	59.80	32.80	191.50	90.60	40.78	6.50	21.18	3.09	5.70		
13	6.00	14.40	22.14	61.20	30.45	131.20	101.75	37.00	6.75	21.44	3.09	5.05		
14	7.00	12.40	17.88	35.20	29.35	85.70	157.30	42.67	6.25	21.70	2.87	4.40		
15	7.25	10.95	14.40	32.20	29.90	76.60	119.75	32.80	4.85	21.96	2.65	3.80		
16	6.75	7.75	18.35	26.05	117.20	89.90	119.75	30.45	3.93	21.70	2.43	3.44		
17	7.25	7.00	47.32	32.80	213.10	114.65	153.70	30.45	5.08	20.66	1.83	3.56		
18	7.50	6.75	133.00	27.15	200.50	195.10	106.25	29.90	4.85	20.14	1.74	3.44		
19	7.50	6.50	86.40	21.18	124.00	131.20	80.10	27.70	5.54	20.40	2.01	3.20		
20	7.00	8.00	45.98	20.23	125.80	98.00	63.30	26.60	5.31	20.66	2.32	2.54		
21	8.50	7.00	27.15	17.88	162.70	85.00	68.90	25.02	5.08	21.96	2.54	2.21		
22	21.18	6.25	27.15	20.23	169.00	87.80	96.50	25.50	4.16	22.48	2.21	1.74		
23	18.35	5.54	22.14	33.40	104.00	199.60	165.40	25.02	3.53	22.48	2.54	1.14		
24	13.60	5.54	16.94	40.78	69.60	179.80	381.60	22.14	4.39	23.00	2.10	0.90		
25	10.95	5.31	14.40	47.99	95.75	210.40	537.60	20.23	3.19	11.73	2.21	0.90		
26	9.55	7.75	11.65	45.98	96.50	189.70	362.40	14.80	3.53	3.68	2.87	1.14		
27	8.25	9.20	9.90	43.97	125.80	157.30	178.00	13.60	4.62	4.53	2.76	0.96		
28	8.00	10.95	7.50	44.64	121.45	165.40	112.95	18.82	4.16	4.92	2.54	1.92		
29	7.25	18.82	6.75	47.99	92.00	153.70	94.25	20.70	3.93	4.79		2.32		
30	9.90	17.88	7.50	52.80	82.90	176.20	86.40	19.29	3.02	4.40		2.32		
31		26.05		47.32	74.50		91.30		3.19	4.16		2.10		
<b>Total</b>	196.84	505.11	726.59	946.94	2491.01	4243.35	4480.95	1399.86	214.79	387.58	74.31	79.05	15746.38	CMSDAY
<b>Mean</b>	6.56	16.29	24.22	30.55	80.36	141.45	144.55	46.66	6.93	12.50	2.65	2.55	43.14	CMS
<b>Max</b>	21.18	34.60	133.00	62.60	213.10	433.20	537.60	136.60	17.88	23.00	3.80	7.40	537.60	CMS
<b>Min</b>	0.09	5.31	6.75	6.75	29.35	54.20	63.30	13.60	3.02	3.02	1.74	0.90	0.09	CMS
<b>Runoff</b>	17.01	43.64	62.78	81.82	215.22	366.63	387.15	120.95	18.56	33.49	6.42	6.83	1360.49	MCM
<b>Momentary Peak</b>		558.40	CMS.	CMS. at 99.88 m. (MSL.)	at 06.00 Hours	on Oct 25, 2021								
<b>Runoff Yield</b>		4.20	Liters/Second/Square KM.		Momentary Peak Yield	54.40	Liters/Second/Square KM.							

## WATER YEAR : 2021

## YOM RIVER BASIN

## Nam Mae Kham Mi at Ban Mae Kham Mi Tamnak Tham , Phrae (Y.38)

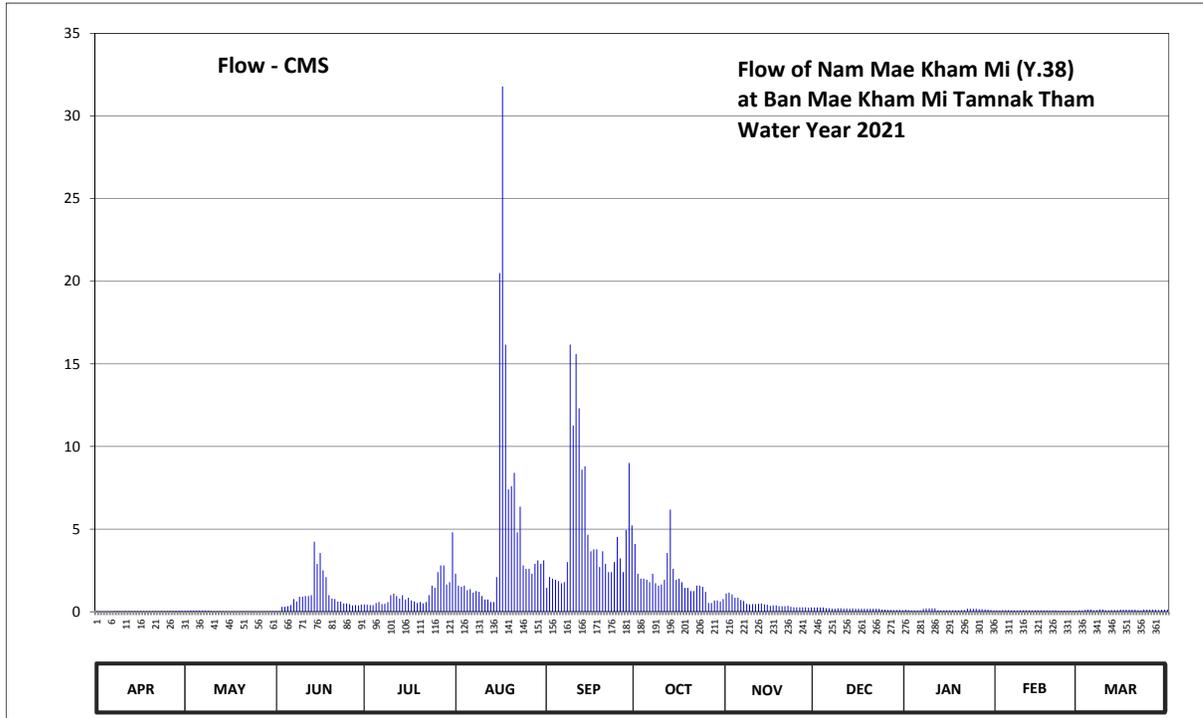
Lat 18 - 15 - 59 N Long 100 - 14 - 15 E

Location : on right bank at the bridge on road.

	<b>Ban</b>	Mae Kham Mi Tamnak Thar	<b>Amphoe</b>	Nong Muang Khai	<b>Changwat</b>	Phrae
<b>Drainage Area</b>	407	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+170.100 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.				<b>Elevation</b>	+179.900 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1999 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1999 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1999 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. The islet situated of the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	170.75	171.23	170.89	170.87	171.23	171.12	171.40	171.06	170.77	170.67	170.64	170.64	
2	170.75	171.22	170.78	170.86	171.14	171.21	171.23	171.07	170.77	170.66	170.64	170.63	
3	170.73	171.25	170.80	170.85	171.13	171.20	171.20	171.05	170.77	170.64	170.65	170.66	
4	170.74	171.26	170.80	170.85	171.14	171.19	171.20	171.01	170.77	170.64	170.65	170.67	
5	170.74	171.27	170.82	170.91	171.10	171.18	171.19	171.01	170.74	170.64	170.65	170.67	
6	170.74	171.26	170.85	170.93	171.11	171.16	171.17	170.97	170.74	170.64	170.64	170.64	
7	170.94	171.30	170.99	170.88	171.07	171.17	171.23	170.95	170.72	170.71	170.64	170.65	
8	170.95	171.31	170.94	170.89	171.09	171.30	171.16	170.89	170.72	170.73	170.64	170.69	
9	170.94	171.19	171.02	170.93	171.08	171.97	171.14	170.87	170.74	170.73	170.64	170.68	
10	170.93	170.85	171.02	171.04	171.03	171.79	171.15	170.88	170.74	170.73	170.64	170.65	
11	170.93	170.81	171.03	171.06	170.98	171.95	171.19	170.88	170.72	170.73	170.64	170.64	
12	170.90	170.79	171.03	171.03	170.98	171.83	171.35	170.89	170.73	170.64	170.64	170.66	
13	170.89	170.80	171.04	171.00	170.93	171.67	171.54	170.90	170.72	170.64	170.64	170.66	
14	170.90	170.77	171.41	171.04	170.93	171.68	171.26	170.87	170.73	170.64	170.64	170.66	
15	170.90	170.77	171.29	170.98	171.21	171.44	171.19	170.86	170.72	170.64	170.64	170.68	
16	170.89	170.70	171.35	171.01	172.10	171.36	171.20	170.83	170.72	170.64	170.64	170.68	
17	170.90	170.73	171.25	170.96	172.39	171.37	171.17	170.84	170.72	170.64	170.64	170.68	
18	170.90	170.75	171.21	170.94	171.97	171.37	171.12	170.84	170.72	170.64	170.64	170.67	
19	170.90	170.77	171.04	170.91	171.61	171.27	171.12	170.82	170.72	170.64	170.64	170.67	
20	170.93	170.76	171.00	170.93	171.62	171.36	171.09	170.82	170.72	170.65	170.64	170.67	
21	170.92	170.77	170.99	170.90	171.66	171.29	171.09	170.82	170.72	170.65	170.64	170.65	
22	170.93	170.79	170.94	170.93	171.45	171.24	171.14	170.83	170.72	170.72	170.62	170.64	
23	170.96	170.79	170.94	171.04	171.55	171.24	171.14	170.80	170.71	170.72	170.62	170.68	
24	170.98	170.79	170.90	171.14	171.28	171.30	171.13	170.78	170.68	170.72	170.62	170.67	
25	170.96	170.80	170.90	171.12	171.26	171.43	171.08	170.78	170.67	170.72	170.62	170.67	
26	171.11	170.78	170.88	171.24	171.26	171.32	170.91	170.78	170.66	170.70	170.62	170.67	
27	171.14	170.77	170.84	171.28	171.23	171.24	170.91	170.78	170.66	170.70	170.62	170.67	
28	171.19	170.78	170.85	171.28	171.29	171.46	170.96	170.78	170.65	170.69	170.62	170.65	
29	171.24	170.78	170.84	171.15	171.31	171.69	170.96	170.76	170.66	170.67	170.67	170.67	
30	171.21	170.85	170.87	171.17	171.29	171.48	170.94	170.77	170.66	170.66	170.66	170.67	
31		170.86		171.45	171.31		170.99		170.65	170.64		170.67	
Mean	170.93	170.92	170.98	171.02	171.31	171.41	171.15	170.87	170.71	170.67	170.64	170.66	
Max	171.24	171.31	171.41	171.45	172.39	171.97	171.54	171.07	170.77	170.73	170.65	170.69	172.39
Min	170.73	170.70	170.78	170.85	170.93	171.12	170.91	170.76	170.65	170.64	170.62	170.63	170.62
Annual Max Momentary Gage Height	172.73		m. (MSL.) ,				at 17.00 Hours ,						on Aug 16, 2021
Zero Gage at Bottom Elevation	170.10		m. (MSL.) ,			River Bed	170.50		m. (MSL.)				
Left Bank Elevation		180.13		m. (MSL.) ,									
Right Bank Elevation		180.12		m. (MSL.) ,		Drainage Are	407		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.07	0.04	0.44	2.30	1.44	4.10	1.10	0.26	0.12	0.09	0.09	
2	0.03	0.07	0.03	0.42	1.58	2.10	2.30	1.15	0.26	0.11	0.09	0.08	
3	0.02	0.08	0.30	0.40	1.51	2.00	2.00	1.05	0.26	0.09	0.10	0.11	
4	0.02	0.08	0.30	0.40	1.58	1.93	2.00	0.85	0.26	0.09	0.10	0.12	
5	0.02	0.08	0.34	0.53	1.30	1.86	1.93	0.85	0.21	0.09	0.10	0.12	
6	0.02	0.08	0.40	0.59	1.37	1.72	1.79	0.71	0.21	0.09	0.09	0.09	
7	0.04	0.08	0.77	0.46	1.15	1.79	2.30	0.65	0.18	0.17	0.09	0.10	
8	0.05	0.08	0.62	0.48	1.25	3.00	1.72	0.48	0.18	0.20	0.09	0.14	
9	0.04	0.07	0.90	0.59	1.20	16.16	1.58	0.44	0.21	0.20	0.09	0.13	
10	0.04	0.04	0.90	1.00	0.95	11.27	1.65	0.46	0.21	0.20	0.09	0.10	
11	0.04	0.03	0.95	1.10	0.74	15.60	1.93	0.46	0.18	0.20	0.09	0.09	
12	0.04	0.03	0.95	0.95	0.74	12.31	3.55	0.48	0.20	0.09	0.09	0.11	
13	0.04	0.03	1.00	0.80	0.59	8.60	6.18	0.50	0.18	0.09	0.09	0.11	
14	0.04	0.03	4.24	1.00	0.59	8.80	2.60	0.44	0.20	0.09	0.09	0.11	
15	0.04	0.03	2.90	0.74	2.10	4.66	1.93	0.42	0.18	0.09	0.09	0.13	
16	0.04	0.02	3.55	0.85	20.50	3.66	2.00	0.36	0.18	0.09	0.09	0.13	
17	0.04	0.02	2.50	0.68	31.79	3.77	1.79	0.38	0.18	0.09	0.09	0.13	
18	0.04	0.03	2.10	0.62	16.16	3.77	1.44	0.38	0.18	0.09	0.09	0.12	
19	0.04	0.03	1.00	0.53	7.40	2.70	1.44	0.34	0.18	0.09	0.09	0.12	
20	0.04	0.03	0.80	0.59	7.60	3.66	1.25	0.34	0.18	0.10	0.09	0.12	
21	0.04	0.03	0.77	0.50	8.40	2.90	1.25	0.34	0.18	0.10	0.09	0.10	
22	0.04	0.03	0.62	0.59	4.80	2.40	1.58	0.36	0.18	0.18	0.07	0.09	
23	0.05	0.03	0.62	1.00	6.35	2.40	1.58	0.30	0.17	0.18	0.07	0.13	
24	0.05	0.03	0.50	1.58	2.80	3.00	1.51	0.27	0.13	0.18	0.07	0.12	
25	0.05	0.03	0.50	1.44	2.60	4.52	1.20	0.27	0.12	0.18	0.07	0.12	
26	0.06	0.03	0.46	2.40	2.60	3.22	0.53	0.27	0.11	0.15	0.07	0.12	
27	0.06	0.03	0.38	2.80	2.30	2.40	0.53	0.27	0.11	0.15	0.07	0.12	
28	0.07	0.03	0.40	2.80	2.90	4.94	0.68	0.27	0.10	0.14	0.07	0.10	
29	0.07	0.03	0.38	1.65	3.11	9.00	0.68	0.24	0.11	0.12		0.12	
30	0.07	0.04	0.44	1.79	2.90	5.22	0.62	0.26	0.11	0.11		0.12	
31		0.04		4.80	3.11		0.77		0.10	0.09		0.12	
Total	1.27	1.36	29.66	34.52	144.27	150.80	56.41	14.69	5.50	3.96	2.41	3.51	448.36 CMSDAY
Mean	0.04	0.04	0.99	1.11	4.65	5.03	1.82	0.49	0.18	0.13	0.09	0.11	1.23 CMS
Max	0.07	0.08	4.24	4.80	31.79	16.16	6.18	1.15	0.26	0.20	0.10	0.14	31.79 CMS
Min	0.02	0.02	0.03	0.40	0.59	1.44	0.53	0.24	0.10	0.09	0.07	0.08	0.02 CMS
Runoff	0.11	0.12	2.56	2.98	12.46	13.03	4.87	1.27	0.48	0.34	0.21	0.30	38.74 MCM
Momentary Peak	49.87	CMS. at 172.73 m. (MSL.) at 17.00 Hours , on Aug 16 , 2021											
Runoff Yield	3.02	Liters/Second/Square KM. Momentary Peak Yield 122.53 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Tha Tako , Phichit (Y.42)

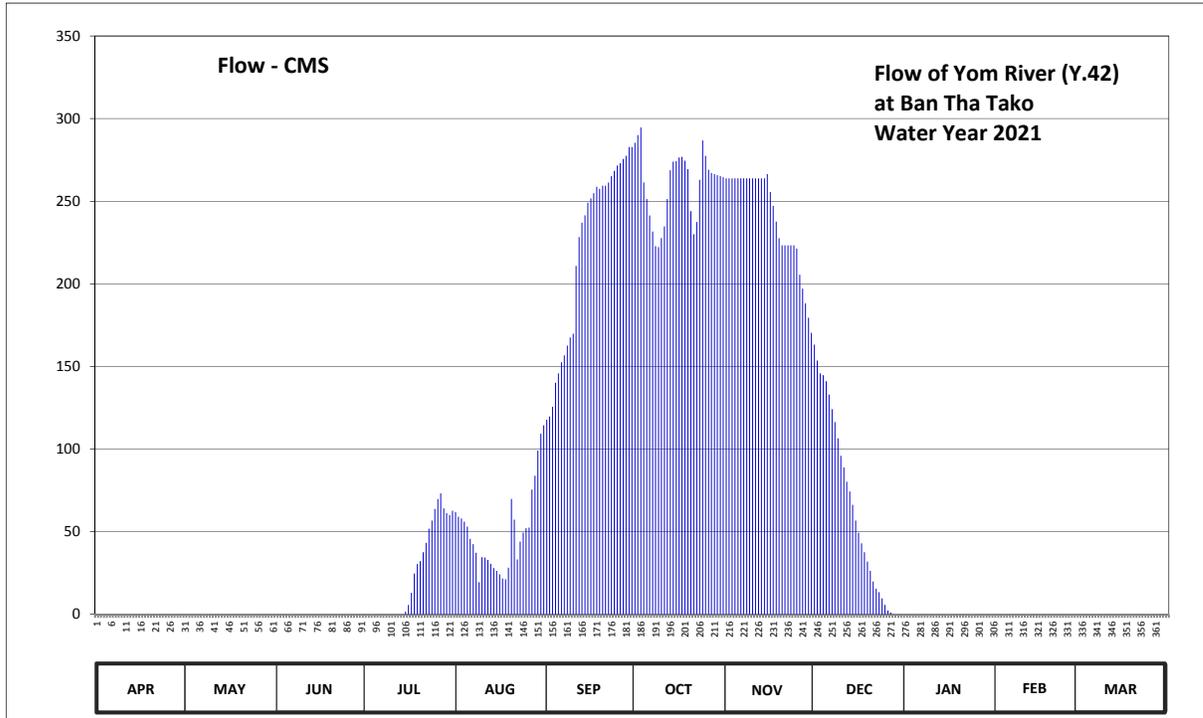
Lat 16 - 18 - 39 N Long 100 - 16 - 18 E

Location : on left bank at Ban Tha Tako

	Ban	Tha Tako	Amphoe	Pho Prathap Chang	Changwat	Phichit
<b>Drainage Area</b>	22,808	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage observers house.				<b>Elevation</b>	+8.000 m. (A.D.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2011 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2011 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2011 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good.Stage-discharge relation defined by 13 discharge measurements made in 2021.					

## Gage Height in Meter (A.D.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.09	0.09	0.08	3.51	4.84	7.72	7.39	5.73	0.44	0.17	0.85	
2	0.09	0.09	0.09	0.08	3.43	4.88	7.79	7.39	5.55	0.24	0.17	0.80	
3	0.09	0.09	0.09	0.08	3.40	5.00	7.86	7.39	5.40	0.21	0.17	0.80	
4	0.09	0.09	0.09	0.08	3.34	5.29	7.92	7.39	5.38	0.21	0.17	0.80	
5	0.09	0.09	0.09	0.08	3.25	5.40	7.98	7.39	5.31	0.21	0.17	0.75	
6	0.09	0.09	0.09	0.08	3.00	5.53	8.05	7.39	5.15	0.21	0.17	0.75	
7	0.09	0.09	0.09	0.08	2.88	5.61	8.14	7.39	4.97	0.21	0.17	0.75	
8	0.09	0.09	0.09	0.08	2.69	5.72	8.27	7.39	4.81	0.21	0.17	0.75	
9	0.09	0.09	0.09	0.08	1.96	5.81	8.28	7.39	4.60	0.21	0.17	0.60	
10	0.09	0.09	0.09	0.08	2.59	5.85	8.19	7.39	4.37	0.21	0.17	0.49	
11	0.09	0.09	0.09	0.08	2.58	6.55	8.10	7.39	4.21	0.21	0.17	0.39	
12	0.09	0.09	0.09	0.08	2.53	6.83	7.98	7.39	4.00	0.21	0.17	0.39	
13	0.09	0.09	0.09	0.08	2.44	6.97	7.84	7.39	3.85	0.21	0.17	0.39	
14	0.09	0.09	0.09	0.09	2.33	7.04	7.74	7.39	3.63	0.21	0.17	0.39	
15	0.09	0.09	0.09	1.01	2.26	7.16	7.73	7.43	3.36	0.21	0.17	0.39	
16	0.09	0.09	0.09	1.25	2.17	7.20	7.63	7.26	3.13	0.21	0.17	0.39	
17	0.09	0.09	0.09	1.65	2.06	7.25	7.60	7.13	2.90	0.21	0.17	0.39	
18	0.09	0.09	0.09	2.19	2.04	7.31	7.56	6.98	2.70	0.21	0.17	0.39	
19	0.09	0.09	0.09	2.43	2.34	7.29	7.83	6.82	2.49	0.21	0.17	0.39	
20	0.09	0.09	0.09	2.50	3.73	7.32	8.03	6.75	2.26	0.17	0.17	0.39	
21	0.09	0.09	0.09	2.70	3.38	7.32	8.16	6.75	1.98	0.17	0.17	0.35	
22	0.09	0.09	0.09	2.91	2.54	7.35	8.08	6.75	1.78	0.17	0.17	0.31	
23	0.09	0.09	0.09	3.21	2.94	7.41	7.91	6.75	1.67	0.17	0.17	0.30	
24	0.09	0.09	0.09	3.36	3.13	7.46	7.74	6.75	1.47	0.17	0.17	0.30	
25	0.09	0.09	0.09	3.56	3.22	7.51	7.60	6.72	1.25	0.17	0.17	0.30	
26	0.09	0.09	0.09	3.73	3.23	7.53	7.47	6.46	1.05	0.17	0.17	0.30	
27	0.09	0.09	0.09	3.82	3.88	7.57	7.44	6.32	0.97	0.17	0.17	0.30	
28	0.09	0.09	0.09	3.57	4.09	7.60	7.43	6.17	0.90	0.17	0.17	0.30	
29	0.09	0.09	0.09	3.49	4.44	7.68	7.42	6.02	0.72	0.17	0.17	0.30	
30	0.09	0.09	0.09	3.46	4.66	7.68	7.41	5.86	0.54	0.17	0.17	0.30	
31		0.09		3.53	4.77		7.40		0.51	0.17		0.30	
Mean	0.09	0.09	0.09	1.60	3.06	6.67	7.82	7.01	3.12	0.20	0.17	0.47	
Max	0.09	0.09	0.09	3.82	4.77	7.68	8.28	7.43	5.73	0.44	0.17	0.85	8.28
Min	0.09	0.09	0.09	0.08	1.96	4.84	7.40	5.86	0.51	0.17	0.17	0.30	0.08
Annual Max Momentary Gage Height	8.32			m. (A.D.) ,			at 18.00 Hours ,						on Oct 8, 2021
Zero Gage at Bottom Elevation	0.00			m. (A.D.) ,		River Bed	0.71	m. (A.D.)					
Left Bank Elevation		8.82		m. (A.D.) ,									
Right Bank Elevation		9.38		m. (A.D.) ,		Drainage Are	22,808	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	61.96	117.76	285.42	263.86	163.22	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	59.08	119.72	290.04	263.86	153.60	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	58.00	125.60	294.66	263.86	145.80	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	56.05	140.08	261.28	263.86	144.76	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	53.13	145.80	251.32	263.86	141.12	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	45.70	152.56	241.40	263.86	132.95	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	42.46	156.74	231.64	263.86	124.13	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	37.33	162.68	222.84	263.86	116.29	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	19.42	167.57	222.26	263.86	106.50	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	34.63	169.83	227.69	263.86	95.90	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	34.36	210.90	234.80	263.86	88.94	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	33.01	228.28	251.32	263.86	80.20	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	30.70	237.03	268.74	263.86	74.35	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	27.95	241.46	273.90	263.86	66.28	0.00	0.00	0.00	
15	0.00	0.00	0.00	1.67	26.28	249.14	274.30	266.45	56.70	0.00	0.00	0.00	
16	0.00	0.00	0.00	5.68	24.21	251.70	276.41	255.54	49.47	0.00	0.00	0.00	
17	0.00	0.00	0.00	13.05	21.68	254.90	276.80	247.22	43.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	24.67	21.22	258.74	274.48	237.65	37.60	0.00	0.00	0.00	
19	0.00	0.00	0.00	30.45	28.20	257.46	269.43	227.65	31.95	0.00	0.00	0.00	
20	0.00	0.00	0.00	32.20	69.88	259.38	244.04	223.28	26.28	0.00	0.00	0.00	
21	0.00	0.00	0.00	37.60	57.35	259.38	230.06	223.28	19.86	0.00	0.00	0.00	
22	0.00	0.00	0.00	43.27	33.28	261.30	237.44	223.28	15.52	0.00	0.00	0.00	
23	0.00	0.00	0.00	51.83	44.08	265.15	262.94	223.28	13.43	0.00	0.00	0.00	
24	0.00	0.00	0.00	56.70	49.47	268.40	286.74	223.28	9.63	0.00	0.00	0.00	
25	0.00	0.00	0.00	63.76	52.15	271.65	277.50	221.40	5.68	0.00	0.00	0.00	
26	0.00	0.00	0.00	69.88	52.48	272.95	269.05	205.50	2.33	0.00	0.00	0.00	
27	0.00	0.00	0.00	73.18	75.52	275.55	267.10	197.10	1.05	0.00	0.00	0.00	
28	0.00	0.00	0.00	64.12	83.94	277.50	266.45	188.16	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	61.24	99.06	282.78	265.80	179.46	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	60.16	109.29	282.78	265.15	170.39	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	62.68	114.41		264.50		0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	752.14	1556.28	6624.77	8065.50	7206.96	1946.54	0.00	0.00	0.00	26152.19 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	24.26	50.20	220.83	260.18	240.23	62.79	0.00	0.00	0.00	71.65 CMS
<b>Max</b>	0.00	0.00	0.00	73.18	114.41	282.78	294.66	266.45	163.22	0.00	0.00	0.00	294.66 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	19.42	117.76	222.26	170.39	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	64.98	134.46	572.38	662.68	622.68	168.18	0.00	0.00	0.00	2259.55 MCM
<b>Momentary Peak</b>	219.88	CMS. at 8.32 m. (A.D.) at 18.00 Hours , on Oct 8, 2021											
<b>Runoff Yield</b>	3.14	Liters/Second/Square KM. Momentary Peak Yield 9.64 Liters/Second/Square KM.											

## WATER YEAR : 2021

## YOM RIVER BASIN

## Yom River at Ban Bang Rakam , Phitsanulok (Y.64)

Lat 16 - 45 - 44 N Long 100 - 07 - 16 E

Location : on right bank at Bang Rakam

	<b>Ban</b>	Bang Rakam	<b>Amphoe</b>	Bang Rakam	<b>Changwat</b>	Phitsanulok
<b>Drainage Area</b>	20,822	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+32.514 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage observers house.				<b>Elevation</b>	+43.630 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2017 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2017 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2017 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +38.860 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records very good.Stage-discharge relation defined by 18 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.48	31.61	31.69	31.93	34.84	36.81	40.32	40.70	36.44	33.77	31.16	31.18	
2	31.48	31.61	31.69	31.95	34.55	36.88	40.56	40.70	35.99	33.60	31.26	31.18	
3	31.49	31.59	31.69	31.97	33.78	36.92	40.84	40.68	35.56	33.31	31.16	31.18	
4	31.49	31.59	31.68	32.01	33.37	36.94	41.04	40.65	35.07	33.11	31.19	31.18	
5	31.51	31.58	31.68	32.03	33.26	36.97	41.27	40.61	34.80	33.06	31.19	31.16	
6	31.51	31.59	31.68	32.07	33.20	36.86	41.46	40.56	34.85	32.99	31.19	31.16	
7	31.51	31.60	31.68	32.11	33.12	36.58	41.56	40.50	34.90	32.65	31.19	31.16	
8	31.51	31.60	31.67	32.15	33.05	36.42	41.56	40.43	34.92	32.57	31.18	31.19	
9	31.51	31.62	31.67	32.20	33.02	36.69	41.50	40.35	34.89	32.48	31.18	31.19	
10	31.51	31.62	31.67	32.27	33.00	37.43	41.41	40.25	34.84	32.43	31.18	31.19	
11	31.53	31.65	31.66	32.39	32.98	37.68	41.34	40.14	35.04	32.36	31.18	31.20	
12	31.53	31.68	31.66	32.46	32.94	37.86	41.36	40.01	35.04	32.25	31.19	31.20	
13	31.53	31.69	31.66	32.58	32.87	37.90	41.30	39.86	34.83	32.17	31.19	31.20	
14	31.55	31.69	31.66	32.60	32.80	37.75	41.21	39.71	34.74	32.13	31.19	31.20	
15	31.55	31.70	31.65	32.73	32.75	37.86	41.12	39.54	34.72	32.07	31.17	31.19	
16	31.55	31.70	31.65	32.85	32.73	38.01	41.03	39.38	34.71	31.85	31.17	31.19	
17	31.56	31.70	31.65	32.89	33.82	38.08	40.95	39.20	34.71	31.76	31.17	31.19	
18	31.56	31.71	31.64	33.08	35.09	38.28	40.87	39.00	34.71	31.71	31.17	31.19	
19	31.57	31.71	31.64	33.21	35.44	38.40	40.83	38.80	34.71	31.65	31.17	31.19	
20	31.57	31.71	31.64	34.67	35.70	38.56	40.77	38.61	34.70	31.60	31.17	31.19	
21	31.57	31.71	31.63	34.77	35.73	38.66	40.71	38.47	34.69	31.57	31.19	31.19	
22	31.58	31.73	31.63	34.79	35.52	38.74	40.71	38.33	34.69	31.53	31.19	31.20	
23	31.58	31.73	31.63	34.88	34.99	38.81	40.78	38.16	34.69	31.19	31.19	31.20	
24	31.58	31.74	31.63	34.93	34.72	38.93	40.74	37.95	34.69	31.26	31.19	31.20	
25	31.59	31.74	31.62	35.26	34.71	39.08	40.69	37.95	34.69	31.27	31.19	31.20	
26	31.59	31.76	31.62	35.36	34.78	39.23	40.65	37.77	34.69	31.23	31.18	31.20	
27	31.61	31.76	31.78	35.23	34.78	39.41	40.60	37.58	34.68	31.23	31.18	31.20	
28	31.61	31.73	31.78	34.95	34.69	39.63	40.59	37.21	33.99	31.23	31.18	31.24	
29	31.61	31.71	31.79	35.03	34.93	39.89	40.62	36.77	33.99	31.23		31.24	
30	31.61	31.69	31.79	35.18	35.92	40.12	40.66	36.51	33.99	31.23		31.24	
31		31.70		35.17	36.62		40.69		33.99	31.19		31.24	
Mean	31.55	31.68	31.67	33.41	34.18	38.05	40.96	39.21	34.80	32.05	31.18	31.20	
Max	31.61	31.76	31.79	35.36	36.62	40.12	41.56	40.70	36.44	33.77	31.26	31.24	41.56
Min	31.48	31.58	31.62	31.93	32.73	36.42	40.32	36.51	33.99	31.19	31.16	31.16	31.16
Annual Max Momentary Gage Height	41.57		m. (MSL.) ,				at 14.00 Hours ,						
Zero Gage at Bottom Elevation	32.51		m. (MSL.) ,			River Bed	30.44		m. (MSL.)				
Left Bank Elevation		40.18		m. (MSL.) ,									
Right Bank Elevation		38.85		m. (MSL.) ,		Drainage Are	20,822		Square Kilometers				



## WATER YEAR : 2021

## YOM RIVER BASIN

## Nam Pi at Ban Phi Tai , Nan (Y.65)

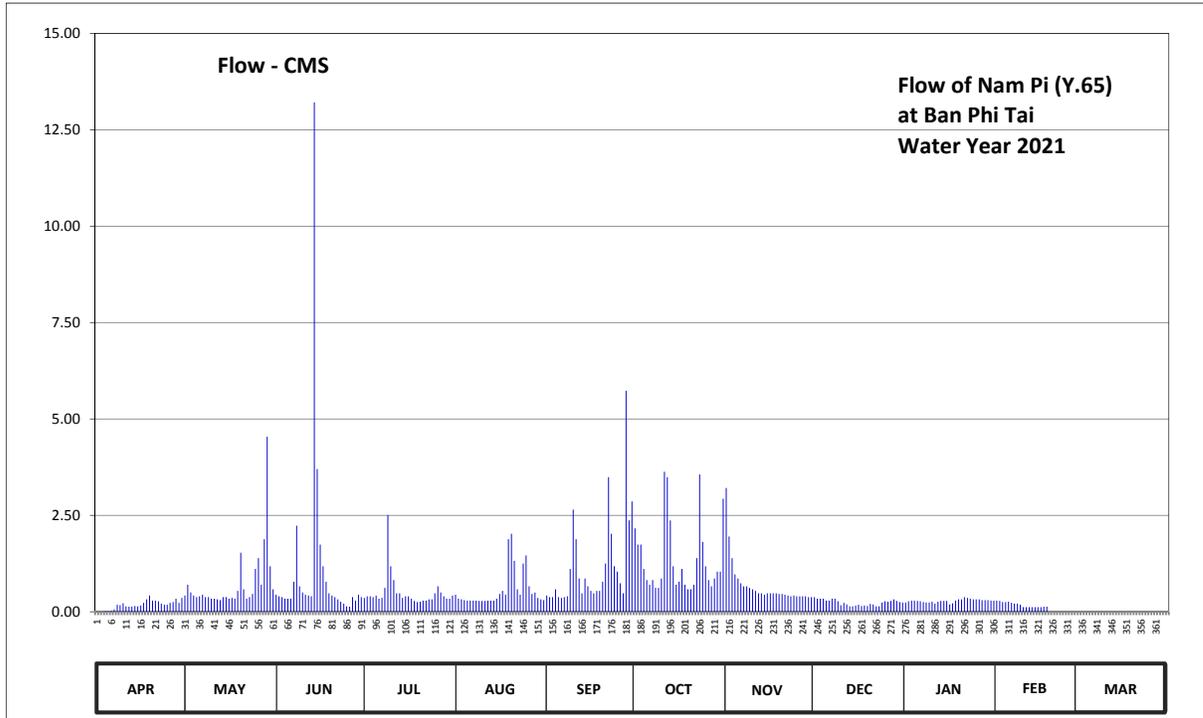
Lat 18 - 52 - 38 N Long 100 - 26 - 20 E

Location : on right bank at the bridge on road.

	<b>Ban Phi Tai</b>	<b>Amphoe Ban Luang</b>	<b>Changwat Nan</b>
<b>Drainage Area</b>	129 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+343.540 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.		<b>Elevation</b> +349.644 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2018 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The islet situated of the gage site. Stage-discharge relation defined by 31 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	343.67	344.16	344.17	344.13	344.17	344.16	344.48	344.63	344.14	344.03	344.09	344.09	
2	343.67	344.25	344.15	344.15	344.12	344.14	344.42	344.45	344.12	344.06	344.07	344.04	
3	343.67	344.20	344.14	344.15	344.11	344.14	344.42	344.37	344.12	344.09	344.04	343.94	
4	343.69	344.16	344.12	344.14	344.10	344.22	344.33	344.31	344.12	344.09	344.04	344.05	
5	343.69	344.14	344.12	344.16	344.09	344.14	344.28	344.29	344.09	344.08	344.05	344.07	
6	343.74	344.15	344.12	344.12	344.09	344.13	344.25	344.26	344.09	344.06	344.01	344.07	
7	343.81	344.17	344.27	344.13	344.09	344.14	344.28	344.24	344.12	344.04	343.99	344.07	
8	343.95	344.14	344.49	344.23	344.09	344.15	344.23	344.24	344.12	344.03	343.99	344.27	
9	343.94	344.14	344.24	344.53	344.08	344.33	344.23	344.23	344.06	344.03	343.96	344.17	
10	344.00	344.12	344.20	344.34	344.08	344.55	344.29	344.22	343.94	344.05	343.88	344.11	
11	343.91	344.12	344.17	344.28	344.08	344.44	344.69	344.21	344.01	343.99	343.88	344.08	
12	343.89	344.11	344.16	344.19	344.09	344.29	344.67	344.19	343.97	344.05	343.88	344.09	
13	343.89	344.10	344.15	344.19	344.09	344.19	344.51	344.19	343.91	344.07	343.88	344.09	
14	343.92	344.14	345.81	344.13	344.09	344.29	344.34	344.17	343.91	344.07	343.88	344.09	
15	343.91	344.14	344.70	344.15	344.12	344.24	344.25	344.19	343.93	344.07	343.88	344.09	
16	343.93	344.12	344.42	344.15	344.18	344.21	344.27	344.19	343.95	343.97	343.88	344.09	
17	344.01	344.13	344.34	344.12	344.21	344.19	344.33	344.19	343.92	344.00	343.89	344.09	
18	344.11	344.12	344.27	344.07	344.17	344.21	344.25	344.19	343.93	344.09	343.89	344.11	
19	344.16	344.21	344.19	344.04	344.44	344.21	344.22	344.18	343.92	344.11	343.92	344.11	
20	344.09	344.39	344.16	344.05	344.46	344.27	344.22	344.18	343.98	344.11	344.02	344.10	
21	344.09	344.22	344.14	344.09	344.36	344.35	344.25	344.17	343.97	344.14	344.11	344.10	
22	344.06	344.12	344.11	344.09	344.22	344.67	344.37	344.16	343.91	344.13	344.09	344.10	
23	343.99	344.14	344.05	344.11	344.17	344.46	344.68	344.15	343.91	344.12	344.09	344.10	
24	343.96	344.18	343.99	344.11	344.35	344.34	344.43	344.16	344.03	344.11	344.08	344.12	
25	343.96	344.33	343.91	344.19	344.38	344.32	344.34	344.15	344.06	344.11	344.08	344.18	
26	344.01	344.37	343.89	344.24	344.24	344.26	344.28	344.15	344.05	344.11	344.08	344.14	
27	344.04	344.25	344.14	344.20	344.18	344.19	344.24	344.15	344.08	344.10	344.08	344.12	
28	344.12	344.44	344.09	344.15	344.20	344.99	344.29	344.15	344.11	344.10	344.09	344.11	
29	344.01	344.82	344.17	344.12	344.13	344.51	344.32	344.14	344.08	344.10	344.09	344.14	
30	344.13	344.34	344.14	344.12	344.11	344.58	344.32	344.14	344.04	344.09	344.09	344.33	
31		344.22		344.16	344.10		344.59		344.03	344.09		344.29	
Mean	343.93	344.21	344.23	344.16	344.17	344.31	344.36	344.22	344.02	344.07	343.99	344.11	
Max	344.16	344.82	345.81	344.53	344.46	344.99	344.69	344.63	344.14	344.14	344.11	344.33	345.81
Min	343.67	344.10	343.89	344.04	344.08	344.13	344.22	344.14	343.91	343.97	343.88	343.94	343.67
Annual Max Momentary Gage Height	346.23		m. (MSL.) ,				at 06.00 Hours ,						on Jun 14, 2021
Zero Gage at Bottom Elevation	343.54		m. (MSL.) ,				River Bed	342.99		m. (MSL.)			
Left Bank Elevation		349.64		m. (MSL.) ,									
Right Bank Elevation		349.65		m. (MSL.) ,			Drainage Are	129		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.42	0.44	0.36	0.44	0.42	2.16	3.21	0.38	0.24	0.29	0.00	
2	0.01	0.70	0.40	0.40	0.34	0.38	1.74	1.95	0.34	0.27	0.28	0.00	
3	0.01	0.50	0.38	0.40	0.32	0.38	1.74	1.39	0.34	0.29	0.25	0.00	
4	0.02	0.42	0.34	0.38	0.30	0.58	1.11	0.97	0.34	0.29	0.25	0.00	
5	0.02	0.38	0.34	0.42	0.29	0.38	0.82	0.86	0.29	0.28	0.26	0.00	
6	0.03	0.40	0.34	0.34	0.29	0.36	0.70	0.74	0.29	0.27	0.23	0.00	
7	0.06	0.44	0.78	0.36	0.29	0.38	0.82	0.66	0.34	0.25	0.21	0.00	
8	0.18	0.38	2.23	0.62	0.29	0.40	0.62	0.66	0.34	0.24	0.21	0.00	
9	0.17	0.38	0.66	2.51	0.28	1.11	0.62	0.62	0.27	0.24	0.18	0.00	
10	0.22	0.34	0.50	1.18	0.28	2.65	0.86	0.58	0.17	0.26	0.12	0.00	
11	0.14	0.34	0.44	0.82	0.28	1.88	3.63	0.54	0.23	0.21	0.12	0.00	
12	0.13	0.32	0.42	0.48	0.29	0.86	3.49	0.48	0.19	0.26	0.12	0.00	
13	0.13	0.30	0.40	0.48	0.29	0.48	2.37	0.48	0.14	0.28	0.12	0.00	
14	0.15	0.38	13.21	0.36	0.29	0.86	1.18	0.44	0.14	0.28	0.12	0.00	
15	0.14	0.38	3.70	0.40	0.34	0.66	0.70	0.48	0.16	0.28	0.12	0.00	
16	0.16	0.34	1.74	0.40	0.46	0.54	0.78	0.48	0.18	0.19	0.12	0.00	
17	0.23	0.36	1.18	0.34	0.54	0.48	1.11	0.48	0.15	0.22	0.13	0.00	
18	0.32	0.34	0.78	0.28	0.44	0.54	0.70	0.48	0.16	0.29	0.13	0.00	
19	0.42	0.54	0.48	0.25	1.88	0.54	0.58	0.46	0.15	0.32	0.00	0.00	
20	0.29	1.53	0.42	0.26	2.02	0.78	0.58	0.46	0.20	0.32	0.00	0.00	
21	0.29	0.58	0.38	0.29	1.32	1.25	0.70	0.44	0.19	0.38	0.00	0.00	
22	0.27	0.34	0.32	0.29	0.58	3.49	1.39	0.42	0.14	0.36	0.00	0.00	
23	0.21	0.38	0.26	0.32	0.44	2.02	3.56	0.40	0.14	0.34	0.00	0.00	
24	0.18	0.46	0.21	0.32	1.25	1.18	1.81	0.42	0.24	0.32	0.00	0.00	
25	0.18	1.11	0.14	0.48	1.46	1.04	1.18	0.40	0.27	0.32	0.00	0.00	
26	0.23	1.39	0.13	0.66	0.66	0.74	0.82	0.40	0.26	0.32	0.00	0.00	
27	0.25	0.70	0.38	0.50	0.46	0.48	0.66	0.40	0.28	0.30	0.00	0.00	
28	0.34	1.88	0.29	0.40	0.50	5.73	0.86	0.40	0.32	0.30	0.00	0.00	
29	0.23	4.54	0.44	0.34	0.36	2.37	1.04	0.38	0.28	0.30	0.00	0.00	
30	0.36	1.18	0.38	0.34	0.32	2.86	1.04	0.38	0.25	0.29	0.00	0.00	
31		0.58		0.42	0.30		2.93		0.24	0.29		0.00	
<b>Total</b>	5.38	22.33	32.11	15.40	17.60	35.82	42.30	20.46	7.41	8.80	3.26	0.00	210.87 CMSDAY
<b>Mean</b>	0.18	0.72	1.07	0.50	0.57	1.19	1.36	0.68	0.24	0.28	0.12	0.00	0.58 CMS
<b>Max</b>	0.42	4.54	13.21	2.51	2.02	5.73	3.63	3.21	0.38	0.38	0.29	0.00	13.21 CMS
<b>Min</b>	0.01	0.30	0.13	0.25	0.28	0.36	0.58	0.38	0.14	0.19	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.46	1.93	2.77	1.33	1.52	3.09	3.65	1.77	0.64	0.76	0.28	0.00	18.22 MCM
<b>Momentary Peak</b>	17.63 CMS. at 346.23 m. (MSL.) at 06.00 Hours , on Jun 14, 2021												
<b>Runoff Yield</b>	4.48 Liters/Second/Square KM.			Momentary Peak Yield 136.67 Liters/Second/Square KM.									

## WATER YEAR : 2021

## NAN RIVER BASIN

Nan River at Forestry Office , Nan (N.1)

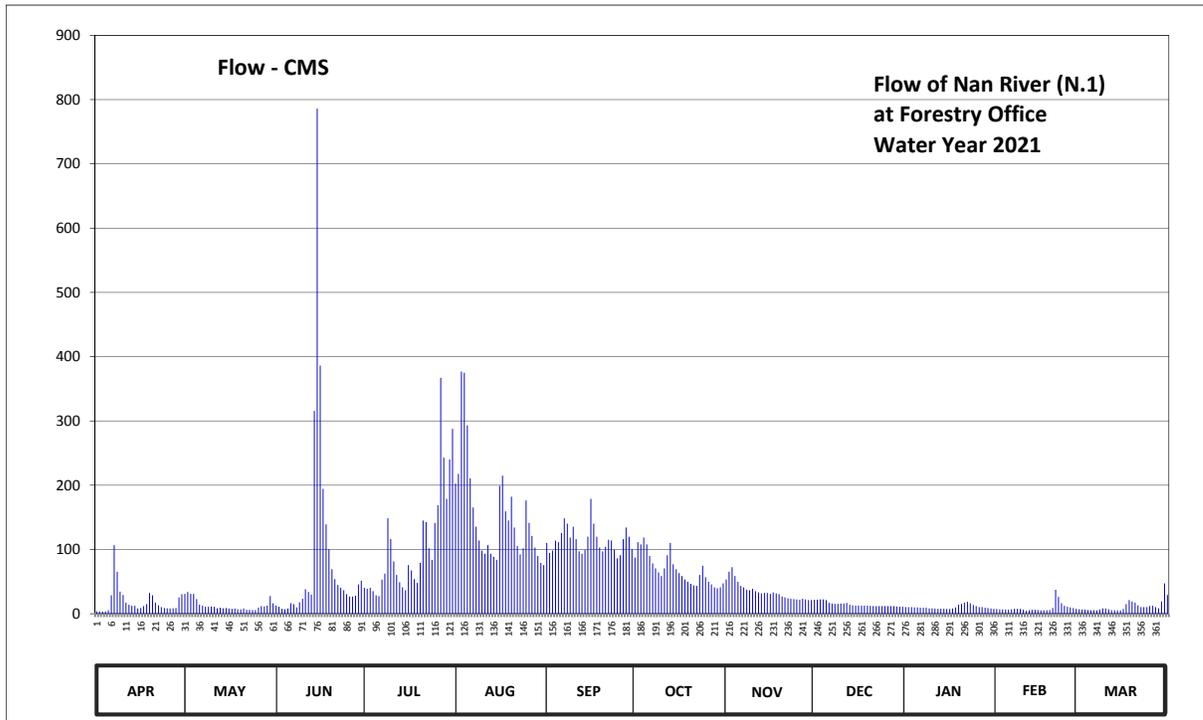
Lat 18 - 46 - 30 N Long 100 - 46 - 47 E

Location : on right bank in front of Forestry Office.

	<b>Ban</b> Forestry Office	<b>Amphoe</b> Mueang	<b>Changwat</b> Nan
<b>Drainage Area</b>	4,570 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+192.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On west side of automatic gage building.	<b>Elevation</b>	+199.868 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1922 - 1956 , 1962 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1954 - 1956 , 1979 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1954 - 1956 , 1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.85	192.40	192.07	192.53	193.98	193.21	193.02	192.69	192.24	192.02	191.95	191.94	
2	191.84	192.44	192.03	192.51	194.09	193.08	193.22	192.82	192.24	192.02	191.93	191.93	
3	191.83	192.40	191.96	192.53	195.20	193.11	193.19	192.89	192.25	192.02	191.93	191.93	
4	191.84	192.40	191.94	192.46	195.19	193.24	193.28	192.75	192.25	192.01	191.93	191.91	
5	191.90	192.26	191.97	192.36	194.63	193.22	193.19	192.65	192.23	192.01	191.92	191.90	
6	192.36	192.10	192.14	192.34	194.04	193.34	193.04	192.57	192.15	192.00	191.94	191.90	
7	193.18	192.07	192.11	192.69	193.67	193.53	192.94	192.54	192.13	192.00	191.96	191.89	
8	192.82	192.03	192.01	192.79	193.42	193.46	192.87	192.49	192.12	192.00	191.96	191.93	
9	192.45	192.03	192.17	193.53	193.24	193.28	192.81	192.48	192.12	191.98	191.95	191.98	
10	192.37	192.04	192.27	193.26	193.11	193.42	192.75	192.51	192.13	191.98	191.92	191.97	
11	192.16	192.03	192.50	192.97	193.07	193.26	192.87	192.46	192.13	191.97	191.86	191.94	
12	192.10	191.98	192.44	192.77	193.18	193.10	193.05	192.43	192.15	191.96	191.90	191.91	
13	192.06	192.00	192.38	192.64	193.07	193.07	193.21	192.41	192.10	191.96	191.92	191.90	
14	192.06	191.98	194.79	192.54	193.03	193.12	192.93	192.42	192.08	191.96	191.92	191.89	
15	191.97	191.99	197.65	192.48	192.99	193.29	192.86	192.42	192.07	191.95	191.91	191.89	
16	191.99	191.97	195.26	192.92	193.95	193.78	192.80	192.40	192.07	191.95	191.89	191.95	
17	192.05	191.96	193.91	192.84	194.07	193.46	192.75	192.43	192.07	191.97	191.90	192.11	
18	192.11	191.97	193.45	192.70	193.62	193.29	192.69	192.41	192.07	192.01	191.90	192.23	
19	192.42	191.94	193.13	192.63	193.50	193.15	192.65	192.39	192.07	192.10	191.91	192.19	
20	192.36	191.94	192.86	192.95	193.81	193.10	192.61	192.33	192.06	192.12	191.99	192.16	
21	192.16	191.97	192.70	193.50	193.41	193.16	192.58	192.31	192.05	192.16	192.49	192.08	
22	192.08	191.92	192.59	193.48	193.17	193.25	192.57	192.28	192.05	192.18	192.32	192.02	
23	192.02	191.92	192.53	193.14	193.06	193.24	192.77	192.27	192.05	192.14	192.14	192.02	
24	191.99	191.91	192.48	192.99	193.14	193.12	192.91	192.26	192.05	192.09	192.06	192.02	
25	191.98	191.91	192.39	193.47	193.76	193.01	192.73	192.25	192.05	192.05	192.03	192.05	
26	191.97	192.00	192.33	193.70	193.47	193.05	192.65	192.24	192.05	192.02	192.01	192.06	
27	191.98	192.05	192.33	195.14	193.30	193.26	192.60	192.27	192.05	192.02	191.99	192.02	
28	191.99	192.04	192.35	194.27	193.15	193.41	192.54	192.25	192.05	192.00	191.96	191.98	
29	192.31	192.07	192.60	193.78	193.04	193.29	192.52	192.23	192.04	191.99		192.19	
30	192.39	192.34	192.67	194.25	192.95	193.13	192.54	192.23	192.03	191.97		192.62	
31		192.14		194.59	192.92		192.62		192.03	191.96		192.37	
Mean	192.15	192.07	192.80	193.12	193.56	193.25	192.83	192.44	192.10	192.02	191.98	192.03	
Max	193.18	192.44	197.65	195.14	195.20	193.78	193.28	192.89	192.25	192.18	192.49	192.62	197.65
Min	191.83	191.91	191.94	192.34	192.92	193.01	192.52	192.23	192.03	191.95	191.86	191.89	191.83
Annual Max Momentary Gage Height	197.79		m. (MSL.) ,			at 13.00 Hours ,							
Zero Gage at Bottom Elevation	192.20		m. (MSL.) ,			River Bed	188.73	m. (MSL.)					
Left Bank Elevation	204.23		m. (MSL.) ,										
Right Bank Elevation	204.15		m. (MSL.) ,			Drainage Are	4,570	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.05	31.00	12.73	40.28	202.60	110.20	87.40	53.16	21.70	10.28	7.35	6.96		
2	3.78	33.80	10.77	38.76	217.60	94.60	111.40	65.34	21.70	10.28	6.57	6.57		
3	3.51	31.00	7.74	40.28	376.67	98.20	107.80	72.48	22.25	10.28	6.57	6.57		
4	3.78	31.00	6.96	35.20	375.08	113.80	118.60	58.65	22.25	9.79	6.57	5.79		
5	5.40	22.80	8.13	28.60	293.20	111.40	107.80	49.80	21.15	9.79	6.18	5.40		
6	28.60	14.20	16.32	27.40	210.60	125.80	89.80	43.32	16.85	9.30	6.96	5.40		
7	106.60	12.73	14.73	53.16	165.40	148.60	78.10	41.04	15.79	9.30	7.74	5.13		
8	65.34	10.77	9.79	62.37	135.40	140.20	70.44	37.30	15.26	9.30	7.74	6.57		
9	34.50	10.77	17.91	148.60	113.80	118.60	64.32	36.60	15.26	8.52	7.35	8.52		
10	29.20	11.26	23.35	116.20	98.20	135.40	58.65	38.76	15.79	8.52	6.18	8.13		
11	17.38	10.77	38.00	81.55	93.40	116.20	70.44	35.20	15.79	8.13	4.32	6.96		
12	14.20	8.52	33.80	60.51	106.60	97.00	91.00	33.10	16.85	7.74	5.40	5.79		
13	12.24	9.30	29.80	48.96	93.40	93.40	110.20	31.70	14.20	7.74	6.18	5.40		
14	12.24	8.52	315.60	41.04	88.60	99.40	76.95	32.40	13.22	7.74	6.18	5.13		
15	8.13	8.91	786.00	36.60	83.85	119.80	69.42	32.40	12.73	7.35	5.79	5.13		
16	8.91	8.13	386.17	75.80	199.00	178.60	63.30	31.00	12.73	7.35	5.13	7.35		
17	11.75	7.74	194.20	67.38	214.80	140.20	58.65	33.10	12.73	8.13	5.40	14.73		
18	14.73	8.13	139.00	54.00	159.40	119.80	53.16	31.70	12.73	9.79	5.40	21.15		
19	32.40	6.96	100.60	48.12	145.00	103.00	49.80	30.40	12.73	14.20	5.79	18.97		
20	28.60	6.96	69.42	79.25	182.20	97.00	46.44	26.80	12.24	15.26	8.91	17.38		
21	17.38	8.13	54.00	145.00	134.20	104.20	44.08	25.60	11.75	17.38	37.30	13.22		
22	13.22	6.18	44.84	142.60	105.40	115.00	43.32	23.90	11.75	18.44	26.20	10.28		
23	10.28	6.18	40.28	101.80	92.20	113.80	60.51	23.35	11.75	16.32	16.32	10.28		
24	8.91	5.79	36.60	83.85	101.80	99.40	74.65	22.80	11.75	13.71	12.24	10.28		
25	8.52	5.79	30.40	141.40	176.20	86.20	56.79	22.25	11.75	11.75	10.77	11.75		
26	8.13	9.30	26.80	169.00	141.40	91.00	49.80	21.70	11.75	10.28	9.79	12.24		
27	8.52	11.75	26.80	367.17	121.00	116.20	45.60	23.35	11.75	10.28	8.91	10.28		
28	8.91	11.26	28.00	242.80	103.00	134.20	41.04	22.25	11.75	9.30	7.74	8.52		
29	25.60	12.73	45.60	178.60	89.80	119.80	39.52	21.15	11.26	8.91		18.97		
30	30.40	27.40	51.48	240.00	79.25	100.60	41.04	21.15	10.77	8.13		47.28		
31		16.32		287.60	75.80		47.28		10.77	7.74		29.20		
Total	585.21	414.10	2605.82	3283.88	4774.85	3441.60	2127.30	1041.75	450.75	321.03	256.98	355.33	19658.60	CMSDAY
Mean	19.51	13.36	86.86	105.93	154.03	114.72	68.62	34.73	14.54	10.36	9.18	11.46	53.86	CMS
Max	106.60	33.80	786.00	367.17	376.67	178.60	118.60	72.48	22.25	18.44	37.30	47.28	786.00	CMS
Min	3.51	5.79	6.96	27.40	75.80	86.20	39.52	21.15	10.77	7.35	4.32	5.13	3.51	CMS
Runoff	50.56	35.78	225.14	283.73	412.55	297.35	183.80	90.01	38.94	27.74	22.20	30.70	1698.50	MCM
Momentary Peak	811.20 CMS. at 197.79 m. (MSL.) at 13.00 Hours , on Jun 15, 2021													
Runoff Yield	11.79 Liters/Second/Square KM.			Momentary Peak Yield			177.51 Liters/Second/Square KM.							

**WATER YEAR : 2021****NAN RIVER BASIN****Nan River at Nai Mueang , Uttaradit (N.2B)**

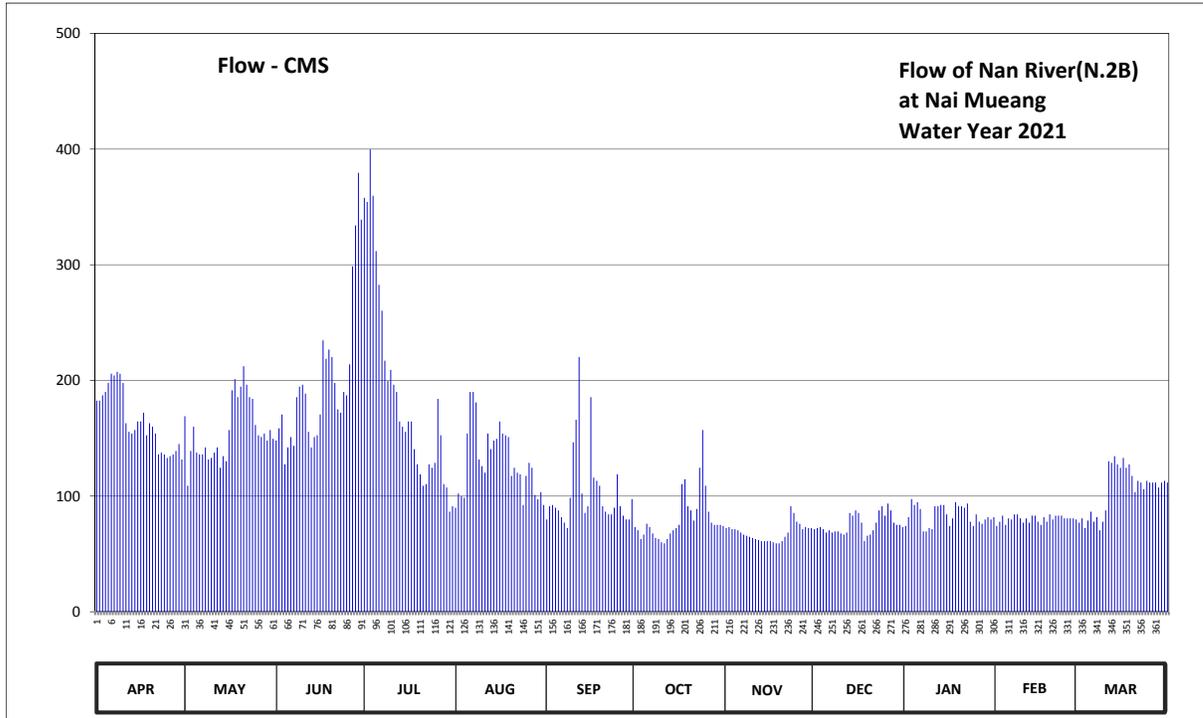
Lat 17 - 36 - 36 N Long 100 - 05 - 59 E

Location : on right bank at Mueang, Uttaradit.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Uttaradit
<b>Drainage Area</b>	16,744 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+52.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.	<b>Elevation</b>	+63.138 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.23	53.14	53.00	54.31	52.58	52.49	52.42	52.41	52.40	52.43	52.43	52.46	
2	53.23	52.73	53.07	54.29	52.68	52.59	52.39	52.42	52.41	52.51	52.47	52.50	
3	53.26	52.94	53.15	54.54	52.66	52.60	52.31	52.40	52.42	52.64	52.52	52.41	
4	53.28	53.08	52.86	54.32	52.65	52.58	52.35	52.40	52.40	52.60	52.44	52.48	
5	53.33	52.93	52.96	54.04	53.04	52.56	52.45	52.39	52.37	52.62	52.50	52.55	
6	53.38	52.92	53.02	53.86	53.28	52.51	52.42	52.37	52.39	52.57	52.49	52.47	
7	53.37	52.92	52.97	53.72	53.28	52.46	52.36	52.35	52.37	52.38	52.53	52.51	
8	53.39	52.96	53.25	53.45	53.22	52.41	52.32	52.34	52.38	52.38	52.53	52.39	
9	53.38	52.89	53.31	53.34	52.89	52.65	52.31	52.33	52.38	52.41	52.50	52.47	
10	53.33	52.90	53.32	53.40	52.85	52.99	52.28	52.32	52.36	52.40	52.46	52.56	
11	53.10	52.93	53.27	53.32	52.81	53.12	52.27	52.31	52.35	52.59	52.50	52.88	
12	53.05	52.96	53.05	53.28	53.04	53.47	52.31	52.30	52.37	52.59	52.46	52.87	
13	53.04	52.84	52.96	53.11	52.95	52.68	52.36	52.29	52.54	52.60	52.52	52.91	
14	53.06	52.91	53.02	53.08	53.00	52.54	52.39	52.29	52.52	52.60	52.52	52.86	
15	53.11	52.88	53.03	53.05	53.01	52.59	52.41	52.29	52.56	52.53	52.47	52.84	
16	53.11	53.06	53.15	53.11	53.11	53.25	52.44	52.29	52.54	52.43	52.44	52.90	
17	53.16	53.29	53.56	53.11	53.04	52.78	52.74	52.28	52.46	52.50	52.51	52.84	
18	53.03	53.35	53.46	52.95	53.03	52.76	52.77	52.27	52.29	52.62	52.47	52.86	
19	53.10	53.25	53.51	52.86	53.02	52.73	52.59	52.27	52.34	52.59	52.53	52.79	
20	53.08	53.31	53.47	52.80	52.79	52.59	52.56	52.29	52.35	52.59	52.49	52.69	
21	53.04	53.42	53.33	52.73	52.84	52.55	52.48	52.33	52.39	52.58	52.52	52.76	
22	52.92	53.32	53.18	52.74	52.81	52.53	52.57	52.37	52.46	52.61	52.52	52.75	
23	52.93	53.25	53.16	52.86	52.80	52.53	52.84	52.59	52.56	52.47	52.52	52.71	
24	52.92	53.24	53.28	52.84	52.60	52.58	53.06	52.54	52.59	52.43	52.50	52.76	
25	52.90	53.09	53.26	52.87	52.79	52.80	52.73	52.47	52.52	52.53	52.50	52.75	
26	52.91	53.03	53.43	53.24	52.87	52.59	52.55	52.45	52.61	52.47	52.50	52.75	
27	52.92	53.02	53.96	53.03	52.84	52.52	52.46	52.40	52.56	52.45	52.50	52.75	
28	52.94	53.04	54.17	52.74	52.67	52.49	52.44	52.42	52.46	52.49	52.49	52.72	
29	52.98	53.00	54.43	52.72	52.64	52.49	52.44	52.41	52.44	52.51		52.75	
30	52.89	53.06	54.20	52.55	52.69	52.64	52.44	52.41	52.44	52.49		52.76	
31		53.01		52.59	52.60		52.43		52.42	52.51		52.75	
Mean	53.11	53.05	53.33	53.25	52.87	52.67	52.48	52.37	52.44	52.52	52.49	52.69	
Max	53.39	53.42	54.43	54.54	53.28	53.47	53.06	52.59	52.61	52.64	52.53	52.91	54.54
Min	52.89	52.73	52.86	52.55	52.58	52.41	52.27	52.29	52.29	52.38	52.43	52.39	52.27
Annual Max Momentary Gage Height	55.09		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	52.30		m. (MSL.) ,			River Bed	47.80		m. (MSL.)				
Left Bank Elevation	60.59		m. (MSL.) ,										
Right Bank Elevation	60.48		m. (MSL.) ,			Drainage Are	16,744		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	182.50	169.00	148.00	357.80	89.98	79.76	73.21	72.27	71.33	74.14	74.14	76.95		
2	182.50	108.86	158.50	354.30	102.14	91.14	70.40	73.21	72.27	81.86	77.89	80.70		
3	187.00	139.00	170.50	399.60	99.68	92.30	62.90	71.33	73.21	97.22	83.02	72.27		
4	190.00	160.00	127.32	359.60	98.45	89.98	66.65	71.33	71.33	92.30	75.08	78.83		
5	197.80	137.50	142.00	311.80	154.00	87.66	76.02	70.40	68.52	94.76	80.70	86.50		
6	205.80	136.00	151.00	282.60	190.00	81.86	73.21	68.52	70.40	88.82	79.76	77.89		
7	204.20	136.00	143.50	260.20	190.00	76.95	67.59	66.65	68.52	69.46	84.18	81.86		
8	207.40	142.00	185.50	217.00	181.00	72.27	63.84	65.71	69.46	69.46	84.18	70.40		
9	205.80	131.58	194.60	199.40	131.58	98.45	62.90	64.78	69.46	72.27	80.70	77.89		
10	197.80	133.00	196.20	209.00	125.90	146.50	60.09	63.84	67.59	71.33	76.95	87.66		
11	163.00	137.50	188.50	196.20	120.22	166.00	59.16	62.90	66.65	91.14	80.70	130.16		
12	155.50	142.00	155.50	190.00	154.00	220.20	62.90	61.97	68.52	91.14	76.95	128.74		
13	154.00	124.48	142.00	164.50	140.50	102.14	67.59	61.03	85.34	92.30	83.02	134.50		
14	157.00	134.50	151.00	160.00	148.00	85.34	70.40	61.03	83.02	92.30	83.02	127.32		
15	164.50	130.16	152.50	155.50	149.50	91.14	72.27	61.03	87.66	84.18	77.89	124.48		
16	164.50	157.00	170.50	164.50	164.50	185.50	75.08	61.03	85.34	74.14	75.08	133.00		
17	172.00	191.50	234.60	164.50	154.00	115.96	110.28	60.09	76.95	80.70	81.86	124.48		
18	152.50	201.00	218.60	140.50	152.50	113.12	114.54	59.16	61.03	94.76	77.89	127.32		
19	163.00	185.50	226.60	127.32	151.00	108.86	91.14	59.16	65.71	91.14	84.18	117.38		
20	160.00	194.60	220.20	118.80	117.38	91.14	87.66	61.03	66.65	91.14	79.76	103.37		
21	154.00	212.20	197.80	108.86	124.48	86.50	78.83	64.78	70.40	89.98	83.02	113.12		
22	136.00	196.20	175.00	110.28	120.22	84.18	88.82	68.52	76.95	93.53	83.02	111.70		
23	137.50	185.50	172.00	127.32	118.80	84.18	124.48	91.14	87.66	77.89	83.02	106.02		
24	136.00	184.00	190.00	124.48	92.30	89.98	157.00	85.34	91.14	74.14	80.70	113.12		
25	133.00	161.50	187.00	128.74	117.38	118.80	108.86	77.89	83.02	84.18	80.70	111.70		
26	134.50	152.50	213.80	184.00	128.74	91.14	86.50	76.02	93.53	77.89	80.70	111.70		
27	136.00	151.00	298.60	152.50	124.48	83.02	76.95	71.33	87.66	76.02	80.70	111.70		
28	139.00	154.00	333.90	110.28	100.91	79.76	75.08	73.21	76.95	79.76	79.76	107.44		
29	145.00	148.00	379.40	107.44	97.22	79.76	75.08	72.27	75.08	81.86		111.70		
30	131.58	157.00	339.00	86.50	103.37	97.22	75.08	72.27	75.08	79.76		113.12		
31		149.50		91.14	92.30		74.14		73.21	81.86		111.70		
<b>Total</b>	<b>4949.38</b>	<b>4842.58</b>	<b>5963.62</b>	<b>5864.66</b>	<b>4034.53</b>	<b>3090.81</b>	<b>2508.65</b>	<b>2049.24</b>	<b>2339.64</b>	<b>2591.43</b>	<b>2248.57</b>	<b>3264.72</b>	<b>43747.83</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>164.98</b>	<b>156.21</b>	<b>198.79</b>	<b>189.18</b>	<b>130.15</b>	<b>103.03</b>	<b>80.92</b>	<b>68.31</b>	<b>75.47</b>	<b>83.59</b>	<b>80.31</b>	<b>105.31</b>	<b>119.86</b>	<b>CMS</b>
<b>Max</b>	<b>207.40</b>	<b>212.20</b>	<b>379.40</b>	<b>399.60</b>	<b>190.00</b>	<b>220.20</b>	<b>157.00</b>	<b>91.14</b>	<b>93.53</b>	<b>97.22</b>	<b>84.18</b>	<b>134.50</b>	<b>399.60</b>	<b>CMS</b>
<b>Min</b>	<b>131.58</b>	<b>108.86</b>	<b>127.32</b>	<b>86.50</b>	<b>89.98</b>	<b>72.27</b>	<b>59.16</b>	<b>59.16</b>	<b>61.03</b>	<b>69.46</b>	<b>74.14</b>	<b>70.40</b>	<b>59.16</b>	<b>CMS</b>
<b>Runoff</b>	<b>427.63</b>	<b>418.40</b>	<b>515.26</b>	<b>506.71</b>	<b>348.58</b>	<b>267.05</b>	<b>216.75</b>	<b>177.05</b>	<b>202.14</b>	<b>223.90</b>	<b>194.28</b>	<b>282.07</b>	<b>3779.81</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>504.10 CMS. at 55.09 m. (MSL.) at 09.00 Hours , on Jul 3, 2021</b>													
<b>Runoff Yield</b>	<b>7.16</b>		<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>		<b>30.11</b>		<b>Liters/Second/Square KM.</b>					

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Mueang , Phitsanulok (N.5A)

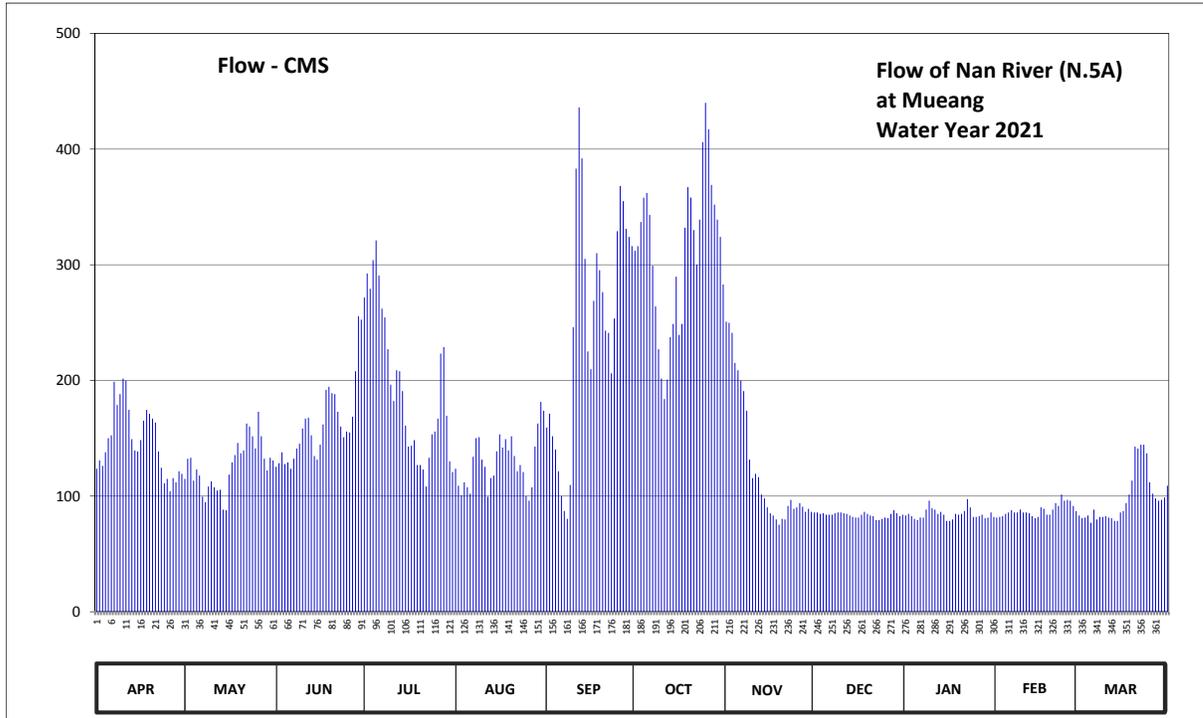
Lat 16 - 48 - 22 N Long 100 - 14 - 45 E

Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

	<b>Ban</b>	<b>Nai Mueang</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	24,876	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+34.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the automatic gage building.				<b>Elevation</b>	+46.153 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1963 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1966 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1966 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 30 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.01	35.89	36.03	37.69	36.01	36.45	38.11	37.47	35.46	35.42	35.39	35.42	
2	36.10	36.12	36.07	37.91	35.81	36.59	38.15	37.46	35.46	35.44	35.40	35.38	
3	36.04	36.13	36.19	37.77	35.69	36.36	38.36	37.37	35.44	35.41	35.41	35.39	
4	36.19	35.87	36.06	38.03	35.85	36.22	38.57	37.09	35.45	35.37	35.44	35.42	
5	36.34	36.00	36.08	38.20	35.79	35.98	38.61	37.02	35.43	35.35	35.46	35.31	
6	36.37	35.93	36.01	37.89	35.71	35.68	38.42	36.92	35.43	35.39	35.49	35.50	
7	36.91	35.67	36.12	37.59	36.14	35.48	37.98	36.82	35.43	35.39	35.46	35.36	
8	36.68	35.60	36.23	37.51	36.34	35.37	37.61	36.62	35.45	35.50	35.46	35.40	
9	36.79	35.80	36.28	37.22	36.35	35.82	37.22	36.11	35.46	35.62	35.50	35.40	
10	36.94	35.86	36.44	36.88	36.11	37.42	36.94	35.90	35.46	35.52	35.46	35.41	
11	36.92	35.79	36.54	36.72	36.03	38.82	36.74	35.95	35.45	35.50	35.46	35.39	
12	36.63	35.75	36.55	37.02	35.67	39.35	36.93	35.91	35.44	35.44	35.45	35.38	
13	36.33	35.76	36.37	37.01	35.90	38.91	37.33	35.70	35.42	35.47	35.41	35.34	
14	36.21	35.50	36.15	36.82	35.93	38.04	37.45	35.65	35.40	35.43	35.38	35.34	
15	36.20	35.49	36.11	36.47	36.20	37.20	37.88	35.53	35.39	35.34	35.40	35.46	
16	36.32	35.94	36.27	36.25	36.38	37.03	37.35	35.45	35.39	35.34	35.53	35.48	
17	36.52	36.08	36.48	36.26	36.24	37.66	37.45	35.42	35.43	35.36	35.51	35.59	
18	36.63	36.16	36.83	36.32	36.33	38.09	38.31	35.36	35.47	35.44	35.43	35.70	
19	36.59	36.29	36.86	36.05	36.21	37.94	38.66	35.28	35.44	35.43	35.43	35.87	
20	36.54	36.18	36.80	36.05	36.36	37.74	38.57	35.37	35.42	35.44	35.50	36.25	
21	36.50	36.21	36.79	36.00	36.15	37.39	38.29	35.36	35.41	35.48	35.59	36.23	
22	36.20	36.49	36.61	35.80	35.98	37.37	37.99	35.55	35.35	35.64	35.55	36.27	
23	36.02	36.46	36.46	36.13	36.05	36.99	38.38	35.63	35.35	35.53	35.70	36.27	
24	35.84	36.36	36.35	36.38	35.97	37.50	39.05	35.51	35.37	35.40	35.62	36.18	
25	35.89	36.23	36.41	36.41	35.68	38.28	39.39	35.53	35.39	35.40	35.63	35.85	
26	35.74	36.61	36.40	36.54	35.62	38.67	39.16	35.59	35.38	35.41	35.62	35.71	
27	35.90	36.36	36.56	37.18	35.79	38.54	38.68	35.54	35.44	35.43	35.55	35.65	
28	35.85	36.12	37.01	37.24	36.25	38.30	38.51	35.47	35.49	35.38	35.48	35.62	
29	35.98	35.99	37.52	36.57	36.49	38.23	38.38	35.51	35.45	35.39		35.63	
30	35.95	36.13	37.49	36.09	36.71	38.15	38.23	35.47	35.41	35.46		35.66	
31		36.10		35.97	36.62		37.81		35.43	35.40		35.81	
Mean	36.30	36.03	36.47	36.84	36.08	37.39	38.08	35.99	35.43	35.44	35.49	35.63	
Max	36.94	36.61	37.52	38.20	36.71	39.35	39.39	37.47	35.49	35.64	35.70	36.27	39.39
Min	35.74	35.49	36.01	35.80	35.62	35.37	36.74	35.28	35.35	35.34	35.38	35.31	35.28
Annual Max Momentary Gage Height	39.47		m. (MSL.) ,				at 04.00 Hours ,						on Sep 12, 2021
Zero Gage at Bottom Elevation	34.50		m. (MSL.) ,				River Bed	30.98		m. (MSL.)			
Left Bank Elevation		44.94		m. (MSL.) ,									
Right Bank Elevation		49.79		m. (MSL.) ,			Drainage Are	24,876		Square Kilometers			



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	123.69	114.82	125.26	271.55	123.69	159.25	312.00	250.65	85.78	83.26	81.43	83.26		
2	130.75	132.32	128.40	292.45	108.94	171.15	316.00	249.70	85.78	84.52	82.00	80.86		
3	126.04	133.11	137.82	279.15	100.72	151.72	337.00	241.15	84.52	82.63	82.63	81.43		
4	137.82	113.35	127.61	304.00	111.88	140.24	358.00	215.10	85.15	80.29	84.52	83.26		
5	150.08	122.90	129.18	321.00	107.52	121.43	362.00	208.80	83.89	79.15	85.78	76.87		
6	152.54	117.76	123.69	290.55	102.08	100.04	343.00	199.80	83.89	81.43	87.67	88.30		
7	198.90	99.36	132.32	262.05	133.89	87.04	299.10	190.80	83.89	81.43	85.78	79.72		
8	178.80	94.60	141.06	254.45	150.08	80.29	263.95	173.70	85.15	88.30	85.78	82.00		
9	188.15	108.20	145.16	226.90	150.90	109.67	226.90	131.54	85.78	95.96	88.30	82.00		
10	201.60	112.61	158.40	196.20	131.54	245.90	201.60	115.55	85.78	89.56	85.78	82.63		
11	199.80	107.52	166.90	182.20	125.26	383.00	183.90	119.23	85.15	88.30	85.78	81.43		
12	174.55	104.80	167.75	208.80	99.36	436.00	200.70	116.29	84.52	84.52	85.15	80.86		
13	149.26	105.48	152.54	207.90	115.55	392.00	237.35	101.40	83.26	86.41	82.63	78.58		
14	139.42	88.30	134.68	190.80	117.76	305.00	248.75	98.00	82.00	83.89	80.86	78.58		
15	138.60	87.67	131.54	160.95	138.60	225.00	289.60	90.19	81.43	78.58	82.00	85.78		
16	148.44	118.49	144.34	142.70	153.36	209.70	239.25	85.15	81.43	78.58	90.19	87.04		
17	165.20	129.18	161.80	143.52	141.88	268.70	248.75	83.26	83.89	79.72	88.93	93.97		
18	174.55	135.46	191.70	148.44	149.26	310.00	332.00	79.72	86.41	84.52	83.89	101.40		
19	171.15	145.98	194.40	126.83	139.42	295.30	367.00	75.16	84.52	83.89	83.89	113.35		
20	166.90	137.03	189.00	126.83	151.72	276.30	358.00	80.29	83.26	84.52	88.30	142.70		
21	163.50	139.42	188.15	122.90	134.68	243.05	330.00	79.72	82.63	87.04	93.97	141.06		
22	138.60	162.65	172.85	108.20	121.43	241.15	300.05	91.45	79.15	97.32	91.45	144.34		
23	124.47	160.10	160.10	133.11	126.83	206.10	339.00	96.64	79.15	90.19	101.40	144.34		
24	111.14	151.72	150.90	153.36	120.70	253.50	406.00	88.93	80.29	82.00	95.96	137.03		
25	114.82	141.06	155.85	155.85	100.04	329.00	440.00	90.19	81.43	82.00	96.64	111.88		
26	104.12	172.85	155.00	166.90	95.96	368.00	417.00	93.97	80.86	82.63	95.96	102.08		
27	115.55	151.72	168.60	223.20	107.52	355.00	369.00	90.82	84.52	83.89	91.45	98.00		
28	111.88	132.32	207.90	228.80	142.70	331.00	352.00	86.41	87.67	80.86	87.04	95.96		
29	121.43	122.17	255.40	169.45	162.65	324.00	339.00	88.93	85.15	81.43		96.64		
30	119.23	133.11	252.55	129.97	181.35	316.00	324.00	86.41	82.63	85.78		98.68		
31		130.75		120.70	173.70		282.95		83.89	82.00		108.94		
Total	4440.98	3906.81	4850.85	6049.71	4020.97	7434.53	9623.85	3798.95	2592.85	2614.60	2455.16	3042.97	54832.23	CMSDAY
Mean	148.03	126.03	161.70	195.15	129.71	247.82	310.45	126.63	83.64	84.34	87.68	98.16	150.23	CMS
Max	201.60	172.85	255.40	321.00	181.35	436.00	440.00	250.65	87.67	97.32	101.40	144.34	440.00	CMS
Min	104.12	87.67	123.69	108.20	95.96	80.29	183.90	75.16	79.15	78.58	80.86	76.87	75.16	CMS
Runoff	383.70	337.55	419.11	522.69	347.41	642.34	831.50	328.23	224.02	225.90	212.13	262.91	4737.50	MCM
Momentary Peak	448.00	CMS. at 39.47 m. (MSL.)												on Sep 12, 2021
Runoff Yield	6.04	Liters/Second/Square KM.												Momentary Peak Yield 18.01 Liters/Second/Square KM.

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Ban Rat Chang Khwan , Pichit (N.7A)

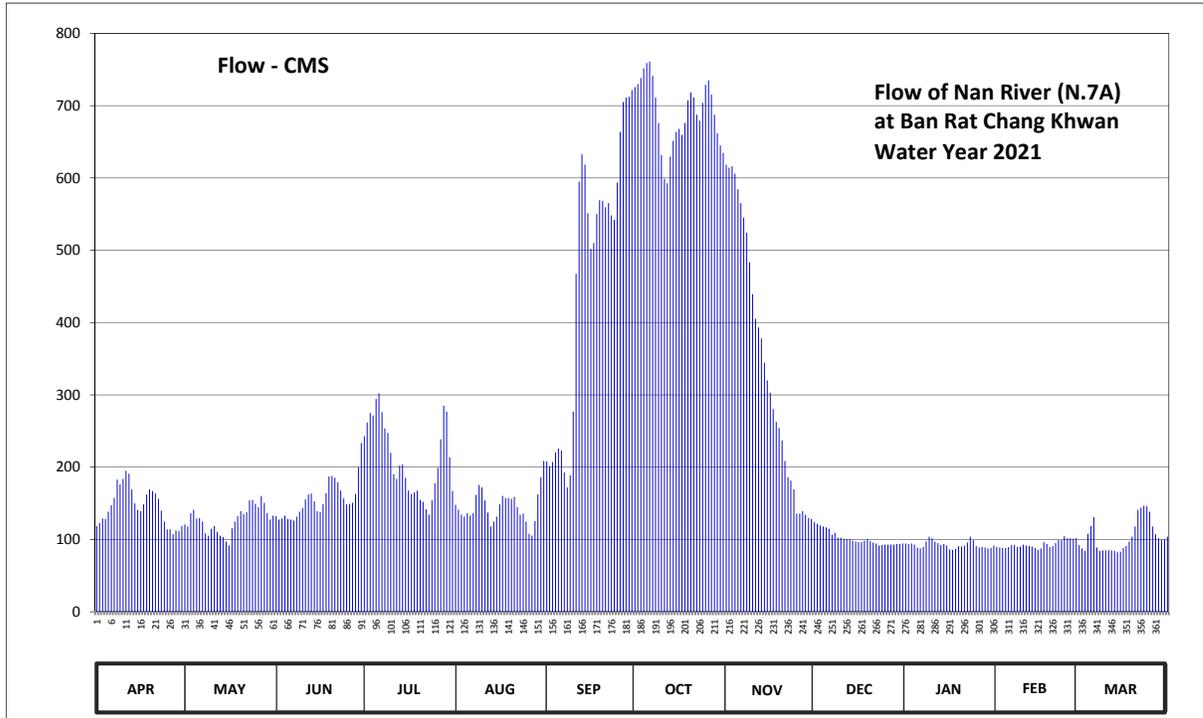
Lat 16 - 28 - 10 N Long 100 - 19 - 51 E

Location : on right bank in front of Pichit Phitthaya Khom School

	Ban Rat Chang Khwan	Amphoe Mueang	Changwat Pichit
<b>Drainage Area</b>	27,969 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+26.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of Pichit Phitthaya Khom School.	<b>Elevation</b>	+37.143 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2000 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2000 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2000 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 26 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.72	27.75	27.92	29.37	28.15	28.96	34.33	33.29	27.80	27.36	27.29	27.33	
2	27.78	27.71	27.85	29.58	28.05	28.88	34.37	33.25	27.76	27.35	27.28	27.26	
3	27.87	27.98	27.87	29.73	27.95	28.95	34.45	33.27	27.73	27.36	27.27	27.21	
4	27.86	28.05	27.93	29.69	27.91	29.11	34.58	33.17	27.71	27.34	27.27	27.56	
5	28.01	27.87	27.86	29.94	27.98	29.17	34.65	32.96	27.69	27.28	27.29	27.72	
6	28.14	27.88	27.85	30.02	27.93	29.14	34.67	32.77	27.66	27.26	27.33	27.90	
7	28.29	27.81	27.83	29.74	27.98	28.77	34.48	32.57	27.54	27.29	27.33	27.28	
8	28.65	27.57	27.91	29.49	28.35	28.50	34.19	32.36	27.58	27.40	27.29	27.21	
9	28.56	27.52	28.01	29.42	28.55	28.72	33.85	31.95	27.48	27.50	27.30	27.22	
10	28.66	27.66	28.08	29.10	28.50	29.75	33.42	31.48	27.48	27.47	27.34	27.22	
11	28.80	27.72	28.26	28.74	28.24	31.78	33.10	31.12	27.46	27.40	27.32	27.22	
12	28.75	27.60	28.36	28.66	27.99	33.06	33.04	30.99	27.45	27.37	27.31	27.22	
13	28.46	27.52	28.38	28.89	27.71	33.43	33.40	30.83	27.45	27.33	27.30	27.21	
14	28.18	27.49	28.22	28.91	27.81	33.29	33.61	30.47	27.42	27.35	27.27	27.18	
15	28.05	27.40	28.02	28.68	27.91	32.63	33.73	30.21	27.40	27.32	27.23	27.19	
16	28.02	27.32	28.00	28.44	28.16	32.14	33.77	30.03	27.39	27.24	27.26	27.27	
17	28.16	27.67	28.16	28.37	28.33	32.22	33.69	29.79	27.39	27.23	27.39	27.31	
18	28.36	27.81	28.39	28.40	28.29	32.62	33.85	29.59	27.42	27.25	27.35	27.40	
19	28.46	27.92	28.70	28.44	28.29	32.81	34.15	29.50	27.45	27.31	27.29	27.50	
20	28.43	28.02	28.71	28.25	28.27	32.80	34.26	29.30	27.41	27.30	27.31	27.71	
21	28.38	27.96	28.68	28.21	28.31	32.71	34.19	28.97	27.38	27.32	27.37	28.05	
22	28.27	28.00	28.60	28.06	28.10	32.77	33.96	28.69	27.36	27.38	27.43	28.09	
23	28.03	28.24	28.44	27.95	27.95	32.60	33.88	28.63	27.32	27.50	27.43	28.13	
24	27.81	28.25	28.28	28.24	27.97	32.54	34.12	28.46	27.33	27.43	27.51	28.12	
25	27.65	28.17	28.16	28.58	27.81	33.05	34.36	27.97	27.34	27.31	27.47	28.01	
26	27.65	28.10	28.17	28.85	27.56	33.73	34.42	27.97	27.34	27.28	27.47	27.71	
27	27.55	28.33	28.19	29.32	27.52	34.13	34.23	28.02	27.34	27.29	27.46	27.55	
28	27.63	28.19	28.37	29.84	27.82	34.19	33.96	27.95	27.34	27.28	27.47	27.47	
29	27.62	27.98	28.86	29.75	28.36	34.20	33.71	27.88	27.35	27.26		27.44	
30	27.72	27.85	29.26	29.03	28.69	34.29	33.55	27.86	27.35	27.27		27.45	
31		27.93		28.43	28.97		33.45		27.36	27.32		27.50	
Mean	28.12	27.85	28.24	28.97	28.11	31.70	33.98	30.38	27.47	27.33	27.34	27.50	
Max	28.80	28.33	29.26	30.02	28.97	34.29	34.67	33.29	27.80	27.50	27.51	28.13	34.67
Min	27.55	27.32	27.83	27.95	27.52	28.50	33.04	27.86	27.32	27.23	27.23	27.18	27.18
Annual Max Momentary Gage Height	34.69		m. (MSL.) ,						at 09.00 Hours , on Oct 6, 2021				
Zero Gage at Bottom Elevation	26.00		m. (MSL.) ,				River Bed 24.44		m. (MSL.)				
Left Bank Elevation		37.31		m. (MSL.) ,									
Right Bank Elevation		37.45		m. (MSL.) ,		Drainage Are	27,969		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	118.66	120.70	132.26	242.92	147.90	207.88	725.76	618.23	124.10	94.30	89.58	92.28		
2	122.74	117.98	127.50	261.61	141.10	201.44	729.90	614.13	121.38	93.63	88.90	87.55		
3	128.86	136.34	128.86	275.04	134.30	207.08	738.18	616.18	119.34	94.30	88.23	84.18		
4	128.18	141.10	132.94	271.46	131.58	220.56	751.63	605.94	117.98	92.95	88.23	107.80		
5	138.38	128.86	128.18	294.46	136.34	225.72	758.88	584.54	116.62	88.90	89.58	118.66		
6	147.22	129.54	127.50	301.98	132.94	223.14	760.95	565.29	114.58	87.55	92.28	130.90		
7	157.42	124.78	126.14	275.93	136.34	192.59	741.28	545.19	106.45	89.58	92.28	88.90		
8	182.93	108.48	131.58	253.56	161.50	171.90	711.27	524.08	109.15	97.00	89.58	84.18		
9	176.10	105.10	138.38	247.29	175.40	188.56	676.08	483.40	102.40	103.75	90.25	84.85		
10	183.73	114.58	143.14	219.70	171.90	276.83	631.57	439.22	102.40	101.73	92.95	84.85		
11	195.00	118.66	155.38	190.17	154.02	467.42	598.80	405.38	101.05	97.00	91.60	84.85		
12	190.98	110.50	162.18	183.73	137.02	594.72	592.68	393.16	100.38	94.98	90.93	84.85		
13	169.10	105.10	163.54	202.25	117.98	632.61	629.50	378.12	100.38	92.28	90.25	84.18		
14	149.94	103.08	152.66	203.86	124.78	618.23	651.24	344.28	98.35	93.63	88.23	82.27		
15	141.10	97.00	139.06	185.34	131.58	551.22	663.66	319.84	97.00	91.60	85.53	82.89		
16	139.06	91.60	137.70	167.70	148.58	502.03	667.80	302.92	96.33	86.20	87.55	88.23		
17	148.58	115.26	148.58	162.86	160.14	510.01	659.52	280.41	96.33	85.53	96.33	90.93		
18	162.18	124.78	164.22	164.90	157.42	550.21	676.08	262.51	98.35	86.88	93.63	97.00		
19	169.10	132.26	186.95	167.70	157.42	569.32	707.13	254.45	100.38	90.93	89.58	103.75		
20	167.00	139.06	187.76	154.70	156.06	568.30	718.51	236.90	97.68	90.25	90.93	117.98		
21	163.54	134.98	185.34	151.98	158.78	559.26	711.27	208.69	95.65	91.60	94.98	141.10		
22	156.06	137.70	178.90	141.78	144.50	565.29	687.46	186.15	94.30	95.65	99.03	143.82		
23	139.74	154.02	167.70	134.30	134.30	548.20	679.18	181.32	91.60	103.75	99.03	146.54		
24	124.78	154.70	156.74	154.02	135.66	542.17	704.02	169.10	92.28	99.03	104.43	145.86		
25	113.90	149.26	148.58	177.50	124.78	593.70	728.86	135.66	92.95	90.93	101.73	138.38		
26	113.90	144.50	149.26	199.03	107.80	663.66	735.07	135.66	92.95	88.90	101.73	117.98		
27	107.13	160.14	150.62	238.62	105.10	705.06	715.41	139.06	92.95	89.58	101.05	107.13		
28	112.54	150.62	162.86	285.06	125.46	711.27	687.46	134.30	92.95	88.90	101.73	101.73		
29	111.86	136.34	199.83	276.83	162.18	712.30	661.59	129.54	93.63	87.55		99.70		
30	118.66	127.50	233.46	213.68	186.15	721.62	645.03	128.18	93.63	88.23		100.38		
31		132.94		167.00	208.69		634.68		94.30	91.60		103.75		
Total	4378.37	3947.46	4647.80	6566.96	4507.70	14002.30	21380.45	10321.83	3147.82	2868.69	2610.13	3227.45	81606.96	CMSDAY
Mean	145.95	127.34	154.93	211.84	145.41	466.74	689.69	344.06	101.54	92.54	93.22	104.11	223.58	CMS
Max	195.00	160.14	233.46	301.98	208.69	721.62	760.95	618.23	124.10	103.75	104.43	146.54	760.95	CMS
Min	107.13	91.60	126.14	134.30	105.10	171.90	592.68	128.18	91.60	85.53	85.53	82.27	82.27	CMS
Runoff	378.29	341.06	401.57	567.39	389.47	1209.80	1847.27	891.81	271.97	247.85	225.52	278.85	7050.84	MCM
Momentary Peak		763.02	CMS. at 34.69 m. (MSL.)											on Oct 6, 2021
Runoff Yield		8.01	Liters/Second/Square KM.											Momentary Peak Yield 27.35 Liters/Second/Square KM.

## WATER YEAR : 2021

## NAN RIVER BASIN

Nan River at Bang Mun Nak , Phichit (N.8)

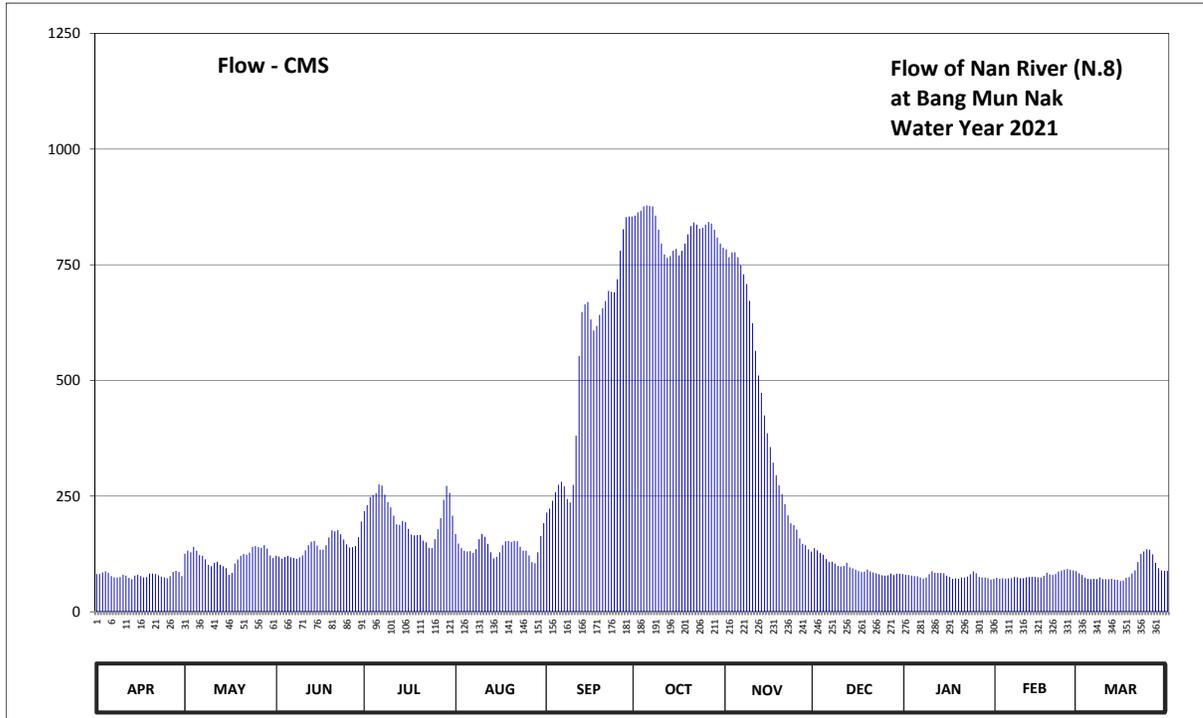
Lat 16 - 01 - 52 N Long 100 - 22 - 38 E

Location : on right bank opposite to Wat Bang Mun Nak.

	<b>Ban</b>	-	<b>Amphoe</b>	Bang Mun Nak	<b>Changwat</b>	Phichit	
<b>Drainage Area</b>	32,594	sq.km.					
<b>Type of Gage</b>	Staff gage						
<b>Zero Gage at Bottom</b>	+19.800	m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.						
<b>Location BM</b>	On right bank about 89 meters upstream from the top staff gage.					<b>Elevation</b>	+33.276 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.						
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings						
<b>Period of Available Gage Records</b>	1951 to date						
<b>Rating Operation</b>							
<b>Period of Rating</b>	1965 - 1967, 1973 - 1979, 1991 - 2000, 2019 to date						
<b>Rated by Float</b>	-						
<b>Rated by Current Meter</b>	1951 - 1980, 1991 - 2000, 2019 to date						
<b>Stability of Channel Regimes</b>	Fairly stable.						
<b>Overbank Flow Conditions</b>	No overbank flow.						
<b>General Description</b>	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 26 discharge measurements made in 2021.						

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.98	21.72	21.65	23.14	22.41	23.09	29.76	29.11	21.92	20.95	20.83	21.01	
2	20.98	21.83	21.62	23.32	22.08	23.21	29.82	29.14	21.84	20.94	20.80	20.94	
3	21.04	21.77	21.54	23.56	21.92	23.45	29.85	29.21	21.75	20.92	20.81	20.84	
4	21.08	21.96	21.60	23.62	21.82	23.70	29.93	29.21	21.68	20.90	20.80	20.79	
5	21.03	21.83	21.64	23.67	21.80	23.91	29.95	29.14	21.53	20.89	20.81	20.78	
6	20.90	21.67	21.59	23.92	21.81	23.99	29.94	29.03	21.42	20.84	20.82	20.79	
7	20.85	21.65	21.57	23.89	21.75	23.87	29.93	28.90	21.44	20.80	20.87	20.78	
8	20.84	21.52	21.54	23.63	21.88	23.50	29.76	28.75	21.37	20.84	20.85	20.85	
9	20.86	21.32	21.59	23.41	22.23	23.40	29.49	28.49	21.28	20.97	20.81	20.78	
10	20.95	21.27	21.66	23.25	22.41	23.91	29.22	28.14	21.26	21.09	20.82	20.78	
11	20.92	21.40	21.84	23.00	22.31	25.14	29.01	27.69	21.28	21.03	20.85	20.77	
12	20.83	21.43	22.02	22.73	22.07	26.92	28.94	27.26	21.40	21.02	20.86	20.79	
13	20.77	21.32	22.14	22.71	21.77	27.85	28.98	26.93	21.23	21.02	20.87	20.76	
14	20.92	21.27	22.17	22.84	21.55	28.01	29.08	26.46	21.19	21.01	20.87	20.75	
15	20.95	21.20	22.01	22.80	21.61	28.06	29.12	26.08	21.14	20.92	20.85	20.70	
16	20.90	20.95	21.86	22.58	21.77	27.69	28.99	25.78	21.09	20.87	20.84	20.72	
17	20.85	21.03	21.87	22.39	22.02	27.46	29.08	25.42	21.05	20.79	20.91	20.83	
18	20.86	21.37	22.02	22.36	22.16	27.55	29.22	25.10	21.07	20.81	21.03	20.86	
19	21.00	21.52	22.29	22.37	22.17	27.79	29.40	24.82	21.15	20.79	20.96	21.00	
20	21.00	21.65	22.53	22.38	22.13	27.93	29.56	24.58	21.08	20.84	20.94	21.12	
21	20.98	21.71	22.50	22.18	22.17	28.08	29.63	24.27	21.04	20.84	20.98	21.42	
22	20.93	21.68	22.54	22.12	22.16	28.29	29.59	23.89	21.01	20.88	21.07	21.71	
23	20.88	21.76	22.40	21.93	21.96	28.27	29.51	23.57	20.97	20.97	21.11	21.80	
24	20.85	21.96	22.22	21.92	21.83	28.26	29.53	23.49	20.93	21.08	21.14	21.88	
25	20.81	21.99	22.05	22.23	21.83	28.52	29.59	23.29	20.92	21.01	21.17	21.86	
26	20.90	21.95	21.94	22.57	21.66	29.08	29.64	22.87	20.93	20.87	21.14	21.70	
27	21.06	21.93	21.95	22.92	21.42	29.50	29.61	22.59	21.00	20.84	21.12	21.39	
28	21.10	22.02	21.99	23.48	21.38	29.73	29.49	22.51	20.94	20.84	21.09	21.20	
29	21.06	21.90	22.30	23.88	21.77	29.74	29.34	22.22	20.99	20.82		21.11	
30	20.90	21.66	22.82	23.68	22.34	29.74	29.22	22.04	20.99	20.76		21.10	
31		21.57		23.00	22.77		29.14		20.98	20.79		21.10	
Mean	20.93	21.61	21.98	22.95	21.97	26.65	29.46	26.00	21.22	20.90	20.93	21.06	
Max	21.10	22.02	22.82	23.92	22.77	29.74	29.95	29.21	21.92	21.09	21.17	21.88	29.95
Min	20.77	20.95	21.54	21.92	21.38	23.09	28.94	22.04	20.92	20.76	20.80	20.70	20.70
Annual Max Momentary Gage Height	29.95		m. (MSL.) ,				at 01.00 Hours ,						
Zero Gage at Bottom Elevation	19.80		m. (MSL.) ,			River Bed	17.21		m. (MSL.)				
Left Bank Elevation		30.58		m. (MSL.) ,									
Right Bank Elevation		30.72		m. (MSL.) ,		Drainage Are	32,594		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	81.53	125.41	121.15	217.66	168.08	214.11	856.23	783.31	137.64	79.86	73.19	83.21		
2	81.53	132.12	119.32	230.51	147.47	222.64	863.18	766.03	132.73	79.30	71.52	79.30		
3	84.93	128.45	114.47	247.97	137.64	239.91	866.67	776.76	127.24	78.19	72.08	73.74		
4	87.22	140.09	118.10	252.37	131.51	258.25	875.97	776.76	122.97	77.08	71.52	71.00		
5	84.36	132.12	120.54	256.05	130.28	274.39	878.29	766.03	113.87	76.52	72.08	70.49		
6	77.08	122.36	117.50	275.19	130.89	280.78	877.13	749.15	107.21	73.74	72.63	71.00		
7	74.30	121.15	116.29	272.79	127.24	271.19	875.97	729.21	108.42	71.52	75.41	70.49		
8	73.74	113.26	114.47	253.11	135.18	243.57	856.23	708.17	104.22	73.74	74.30	74.30		
9	74.86	101.24	117.50	236.97	156.75	236.24	825.49	671.69	98.86	80.97	72.08	70.49		
10	79.86	98.27	121.75	225.50	168.08	274.39	795.52	623.24	97.67	87.80	72.63	70.49		
11	78.19	106.00	132.73	207.72	161.78	380.47	772.21	563.88	98.86	84.36	74.30	69.97		
12	73.19	107.82	143.77	188.90	146.85	552.85	764.52	510.59	106.00	83.79	74.86	71.00		
13	69.97	101.24	151.16	187.58	128.45	647.85	768.91	473.14	95.89	83.79	75.41	69.46		
14	78.19	98.27	153.01	196.36	115.08	664.28	779.98	424.22	93.53	83.21	75.41	68.94		
15	79.86	94.10	143.16	193.52	118.71	669.47	784.42	385.61	90.66	78.19	74.30	66.36		
16	77.08	79.86	133.96	179.03	128.45	631.69	770.00	355.97	87.80	75.41	73.74	67.39		
17	74.30	84.36	134.57	166.81	143.77	607.92	779.98	322.08	85.51	71.00	77.64	73.19		
18	74.86	104.22	143.77	164.92	152.40	617.40	795.52	295.05	86.65	72.08	84.36	74.86		
19	82.64	113.26	160.52	165.55	153.01	641.72	815.50	272.90	91.24	71.00	80.42	82.64		
20	82.64	121.15	175.81	166.18	150.55	656.06	833.26	254.49	87.22	73.74	79.30	89.52		
21	81.53	124.80	173.88	153.63	153.01	671.54	841.17	232.34	84.93	73.74	81.53	107.21		
22	78.75	122.97	176.46	149.93	152.40	693.65	836.59	208.33	83.21	75.97	86.65	124.80		
23	75.97	127.84	167.44	138.25	140.09	691.50	827.71	191.15	80.97	80.97	88.94	130.28		
24	74.30	140.09	156.12	137.64	132.12	690.43	829.93	187.16	78.75	87.22	90.66	135.18		
25	72.08	141.93	145.62	156.75	132.12	718.53	836.59	177.30	78.19	83.21	92.38	133.96		
26	77.08	139.48	138.86	178.39	121.75	779.98	842.33	158.32	78.75	75.41	90.66	124.19		
27	86.08	138.25	139.48	202.04	107.21	826.60	838.86	146.78	82.64	73.74	89.52	105.41		
28	88.37	143.77	141.93	242.10	104.81	852.75	825.49	143.55	79.30	73.74	87.80	94.10		
29	86.08	136.41	161.15	271.99	128.45	853.91	808.84	134.83	82.08	72.63		88.94		
30	77.08	121.75	194.94	256.78	163.67	853.91	795.52	129.89	82.08	69.46		88.37		
31		116.29		207.72	191.54		786.64		81.53	71.00		88.37		
Total	2367.65	3678.33	4249.43	6379.91	4359.34	16217.98	25504.65	12917.93	2966.62	2392.38	2205.32	2688.65	85928.19	CMSDAY
Mean	78.92	118.66	141.65	205.80	140.62	540.60	822.73	430.60	95.70	77.17	78.76	86.73	235.42	CMS
Max	88.37	143.77	194.94	275.19	191.54	853.91	878.29	783.31	137.64	87.80	92.38	135.18	878.29	CMS
Min	69.97	79.86	114.47	137.64	104.81	214.11	764.52	129.89	78.19	69.46	71.52	66.36	66.36	CMS
Runoff	204.56	317.81	367.15	551.22	376.65	1401.23	2203.60	1116.11	256.32	206.70	190.54	232.30	7424.20	MCM
Momentary Peak	878.29 CMS. at 29.95 m. (MSL.) at 01.00 Hours , on Oct 5, 2021													
Runoff Yield	7.22 Liters/Second/Square KM.			Momentary Peak Yield				26.95 Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Ban Hat Phai , Uttaradit (N.12A)

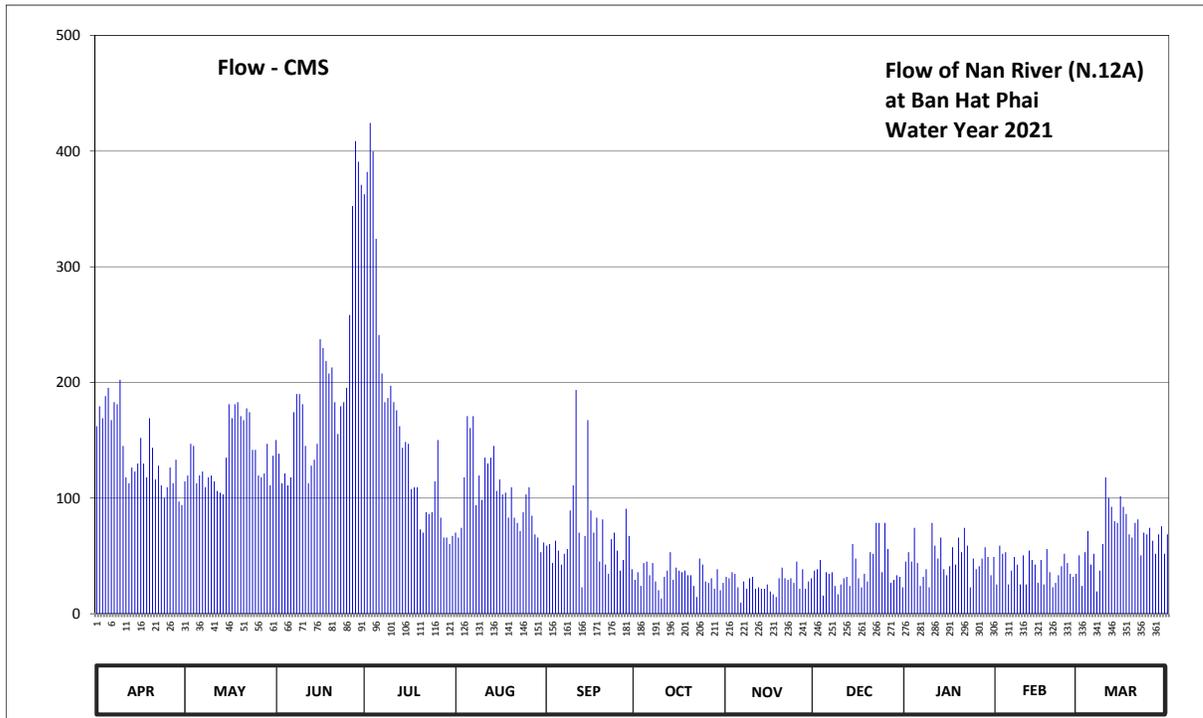
Lat 17 - 44 - 13 N Long 100 - 31 - 54 E

Location : on right bank about 4 kilometers downstream, Sirikit Dam Site, along Phasom - Silot road.

	Ban Hat Phai	Amphoe Tha Pla	Changwat	Uttaradit
<b>Drainage Area</b>	15,562	sq.km.		
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+69.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank in front of gage observer's house.		<b>Elevation</b>	+84.000 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	1966 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1966 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	1966 to date			
<b>Stability of Channel Regimes</b>	Rather unstable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records fair. Flow regulated by Sirikit Dam reservoir about 6 kilometers above gage site. Stage-discharge relation defined by 14 discharge measurements made in 2021.			

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.51	71.23	71.44	72.56	70.94	70.86	70.64	70.66	70.70	70.76	70.61	70.80	
2	71.61	71.26	71.37	72.65	70.91	70.87	70.69	70.65	70.71	70.82	70.86	70.60	
3	71.55	71.42	71.22	72.84	70.97	70.75	70.60	70.69	70.77	70.76	70.81	70.82	
4	71.66	71.41	71.27	72.73	71.25	70.89	70.75	70.68	70.53	70.97	70.82	70.95	
5	71.70	71.22	71.21	72.37	71.56	70.83	70.76	70.59	70.69	70.75	70.61	70.74	
6	71.54	71.26	71.25	71.95	71.50	70.74	70.67	70.48	70.68	70.60	70.70	70.81	
7	71.63	71.28	71.58	71.77	71.56	70.81	70.75	70.63	70.69	70.66	70.79	70.56	
8	71.62	71.20	71.67	71.63	71.10	70.84	70.63	70.58	70.60	70.71	70.74	70.70	
9	71.74	71.25	71.67	71.65	71.26	71.07	70.57	70.65	70.54	70.59	70.61	70.87	
10	71.41	71.26	71.62	71.71	71.13	71.21	70.51	70.66	70.61	71.00	70.80	71.25	
11	71.25	71.23	71.41	71.63	71.35	71.69	70.66	70.58	70.65	70.86	70.61	71.14	
12	71.22	71.18	71.22	71.59	71.32	70.94	70.70	70.59	70.66	70.78	70.83	71.09	
13	71.30	71.17	71.31	71.51	71.35	70.59	70.82	70.58	70.60	70.91	70.77	71.01	
14	71.28	71.16	71.34	71.40	71.41	70.92	70.64	70.58	70.87	70.71	70.74	71.00	
15	71.32	71.35	71.42	71.43	71.18	71.54	70.72	70.61	70.78	70.67	70.62	71.15	
16	71.45	71.62	71.93	71.42	71.24	71.07	70.70	70.56	70.65	70.73	70.77	71.09	
17	71.32	71.55	71.89	71.19	71.16	70.94	70.69	70.54	70.59	70.85	70.61	71.05	
18	71.25	71.62	71.83	71.20	71.17	71.03	70.70	70.52	70.68	70.74	70.84	70.93	
19	71.55	71.63	71.77	71.20	71.03	70.76	70.67	70.65	70.63	70.91	70.69	70.91	
20	71.40	71.56	71.80	70.96	71.20	71.02	70.67	70.72	70.82	70.82	70.59	71.00	
21	71.24	71.54	71.63	70.94	71.03	70.74	70.60	70.65	70.81	70.97	70.62	71.02	
22	71.31	71.60	71.47	71.06	71.00	70.68	70.52	70.64	71.00	70.86	70.67	70.80	
23	71.21	71.58	71.61	71.05	70.95	70.90	70.78	70.65	71.00	70.59	70.73	70.94	
24	71.14	71.39	71.63	71.06	71.06	70.94	70.74	70.62	70.69	70.78	70.81	70.93	
25	71.20	71.39	71.70	71.23	71.16	70.83	70.63	70.76	71.00	70.71	70.75	70.97	
26	71.30	71.26	72.04	71.44	71.20	70.70	70.62	70.58	70.84	70.73	70.68	70.89	
27	71.22	71.25	72.51	71.03	71.04	70.77	70.65	70.71	70.62	70.78	70.66	70.81	
28	71.34	71.27	72.77	70.91	70.93	71.08	70.58	70.58	70.64	70.85	70.68	70.93	
29	71.12	71.42	72.69	70.91	70.91	70.92	70.71	70.63	70.67	70.79		70.98	
30	71.10	71.21	72.60	70.87	70.82	70.71	70.57	70.65	70.66	70.67		70.81	
31		71.36		70.92	70.88		70.62		70.59	70.79		70.93	
Mean	71.38	71.36	71.70	71.51	71.15	70.92	70.66	70.62	70.71	70.78	70.72	70.92	
Max	71.74	71.63	72.77	72.84	71.56	71.69	70.82	70.76	71.00	71.00	70.86	71.25	72.84
Min	71.10	71.16	71.21	70.87	70.82	70.59	70.51	70.48	70.53	70.59	70.59	70.56	70.48
Annual Max Momentary Gage Height	74.26		m. (MSL.) ,			at 21.00 Hours ,	on Jul 1, 2021						
Zero Gage at Bottom Elevation	69.00		m. (MSL.) ,			River Bed	67.50	m. (MSL.)					
Left Bank Elevation		82.50		m. (MSL.) ,									
Right Bank Elevation		81.42		m. (MSL.) ,		Drainage Are	15,562	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	162.21	114.42	150.24	362.66	70.07	58.83	29.28	31.92	37.20	45.12	25.32	50.40		
2	179.37	119.53	138.29	381.90	65.86	60.24	35.88	30.60	38.52	53.21	58.83	24.00		
3	169.05	146.82	112.71	424.34	74.29	43.80	24.00	35.88	46.44	45.12	51.81	53.21		
4	188.19	145.11	121.24	399.66	117.83	63.05	43.80	34.56	15.60	74.29	53.21	71.48		
5	195.25	112.71	111.01	324.09	170.76	54.62	45.12	22.80	35.88	43.80	25.32	42.48		
6	167.34	119.53	117.83	240.95	160.50	42.48	33.24	9.60	34.56	24.00	37.20	51.81		
7	182.90	122.94	174.18	207.61	170.76	51.81	43.80	27.96	35.88	31.92	49.08	19.20		
8	181.13	109.30	189.96	182.90	93.90	56.02	27.96	21.60	24.00	38.52	42.48	37.20		
9	202.31	117.83	189.96	186.43	119.53	89.28	20.40	30.60	16.80	22.80	25.32	60.24		
10	145.11	119.53	181.13	197.02	98.52	111.01	13.20	31.92	25.32	78.50	50.40	117.83		
11	117.83	114.42	145.11	182.90	134.88	193.49	31.92	21.60	30.60	58.83	25.32	100.06		
12	112.71	106.22	112.71	175.89	129.76	70.07	37.20	22.80	31.92	47.76	54.62	92.36		
13	126.35	104.68	128.06	162.21	134.88	22.80	53.21	21.60	24.00	65.86	46.44	80.04		
14	122.94	103.14	133.17	143.40	145.11	67.26	29.28	21.60	60.24	38.52	42.48	78.50		
15	129.76	134.88	146.82	148.53	106.22	167.34	39.84	25.32	47.76	33.24	26.64	101.60		
16	151.95	181.13	237.21	146.82	116.12	89.28	37.20	19.20	30.60	41.16	46.44	92.36		
17	129.76	169.05	229.73	107.76	103.14	70.07	35.88	16.80	22.80	57.43	25.32	86.20		
18	117.83	181.13	218.51	109.30	104.68	83.12	37.20	14.40	34.56	42.48	56.02	68.67		
19	169.05	182.90	207.61	109.30	83.12	45.12	33.24	30.60	27.96	65.86	35.88	65.86		
20	143.40	170.76	212.90	72.88	109.30	81.58	33.24	39.84	53.21	53.21	22.80	78.50		
21	116.12	167.34	182.90	70.07	83.12	42.48	24.00	30.60	51.81	74.29	26.64	81.58		
22	128.06	177.60	155.37	87.74	78.50	34.56	14.40	29.28	78.50	58.83	33.24	50.40		
23	111.01	174.18	179.37	86.20	71.48	64.45	47.76	30.60	78.50	22.80	41.16	70.07		
24	100.06	141.70	182.90	87.74	87.74	70.07	42.48	26.64	35.88	47.76	51.81	68.67		
25	109.30	141.70	195.25	114.42	103.14	54.62	27.96	45.12	78.50	38.52	43.80	74.29		
26	126.35	119.53	258.24	150.24	109.30	37.20	26.64	21.60	56.02	41.16	34.56	63.05		
27	112.71	117.83	352.49	83.12	84.66	46.44	30.60	38.52	26.64	47.76	31.92	51.81		
28	133.17	121.24	408.54	65.86	68.67	90.82	21.60	29.28	57.43	34.56	68.67	68.67		
29	96.98	146.82	390.78	65.86	65.86	67.26	38.52	27.96	33.24	49.08		75.69		
30	93.90	111.01	370.80	60.24	53.21	38.52	20.40	30.60	31.92	33.24		51.81		
31		136.58		67.26	61.64		26.64		22.80	49.08		68.67		
<b>Total</b>	<b>4222.10</b>	<b>4231.56</b>	<b>5935.02</b>	<b>5205.30</b>	<b>3176.55</b>	<b>2067.69</b>	<b>1005.89</b>	<b>813.72</b>	<b>1196.94</b>	<b>1481.58</b>	<b>1098.62</b>	<b>2096.71</b>	<b>32531.68</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>140.74</b>	<b>136.50</b>	<b>197.83</b>	<b>167.91</b>	<b>102.47</b>	<b>68.92</b>	<b>32.45</b>	<b>27.12</b>	<b>38.61</b>	<b>47.79</b>	<b>39.24</b>	<b>67.64</b>	<b>89.13</b>	<b>CMS</b>
<b>Max</b>	<b>202.31</b>	<b>182.90</b>	<b>408.54</b>	<b>424.34</b>	<b>170.76</b>	<b>193.49</b>	<b>53.21</b>	<b>45.12</b>	<b>78.50</b>	<b>78.50</b>	<b>58.83</b>	<b>117.83</b>	<b>424.34</b>	<b>CMS</b>
<b>Min</b>	<b>93.90</b>	<b>103.14</b>	<b>111.01</b>	<b>60.24</b>	<b>53.21</b>	<b>22.80</b>	<b>13.20</b>	<b>9.60</b>	<b>15.60</b>	<b>22.80</b>	<b>22.80</b>	<b>19.20</b>	<b>9.60</b>	<b>CMS</b>
<b>Runoff</b>	<b>364.79</b>	<b>365.61</b>	<b>512.79</b>	<b>449.74</b>	<b>274.45</b>	<b>178.65</b>	<b>86.91</b>	<b>70.31</b>	<b>103.42</b>	<b>128.01</b>	<b>94.92</b>	<b>181.16</b>	<b>2810.74</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>761.00 CMS. at 74.26 m. (MSL.) at 21.00 Hours , on Jul 1, 2021</b>													
<b>Runoff Yield</b>	<b>5.73 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>			<b>48.90 Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## NAN RIVER BASIN

Nan River at Ban Bun Nak , Nan (N.13A)

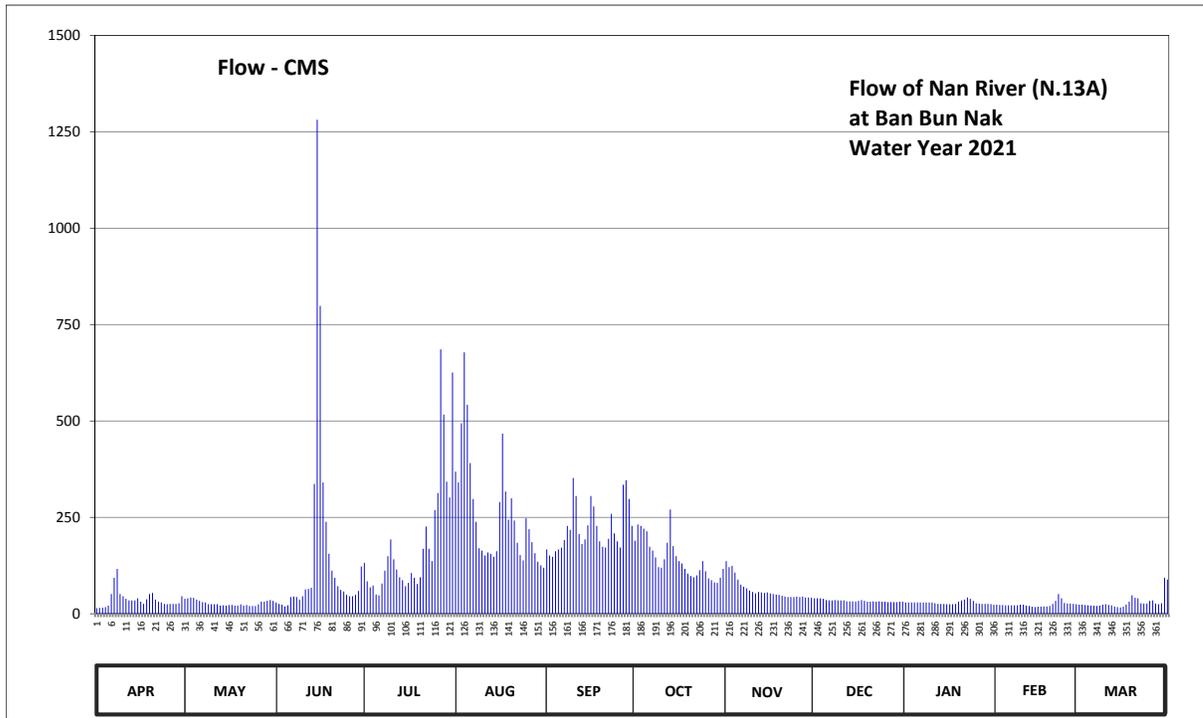
Lat 18 - 33 - 00 N Long 100 - 45 - 40 E

Location : on right bank about 2 kilometers upstream from Station N.13

	<b>Ban</b>	<b>Bun Nak</b>	<b>Amphoe</b>	<b>Wiang Sa</b>	<b>Changwat</b>	<b>Nan</b>
<b>Drainage Area</b>	8,719	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+177.400 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+192.700 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1987 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1987 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1987 to date					
<b>Stability of Channel Regimes</b>	Fairly Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.20	177.50	177.41	178.16	179.46	178.38	178.51	178.19	177.51	177.41	177.34	177.34	
2	177.21	177.51	177.37	177.85	179.32	178.28	178.75	178.09	177.51	177.41	177.33	177.34	
3	177.22	177.53	177.34	177.74	180.04	178.26	178.73	178.11	177.51	177.41	177.33	177.33	
4	177.25	177.52	177.28	177.77	180.80	178.35	178.69	178.00	177.50	177.41	177.32	177.32	
5	177.31	177.48	177.32	177.60	180.25	178.38	178.65	177.88	177.47	177.41	177.32	177.31	
6	177.61	177.45	177.54	177.58	179.57	178.41	178.42	177.79	177.46	177.41	177.32	177.31	
7	177.91	177.42	177.55	177.81	179.10	178.52	178.36	177.75	177.46	177.41	177.32	177.30	
8	178.06	177.41	177.54	178.03	178.79	178.73	178.25	177.72	177.47	177.41	177.32	177.31	
9	177.61	177.36	177.48	178.27	178.40	178.67	178.09	177.68	177.46	177.41	177.34	177.34	
10	177.56	177.36	177.56	178.53	178.36	179.38	178.08	177.65	177.46	177.41	177.34	177.36	
11	177.50	177.36	177.70	178.22	178.28	179.14	178.22	177.62	177.46	177.39	177.31	177.33	
12	177.46	177.36	177.71	178.05	178.33	178.61	178.48	177.65	177.44	177.37	177.30	177.32	
13	177.46	177.31	177.73	177.92	178.31	178.46	178.96	177.64	177.44	177.37	177.26	177.27	
14	177.46	177.32	179.30	177.87	178.26	178.53	178.43	177.63	177.44	177.37	177.25	177.25	
15	177.51	177.31	183.00	177.76	178.35	178.74	178.27	177.64	177.43	177.36	177.27	177.23	
16	177.43	177.33	181.27	177.82	179.06	179.14	178.19	177.62	177.45	177.36	177.27	177.26	
17	177.37	177.33	179.32	177.99	179.92	179.00	178.15	177.61	177.47	177.36	177.28	177.34	
18	177.49	177.31	178.79	177.91	179.20	178.73	178.06	177.60	177.45	177.37	177.28	177.43	
19	177.61	177.31	178.31	177.80	178.82	178.50	177.98	177.59	177.43	177.43	177.30	177.58	
20	177.63	177.35	178.03	177.92	179.11	178.42	177.94	177.57	177.43	177.46	177.37	177.52	
21	177.48	177.31	177.91	178.39	178.81	178.41	177.92	177.55	177.44	177.48	177.45	177.51	
22	177.43	177.33	177.76	178.72	178.48	178.54	177.95	177.54	177.43	177.53	177.61	177.39	
23	177.41	177.30	177.69	178.39	178.29	178.90	178.04	177.54	177.44	177.50	177.51	177.38	
24	177.37	177.30	177.66	178.19	178.20	178.62	178.19	177.54	177.43	177.45	177.40	177.38	
25	177.36	177.29	177.59	178.95	178.84	178.50	178.02	177.55	177.43	177.39	177.38	177.45	
26	177.37	177.35	177.56	179.18	178.68	178.41	177.90	177.54	177.42	177.38	177.38	177.46	
27	177.37	177.43	177.56	180.83	178.49	179.29	177.87	177.55	177.42	177.37	177.37	177.38	
28	177.37	177.43	177.59	180.14	178.32	179.35	177.83	177.53	177.42	177.37	177.36	177.36	
29	177.39	177.45	177.67	179.33	178.18	179.10	177.82	177.53	177.42	177.37		177.39	
30	177.56	177.47	178.10	179.12	178.12	178.73	177.91	177.52	177.43	177.36		177.91	
31		177.45		180.59	178.08		178.06		177.43	177.34		177.88	
Mean	177.47	177.39	178.09	178.40	178.85	178.68	178.22	177.68	177.45	177.40	177.34	177.40	
Max	178.06	177.53	183.00	180.83	180.80	179.38	178.96	178.19	177.51	177.53	177.61	177.91	183.00
Min	177.20	177.29	177.28	177.58	178.08	178.26	177.82	177.52	177.42	177.34	177.25	177.23	177.20
Annual Max Momentary Gage Height	183.50		m. (MSL.) ,				at 06.00 Hours ,						on Jun 15, 2021
Zero Gage at Bottom Elevation	177.40		m. (MSL.) ,			River Bed	175.10	m. (MSL.)					
Left Bank Elevation		190.26		m. (MSL.) ,									
Right Bank Elevation		192.61		m. (MSL.) ,		Drainage Are	8,719	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.50	38.80	29.08	131.80	368.30	166.80	189.25	136.45	39.92	29.08	23.38	23.38	
2	15.08	39.92	25.69	84.25	340.40	150.80	231.25	120.95	39.92	29.08	22.61	23.38	
3	15.66	42.16	23.38	68.60	494.00	147.60	227.75	124.05	39.92	29.08	22.61	22.61	
4	17.40	41.04	19.14	72.80	678.00	162.00	220.75	107.00	38.80	29.08	21.84	21.84	
5	21.07	36.64	21.84	50.00	542.00	166.80	213.75	88.60	35.56	29.08	21.84	21.07	
6	51.30	33.40	43.28	47.76	390.85	171.75	173.50	75.60	34.48	29.08	21.84	21.07	
7	93.05	30.16	44.40	78.45	297.50	191.00	163.60	70.00	34.48	29.08	21.84	20.30	
8	116.30	29.08	43.28	111.65	238.25	227.75	146.00	65.80	35.56	29.08	21.84	21.07	
9	51.30	24.92	36.64	149.20	170.00	217.25	120.95	60.40	34.48	29.08	23.38	23.38	
10	45.52	24.92	45.52	192.75	163.60	352.10	119.40	56.50	34.48	29.08	23.38	24.92	
11	38.80	24.92	63.00	141.20	150.80	305.30	141.20	52.60	34.48	27.23	21.07	22.61	
12	34.48	24.92	64.40	114.75	158.80	206.75	184.00	56.50	32.32	25.69	20.30	21.84	
13	34.48	21.07	67.20	94.60	155.60	180.50	270.40	55.20	32.32	25.69	17.98	18.56	
14	34.48	21.84	336.50	87.15	147.60	192.75	175.25	53.90	32.32	25.69	17.40	17.40	
15	39.92	21.07	1281.00	71.40	162.00	229.50	149.20	55.20	31.24	24.92	18.56	16.24	
16	31.24	22.61	798.55	79.90	289.70	305.30	136.45	52.60	33.40	24.92	18.56	17.98	
17	25.69	22.61	340.40	105.45	467.00	278.00	130.25	51.30	35.56	24.92	19.14	23.38	
18	37.72	21.07	238.25	93.05	317.00	227.75	116.30	50.00	33.40	25.69	19.14	31.24	
19	51.30	21.07	155.60	77.00	243.80	187.50	103.90	48.88	31.24	31.24	20.30	47.76	
20	53.90	24.15	111.65	94.60	299.45	173.50	97.70	46.64	31.24	34.48	25.69	41.04	
21	36.64	21.07	93.05	168.40	241.90	171.75	94.60	44.40	32.32	36.64	33.40	39.92	
22	31.24	22.61	71.40	226.00	184.00	194.50	99.25	43.28	31.24	42.16	51.30	27.23	
23	29.08	20.30	61.70	168.40	152.40	259.00	113.20	43.28	32.32	38.80	39.92	26.46	
24	25.69	20.30	57.80	136.45	138.00	208.50	136.45	43.28	31.24	33.40	28.00	26.46	
25	24.92	19.72	48.88	268.50	247.60	187.50	110.10	44.40	31.24	27.23	26.46	33.40	
26	25.69	24.15	45.52	313.10	219.00	171.75	91.50	43.28	30.16	26.46	26.46	34.48	
27	25.69	31.24	45.52	685.65	185.75	334.55	87.15	44.40	30.16	25.69	25.69	26.46	
28	25.69	31.24	48.88	516.50	157.20	346.25	81.35	42.16	30.16	25.69	24.92	24.92	
29	27.23	33.40	59.10	342.35	134.90	297.50	79.90	42.16	30.16	25.69		27.23	
30	45.52	35.56	122.50	301.40	125.60	227.75	93.05	41.04	31.24	24.92		93.05	
31		33.40		625.50	119.40		116.30		31.24	23.38		88.60	
Total	1120.58	859.36	4443.15	5698.61	7980.40	6639.75	4413.70	1859.85	1036.60	891.33	678.85	929.28	36551.46 CMSDAY
Mean	37.35	27.72	148.11	183.83	257.43	221.33	142.38	62.00	33.44	28.75	24.24	29.98	100.14 CMS
Max	116.30	42.16	1281.00	685.65	678.00	352.10	270.40	136.45	39.92	42.16	51.30	93.05	1281.00 CMS
Min	14.50	19.72	19.14	47.76	119.40	147.60	79.90	41.04	30.16	23.38	17.40	16.24	14.50 CMS
Runoff	96.82	74.25	383.89	492.36	689.51	573.67	381.34	160.69	89.56	77.01	58.65	80.29	3158.05 MCM
Momentary Peak	1430.00	CMS.	at 183.50 m. (MSL.)	at 06.00 Hours	on Jun 15, 2021								
Runoff Yield	11.49	Liters/Second/Square KM.		Momentary Peak Yield	164.01	Liters/Second/Square KM.							

## WATER YEAR : 2021

## Nan RIVER BASIN

## Nan River at Wat Luang Pho Kao , Nakhon Sawan (N.14A)

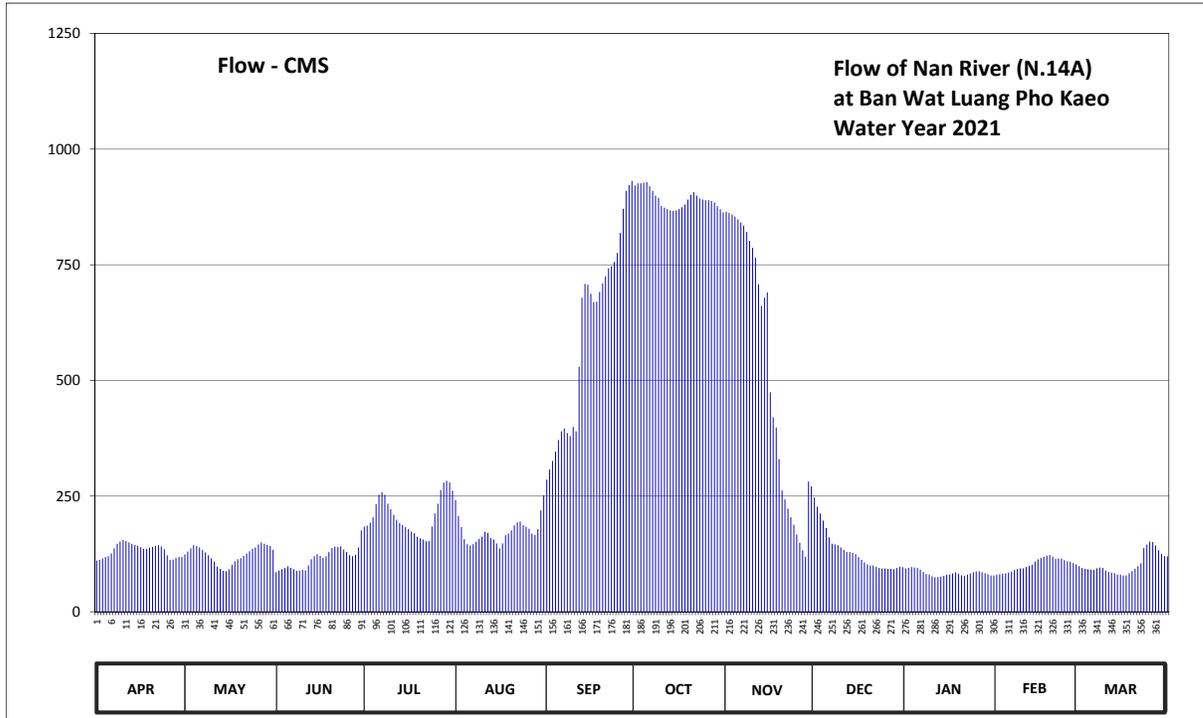
Lat 15 - 54 - 02 N Long 100 - 18 - 24 E

Location : on right bank in front of Wat Luang Pho Kao about 1 kilometer upstream from Station N.14

	<b>Ban</b>	Wat Luang Pho Kao	<b>Amphoe</b>	Chum Saeng	<b>Changwat</b>	Nakhon Sawan
<b>Drainage Area</b>	32,637	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank in front of automatic gage building.				<b>Elevation</b>	+32.155 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1971 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1973 - 1979, 1991 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1972 - 1980, 1991 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow					
<b>General Description</b>	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 17 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.11	19.32	18.67	20.24	20.98	21.53	27.77	27.30	21.05	18.82	18.57	18.90	
2	19.13	19.42	18.73	20.27	20.55	21.79	27.81	27.28	20.80	18.84	18.59	18.83	
3	19.18	19.53	18.79	20.36	20.23	22.01	27.81	27.25	20.62	18.87	18.61	18.80	
4	19.23	19.64	18.83	20.51	19.85	22.25	27.82	27.21	20.42	18.85	18.62	18.78	
5	19.26	19.61	18.89	20.87	19.68	22.54	27.83	27.16	20.20	18.83	18.65	18.77	
6	19.36	19.56	18.84	21.12	19.63	22.74	27.76	27.10	19.92	18.77	18.69	18.76	
7	19.53	19.48	18.78	21.19	19.68	22.80	27.68	27.04	19.69	18.68	18.75	18.82	
8	19.69	19.39	18.72	21.12	19.76	22.70	27.60	26.92	19.67	18.60	18.79	18.85	
9	19.77	19.29	18.73	20.88	19.86	22.63	27.56	26.75	19.64	18.58	18.82	18.83	
10	19.82	19.18	18.76	20.73	19.94	22.84	27.41	26.62	19.56	18.51	18.82	18.73	
11	19.79	19.07	18.74	20.58	20.09	22.74	27.38	26.43	19.48	18.47	18.87	18.67	
12	19.74	18.88	18.92	20.44	20.06	24.18	27.35	25.92	19.41	18.48	18.91	18.65	
13	19.69	18.80	19.15	20.35	19.89	25.64	27.33	25.47	19.40	18.50	18.96	18.63	
14	19.65	18.72	19.26	20.29	19.84	25.93	27.32	25.64	19.38	18.53	19.07	18.58	
15	19.62	18.71	19.33	20.23	19.70	25.91	27.33	25.75	19.33	18.57	19.15	18.57	
16	19.57	18.78	19.27	20.17	19.53	25.72	27.35	24.67	19.23	18.58	19.20	18.54	
17	19.52	18.95	19.20	20.10	19.70	25.55	27.39	24.34	19.13	18.62	19.24	18.54	
18	19.52	19.08	19.25	20.05	19.99	25.56	27.44	24.20	19.04	18.66	19.28	18.63	
19	19.55	19.15	19.40	19.94	20.04	25.76	27.53	23.73	18.97	18.61	19.30	18.71	
20	19.58	19.19	19.54	19.88	20.13	25.94	27.61	23.20	18.93	18.55	19.24	18.80	
21	19.61	19.27	19.59	19.84	20.28	26.08	27.66	23.04	18.93	18.53	19.17	18.90	
22	19.64	19.35	19.58	19.78	20.37	26.23	27.60	22.85	18.88	18.57	19.18	19.01	
23	19.60	19.43	19.60	19.79	20.39	26.27	27.55	22.67	18.83	18.62	19.18	19.54	
24	19.50	19.52	19.49	20.24	20.29	26.35	27.53	22.51	18.81	18.67	19.12	19.66	
25	19.29	19.56	19.41	20.62	20.24	26.52	27.52	22.26	18.81	18.70	19.08	19.77	
26	19.13	19.67	19.29	20.88	20.18	26.90	27.52	22.05	18.80	18.70	19.07	19.75	
27	19.14	19.74	19.26	21.25	20.04	27.36	27.51	21.81	18.80	18.67	19.02	19.63	
28	19.20	19.69	19.31	21.45	20.00	27.68	27.48	21.59	18.78	18.63	18.97	19.47	
29	19.23	19.65	19.56	21.50	20.17	27.78	27.41	21.48	18.83	18.59		19.34	
30	19.23	19.62	20.13	21.45	20.70	27.85	27.35	21.35	18.88	18.54		19.26	
31		19.48		21.23	21.11		27.29		18.86	18.54		19.25	
Mean	19.46	19.31	19.17	20.56	20.09	24.86	27.53	24.72	19.39	18.63	18.96	18.97	
Max	19.82	19.74	20.13	21.50	21.11	27.85	27.83	27.30	21.05	18.87	19.30	19.77	27.85
Min	19.11	18.71	18.67	19.78	19.53	21.53	27.29	21.35	18.78	18.47	18.57	18.54	18.47
Annual Max Momentary Gage Height	27.86		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	14.37	m. (MSL.)					
Left Bank Elevation		29.84		m. (MSL.) ,									
Right Bank Elevation		32.10		m. (MSL.) ,		Drainage Are	32,637	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	110.82	123.84	85.52	183.76	241.40	285.52	921.02	864.20	247.00	93.92	79.92	98.40		
2	112.06	130.04	88.88	185.98	207.00	307.36	926.06	861.92	227.00	95.04	81.04	94.48		
3	115.16	136.86	92.24	192.64	183.02	325.84	926.06	858.50	212.60	96.72	82.16	92.80		
4	118.26	143.68	94.48	203.80	156.70	346.00	927.32	853.94	197.08	95.60	82.72	91.68		
5	120.12	141.82	97.84	232.60	146.16	370.84	928.58	848.24	180.80	94.48	84.40	91.12		
6	126.32	138.72	95.04	252.60	143.06	390.04	919.76	841.40	161.04	91.12	86.64	90.56		
7	136.86	133.76	91.68	258.20	146.16	395.80	909.68	834.56	146.78	86.08	90.00	93.92		
8	146.78	128.18	88.32	252.60	151.12	386.20	899.60	820.88	145.54	81.60	92.24	95.60		
9	151.74	121.98	88.88	233.40	157.32	379.48	894.56	801.50	143.68	80.48	93.92	94.48		
10	154.84	115.16	90.56	221.40	162.28	399.64	876.74	786.68	138.72	76.56	93.92	88.88		
11	152.98	108.34	89.44	209.40	172.66	390.04	873.32	765.02	133.76	74.50	96.72	85.52		
12	149.88	97.28	99.52	198.56	170.44	529.36	869.90	707.68	129.42	75.00	98.96	84.40		
13	146.78	92.80	113.30	191.90	159.18	678.56	867.62	660.94	128.80	76.00	101.76	83.28		
14	144.30	88.32	120.12	187.46	156.08	708.72	866.48	678.56	127.56	77.68	108.34	80.48		
15	142.44	87.76	124.46	183.02	147.40	706.64	867.62	690.00	124.46	79.92	113.30	79.92		
16	139.34	91.68	120.74	178.58	136.86	686.88	869.90	474.58	118.26	80.48	116.40	78.24		
17	136.24	101.20	116.40	173.40	147.40	669.20	874.46	420.04	112.06	82.72	118.88	78.24		
18	136.24	108.96	119.50	169.70	165.38	670.24	880.16	398.20	106.48	84.96	121.36	83.28		
19	138.10	113.30	128.80	162.28	168.96	691.04	890.78	329.74	102.32	82.16	122.60	87.76		
20	139.96	115.78	137.48	158.56	175.62	709.76	900.86	262.00	100.08	78.80	118.88	92.80		
21	141.82	120.74	140.58	156.08	186.72	725.12	907.16	242.80	100.08	77.68	114.54	98.40		
22	143.68	125.70	139.96	152.36	193.38	742.22	899.60	222.70	97.28	79.92	115.16	104.62		
23	141.20	130.66	141.20	152.98	194.86	746.78	893.30	204.34	94.48	82.72	115.16	137.48		
24	135.00	136.24	134.38	183.76	187.46	755.90	890.78	188.02	93.36	85.52	111.44	144.92		
25	121.98	138.72	129.42	212.60	183.76	775.28	889.52	166.84	93.36	87.20	108.96	151.74		
26	112.06	145.54	121.98	233.40	179.32	818.60	889.52	149.20	92.80	87.20	108.34	150.50		
27	112.68	149.88	120.12	263.00	168.96	871.04	888.26	132.84	92.80	85.52	105.24	143.06		
28	116.40	146.78	123.22	279.00	166.00	909.68	884.72	118.76	91.68	83.28	102.32	133.14		
29	118.26	144.30	138.72	283.00	178.58	922.28	876.74	281.40	94.48	81.04	125.08	133.14		
30	118.26	142.44	175.62	279.00	219.00	931.10	869.90	271.00	97.28	78.24	120.12	120.12		
31	133.76			261.40	251.80		863.06		96.16	78.24		119.50		
<b>Total</b>	<b>3980.56</b>	<b>3834.22</b>	<b>3448.40</b>	<b>6486.42</b>	<b>5404.04</b>	<b>18225.16</b>	<b>27643.04</b>	<b>15736.48</b>	<b>4027.20</b>	<b>2590.38</b>	<b>2865.32</b>	<b>3194.40</b>	<b>97435.62</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>132.69</b>	<b>123.68</b>	<b>114.95</b>	<b>209.24</b>	<b>174.32</b>	<b>607.51</b>	<b>891.71</b>	<b>524.55</b>	<b>129.91</b>	<b>83.56</b>	<b>102.33</b>	<b>103.05</b>	<b>266.95</b>	<b>CMS</b>
<b>Max</b>	<b>154.84</b>	<b>149.88</b>	<b>175.62</b>	<b>283.00</b>	<b>251.80</b>	<b>931.10</b>	<b>928.58</b>	<b>864.20</b>	<b>247.00</b>	<b>96.72</b>	<b>122.60</b>	<b>151.74</b>	<b>931.10</b>	<b>CMS</b>
<b>Min</b>	<b>110.82</b>	<b>87.76</b>	<b>85.52</b>	<b>152.36</b>	<b>136.86</b>	<b>285.52</b>	<b>863.06</b>	<b>118.76</b>	<b>91.68</b>	<b>74.50</b>	<b>79.92</b>	<b>78.24</b>	<b>74.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>343.92</b>	<b>331.28</b>	<b>297.94</b>	<b>560.43</b>	<b>466.91</b>	<b>1574.65</b>	<b>2388.36</b>	<b>1359.63</b>	<b>347.95</b>	<b>223.81</b>	<b>247.56</b>	<b>276.00</b>	<b>8418.44</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>932.36 CMS. at 27.86 m. (MSL.) at 09.00 Hours , on Sep 30, 2021</b>													
<b>Runoff Yield</b>	<b>8.18 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>			<b>28.57 Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## NAN RIVER BASIN

## Khek River at Ban Wang Nok Aen , Phitsanulok (N.24A)

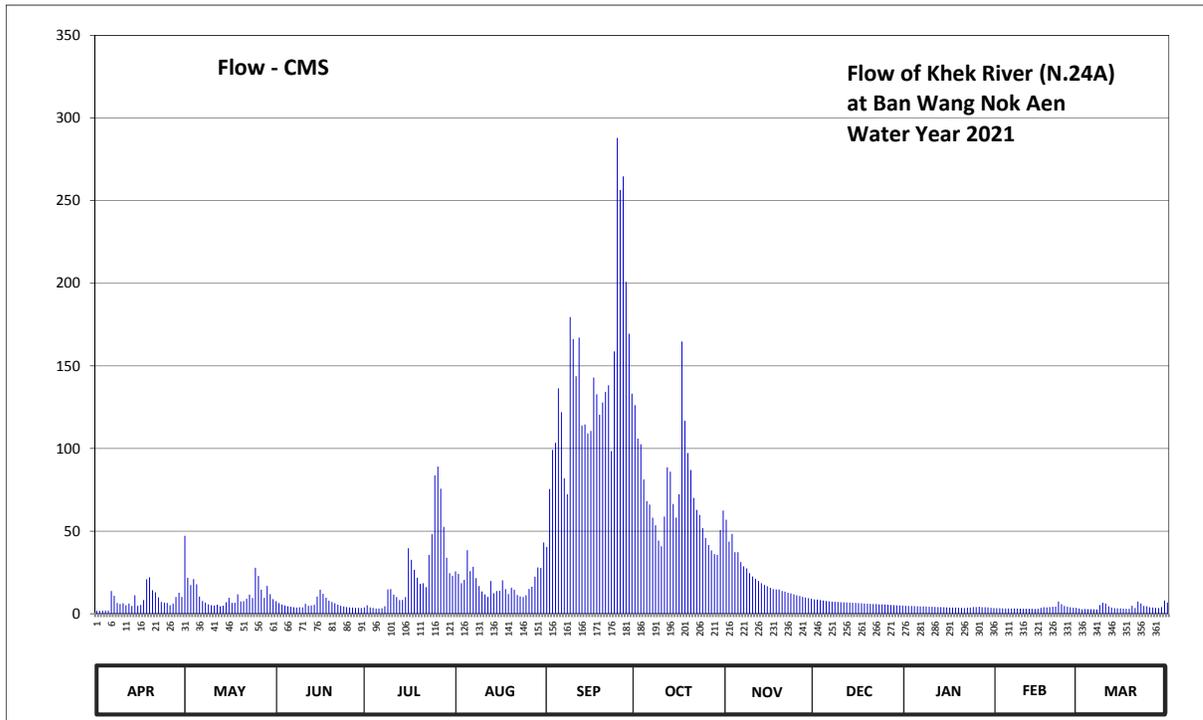
Lat 16 - 50 - 50 N Long 100 - 30 - 44 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

	<b>Ban</b>	<b>Wang Nok Aen</b>	<b>Amphoe</b>	<b>Wang Thong</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	1,840	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+40.710 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage site.				<b>Elevation</b>	+54.258 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1965 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1965 - 1974 , 1980 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1965 - 1974 , 1980 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

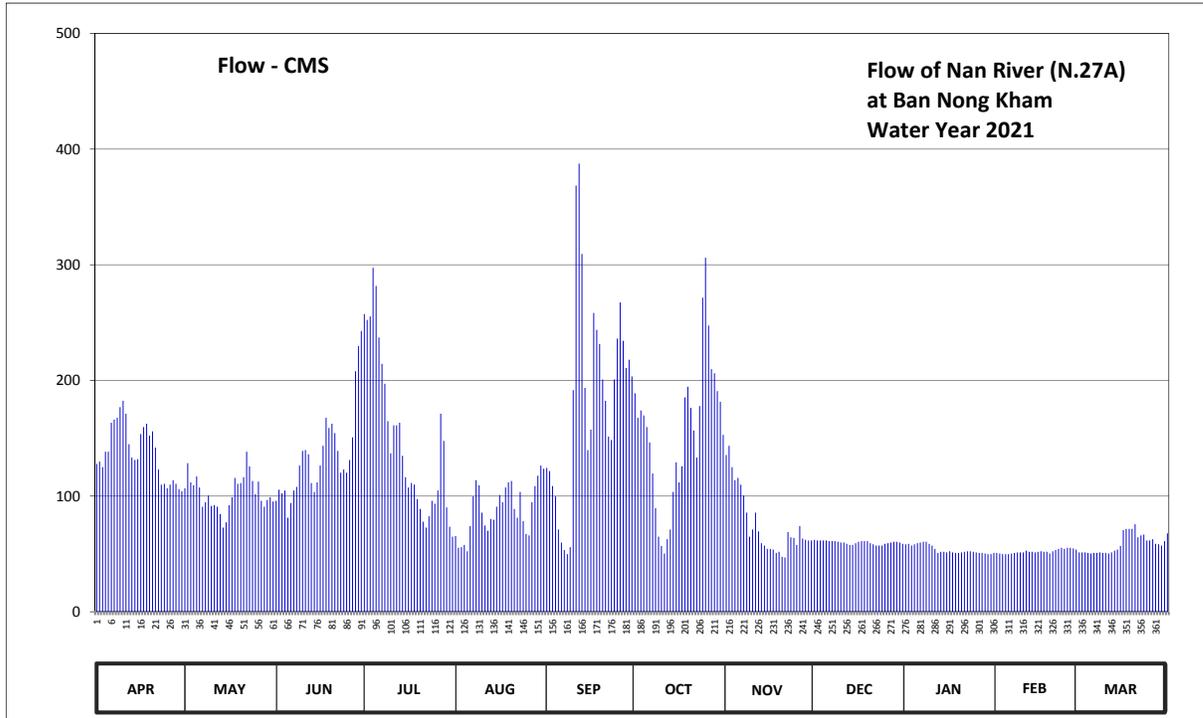
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.79	45.99	42.84	42.22	44.54	45.56	49.41	46.56	43.00	42.41	42.14	42.11	
2	41.79	44.26	42.67	42.45	44.44	47.55	48.77	45.77	42.98	42.39	42.13	42.00	
3	41.81	43.91	42.54	42.22	44.00	48.53	48.65	46.06	42.94	42.38	42.12	42.03	
4	41.80	44.20	42.44	42.17	44.16	48.68	47.82	45.35	42.90	42.37	42.10	42.01	
5	41.82	43.94	42.36	42.11	45.43	49.70	47.18	45.35	42.86	42.36	42.11	42.01	
6	43.58	43.21	42.30	42.10	44.56	49.28	47.07	44.94	42.83	42.34	42.11	42.00	
7	43.26	42.85	42.25	42.13	44.74	47.85	46.63	44.76	42.80	42.33	42.11	41.98	
8	42.68	42.71	42.21	42.36	44.24	47.39	46.37	44.67	42.78	42.31	42.10	42.49	
9	42.59	42.56	42.25	43.67	43.85	50.69	45.81	44.47	42.77	42.30	42.08	42.70	
10	42.65	42.47	42.23	43.69	43.55	50.42	45.59	44.32	42.75	42.29	42.06	42.62	
11	42.46	42.42	42.60	43.34	43.35	49.90	46.67	44.21	42.74	42.28	42.06	42.36	
12	42.63	42.53	42.41	43.17	43.19	50.44	48.13	44.11	42.73	42.27	42.05	42.21	
13	42.38	42.35	42.44	42.94	44.11	49.03	48.02	44.00	42.71	42.26	42.05	42.13	
14	43.30	42.43	42.51	42.95	43.43	49.05	47.09	43.91	42.70	42.24	42.04	42.12	
15	42.40	42.75	43.21	43.17	43.58	48.88	46.63	43.84	42.69	42.23	42.06	42.12	
16	42.49	43.11	43.65	45.51	43.59	48.93	47.39	43.76	42.67	42.21	42.18	42.09	
17	42.94	42.69	43.40	45.03	44.14	49.88	50.39	43.69	42.65	42.21	42.24	42.05	
18	44.19	42.70	43.13	44.61	43.69	49.60	49.12	43.67	42.63	42.20	42.23	42.05	
19	44.28	43.36	42.88	44.26	43.38	49.23	48.46	43.67	42.61	42.19	42.27	42.41	
20	43.62	42.82	42.77	43.97	43.77	49.46	48.06	43.58	42.60	42.17	42.30	42.15	
21	43.50	42.84	42.66	44.00	43.65	49.64	47.28	43.54	42.59	42.16	42.32	42.81	
22	43.15	43.04	42.52	43.79	43.32	49.75	46.89	43.47	42.58	42.19	42.81	42.64	
23	42.77	43.34	42.41	45.24	43.22	48.50	46.72	43.42	42.55	42.21	42.57	42.38	
24	42.72	43.10	42.33	46.05	43.17	50.26	46.27	43.36	42.55	42.26	42.39	42.36	
25	42.68	44.70	42.26	47.93	43.30	52.31	45.91	43.30	42.54	42.27	42.30	42.24	
26	42.48	44.35	42.23	48.15	43.70	51.90	45.64	43.25	42.52	42.29	42.24	42.20	
27	42.62	43.65	42.20	47.56	43.82	52.01	45.42	43.19	42.50	42.25	42.19	42.17	
28	43.18	43.11	42.18	46.31	44.31	51.06	45.27	43.14	42.48	42.24	42.18	42.15	
29	43.47	43.86	42.17	45.12	44.71	50.49	45.24	43.09	42.45	42.22		42.26	
30	43.19	43.37	42.15	44.47	44.69	49.61	46.20	43.04	42.44	42.18		42.90	
31		43.02		44.35	45.74		46.87		42.42	42.16		42.71	
Mean	42.81	43.28	42.54	44.10	43.98	49.52	47.13	44.12	42.68	42.26	42.20	42.27	
Max	44.28	45.99	43.65	48.15	45.74	52.31	50.39	46.56	43.00	42.41	42.81	42.90	52.31
Min	41.79	42.35	42.15	42.10	43.17	45.56	45.24	43.04	42.42	42.16	42.04	41.98	41.79
Annual Max Momentary Gage Height	53.16		m. (MSL.) ,				at 18.00 Hours ,						on Sep 25, 2021
Zero Gage at Bottom Elevation	40.71		m. (MSL.) ,			River Bed	41.59		m. (MSL.)				
Left Bank Elevation		54.31		m. (MSL.) ,									
Right Bank Elevation		53.92		m. (MSL.) ,		Drainage Are	1,840		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.84	47.16	7.58	3.81	25.56	40.39	126.24	56.88	8.70	4.83	3.38	3.21		
2	1.84	21.78	6.44	5.05	24.16	75.50	105.96	43.63	8.56	4.73	3.32	2.72		
3	1.92	17.42	5.58	3.81	18.50	99.20	102.56	48.29	8.28	4.67	3.27	2.85		
4	1.88	21.00	5.00	3.54	20.48	103.40	81.24	37.23	8.00	4.62	3.16	2.76		
5	1.96	17.78	4.56	3.21	38.43	136.44	68.16	37.23	7.72	4.56	3.21	2.76		
6	13.80	10.39	4.24	3.16	25.84	122.01	66.06	31.30	7.51	4.46	3.21	2.72		
7	10.84	7.65	3.97	3.32	28.42	81.92	58.14	28.70	7.30	4.40	3.21	2.63		
8	6.51	6.71	3.75	4.56	21.52	72.30	53.55	27.41	7.17	4.29	3.16	5.27		
9	5.91	5.72	3.97	14.70	16.73	179.57	44.27	24.58	7.10	4.24	3.07	6.64		
10	6.31	5.16	3.86	14.90	13.50	166.14	40.85	22.56	6.97	4.19	2.98	6.11		
11	5.10	4.89	5.98	11.56	11.65	143.72	58.86	21.13	6.90	4.13	2.98	4.56		
12	6.18	5.52	4.83	10.06	10.22	167.09	88.58	19.83	6.84	4.08	2.94	3.75		
13	4.67	4.51	5.00	8.28	19.83	113.89	85.93	18.50	6.71	4.02	2.94	3.32		
14	11.20	4.94	5.39	8.35	12.37	114.54	66.42	17.42	6.64	3.92	2.90	3.27		
15	4.78	6.97	10.39	10.06	13.80	109.09	58.14	16.61	6.57	3.86	2.98	3.27		
16	5.27	9.58	14.50	39.63	13.90	110.64	72.30	15.69	6.44	3.75	3.59	3.12		
17	8.28	6.57	12.10	32.59	20.22	142.99	164.70	14.90	6.31	3.75	3.92	2.94		
18	20.87	6.64	9.74	26.54	14.90	132.80	116.81	14.70	6.18	3.70	3.86	2.94		
19	22.04	11.74	7.86	21.78	11.92	120.39	97.24	14.70	6.05	3.65	4.08	4.83		
20	14.20	7.44	7.10	18.14	15.81	127.86	86.88	13.80	5.98	3.54	4.24	3.43		
21	13.00	7.58	6.38	18.50	14.50	134.26	70.11	13.40	5.91	3.48	4.35	7.37		
22	9.90	9.02	5.45	16.04	11.38	138.26	62.82	12.73	5.85	3.65	7.37	6.24		
23	7.10	11.56	4.83	35.62	10.48	98.36	59.76	12.28	5.65	3.75	5.78	4.67		
24	6.77	9.50	4.40	48.13	10.06	158.70	51.83	11.74	5.65	4.02	4.73	4.56		
25	6.51	27.84	4.02	83.78	11.20	287.97	45.86	11.20	5.58	4.08	4.24	3.92		
26	5.21	22.95	3.86	89.07	15.00	256.38	41.61	10.75	5.45	4.19	3.92	3.70		
27	6.11	14.50	3.70	75.70	16.38	264.65	38.28	10.22	5.32	3.97	3.65	3.54		
28	10.14	9.58	3.59	52.51	22.43	200.78	36.05	9.82	5.21	3.92	3.59	3.43		
29	12.73	16.84	3.54	33.89	27.98	169.48	35.62	9.42	5.05	3.81		4.02		
30	10.22	11.83	3.43	24.58	27.70	133.16	50.64	9.02	5.00	3.59		8.00		
31		8.86		22.95	43.16		62.46		4.89	3.48		6.71		
<b>Total</b>	<b>243.09</b>	<b>379.63</b>	<b>175.04</b>	<b>747.82</b>	<b>588.03</b>	<b>4201.88</b>	<b>2197.93</b>	<b>635.67</b>	<b>201.49</b>	<b>125.33</b>	<b>104.03</b>	<b>129.26</b>	<b>9729.20</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>8.10</b>	<b>12.25</b>	<b>5.83</b>	<b>24.12</b>	<b>18.97</b>	<b>140.06</b>	<b>70.90</b>	<b>21.19</b>	<b>6.50</b>	<b>4.04</b>	<b>3.72</b>	<b>4.17</b>	<b>26.66</b>	<b>CMS</b>
<b>Max</b>	<b>22.04</b>	<b>47.16</b>	<b>14.50</b>	<b>89.07</b>	<b>43.16</b>	<b>287.97</b>	<b>164.70</b>	<b>56.88</b>	<b>8.70</b>	<b>4.83</b>	<b>7.37</b>	<b>8.00</b>	<b>287.97</b>	<b>CMS</b>
<b>Min</b>	<b>1.84</b>	<b>4.51</b>	<b>3.43</b>	<b>3.16</b>	<b>10.06</b>	<b>40.39</b>	<b>35.62</b>	<b>9.02</b>	<b>4.89</b>	<b>3.48</b>	<b>2.90</b>	<b>2.63</b>	<b>1.84</b>	<b>CMS</b>
<b>Runoff</b>	<b>21.00</b>	<b>32.80</b>	<b>15.12</b>	<b>64.61</b>	<b>50.81</b>	<b>363.04</b>	<b>189.90</b>	<b>54.92</b>	<b>17.41</b>	<b>10.83</b>	<b>8.99</b>	<b>11.17</b>	<b>840.60</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>358.36</b>	<b>CMS.</b>	<b>at 53.16 m. (MSL.) at 18.00 Hours , on Sep 25, 2021</b>										
<b>Runoff Yield</b>		<b>14.49</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>194.76</b>	<b>Liters/Second/Square KM.</b>						





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	127.78	106.72	95.89	257.30	65.50	124.32	188.87	135.48	62.13	58.26	50.81	51.31		
2	129.86	128.48	105.45	252.26	55.28	121.56	167.61	143.39	61.57	58.76	50.31	51.31		
3	125.02	111.82	102.26	255.28	55.78	108.63	174.03	125.02	61.57	57.27	49.81	51.31		
4	138.35	109.27	104.81	297.34	57.77	99.71	169.75	113.74	61.57	58.26	49.81	50.81		
5	138.35	116.93	81.24	281.62	52.30	71.12	159.64	115.65	61.57	59.32	49.81	50.31		
6	163.33	107.36	93.98	237.07	73.93	59.88	146.26	109.91	61.01	59.88	50.31	50.81		
7	166.19	90.80	104.81	214.26	99.71	53.29	119.48	100.35	61.01	60.45	50.81	50.81		
8	167.61	94.62	108.00	197.12	113.74	49.81	89.52	85.70	61.01	60.45	51.31	51.31		
9	176.88	100.35	126.40	164.76	109.27	55.78	64.94	64.94	60.45	58.76	51.31	50.81		
10	182.41	91.43	139.07	136.92	85.70	191.63	56.77	71.12	59.88	57.27	51.31	50.81		
11	171.18	92.07	139.79	161.13	74.50	368.42	50.31	85.70	59.88	54.29	52.80	50.31		
12	144.82	90.80	136.20	161.13	70.00	387.38	62.69	69.44	58.76	50.81	51.80	51.31		
13	133.32	84.43	111.19	163.33	80.12	309.33	71.12	59.32	57.77	51.80	51.80	52.80		
14	131.24	72.81	103.54	134.76	79.55	193.48	103.54	57.27	57.77	51.80	51.31	53.79		
15	131.94	77.31	111.82	116.29	90.80	139.79	129.17	54.29	59.32	51.31	51.80	56.77		
16	153.67	92.07	126.40	107.36	100.99	157.40	111.82	54.29	60.45	52.30	52.30	70.56		
17	159.64	99.08	143.39	111.19	94.62	258.30	125.71	53.79	61.01	51.31	51.80	71.69		
18	162.62	115.65	167.61	109.91	107.36	243.65	185.18	50.81	61.01	50.81	51.80	71.69		
19	152.18	110.55	158.89	97.17	111.82	231.42	194.40	51.80	61.01	50.81	50.31	71.69		
20	155.91	111.19	162.62	88.88	113.10	200.73	176.17	47.40	59.32	51.31	52.30	75.62		
21	141.95	116.29	154.41	77.87	88.88	182.41	156.65	46.93	58.26	51.80	53.29	64.38		
22	122.94	138.35	139.07	72.81	81.24	151.43	133.32	68.88	57.27	52.30	54.29	66.07		
23	109.91	125.71	120.17	82.51	103.54	148.45	177.80	64.38	57.27	52.30	55.28	66.63		
24	110.55	113.10	122.94	95.89	78.43	200.73	271.42	63.82	57.27	51.80	54.29	61.57		
25	106.72	101.62	120.17	93.34	67.19	236.13	306.06	57.77	58.76	51.31	55.28	61.57		
26	109.91	112.46	131.24	104.81	66.07	267.38	247.42	73.93	59.32	50.81	55.28	62.69		
27	113.74	95.89	150.68	171.18	94.62	234.24	209.75	63.26	59.88	50.81	54.78	58.76		
28	110.55	90.80	207.95	147.70	108.63	210.65	206.14	62.13	60.45	50.31	53.79	58.26		
29	106.08	96.53	229.61	90.16	117.57	217.88	190.71	61.57	60.45	49.81	49.81	57.27		
30	104.17	99.08	242.71	73.37	126.40	203.44	181.49	61.57	59.88	49.81	49.81	61.01		
31		95.25		64.94	123.63		152.92		58.76	50.81		67.75		
Total	4148.82	3188.82	4042.31	4619.66	2748.04	5478.37	4780.66	2273.65	1855.64	1667.10	1459.90	1821.79	38084.76	CMSDAY
Mean	138.29	102.87	134.74	149.02	88.65	182.61	154.21	75.79	59.86	53.78	52.14	58.77	104.34	CMS
Max	182.41	138.35	242.71	297.34	126.40	387.38	306.06	143.39	62.13	60.45	55.28	75.62	387.38	CMS
Min	104.17	72.81	81.24	64.94	52.30	49.81	50.31	46.93	57.27	49.81	49.81	50.31	46.93	CMS
Runoff	358.46	275.51	349.26	399.14	237.43	473.33	413.05	196.44	160.33	144.04	126.14	157.40	3290.52	MCM
Momentary Peak		440.68	CMS. at 43.00 m. (MSL.)											at 14.00 Hours , on Sep 11, 2021
Runoff Yield		5.47	Liters/Second/Square KM.			Momentary Peak Yield	23.11		Liters/Second/Square KM.					

## WATER YEAR : 2021

## NAN RIVER BASIN

## Khlong Tron at Ban Na Klam , Uttaradit (N.28A)

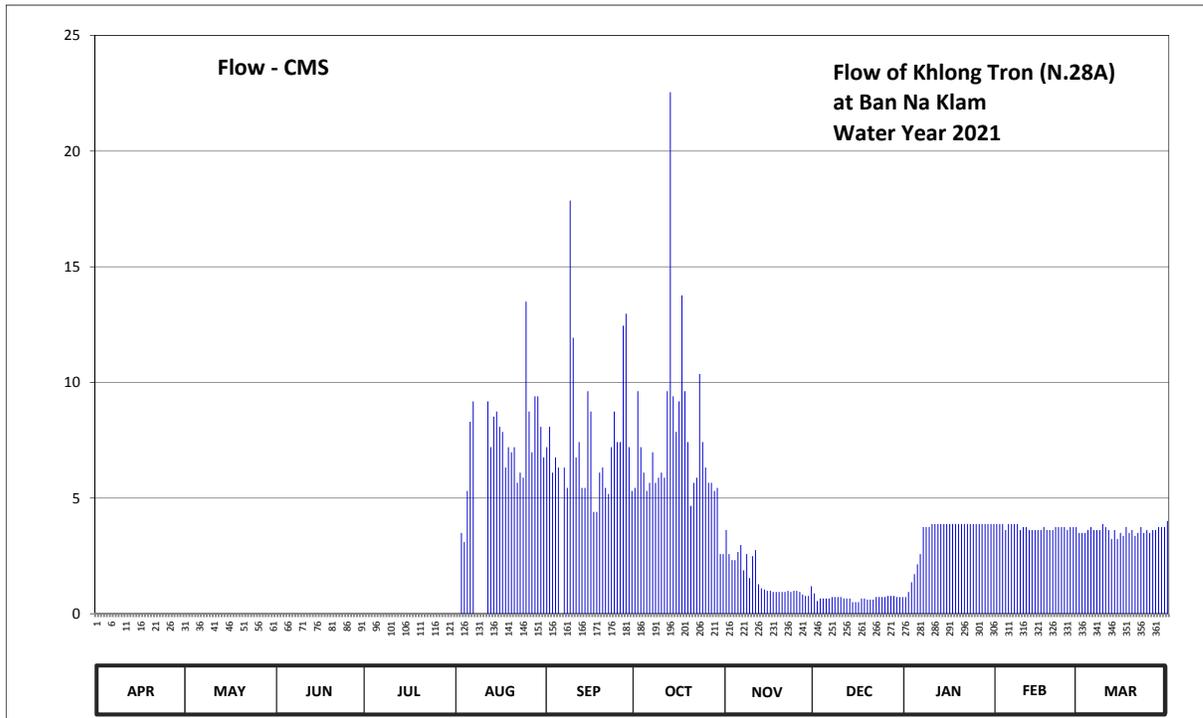
Lat 17 - 35 - 08 N Long 100 - 29 - 17 E

Location : on right bank at Ban Na Klam.

	Ban Na Klam	Amphoe Nam Pat	Changwat Uttaradit
Drainage Area	362 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+120.274 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		Elevation +126.015 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Flot	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.27	122.14	122.14	122.17	122.30	122.48	122.40	122.26	121.96	121.93	122.28	122.25	
2	122.25	122.13	122.01	122.19	122.25	122.52	122.59	122.17	121.90	121.97	122.28	122.25	
3	122.23	122.17	122.13	122.18	122.25	122.43	122.48	122.14	121.92	122.03	122.28	122.25	
4	122.28	122.15	122.16	122.17	122.22	122.46	122.43	122.14	121.92	122.07	122.26	122.26	
5	122.30	122.11	122.15	122.16	122.39	122.44	122.39	122.18	121.92	122.12	122.28	122.27	
6	122.33	122.16	122.15	122.17	122.53	121.75	122.41	122.21	121.92	122.17	122.28	122.26	
7	122.33	122.11	122.32	122.18	122.57	122.44	122.47	122.09	121.93	122.27	122.28	122.26	
8	122.25	122.09	122.29	122.22	122.57	122.40	122.41	122.17	121.93	122.27	122.28	122.26	
9	122.25	122.16	122.25	122.20	122.37	122.88	122.42	122.05	121.93	122.27	122.26	122.28	
10	122.28	122.10	122.22	122.21	122.22	122.68	122.43	122.16	121.93	122.28	122.27	122.27	
11	122.25	122.19	122.22	122.20	122.45	122.46	122.42	122.19	121.92	122.28	122.27	122.26	
12	122.34	122.12	122.19	122.17	122.57	122.49	122.59	122.02	121.92	122.28	122.26	122.23	
13	122.44	122.17	122.19	122.17	122.48	122.40	123.01	122.00	121.92	122.28	122.26	122.26	
14	122.41	122.09	122.31	122.17	122.54	122.40	122.58	121.99	121.89	122.28	122.26	122.23	
15	122.37	122.20	122.30	122.17	122.55	122.59	122.51	121.98	121.89	122.28	122.26	122.25	
16	122.29	122.19	122.27	122.19	122.52	122.55	122.57	121.98	121.89	122.28	122.26	122.24	
17	122.11	122.19	122.30	122.19	122.51	122.32	122.75	121.97	121.92	122.28	122.27	122.27	
18	122.13	122.19	122.30	122.17	122.44	122.32	122.59	121.97	121.92	122.28	122.26	122.25	
19	122.25	122.20	122.27	122.17	122.48	122.43	122.49	121.97	121.91	122.28	122.26	122.26	
20	122.12	122.20	122.23	122.17	122.47	122.44	122.34	121.97	121.91	122.28	122.26	122.24	
21	122.33	122.20	122.20	122.20	122.48	122.40	122.41	121.97	121.91	122.28	122.27	122.25	
22	122.09	122.20	122.20	122.25	122.41	122.38	122.42	121.98	121.93	122.28	122.27	122.27	
23	122.22	122.20	122.19	122.27	122.43	122.48	122.62	121.97	121.93	122.28	122.27	122.25	
24	122.22	122.21	122.17	122.27	122.42	122.55	122.49	121.98	121.93	122.28	122.27	122.26	
25	122.19	122.24	122.17	122.28	122.74	122.49	122.44	121.98	121.93	122.28	122.26	122.25	
26	122.17	122.21	122.18	122.34	122.55	122.49	122.41	121.97	121.94	122.28	122.27	122.26	
27	122.16	122.22	122.19	122.30	122.47	122.70	122.41	121.95	121.94	122.28	122.27	122.26	
28	122.16	122.23	122.19	122.27	122.58	122.72	122.39	121.94	121.94	122.28	122.27	122.27	
29	122.19	122.25	122.19	122.24	122.58	122.48	122.40	121.94	121.93	122.28		122.27	
30	122.19	122.28	122.22	122.24	122.52	122.39	122.17	122.01	121.93	122.28		122.27	
31		122.23		122.27	122.46		122.17		121.93	122.28		122.29	
Mean	122.25	122.18	122.21	122.21	122.46	122.47	122.47	122.04	121.92	122.23	122.27	122.26	
Max	122.44	122.28	122.32	122.34	122.74	122.88	123.01	122.26	121.96	122.28	122.28	122.29	123.01
Min	122.09	122.09	122.01	122.16	122.22	121.75	122.17	121.94	121.89	121.93	122.26	122.23	121.75
Annual Max Momentary Gage Height	123.21		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	120.27		m. (MSL.) ,			River Bed	120.20		m. (MSL.)				
Left Bank Elevation		127.13		m. (MSL.) ,									
Right Bank Elevation		127.24		m. (MSL.) ,		Drainage Are	362		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	0.00	7.20	5.44	3.62	0.88	0.72	3.88	3.49		
2	0.00	0.00	0.00	0.00	0.00	8.08	9.62	2.58	0.55	0.94	3.88	3.49		
3	0.00	0.00	0.00	0.00	3.49	6.10	7.20	2.32	0.66	1.36	3.88	3.49		
4	0.00	0.00	0.00	0.00	3.10	6.76	6.10	2.32	0.66	1.71	3.62	3.62		
5	0.00	0.00	0.00	0.00	5.31	6.32	5.31	2.67	0.66	2.14	3.88	3.75		
6	0.00	0.00	0.00	0.00	8.30	0.00	5.66	2.97	0.66	2.58	3.88	3.62		
7	0.00	0.00	0.00	0.00	9.18	6.32	6.98	1.88	0.72	3.75	3.88	3.62		
8	0.00	0.00	0.00	0.00	0.00	5.44	5.66	2.58	0.72	3.75	3.88	3.62		
9	0.00	0.00	0.00	0.00	0.00	17.86	5.88	1.54	0.72	3.75	3.62	3.88		
10	0.00	0.00	0.00	0.00	0.00	11.93	6.10	2.49	0.72	3.88	3.75	3.75		
11	0.00	0.00	0.00	0.00	0.00	6.76	5.88	2.75	0.66	3.88	3.75	3.62		
12	0.00	0.00	0.00	0.00	9.18	7.42	9.62	1.27	0.66	3.88	3.62	3.23		
13	0.00	0.00	0.00	0.00	7.20	5.44	22.54	1.10	0.66	3.88	3.62	3.62		
14	0.00	0.00	0.00	0.00	8.52	5.44	9.40	1.05	0.50	3.88	3.62	3.23		
15	0.00	0.00	0.00	0.00	8.74	9.62	7.86	0.99	0.50	3.88	3.62	3.49		
16	0.00	0.00	0.00	0.00	8.08	8.74	9.18	0.99	0.50	3.88	3.62	3.36		
17	0.00	0.00	0.00	0.00	7.86	4.40	13.76	0.94	0.66	3.88	3.75	3.75		
18	0.00	0.00	0.00	0.00	6.32	4.40	9.62	0.94	0.66	3.88	3.62	3.49		
19	0.00	0.00	0.00	0.00	7.20	6.10	7.42	0.94	0.61	3.88	3.62	3.62		
20	0.00	0.00	0.00	0.00	6.98	6.32	4.66	0.94	0.61	3.88	3.62	3.36		
21	0.00	0.00	0.00	0.00	7.20	5.44	5.66	0.94	0.61	3.88	3.75	3.49		
22	0.00	0.00	0.00	0.00	5.66	5.18	5.88	0.99	0.72	3.88	3.75	3.75		
23	0.00	0.00	0.00	0.00	6.10	7.20	10.36	0.94	0.72	3.88	3.75	3.49		
24	0.00	0.00	0.00	0.00	5.88	8.74	7.42	0.99	0.72	3.88	3.75	3.62		
25	0.00	0.00	0.00	0.00	13.49	7.42	6.32	0.99	0.72	3.88	3.62	3.49		
26	0.00	0.00	0.00	0.00	8.74	7.42	5.66	0.94	0.77	3.88	3.75	3.62		
27	0.00	0.00	0.00	0.00	6.98	12.45	5.66	0.83	0.77	3.88	3.75	3.62		
28	0.00	0.00	0.00	0.00	9.40	12.97	5.31	0.77	0.77	3.88	3.75	3.75		
29	0.00	0.00	0.00	0.00	9.40	7.20	5.44	0.77	0.72	3.88		3.75		
30	0.00	0.00	0.00	0.00	8.08	5.31	2.58	1.19	0.72	3.88		3.75		
31	0.00	0.00	0.00	0.00	6.76		2.58		0.72	3.88		4.01		
Total	0.00	0.00	0.00	0.00	187.15	219.98	226.76	46.23	20.93	106.06	104.48	111.44	1023.03	CMSDAY
Mean	0.00	0.00	0.00	0.00	6.04	7.33	7.31	1.54	0.68	3.42	3.73	3.59	2.80	CMS
Max	0.00	0.00	0.00	0.00	13.49	17.86	22.54	3.62	0.88	3.88	3.88	4.01	22.54	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	2.58	0.77	0.50	0.72	3.62	3.23	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	16.17	19.01	19.59	3.99	1.81	9.16	9.03	9.63	88.39	MCM
Momentary Peak	32.16	CMS. at 123.21 m. (MSL.) at 06.00 Hours , on Oct 13, 2021												
Runoff Yield	7.74	Liters/Second/Square KM. Momentary Peak Yield 88.84 Liters/Second/Square KM.												

## WATER YEAR : 2021

## NAN RIVER BASIN

## Khwaee Noi River at Ban Nong Krathao , Phitsanulok (N.36)

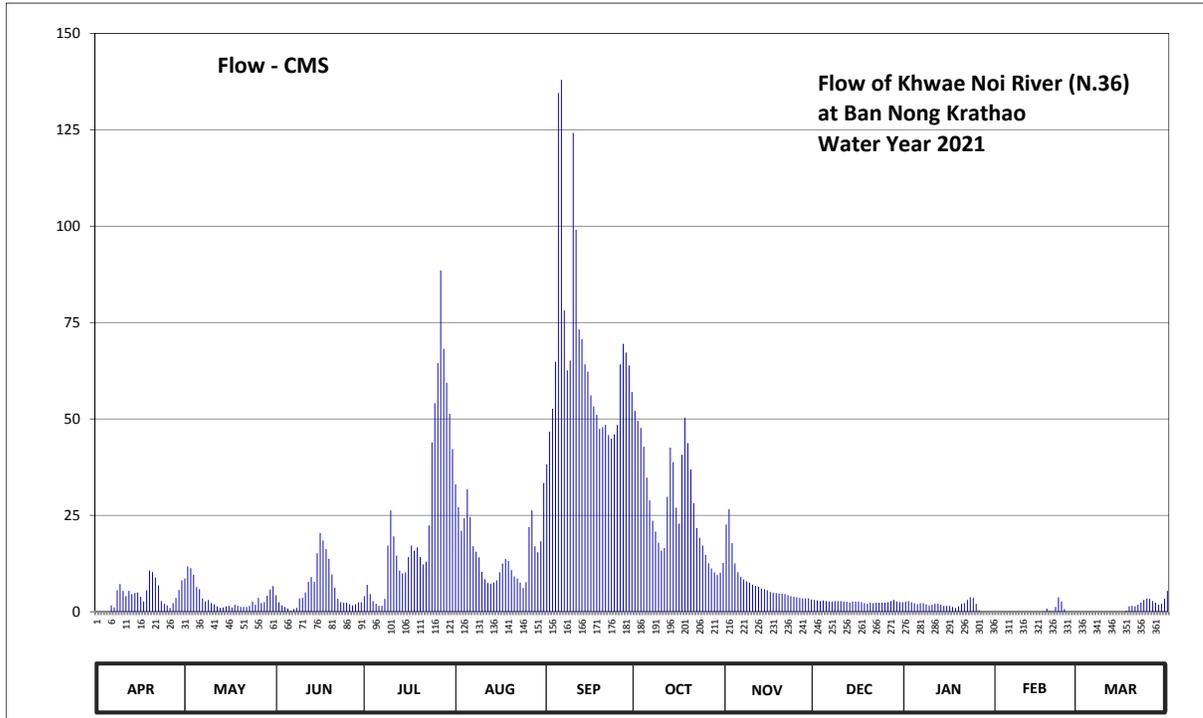
Lat 17 - 05 - 06 N Long 100 - 49 - 29 E

Location : on left bank about 50 meters upstream from the bridge along Lom Sak - Nakhon Thai Road, Tambon Nong Krathao.

	Ban Nong Krathao	Amphoe Nakhon Thai	Changwat Phitsanulok
<b>Drainage Area</b>	1,663 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+191.880 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank along the measuring line.		<b>Elevation</b> +202.438 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1971 - 1979 , 1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1971 - 1979 , 1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

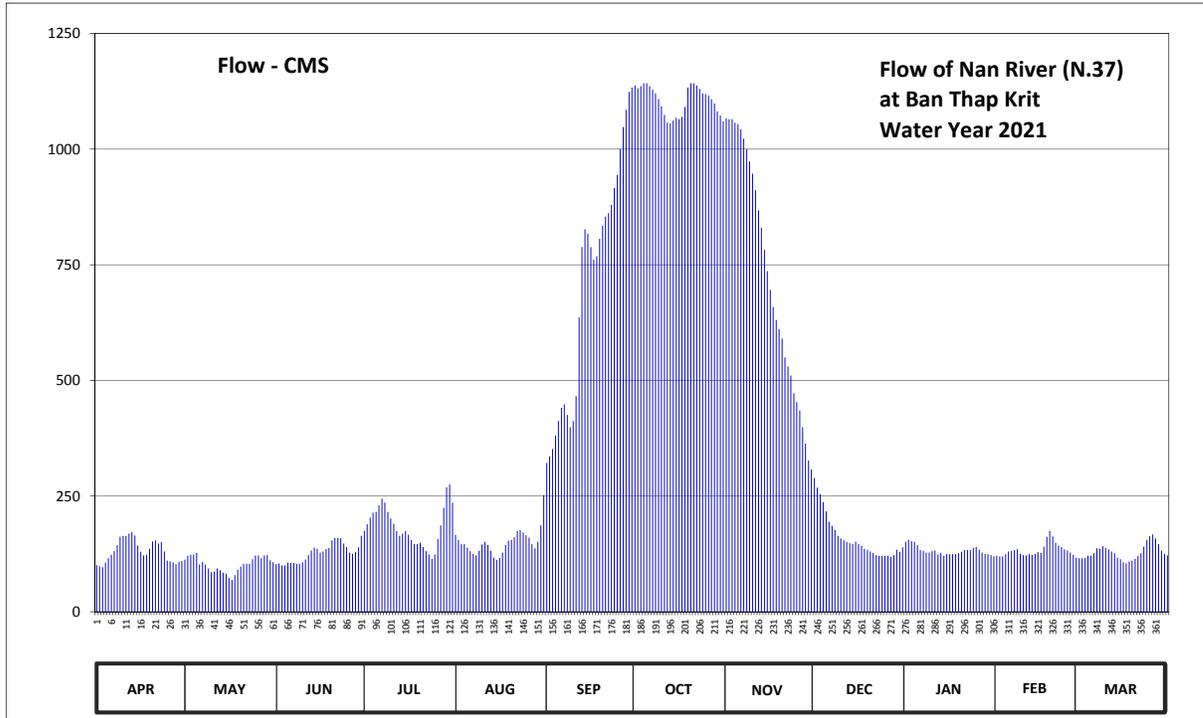
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	193.25	195.33	194.61	194.59	197.90	198.18	198.78	197.17	194.52	194.49	194.21	194.17	
2	193.57	195.92	194.48	194.92	197.52	198.57	198.68	197.48	194.51	194.50	194.19	194.14	
3	193.73	195.85	194.42	194.63	197.03	198.80	198.61	196.71	194.50	194.48	194.19	194.11	
4	193.99	195.55	194.39	194.50	197.30	199.20	198.40	196.05	194.51	194.46	194.22	194.10	
5	194.29	194.79	194.36	194.45	197.83	199.58	198.00	195.67	194.50	194.44	194.24	194.09	
6	194.42	194.73	194.32	194.41	197.33	199.59	197.64	195.43	194.49	194.46	194.27	194.11	
7	194.38	194.55	194.35	194.41	196.62	199.38	197.25	195.28	194.49	194.46	194.29	194.18	
8	194.70	194.49	194.37	194.54	196.46	199.13	197.01	195.16	194.50	194.44	194.28	194.21	
9	194.98	194.52	194.55	196.64	196.27	199.21	196.72	195.07	194.50	194.42	194.28	194.19	
10	194.69	194.46	194.56	197.46	195.68	199.55	196.49	194.93	194.50	194.43	194.24	194.15	
11	194.59	194.44	194.66	196.89	195.29	199.47	196.57	194.86	194.49	194.45	194.22	194.14	
12	194.69	194.40	195.13	196.33	195.05	199.34	197.70	194.80	194.49	194.45	194.21	194.09	
13	194.63	194.37	195.42	195.74	195.00	199.32	198.39	194.75	194.47	194.43	194.25	194.10	
14	194.65	194.38	195.14	195.61	195.08	199.18	198.21	194.73	194.49	194.41	194.24	194.12	
15	194.66	194.40	196.41	195.65	195.22	199.12	197.51	194.70	194.49	194.41	194.28	194.15	
16	194.58	194.41	196.97	196.28	195.66	198.92	197.19	194.67	194.49	194.41	194.29	194.19	
17	194.49	194.38	196.78	196.64	196.04	198.82	198.30	194.66	194.48	194.39	194.30	194.32	
18	194.70	194.43	196.54	196.49	196.21	198.74	198.71	194.65	194.46	194.37	194.36	194.40	
19	195.74	194.41	196.22	196.59	196.14	198.60	198.44	194.64	194.45	194.40	194.32	194.41	
20	195.67	194.39	195.56	196.28	195.76	198.62	198.11	194.64	194.47	194.45	194.31	194.40	
21	195.40	194.39	194.77	196.00	195.45	198.64	197.59	194.63	194.46	194.46	194.39	194.43	
22	194.89	194.39	194.54	196.12	195.33	198.53	197.09	194.61	194.47	194.52	194.57	194.47	
23	194.50	194.41	194.48	197.15	195.08	198.49	196.85	194.59	194.47	194.57	194.49	194.52	
24	194.45	194.49	194.47	198.45	194.76	198.54	196.64	194.58	194.47	194.56	194.35	194.55	
25	194.42	194.43	194.47	198.85	195.11	198.64	196.35	194.57	194.47	194.45	194.27	194.54	
26	194.37	194.56	194.44	199.19	197.11	199.18	196.05	194.56	194.48	194.33	194.24	194.50	
27	194.46	194.46	194.42	199.43	197.46	199.31	195.83	194.55	194.50	194.29	194.21	194.47	
28	194.56	194.48	194.44	199.30	196.62	199.27	195.65	194.55	194.52	194.28	194.19	194.43	
29	194.71	194.60	194.48	199.03	196.44	199.17	195.53	194.55	194.49	194.27		194.45	
30	195.23	194.72	194.48	198.75	196.76	198.95	195.64	194.53	194.48	194.25		194.54	
31		194.84		198.37	197.92		196.07		194.48	194.23		194.69	
Mean	194.58	194.64	194.94	196.57	196.24	199.00	197.29	195.06	194.49	194.42	194.28	194.30	
Max	195.74	195.92	196.97	199.43	197.92	199.59	198.78	197.48	194.52	194.57	194.57	194.69	199.59
Min	193.25	194.37	194.32	194.41	194.76	198.18	195.53	194.53	194.45	194.23	194.19	194.09	193.25
Annual Max Momentary Gage Height	199.62		m. (MSL.) ,				at 02.00 Hours , on Sep 6, 2021						
Zero Gage at Bottom Elevation	191.88		m. (MSL.) ,			River Bed	192.33	m. (MSL.)					
Left Bank Elevation		202.29		m. (MSL.) ,									
Right Bank Elevation		202.22		m. (MSL.) ,		Drainage Are	1,663	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	8.60	4.30	4.02	33.03	38.22	52.12	22.62	3.05	2.63	0.00	0.00	
2	0.00	11.74	2.49	6.97	27.14	46.71	49.50	26.58	2.91	2.77	0.00	0.00	
3	0.00	11.32	1.66	4.58	21.01	52.64	47.66	17.79	2.77	2.49	0.00	0.00	
4	0.00	9.63	1.24	2.77	24.21	64.80	42.80	12.56	2.91	2.21	0.00	0.00	
5	0.00	6.41	0.83	2.08	31.82	134.53	34.76	10.29	2.77	1.94	0.00	0.00	
6	1.66	5.84	0.28	1.52	24.59	137.98	28.87	9.05	2.63	2.21	0.00	0.00	
7	1.10	3.47	0.69	1.52	16.98	78.14	23.59	8.39	2.63	2.21	0.00	0.00	
8	5.55	2.63	0.97	3.33	15.59	62.57	20.78	7.90	2.77	1.94	0.00	0.00	
9	7.19	3.05	3.47	17.16	14.09	65.14	17.89	7.54	2.77	1.66	0.00	0.00	
10	5.41	2.21	3.60	26.30	10.34	124.18	15.83	7.00	2.77	1.80	0.00	0.00	
11	4.02	1.94	4.99	19.57	8.43	99.05	16.53	6.74	2.63	2.08	0.00	0.00	
12	5.41	1.38	7.77	14.55	7.46	73.18	29.78	6.51	2.63	2.08	0.00	0.00	
13	4.58	0.97	9.00	10.68	7.27	70.70	42.59	6.03	2.35	1.80	0.00	0.00	
14	4.86	1.10	7.81	9.96	7.57	64.16	38.81	5.84	2.63	1.52	0.00	0.00	
15	4.99	1.38	15.19	10.18	8.14	62.26	27.00	5.55	2.63	1.52	0.00	0.00	
16	3.88	1.52	20.36	14.17	10.23	56.12	22.85	5.13	2.63	1.52	0.00	0.00	
17	2.63	1.10	18.48	17.16	12.49	53.22	40.70	4.99	2.49	1.24	0.00	0.28	
18	5.55	1.80	16.27	15.83	13.66	51.07	50.28	4.86	2.21	0.97	0.83	1.38	
19	10.68	1.52	13.73	16.71	13.16	47.40	43.72	4.72	2.08	1.38	0.28	1.52	
20	10.29	1.24	9.69	14.17	10.80	47.92	36.87	4.72	2.35	2.08	0.14	1.38	
21	8.92	1.24	6.22	12.24	9.14	48.45	28.12	4.58	2.21	2.21	1.24	1.80	
22	6.85	1.24	3.33	13.01	8.60	45.79	21.70	4.30	2.35	3.05	3.74	2.35	
23	2.77	1.52	2.49	22.39	7.57	44.87	19.18	4.02	2.35	3.74	2.63	3.05	
24	2.08	2.63	2.35	43.95	6.13	46.02	17.16	3.88	2.35	3.60	0.69	3.47	
25	1.66	1.80	2.35	54.09	7.69	48.45	14.71	3.74	2.35	2.08	0.00	3.33	
26	0.97	3.60	1.94	64.48	21.93	64.16	12.56	3.60	2.49	0.41	0.00	2.77	
27	2.21	2.21	1.66	88.52	26.30	69.46	11.20	3.47	2.77	0.00	0.00	2.35	
28	3.60	2.49	1.94	68.22	16.98	67.19	10.18	3.47	3.05	0.00	0.00	1.80	
29	5.65	4.16	2.49	59.39	15.43	63.85	9.52	3.47	2.63	0.00	0.00	2.08	
30	8.18	5.74	2.49	51.33	18.28	56.99	10.12	3.19	2.49	0.00	0.00	3.33	
31		6.66		42.17	33.38		12.68		2.49	0.00		5.41	
<b>Total</b>	120.69	112.14	170.08	733.02	489.44	1985.22	850.06	222.53	80.14	53.14	9.55	36.30	4862.31 CMSDAY
<b>Mean</b>	4.02	3.62	5.67	23.65	15.79	66.17	27.42	7.42	2.59	1.71	0.34	1.17	13.32 CMS
<b>Max</b>	10.68	11.74	20.36	88.52	33.38	137.98	52.12	26.58	3.05	3.74	3.74	5.41	137.98 CMS
<b>Min</b>	0.00	0.97	0.28	1.52	6.13	38.22	9.52	3.19	2.08	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	10.43	9.69	14.69	63.33	42.29	171.52	73.45	19.23	6.92	4.59	0.83	3.14	420.10 MCM
<b>Momentary Peak</b>	123.71 CMS. at 199.62 m. (MSL.) at 02.00 Hours , on Sep 6, 2021												
<b>Runoff Yield</b>	8.01 Liters/Second/Square KM.			Momentary Peak Yield 74.39 Liters/Second/Square KM.									





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual		
1	100.70	112.60	102.80	175.10	166.30	321.50	1137.40	1066.10	289.00	151.25	121.00	115.40			
2	98.20	121.00	104.20	189.15	155.00	335.80	1131.20	1064.55	268.00	155.75	119.60	115.40			
3	96.40	123.10	100.00	203.60	146.00	351.80	1135.85	1064.55	254.00	152.75	119.60	116.10			
4	106.30	123.80	100.00	214.20	146.00	380.90	1142.05	1056.80	237.00	151.25	124.50	121.00			
5	115.40	127.30	106.30	216.00	138.50	412.10	1142.05	1053.70	216.90	143.75	130.25	121.00			
6	123.10	102.10	105.60	230.00	131.00	440.90	1135.85	1042.85	194.25	133.25	131.75	126.60			
7	131.00	107.70	105.60	244.00	125.20	448.25	1128.10	1022.70	185.75	131.75	133.25	137.00			
8	143.75	102.10	103.50	236.00	121.70	425.30	1120.35	999.45	176.70	128.00	135.50	136.25			
9	161.75	93.40	103.50	216.00	131.75	398.90	1107.95	973.10	164.00	128.00	125.20	141.50			
10	164.00	85.60	107.00	201.90	145.25	412.10	1092.45	946.75	158.00	131.00	122.40	137.75			
11	164.00	86.80	112.60	190.00	151.25	465.75	1073.85	911.10	154.25	132.50	121.70	134.75			
12	168.70	93.40	122.40	174.30	144.50	636.00	1056.80	867.50	150.50	123.80	124.50	130.25			
13	171.90	89.20	132.50	164.00	131.75	788.00	1055.25	830.00	148.25	127.30	123.10	126.60			
14	164.75	84.40	138.50	168.70	116.80	827.00	1061.45	782.00	146.75	121.00	125.20	116.80			
15	143.00	82.00	136.25	174.30	111.90	816.50	1067.65	736.25	151.25	124.50	128.75	113.30			
16	129.50	73.00	128.00	166.30	116.10	788.00	1064.55	695.65	146.00	124.50	127.30	107.00			
17	121.70	68.50	130.25	155.00	128.00	761.00	1069.20	658.40	142.25	124.50	140.75	104.90			
18	123.10	79.00	135.50	146.00	144.50	768.50	1090.90	630.40	136.25	124.50	161.75	108.40			
19	136.25	91.00	137.75	146.00	153.50	806.00	1132.75	610.80	134.00	126.60	174.30	110.50			
20	152.00	97.60	154.25	149.00	155.00	834.50	1142.05	590.20	130.25	129.50	162.50	114.00			
21	154.25	103.50	159.50	140.00	161.00	854.00	1142.05	549.70	127.30	133.25	149.00	120.30			
22	147.50	103.50	159.50	131.00	174.30	861.50	1137.40	530.10	122.40	133.25	143.00	126.60			
23	150.50	103.50	158.75	123.80	176.70	879.50	1129.65	510.60	121.00	133.25	140.00	140.75			
24	130.25	113.30	147.50	114.00	171.10	915.75	1120.35	472.00	120.30	137.75	134.75	155.00			
25	110.50	121.70	140.00	123.80	165.50	943.65	1118.80	453.25	121.00	140.00	132.50	163.25			
26	109.10	121.70	128.00	157.25	160.25	999.45	1115.70	434.90	121.00	134.00	128.00	167.10			
27	107.00	115.40	125.20	186.60	146.00	1047.50	1107.95	398.90	118.20	128.00	123.10	158.00			
28	102.80	121.70	128.75	225.00	137.00	1084.70	1098.65	363.30	122.40	125.20	116.80	146.00			
29	108.40	122.40	139.25	269.00	151.25	1123.45	1081.60	327.00	134.00	124.50		132.50			
30	109.80	111.20	164.00	275.00	186.60	1132.75	1072.30	307.20	129.50	122.40		125.20			
31		107.00		236.00	252.00		1059.90		139.25	119.60		121.70			
<b>Total</b>	<b>3945.60</b>	<b>3188.50</b>	<b>3816.95</b>	<b>5741.00</b>	<b>4641.70</b>	<b>21261.05</b>	<b>34272.05</b>	<b>21949.80</b>	<b>4959.70</b>	<b>4096.65</b>	<b>3720.05</b>	<b>3990.90</b>	<b>115583.95</b>	<b>CMSDAY</b>	
<b>Mean</b>	<b>131.52</b>	<b>102.85</b>	<b>127.23</b>	<b>185.19</b>	<b>149.73</b>	<b>708.70</b>	<b>1105.55</b>	<b>731.66</b>	<b>159.99</b>	<b>132.15</b>	<b>132.86</b>	<b>128.74</b>	<b>316.67</b>	<b>CMS</b>	
<b>Max</b>	<b>171.90</b>	<b>127.30</b>	<b>164.00</b>	<b>275.00</b>	<b>252.00</b>	<b>1132.75</b>	<b>1142.05</b>	<b>1066.10</b>	<b>289.00</b>	<b>155.75</b>	<b>174.30</b>	<b>167.10</b>	<b>1142.05</b>	<b>CMS</b>	
<b>Min</b>	<b>96.40</b>	<b>68.50</b>	<b>100.00</b>	<b>114.00</b>	<b>111.90</b>	<b>321.50</b>	<b>1055.25</b>	<b>307.20</b>	<b>118.20</b>	<b>119.60</b>	<b>116.80</b>	<b>104.90</b>	<b>68.50</b>	<b>CMS</b>	
<b>Runoff</b>	<b>340.90</b>	<b>275.49</b>	<b>329.78</b>	<b>496.02</b>	<b>401.04</b>	<b>1836.95</b>	<b>2961.11</b>	<b>1896.46</b>	<b>428.52</b>	<b>353.95</b>	<b>321.41</b>	<b>344.81</b>	<b>9986.45</b>	<b>MCM</b>	
<b>Momentary Peak</b>	<b>1146.70</b>	<b>CMS.</b>	<b>at 25.74 m. (MSL.)</b>	<b>at 18.00 Hours</b>	<b>on Oct 20, 2021</b>										
<b>Runoff Yield</b>	<b>5.55</b>	<b>Liters/Second/Square KM.</b>	<b>Momentary Peak Yield</b>		<b>20.11</b>	<b>Liters/Second/Square KM.</b>									

## WATER YEAR : 2021

## NAN RIVER BASIN

## Khlong Chom Phu at Ban Chom Phu , Phitsanulok (N.43A)

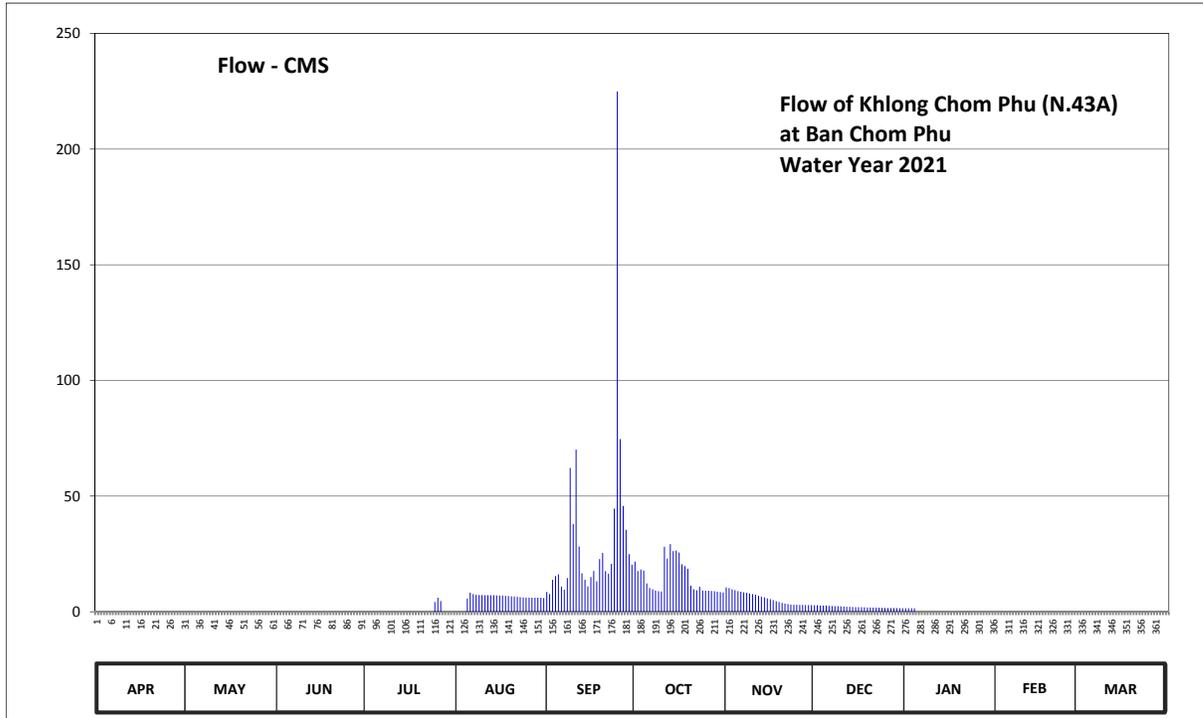
Lat 16 - 41 - 32 N Long 100 - 40 - 15 E

Location : on right bank at Ban Chom Phu.

	<b>Ban</b> Chom Phu	<b>Amphoe</b> Noen Maprang	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	426 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+50.056 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b> +63.086 m. (MSL.)	
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2010 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2010 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +58.080 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.67	51.97	51.98	51.86	52.25	53.36	55.04	53.70	52.15	51.86	52.17	51.88	
2	51.67	51.97	51.99	51.86	52.25	53.19	54.64	53.66	52.14	51.86	52.16	51.88	
3	51.67	51.97	52.00	51.86	52.26	54.14	54.71	53.58	52.12	51.85	52.15	51.87	
4	51.67	51.97	52.02	51.87	52.32	54.35	54.66	53.52	52.12	51.85	52.14	51.87	
5	51.69	51.96	52.03	51.87	52.79	54.45	53.93	53.45	52.11	51.86	52.12	51.87	
6	51.73	51.96	52.03	51.88	53.31	53.75	53.66	53.39	52.09	51.93	52.10	51.87	
7	51.78	51.96	52.04	51.88	53.18	53.54	53.57	53.34	52.07	51.98	52.09	51.88	
8	51.81	51.96	52.03	51.87	53.11	54.24	53.50	53.30	52.06	52.02	52.07	51.89	
9	51.78	51.97	52.02	51.87	53.10	56.63	53.43	53.24	52.05	52.05	52.04	51.88	
10	51.76	51.98	52.01	51.87	53.10	56.02	53.41	53.19	52.04	52.11	52.02	51.88	
11	51.84	51.98	52.01	51.87	53.09	56.77	55.53	53.13	52.02	52.16	52.00	51.88	
12	51.85	51.98	52.00	51.88	53.09	55.54	55.15	53.03	52.00	52.16	51.98	51.88	
13	51.83	51.97	51.99	51.88	53.08	54.52	55.60	52.94	51.99	52.18	51.97	51.88	
14	51.84	51.97	51.98	51.89	53.08	54.14	55.40	52.88	51.98	52.18	51.96	51.88	
15	51.84	51.97	51.96	51.90	53.07	53.76	55.42	52.80	51.97	52.18	51.95	51.88	
16	51.82	51.97	51.96	51.92	53.06	54.30	55.35	52.72	51.96	52.17	51.94	51.88	
17	51.82	51.97	51.95	51.91	53.05	54.64	54.94	52.64	51.96	52.17	51.93	51.87	
18	51.82	51.96	51.94	51.90	53.03	54.05	54.87	52.53	51.95	52.17	51.93	51.87	
19	51.87	51.96	51.94	51.94	53.01	55.13	54.75	52.45	51.94	52.16	51.92	51.87	
20	52.01	51.96	51.93	52.00	52.99	55.34	53.80	52.36	51.93	52.16	51.91	51.86	
21	51.97	51.96	51.92	51.98	52.97	54.63	53.57	52.30	51.92	52.16	51.90	51.87	
22	51.97	51.96	51.91	51.97	52.94	54.49	53.51	52.25	51.92	52.16	51.90	51.87	
23	51.95	51.96	51.91	52.04	52.91	54.96	53.74	52.21	51.91	52.17	51.89	51.87	
24	51.94	51.96	51.90	52.26	52.88	56.22	53.49	52.19	51.90	52.18	51.88	51.87	
25	51.93	51.95	51.89	52.45	52.87	59.04	53.47	52.19	51.89	52.22	51.87	51.87	
26	51.93	51.95	51.88	52.86	52.87	56.85	53.47	52.18	51.88	52.24	51.87	51.87	
27	51.92	51.95	51.88	52.54	52.86	56.25	53.46	52.17	51.88	52.21	51.88	51.86	
28	51.92	51.95	51.87	52.34	52.86	55.92	53.43	52.16	51.87	52.18	51.88	51.86	
29	51.99	51.96	51.86	52.27	52.87	55.30	53.39	52.16	51.87	52.18		51.86	
30	52.02	51.97	51.86	52.26	52.85	54.93	53.35	52.16	51.86	52.17		51.88	
31		51.96		52.25	52.83		53.32		51.86	52.17		51.87	
Mean	51.84	51.96	51.96	52.03	52.90	55.02	54.18	52.79	51.98	52.10	51.99	51.87	
Max	52.02	51.98	52.04	52.86	53.31	59.04	55.60	53.70	52.15	52.24	52.17	51.89	59.04
Min	51.67	51.95	51.86	51.86	52.25	53.19	53.32	52.16	51.86	51.85	51.87	51.86	51.67
Annual Max Momentary Gage Height	59.75		m. (MSL.) ,					at 09.00 Hours , on Sep 25, 2021					
Zero Gage at Bottom Elevation	50.06		m. (MSL.) ,			River Bed	50.19	m. (MSL.)					
Left Bank Elevation	59.82		m. (MSL.) ,										
Right Bank Elevation	58.07		m. (MSL.) ,			Drainage Are	426	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	8.50	21.65	10.50	2.83	1.52	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	7.65	17.62	10.24	2.78	1.52	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	13.80	18.20	9.72	2.69	1.48	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	15.38	17.78	9.33	2.69	1.48	0.00	0.00	
5	0.00	0.00	0.00	0.00	5.73	16.13	12.23	8.95	2.65	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	8.25	10.88	10.24	8.65	2.56	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	7.60	9.46	9.66	8.40	2.47	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	7.27	14.55	9.20	8.20	2.42	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	7.22	62.19	8.85	7.90	2.38	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	7.22	37.96	8.75	7.65	2.33	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	7.17	70.05	28.04	7.36	2.24	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	7.17	28.21	22.99	6.88	2.15	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	7.12	16.66	29.21	6.45	2.11	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	7.12	13.80	26.21	6.16	2.06	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	7.08	10.95	26.48	5.78	2.02	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	7.03	15.00	25.55	5.40	1.97	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	6.98	17.62	20.47	5.03	1.97	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	6.88	13.13	19.72	4.54	1.93	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	6.79	22.74	18.58	4.18	1.88	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	6.69	25.41	11.25	3.77	1.84	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	6.60	17.54	9.66	3.50	1.79	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	6.45	16.43	9.27	3.28	1.79	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	6.31	20.71	10.80	3.10	1.75	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	6.16	44.56	9.15	3.01	1.70	0.00	0.00	0.00	
25	0.00	0.00	0.00	4.18	6.12	224.86	9.05	3.01	1.66	0.00	0.00	0.00	
26	0.00	0.00	0.00	6.07	6.12	74.61	9.05	2.96	1.61	0.00	0.00	0.00	
27	0.00	0.00	0.00	4.58	6.07	45.70	9.00	2.92	1.61	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	6.07	35.41	8.85	2.87	1.57	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	6.12	24.88	8.65	2.87	1.57	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	6.02	20.35	8.45	2.87	1.52	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	5.92		8.30		1.52	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	14.83	181.28	955.12	462.91	175.48	64.06	6.00	0.00	0.00	1859.68 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.48	5.85	31.84	14.93	5.85	2.07	0.19	0.00	0.00	5.10 CMS
<b>Max</b>	0.00	0.00	0.00	6.07	8.25	224.86	29.21	10.50	2.83	1.52	0.00	0.00	224.86 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	7.65	8.30	2.87	1.52	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	1.28	15.66	82.52	40.00	15.16	5.53	0.52	0.00	0.00	160.68 MCM
<b>Momentary Peak</b>	280.76	CMS.	at 59.75 m. (MSL.)	at 09.00 Hours	on Sep 25, 2021								
<b>Runoff Yield</b>	11.96	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	659.06	Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAN RIVER BASIN

Nam Yao at Ban Nam Yao , Nan (N.49)

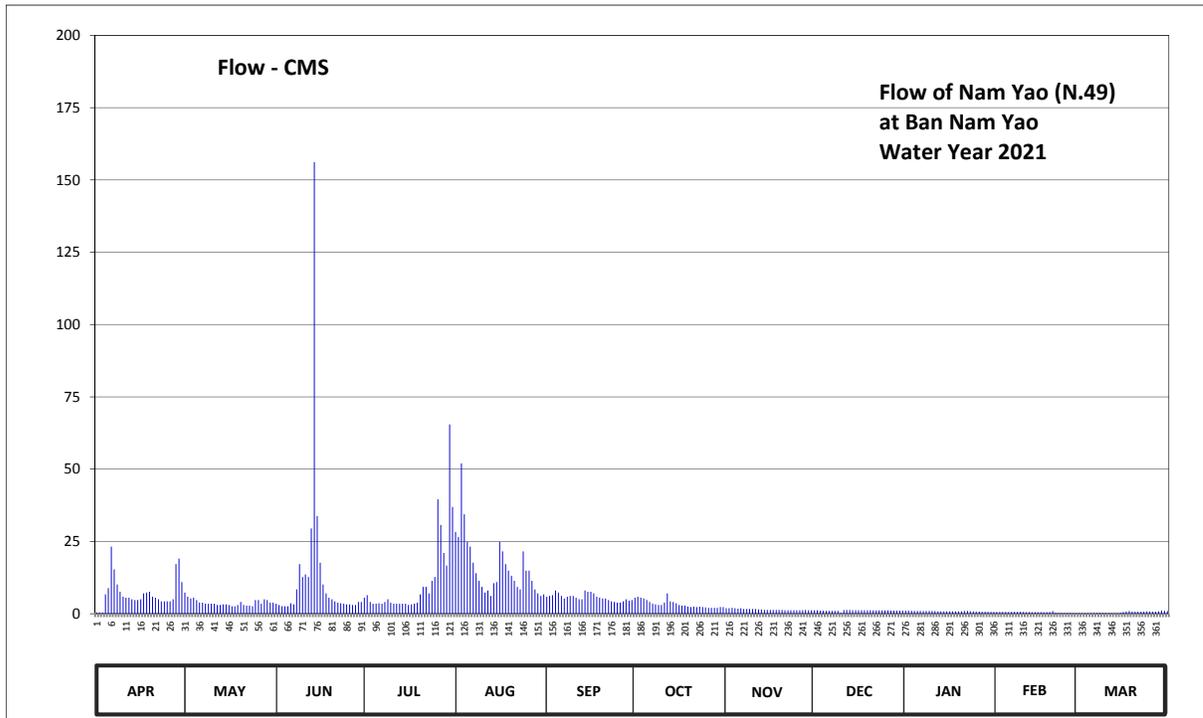
Lat 18 - 59 - 37 N Long 100 - 56 - 24 E

Location : on right bank downstream of the bridge of Nam Yao, along Pua - Sila Phet Road.

	Ban Nam Yao	Amphoe Pua	Changwat Nan
<b>Drainge Area</b>	153 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+263.983 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.	<b>Elevation</b>	+270.035 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.21	265.29	265.14	265.23	265.73	265.24	265.23	265.05	265.00	265.56	265.32	265.01	
2	265.21	265.24	265.12	265.26	265.70	265.25	265.24	265.05	265.00	265.54	265.32	265.01	
3	265.21	265.22	265.10	265.17	266.07	265.26	265.23	265.06	264.98	265.53	265.32	265.00	
4	265.27	265.23	265.10	265.14	265.83	265.31	265.22	265.05	264.98	265.49	265.32	265.00	
5	265.33	265.20	265.10	265.14	265.67	265.29	265.20	265.04	264.97	265.49	265.30	265.02	
6	265.64	265.16	265.15	265.15	265.64	265.25	265.17	265.05	264.97	265.48	265.33	265.06	
7	265.48	265.16	265.13	265.14	265.53	265.22	265.14	265.03	264.97	265.47	265.33	265.08	
8	265.36	265.14	265.32	265.17	265.45	265.24	265.13	265.03	264.97	265.48	265.33	265.11	
9	265.30	265.14	265.52	265.21	265.39	265.25	265.12	265.03	264.97	265.48	265.32	265.08	
10	265.24	265.14	265.42	265.16	265.34	265.25	265.12	265.03	265.12	265.48	265.29	265.05	
11	265.23	265.14	265.44	265.14	265.29	265.23	265.16	265.03	265.62	265.47	265.28	265.04	
12	265.23	265.12	265.42	265.14	265.31	265.21	265.28	265.02	265.63	265.42	265.27	265.04	
13	265.21	265.12	265.75	265.14	265.25	265.21	265.18	265.02	265.63	265.42	265.27	265.04	
14	265.20	265.13	267.11	265.14	265.37	265.31	265.17	265.01	265.61	265.42	265.27	265.03	
15	265.20	265.13	265.82	265.14	265.38	265.30	265.15	265.01	265.61	265.42	265.27	265.13	
16	265.21	265.12	265.53	265.12	265.67	265.30	265.12	265.01	265.61	265.41	265.27	265.31	
17	265.28	265.10	265.36	265.13	265.61	265.28	265.11	265.01	265.61	265.41	265.27	265.38	
18	265.29	265.10	265.28	265.14	265.52	265.24	265.11	265.01	265.61	265.40	265.27	265.46	
19	265.30	265.12	265.23	265.16	265.47	265.23	265.09	265.01	265.61	265.40	265.31	265.38	
20	265.24	265.17	265.21	265.27	265.43	265.22	265.08	265.01	265.59	265.41	265.47	265.36	
21	265.23	265.12	265.18	265.34	265.39	265.22	265.09	265.00	265.58	265.48	265.14	265.36	
22	265.21	265.11	265.16	265.34	265.34	265.20	265.08	265.00	265.58	265.49	265.07	265.36	
23	265.18	265.11	265.15	265.28	265.32	265.18	265.09	265.00	265.58	265.44	265.06	265.38	
24	265.18	265.10	265.14	265.39	265.61	265.17	265.08	265.00	265.58	265.42	265.06	265.40	
25	265.18	265.20	265.13	265.42	265.47	265.16	265.07	265.00	265.58	265.38	265.05	265.39	
26	265.18	265.20	265.13	265.91	265.47	265.16	265.06	265.00	265.58	265.37	265.05	265.36	
27	265.21	265.14	265.12	265.77	265.39	265.18	265.06	265.00	265.56	265.36	265.03	265.36	
28	265.52	265.21	265.12	265.60	265.32	265.21	265.06	265.01	265.56	265.36	265.02	265.41	
29	265.56	265.20	265.17	265.51	265.28	265.19	265.06	265.00	265.56	265.34		265.56	
30	265.38	265.16	265.17	266.24	265.25	265.20	265.08	265.00	265.56	265.34		265.50	
31		265.16		265.87	265.27		265.08		265.56	265.32		265.44	
Mean	265.28	265.16	265.32	265.32	265.48	265.23	265.13	265.02	265.40	265.43	265.24	265.23	
Max	265.64	265.29	267.11	266.24	266.07	265.31	265.28	265.06	265.63	265.56	265.47	265.56	267.11
Min	265.18	265.10	265.10	265.12	265.25	265.16	265.06	265.00	264.97	265.32	265.02	265.00	264.97
Annual Max Momentary Gage Height	268.17		m. (MSL.) ,			at 01.00 Hours ,	on Jun 14, 2021						
Zero Gage at Bottom Elevation	263.98		m. (MSL.) ,			River Bed	264.27	m. (MSL.)					
Left Bank Elevation		273.21		m. (MSL.) ,									
Right Bank Elevation		275.27		m. (MSL.) ,		Drainage Are	153	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	7.31	3.44	5.57	28.30	5.86	5.57	1.90	1.20	1.12	0.64	0.21	
2	0.42	5.86	3.02	6.44	26.50	6.15	5.86	1.90	1.20	1.08	0.64	0.21	
3	0.42	5.28	2.60	4.07	51.96	6.44	5.57	2.04	1.06	1.06	0.64	0.20	
4	6.73	5.57	2.60	3.44	34.39	8.02	5.28	1.90	1.06	0.98	0.64	0.20	
5	8.86	4.70	2.60	3.44	24.85	7.31	4.70	1.76	0.99	0.98	0.60	0.22	
6	23.20	3.86	3.65	3.65	23.20	6.15	4.07	1.90	0.99	0.96	0.66	0.26	
7	15.32	3.86	3.23	3.44	17.64	5.28	3.44	1.62	0.99	0.94	0.66	0.28	
8	10.12	3.44	8.44	4.07	14.00	5.86	3.23	1.62	0.99	0.96	0.66	0.31	
9	7.60	3.44	17.16	4.99	11.38	6.15	3.02	1.62	0.99	0.96	0.64	0.28	
10	5.86	3.44	12.68	3.86	9.28	6.15	3.02	1.62	0.32	0.96	0.58	0.25	
11	5.57	3.44	13.56	3.44	7.31	5.57	3.86	1.62	1.26	0.94	0.56	0.24	
12	5.57	3.02	12.68	3.44	8.02	4.99	7.02	1.48	1.29	0.84	0.54	0.24	
13	4.99	3.02	29.50	3.44	6.15	4.99	4.28	1.48	1.29	0.84	0.54	0.24	
14	4.70	3.23	156.20	3.44	10.54	8.02	4.07	1.34	1.23	0.84	0.54	0.23	
15	4.70	3.23	33.76	3.44	10.96	7.60	3.65	1.34	1.23	0.84	0.54	0.33	
16	4.99	3.02	17.64	3.02	24.85	7.60	3.02	1.34	1.23	0.82	0.54	0.62	
17	7.02	2.60	10.12	3.23	21.55	7.02	2.81	1.34	1.23	0.82	0.54	0.76	
18	7.31	2.60	7.02	3.44	17.16	5.86	2.81	1.34	1.23	0.80	0.54	0.92	
19	7.60	3.02	5.57	3.86	14.88	5.57	2.46	1.34	1.23	0.80	0.62	0.76	
20	5.86	4.07	4.99	6.73	13.12	5.28	2.32	1.34	1.18	0.82	0.94	0.72	
21	5.57	3.02	4.28	9.28	11.38	5.28	2.46	1.20	1.16	0.96	0.34	0.72	
22	4.99	2.81	3.86	9.28	9.28	4.70	2.32	1.20	1.16	0.98	0.27	0.72	
23	4.28	2.81	3.65	7.02	8.44	4.28	2.46	1.20	1.16	0.88	0.26	0.76	
24	4.28	2.60	3.44	11.38	21.55	4.07	2.32	1.20	1.16	0.84	0.26	0.80	
25	4.28	4.70	3.23	12.68	14.88	3.86	2.18	1.20	1.16	0.76	0.25	0.78	
26	4.28	4.70	3.23	39.57	14.88	3.86	2.04	1.20	1.16	0.74	0.25	0.72	
27	4.99	3.44	3.02	30.70	11.38	4.28	2.04	1.20	1.12	0.72	0.23	0.72	
28	17.16	4.99	3.02	21.00	8.44	4.99	2.04	1.34	1.12	0.72	0.22	0.82	
29	19.08	4.70	4.07	16.68	7.02	4.49	2.04	1.20	1.12	0.68		1.12	
30	10.96	3.86	4.07	65.48	6.15	4.70	2.32	1.20	1.12	0.68		1.00	
31		3.86		36.91	6.73		2.32		1.12	0.64		0.88	
<b>Total</b>	217.13	119.50	386.33	340.43	496.17	170.38	104.60	43.98	34.75	26.96	14.34	16.52	1971.09 CMSDAY
<b>Mean</b>	7.24	3.85	12.88	10.98	16.01	5.68	3.37	1.47	1.12	0.87	0.51	0.53	5.40 CMS
<b>Max</b>	23.20	7.31	156.20	65.48	51.96	8.02	7.02	2.04	1.29	1.12	0.94	1.12	156.20 CMS
<b>Min</b>	0.42	2.60	2.60	3.02	6.15	3.86	2.04	1.20	0.32	0.64	0.22	0.20	0.20 CMS
<b>Runoff</b>	18.76	10.32	33.38	29.41	42.87	14.72	9.04	3.80	3.00	2.33	1.24	1.43	170.30 MCM
<b>Momentary Peak</b>		308.35 CMS.											at 268.17 m. (MSL.) at 01.00 Hours , on Jun 14, 2021
<b>Runoff Yield</b>		35.30											Liters/Second/Square KM. Momentary Peak Yield 2015.36 Liters/Second/Square KM.

## WATER YEAR : 2021

## NAN RIVER BASIN

## Klong Wang Pong at Ban Wang Pong , Phetchabun (N.54)

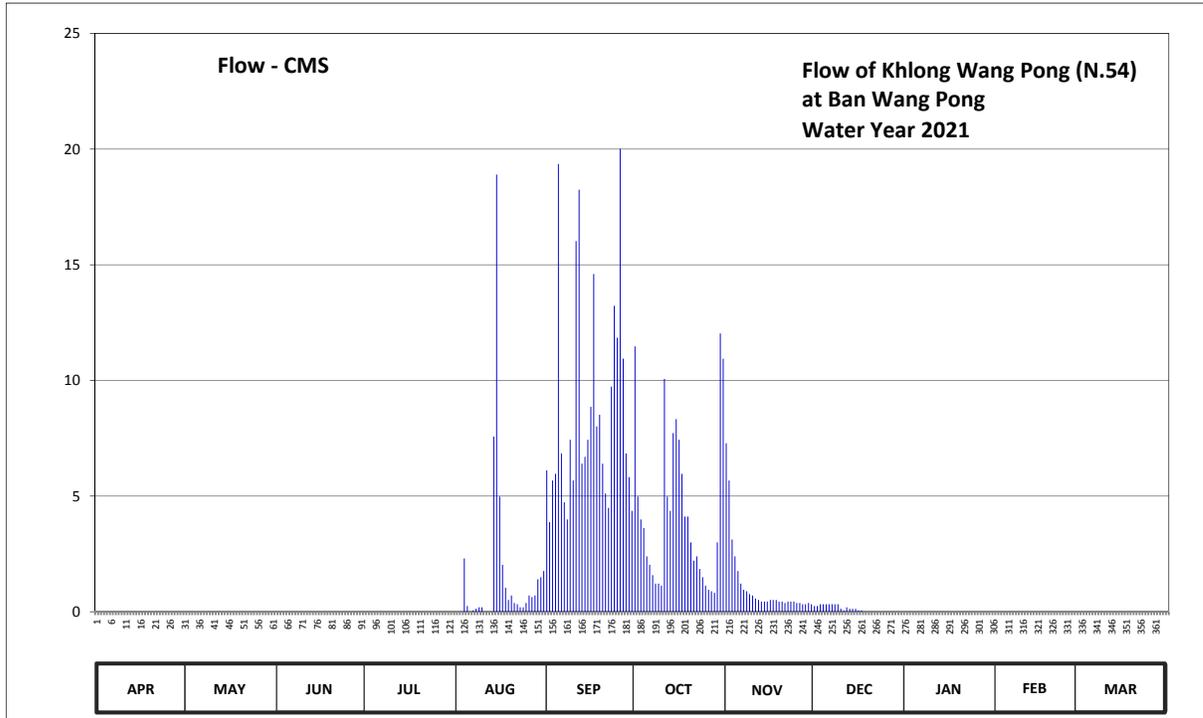
Lat 16 - 19 - 39 N Long 100 - 48 - 06 E

Location : on left bank at the bridge on road.

	<b>Ban Wang Pong</b>	<b>Amphoe Wang Pong</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	176 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+104.350 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+108.350 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 6 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.25	104.00	104.16	104.16	104.28	104.96	105.29	105.04	104.39	104.29	104.12	104.32	
2	104.25	104.00	104.16	104.16	104.27	104.79	104.88	104.93	104.39	104.26	104.12	104.32	
3	104.25	103.99	104.16	104.16	104.29	104.93	104.80	104.73	104.40	104.21	104.11	104.32	
4	104.25	103.99	104.16	104.16	104.65	104.95	104.77	104.66	104.40	104.21	104.10	104.32	
5	104.25	103.99	104.16	104.16	104.39	105.67	104.66	104.59	104.40	104.23	104.13	104.32	
6	104.25	103.99	104.16	104.17	104.34	105.01	104.62	104.53	104.40	104.23	104.13	104.32	
7	104.25	103.99	104.16	104.18	104.36	104.86	104.57	104.50	104.40	104.22	104.10	104.32	
8	104.25	103.99	104.16	104.19	104.37	104.80	104.53	104.49	104.40	104.20	104.10	104.32	
9	104.25	103.99	104.16	104.20	104.38	105.05	104.53	104.47	104.40	104.18	104.14	104.32	
10	104.25	103.99	104.16	104.21	104.38	104.93	104.52	104.46	104.37	104.17	104.11	104.32	
11	104.25	103.99	104.16	104.21	104.35	105.52	105.21	104.44	104.36	104.17	104.03	104.32	
12	104.25	103.99	104.16	104.20	104.33	105.62	104.88	104.43	104.38	104.17	104.06	104.32	
13	104.25	103.99	104.16	104.18	104.35	104.98	104.83	104.42	104.37	104.17	104.10	104.32	
14	104.25	103.99	104.16	104.18	105.06	105.00	105.07	104.42	104.37	104.16	104.09	104.32	
15	104.25	103.98	104.16	104.18	105.65	105.05	105.11	104.42	104.37	104.16	104.12	104.32	
16	104.25	103.98	104.16	104.18	104.88	105.14	105.05	104.43	104.36	104.17	104.13	104.32	
17	104.25	103.98	104.16	104.18	104.62	105.45	104.95	104.43	104.36	104.17	104.22	104.32	
18	104.25	103.98	104.16	104.18	104.51	105.09	104.81	104.43	104.35	104.15	104.29	104.32	
19	104.25	103.98	104.16	104.18	104.43	105.12	104.81	104.42	104.35	104.15	104.33	104.32	
20	104.25	103.99	104.16	104.18	104.46	104.98	104.72	104.42	104.35	104.16	104.33	104.32	
21	104.25	103.99	104.16	104.25	104.41	104.89	104.64	104.41	104.34	104.16	104.33	104.32	
22	104.25	103.99	104.16	104.29	104.40	104.84	104.66	104.42	104.34	104.17	104.32	104.32	
23	104.25	103.98	104.16	104.29	104.38	105.19	104.60	104.42	104.33	104.18	104.32	104.32	
24	104.25	103.99	104.16	104.29	104.38	105.38	104.56	104.42	104.33	104.17	104.32	104.32	
25	104.25	103.99	104.16	104.29	104.41	105.31	104.52	104.41	104.33	104.17	104.28	104.32	
26	104.25	103.99	104.16	104.29	104.46	105.70	104.50	104.41	104.32	104.16	104.23	104.32	
27	104.25	103.99	104.16	104.29	104.45	105.26	104.49	104.40	104.30	104.16	104.17	104.32	
28	104.25	103.99	104.16	104.29	104.46	105.01	104.48	104.40	104.28	104.14	104.17	104.32	
29	104.25	103.99	104.16	104.29	104.55	104.94	104.72	104.41	104.29	104.13		104.32	
30	104.25	103.99	104.16	104.29	104.56	104.83	105.32	104.40	104.32	104.13		104.32	
31		103.99		104.29	104.59		105.26		104.30	104.12		104.32	
Mean	104.25	103.99	104.16	104.22	104.50	105.11	104.79	104.49	104.36	104.18	104.18	104.32	
Max	104.25	104.00	104.16	104.29	105.65	105.70	105.32	105.04	104.40	104.29	104.33	104.32	105.70
Min	104.25	103.98	104.16	104.16	104.27	104.79	104.48	104.40	104.28	104.12	104.03	104.32	103.98
Annual Max Momentary Gage Height	106.48		m. (MSL.) ,				at 09.00 Hours ,						on Sep 5, 2021
Zero Gage at Bottom Elevation	104.35		m. (MSL.) ,			River Bed	103.19		m. (MSL.)				
Left Bank Elevation		109.15		m. (MSL.) ,									
Right Bank Elevation		109.12		m. (MSL.) ,		Drainage Are	176		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	6.11	11.47	7.28	0.25	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	3.87	4.98	5.67	0.25	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	5.67	3.99	3.12	0.32	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	2.30	5.96	3.62	2.39	0.32	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.25	19.35	2.39	1.76	0.32	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	6.84	2.03	1.22	0.32	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.06	4.73	1.58	0.95	0.32	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.13	3.99	1.22	0.89	0.32	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.19	7.43	1.22	0.76	0.32	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.19	5.67	1.13	0.70	0.13	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	16.02	10.07	0.57	0.06	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	18.24	4.98	0.51	0.19	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	6.40	4.36	0.44	0.13	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	7.57	6.70	7.72	0.44	0.13	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	18.90	7.43	8.33	0.44	0.13	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	4.98	8.86	7.43	0.51	0.06	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	2.03	14.60	5.96	0.51	0.06	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	1.04	8.01	4.11	0.51	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.51	8.51	4.11	0.44	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.70	6.40	3.00	0.44	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.38	5.11	2.21	0.38	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.32	4.49	2.39	0.44	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.19	9.73	1.85	0.44	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.19	13.22	1.49	0.44	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.38	11.84	1.13	0.38	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.70	20.01	0.95	0.38	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.63	10.94	0.89	0.32	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.70	6.84	0.82	0.32	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	1.40	5.82	3.00	0.38	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	1.49	4.36	12.03	0.32	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	1.76	10.94	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	46.99	263.15	131.40	33.35	3.63	0.00	0.00	0.00	478.52 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	1.52	8.77	4.24	1.11	0.12	0.00	0.00	0.00	1.31 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	18.90	20.01	12.03	7.28	0.32	0.00	0.00	0.00	20.01 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	3.87	0.82	0.32	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	4.06	22.74	11.35	2.88	0.31	0.00	0.00	0.00	41.34 MCM
<b>Momentary Peak</b>	40.72 CMS. at 106.48 m. (MSL.) at 09.00 Hours , on Sep 5, 2021												
<b>Runoff Yield</b>	7.45 Liters/Second/Square KM.			Momentary Peak Yield			231.36 Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAN RIVER BASIN

Nam Phak at Ban Tha Sakae , Phitsanulok (N.55)

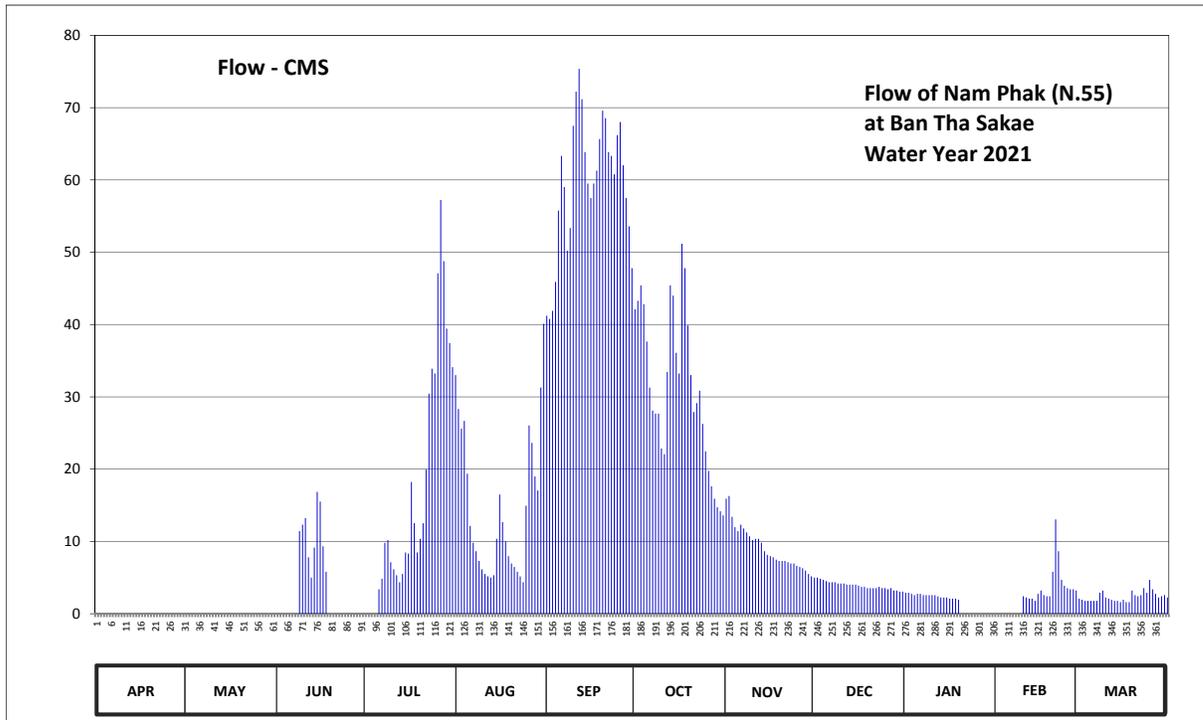
Lat 17 - 15 - 11 N Long 100 - 37 - 42 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

	<b>Ban</b>	<b>Tha Sakae</b>	<b>Amphoe</b>	<b>Chat Trakan</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	972	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+182.830 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 13 meters from the top staff gage.				<b>Elevation</b>	+191.446 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1994 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1994 to date					
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	185.71	186.39	185.91	186.14	187.48	187.85	187.89	186.63	186.01	185.88	185.81	185.83	
2	185.72	186.38	185.87	186.03	187.26	187.83	187.94	186.65	186.01	185.88	185.81	185.82	
3	185.71	186.12	185.84	185.97	187.13	187.88	188.03	186.50	186.00	185.87	185.80	185.81	
4	185.71	186.21	185.81	185.94	187.18	188.05	187.92	186.42	185.99	185.86	185.81	185.81	
5	185.75	186.09	185.80	185.92	186.81	188.46	187.69	186.39	185.98	185.87	185.85	185.81	
6	185.83	186.01	185.83	185.91	186.43	188.76	187.40	186.44	185.97	185.87	185.93	185.81	
7	186.17	185.97	186.02	186.00	186.30	188.59	187.25	186.41	185.97	185.86	185.95	185.81	
8	186.11	185.95	186.19	186.30	186.23	188.23	187.23	186.38	185.97	185.86	185.90	185.88	
9	185.97	185.99	186.39	186.32	186.15	188.36	187.23	186.35	185.96	185.86	185.87	185.90	
10	185.91	185.97	186.44	186.14	186.08	188.92	186.99	186.32	185.96	185.86	185.85	185.84	
11	185.91	185.92	186.49	186.08	186.04	189.10	186.95	186.33	185.96	185.86	185.84	185.83	
12	185.91	185.90	186.18	186.03	186.02	189.22	187.50	186.33	185.95	185.85	185.83	185.82	
13	185.95	185.88	186.01	185.97	186.01	189.06	188.03	186.30	185.95	185.84	185.83	185.81	
14	185.95	185.87	186.26	186.04	186.03	188.78	187.97	186.23	185.95	185.84	185.81	185.81	
15	185.96	185.86	186.68	186.22	186.33	188.61	187.62	186.20	185.95	185.84	185.87	185.80	
16	185.95	185.84	186.61	186.21	186.66	188.53	187.49	186.19	185.94	185.83	185.90	185.82	
17	186.07	185.83	186.27	186.75	186.46	188.61	188.27	186.18	185.93	185.83	185.86	185.80	
18	186.33	185.84	186.06	186.45	186.31	188.68	188.13	186.16	185.93	185.83	185.85	185.80	
19	186.48	185.84	185.87	186.22	186.19	188.85	187.79	186.15	185.92	185.82	185.85	185.90	
20	186.25	185.84	185.70	186.33	186.13	189.00	187.48	186.15	185.92	185.82	186.06	185.86	
21	186.05	185.83	185.69	186.45	186.10	188.96	187.24	186.15	185.92	185.84	186.48	185.85	
22	185.98	185.84	185.71	186.84	186.06	188.78	187.30	186.14	185.92	185.87	186.23	185.86	
23	185.92	185.83	185.67	187.36	186.02	188.76	187.38	186.13	185.93	185.93	185.99	185.92	
24	185.89	185.82	185.80	187.52	185.97	188.66	187.16	186.13	185.92	185.90	185.94	185.88	
25	185.86	185.82	185.97	187.49	186.58	188.87	186.97	186.11	185.92	185.87	185.92	185.99	
26	185.86	185.91	185.95	188.10	187.15	188.94	186.83	186.10	185.91	185.85	185.91	185.91	
27	186.20	185.93	185.94	188.52	187.03	188.71	186.72	186.09	185.92	185.85	185.91	185.87	
28	186.02	185.91	185.94	188.17	186.79	188.53	186.63	186.07	185.90	185.84	185.90	185.84	
29	186.14	186.03	185.95	187.77	186.69	188.37	186.57	186.04	185.90	185.83		185.85	
30	186.20	186.06	186.08	187.68	187.40	188.13	186.54	186.02	185.89	185.83		185.86	
31		185.96		187.53	187.80		186.51		185.89	185.82		185.84	
Mean	185.98	185.96	186.03	186.66	186.54	188.60	187.38	186.26	185.94	185.85	185.91	185.85	
Max	186.48	186.39	186.68	188.52	187.80	189.22	188.27	186.65	186.01	185.93	186.48	185.99	189.22
Min	185.71	185.82	185.67	185.91	185.97	187.83	186.51	186.02	185.89	185.82	185.80	185.80	185.67
Annual Max Momentary Gage Height	189.23		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	182.83		m. (MSL.) ,			River Bed	183.03		m. (MSL.)				
Left Bank Elevation		190.12		m. (MSL.) ,									
Right Bank Elevation		191.18		m. (MSL.) ,		Drainage Are	972		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	33.01	41.22	42.12	15.90	5.00	2.90	0.00	2.09	
2	0.00	0.00	0.00	0.00	28.31	40.77	43.29	16.28	5.00	2.90	0.00	1.93	
3	0.00	0.00	0.00	0.00	25.62	41.89	45.42	13.40	4.84	2.74	0.00	1.77	
4	0.00	0.00	0.00	0.00	26.66	45.90	42.81	11.97	4.68	2.58	0.00	1.77	
5	0.00	0.00	0.00	0.00	19.36	55.77	37.64	11.43	4.52	2.74	0.00	1.77	
6	0.00	0.00	0.00	3.38	12.15	63.33	31.29	12.33	4.35	2.74	0.00	1.77	
7	0.00	0.00	0.00	4.84	9.82	59.01	28.11	11.79	4.35	2.58	0.00	1.77	
8	0.00	0.00	0.00	9.82	8.64	50.21	27.69	11.25	4.35	2.58	0.00	2.90	
9	0.00	0.00	11.43	10.18	7.30	53.35	27.69	10.72	4.19	2.58	0.00	3.22	
10	0.00	0.00	12.33	7.13	6.14	67.49	22.86	10.18	4.19	2.58	2.42	2.25	
11	0.00	0.00	13.22	6.14	5.49	72.22	22.08	10.36	4.19	2.58	2.25	2.09	
12	0.00	0.00	7.80	5.33	5.16	75.36	33.44	10.36	4.03	2.42	2.09	1.93	
13	0.00	0.00	5.00	4.35	5.00	71.17	45.42	9.82	4.03	2.25	2.09	1.77	
14	0.00	0.00	9.15	5.49	5.33	63.85	44.00	8.64	4.03	2.25	1.77	1.77	
15	0.00	0.00	16.86	8.48	10.36	59.51	36.09	8.14	4.03	2.25	2.74	1.61	
16	0.00	0.00	15.51	8.31	16.47	57.50	33.23	7.97	3.87	2.09	3.22	1.93	
17	0.00	0.00	9.32	18.21	12.68	59.51	51.18	7.80	3.71	2.09	2.58	1.61	
18	0.00	0.00	5.81	12.51	10.00	61.28	47.80	7.47	3.71	2.09	2.42	1.61	
19	0.00	0.00	0.00	8.48	7.97	65.67	39.88	7.30	3.54	1.93	2.42	3.22	
20	0.00	0.00	0.00	10.36	6.96	69.59	33.01	7.30	3.54	0.00	5.81	2.58	
21	0.00	0.00	0.00	12.51	6.46	68.54	27.90	7.30	3.54	0.00	13.04	2.42	
22	0.00	0.00	0.00	19.94	5.81	63.85	29.14	7.13	3.54	0.00	8.64	2.58	
23	0.00	0.00	0.00	30.43	5.16	63.33	30.86	6.96	3.71	0.00	4.68	3.54	
24	0.00	0.00	0.00	33.88	4.35	60.77	26.24	6.96	3.54	0.00	3.87	2.90	
25	0.00	0.00	0.00	33.23	14.94	66.18	22.47	6.63	3.54	0.00	3.54	4.68	
26	0.00	0.00	0.00	47.08	26.04	68.01	19.75	6.46	3.38	0.00	3.38	3.38	
27	0.00	0.00	0.00	57.24	23.64	62.04	17.63	6.30	3.54	0.00	3.38	2.74	
28	0.00	0.00	0.00	48.77	18.98	57.50	15.90	5.97	3.22	0.00	3.22	2.25	
29	0.00	0.00	0.00	39.43	17.05	53.59	14.74	5.49	3.22	0.00		2.42	
30	0.00	0.00	0.00	37.42	31.29	47.80	14.17	5.16	3.06	0.00		2.58	
31	0.00	0.00		34.10	40.10		13.59		3.06	0.00		2.25	
Total	0.00	0.00	106.43	517.04	456.25	1786.21	967.44	274.77	121.50	46.87	73.56	73.10	4423.17 CMSDAY
Mean	0.00	0.00	3.55	16.68	14.72	59.54	31.21	9.16	3.92	1.51	2.63	2.36	12.12 CMS
Max	0.00	0.00	16.86	57.24	40.10	75.36	51.18	16.28	5.00	2.90	13.04	4.68	75.36 CMS
Min	0.00	0.00	0.00	0.00	4.35	40.77	13.59	5.16	3.06	0.00	0.00	1.61	0.00 CMS
Runoff	0.00	0.00	9.20	44.67	39.42	154.33	83.59	23.74	10.50	4.05	6.36	6.32	382.16 MCM
Momentary Peak	75.63	CMS.	at 189.23 m. (MSL.)	at 15.00 Hours	, on Sep 12, 2021								
Runoff Yield	12.47	Liters/Second/Square KM.		Momentary Peak Yield	77.81	Liters/Second/Square KM.							

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nam Fua at Ban Kok Muang, Phitsanulok (N.58)

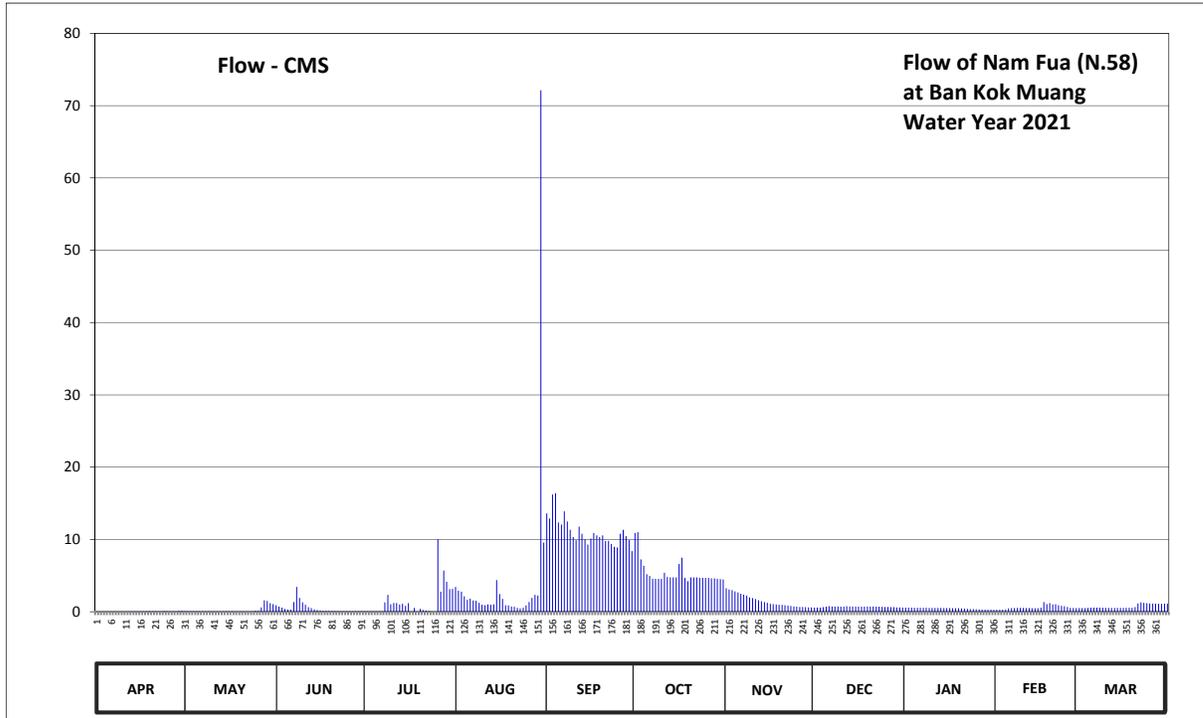
Lat 17 - 08 - 50 N Long 100 - 55 - 49 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

	<b>Ban</b>	<b>Kok Muang</b>	<b>Amphoe</b>	<b>Nakhon Thai</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	316	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+208.360 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 16 meters from the top staff gage.				<b>Elevation</b>	+214.931 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1984 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.63	209.68	210.07	209.68	210.76	211.93	211.72	210.72	209.95	209.95	209.83	209.92	
2	209.63	209.68	210.01	209.67	210.64	211.88	211.73	210.68	209.95	209.95	209.83	209.92	
3	209.63	209.67	209.95	209.67	210.61	212.09	211.36	210.66	209.95	209.95	209.83	209.92	
4	209.63	209.67	209.88	209.67	210.45	212.10	211.26	210.62	209.97	209.94	209.85	209.93	
5	209.63	209.67	209.84	209.67	210.31	211.84	211.10	210.59	210.00	209.94	209.90	209.94	
6	209.63	209.66	209.83	209.66	210.36	211.82	211.06	210.54	210.02	209.94	209.92	209.95	
7	209.63	209.66	210.21	209.66	210.28	211.95	211.00	210.51	210.01	209.94	209.92	209.95	
8	209.63	209.66	210.76	210.20	210.27	211.85	211.00	210.47	210.01	209.94	209.93	209.95	
9	209.63	209.66	210.39	210.50	210.18	211.76	211.00	210.41	210.01	209.93	209.93	209.94	
10	209.63	209.65	210.20	210.11	210.09	211.67	211.00	210.38	210.00	209.93	209.93	209.94	
11	209.63	209.65	210.09	210.17	210.07	211.63	211.13	210.34	210.00	209.93	209.92	209.93	
12	209.63	209.65	209.97	210.17	210.10	211.80	211.04	210.29	210.02	209.93	209.92	209.93	
13	209.64	209.65	209.92	210.10	210.09	211.71	211.03	210.25	210.01	209.93	209.91	209.93	
14	209.65	209.65	209.85	210.13	210.11	211.64	211.03	210.21	210.01	209.92	209.91	209.93	
15	209.65	209.66	209.82	210.04	210.96	211.57	211.03	210.18	210.01	209.92	209.91	209.93	
16	209.64	209.66	209.77	210.16	210.53	211.65	211.29	210.13	210.00	209.92	209.94	209.93	
17	209.64	209.66	209.73	209.62	210.35	211.72	211.39	210.12	210.00	209.91	210.21	209.94	
18	209.66	209.65	209.72	209.93	210.07	211.69	211.02	210.10	210.00	209.91	210.12	209.94	
19	209.68	209.65	209.71	209.50	210.06	211.67	210.93	210.09	210.01	209.91	210.16	209.94	
20	209.67	209.65	209.71	209.88	210.01	211.69	211.03	210.08	210.01	209.90	210.10	209.97	
21	209.66	209.65	209.69	209.81	209.99	211.62	211.03	210.07	210.01	209.89	210.11	210.15	
22	209.65	209.64	209.68	209.77	209.93	211.62	211.03	210.05	210.00	209.88	210.07	210.20	
23	209.65	209.64	209.67	209.71	209.90	211.58	211.02	210.03	210.00	209.87	210.04	210.18	
24	209.70	209.66	209.67	209.61	209.94	211.54	211.02	210.01	209.99	209.87	210.02	210.16	
25	209.67	209.76	209.66	209.47	210.06	211.53	211.02	210.00	209.98	209.86	209.98	210.15	
26	209.67	209.76	209.66	211.64	210.21	211.71	211.02	209.98	209.98	209.85	209.93	210.14	
27	209.66	209.96	209.67	210.61	210.39	211.76	211.01	209.98	209.97	209.84	209.93	210.14	
28	209.65	210.29	209.67	211.18	210.50	211.68	211.01	209.97	209.97	209.84	209.92	210.13	
29	209.74	210.26	209.67	210.91	210.48	211.63	211.00	209.96	209.96	209.83		210.13	
30	209.75	210.16	209.66	210.69	210.17	211.48	210.99	209.96	209.96	209.83		210.14	
31		210.12		210.70	211.60		210.98		209.95	209.83		210.14	
Mean	209.65	209.74	209.87	210.07	210.43	211.73	211.11	210.25	209.99	209.90	209.96	210.01	
Max	209.75	210.29	210.76	211.64	214.17	212.10	211.73	210.72	210.02	209.95	210.21	210.20	214.17
Min	209.63	209.64	209.66	209.47	209.90	211.48	210.93	209.96	209.95	209.83	209.83	209.92	209.47
Annual Max Momentary Gage Height	214.70		m. (MSL.) ,			at 06.00 Hours ,	on Aug 30, 2021						
Zero Gage at Bottom Elevation	208.36		m. (MSL.) ,			River Bed	209.49	m. (MSL.)					
Left Bank Elevation	214.95		m. (MSL.) ,										
Right Bank Elevation	214.99		m. (MSL.) ,			Drainage Are	316	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.08	0.91	0.08	3.44	13.60	10.90	3.26	0.58	0.58	0.28	0.50		
2	0.03	0.08	0.73	0.07	2.90	12.90	11.01	3.08	0.58	0.58	0.28	0.50		
3	0.03	0.07	0.58	0.07	2.77	16.21	7.23	2.99	0.58	0.58	0.28	0.50		
4	0.03	0.07	0.40	0.07	2.14	16.39	6.35	2.81	0.63	0.55	0.33	0.53		
5	0.03	0.07	0.30	0.07	1.65	12.34	5.19	2.68	0.70	0.55	0.45	0.55		
6	0.03	0.06	0.28	0.06	1.81	12.06	4.94	2.49	0.76	0.55	0.50	0.58		
7	0.03	0.06	1.33	0.06	1.56	13.88	4.56	2.37	0.73	0.55	0.50	0.58		
8	0.03	0.06	3.44	1.30	1.52	12.48	4.56	2.21	0.73	0.55	0.53	0.58		
9	0.03	0.06	1.91	2.33	1.24	11.34	4.56	1.98	0.73	0.53	0.53	0.55		
10	0.03	0.05	1.30	1.03	0.97	10.35	4.56	1.88	0.70	0.53	0.53	0.55		
11	0.03	0.05	0.97	1.21	0.91	9.91	5.38	1.75	0.70	0.53	0.50	0.53		
12	0.03	0.05	0.63	1.21	1.00	11.78	4.81	1.59	0.76	0.53	0.50	0.53		
13	0.04	0.05	0.50	1.00	0.97	10.79	4.75	1.46	0.73	0.53	0.48	0.53		
14	0.05	0.05	0.33	1.09	1.03	10.02	4.75	1.33	0.73	0.50	0.48	0.53		
15	0.05	0.06	0.25	0.82	4.37	9.28	4.75	1.24	0.73	0.50	0.48	0.53		
16	0.04	0.06	0.17	1.18	2.45	10.13	6.61	1.09	0.70	0.50	0.55	0.53		
17	0.04	0.06	0.13	0.02	1.78	10.90	7.49	1.06	0.70	0.48	1.33	0.55		
18	0.06	0.05	0.12	0.53	0.91	10.57	4.69	1.00	0.70	0.48	1.06	0.55		
19	0.08	0.05	0.11	0.00	0.88	10.35	4.23	0.97	0.73	0.48	1.18	0.55		
20	0.07	0.05	0.11	0.40	0.73	10.57	4.75	0.94	0.73	0.45	1.00	0.63		
21	0.06	0.05	0.09	0.23	0.68	9.80	4.75	0.91	0.73	0.43	1.03	1.15		
22	0.05	0.04	0.08	0.17	0.53	9.80	4.75	0.85	0.70	0.40	0.91	1.30		
23	0.05	0.04	0.07	0.11	0.45	9.38	4.69	0.79	0.70	0.38	0.82	1.24		
24	0.10	0.06	0.07	0.01	0.55	8.98	4.69	0.73	0.68	0.38	0.76	1.18		
25	0.07	0.16	0.06	0.00	0.88	8.88	4.69	0.70	0.65	0.35	0.65	1.15		
26	0.07	0.16	0.06	10.02	1.33	10.79	4.69	0.65	0.65	0.33	0.53	1.12		
27	0.06	0.60	0.07	2.77	1.91	11.34	4.62	0.65	0.63	0.30	0.53	1.12		
28	0.05	1.59	0.07	5.69	2.33	10.46	4.62	0.63	0.63	0.30	0.50	1.09		
29	0.14	1.49	0.07	4.14	2.25	9.91	4.56	0.60	0.60	0.28		1.09		
30	0.15	1.18	0.06	3.13	72.14	8.38	4.51	0.60	0.60	0.28		1.12		
31		1.06		3.17	9.58		4.47		0.58	0.28		1.12		
Total	1.59	7.62	15.20	42.04	127.66	333.57	167.11	45.29	21.08	14.24	17.50	23.56	816.46	
Mean	0.05	0.25	0.51	1.36	4.12	11.12	5.39	1.51	0.68	0.46	0.63	0.76	2.24	
Max	0.15	1.59	3.44	10.02	72.14	16.39	11.01	3.26	0.76	0.58	1.33	1.30	72.14	
Min	0.03	0.04	0.06	0.00	0.45	8.38	4.23	0.60	0.58	0.28	0.28	0.50	0.00	
Runoff	0.14	0.66	1.31	3.63	11.03	28.82	14.44	3.91	1.82	1.23	1.51	2.04	70.54	
Momentary Peak	92.60 CMS. at 214.70 m. (MSL.) at 06.00 Hours , on Aug 30, 2021													
Runoff Yield	7.08 Liters/Second/Square KM.			Momentary Peak Yield			293.04 Liters/Second/Square KM.							

## WATER YEAR : 2021

## NAN RIVER BASIN

## Lam Nam Khan at Ban Na Pho Na Chan , Phitsanulok (N.59)

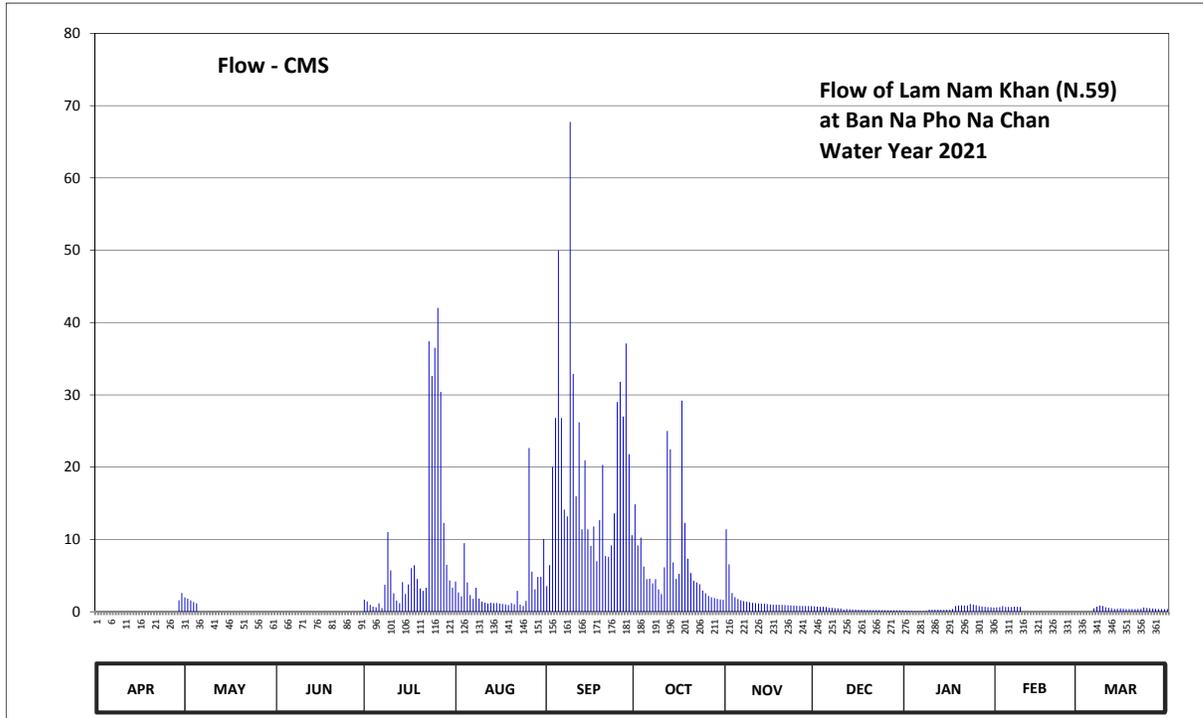
Lat 17 - 02 - 14 N Long 100 - 50 - 29 E

Location : on left bank at Ban Na Pho Na Chan.

	<b>Ban</b>	Na Pho Na Chan	<b>Amphoe</b>	Nakhon Thai	<b>Changwat</b>	Phitsanulok
<b>Drainage Area</b>	420	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+197.680 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 25 meters from the top staff gage.				<b>Elevation</b>	+206.935 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1984 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	201.14	202.23	201.52	202.09	202.87	202.71	204.37	204.03	201.56	201.07	201.48	201.40	
2	201.08	202.16	201.48	201.98	202.47	203.33	203.77	203.35	201.53	201.05	201.49	201.40	
3	201.05	202.05	201.45	201.69	202.29	204.76	203.90	202.45	201.52	201.01	201.58	201.40	
4	201.02	201.93	201.44	201.54	203.81	205.14	203.29	202.25	201.51	200.98	201.50	201.29	
5	200.99	201.83	201.43	201.47	202.84	205.87	202.95	202.13	201.49	201.01	201.50	201.26	
6	200.98	201.70	201.42	201.83	202.36	205.14	202.97	202.06	201.42	200.99	201.50	201.37	
7	200.98	201.65	201.41	201.40	202.14	204.30	202.81	202.01	201.41	200.99	201.53	201.54	
8	200.97	201.60	201.41	202.76	202.65	204.21	202.95	201.96	201.38	201.02	201.52	201.63	
9	200.97	201.59	201.40	203.99	202.17	206.16	202.58	201.91	201.36	201.18	201.50	201.59	
10	200.97	201.55	201.40	203.19	201.97	205.43	202.41	201.87	201.33	201.18	201.41	201.48	
11	200.97	201.52	201.42	202.44	201.88	204.46	203.27	201.84	201.19	201.18	201.46	201.43	
12	200.96	201.49	201.44	202.03	201.82	205.11	205.05	201.82	201.27	201.18	201.51	201.39	
13	200.96	201.47	201.43	201.84	201.86	204.03	204.91	201.80	201.24	201.17	201.52	201.30	
14	200.95	201.46	201.42	202.85	201.84	204.82	203.40	201.78	201.23	201.16	201.52	201.32	
15	200.95	201.45	201.42	202.42	201.85	204.03	202.96	201.76	201.20	201.17	201.55	201.35	
16	200.95	201.48	201.43	202.77	201.80	203.76	203.10	201.74	201.19	201.16	201.52	201.31	
17	200.98	201.55	201.45	203.25	201.77	204.07	205.26	201.72	201.18	201.27	201.58	201.28	
18	201.06	201.56	201.45	203.33	201.73	203.43	204.12	201.71	201.17	201.60	201.59	201.28	
19	201.32	201.57	201.44	202.96	201.68	204.16	203.49	201.71	201.15	201.63	201.61	201.27	
20	201.40	201.58	201.43	202.62	201.84	204.78	203.12	201.70	201.14	201.65	201.59	201.24	
21	201.35	201.57	201.44	202.53	201.75	203.56	202.90	201.68	201.12	201.64	201.62	201.27	
22	201.37	201.56	201.46	202.65	202.53	203.54	202.84	201.66	201.12	201.64	201.64	201.30	
23	201.60	201.56	201.43	205.58	201.72	203.77	202.78	201.65	201.11	201.77	201.56	201.46	
24	201.57	201.57	201.50	205.42	201.61	204.25	202.54	201.64	201.11	201.72	201.50	201.42	
25	201.62	201.61	201.47	205.55	202.02	205.25	202.44	201.62	201.11	201.66	201.49	201.38	
26	201.57	201.58	201.45	205.70	204.92	205.39	202.31	201.61	201.10	201.59	201.49	201.33	
27	201.56	201.57	201.45	205.32	203.16	205.15	202.24	201.60	201.10	201.55	201.48	201.29	
28	201.55	201.56	201.44	204.12	202.59	205.57	202.20	201.59	201.10	201.52	201.50	201.27	
29	202.06	201.56	201.44	203.34	203.02	204.87	202.14	201.59	201.10	201.49		201.27	
30	202.45	201.58	201.46	202.91	203.02	203.94	202.11	201.58	201.09	201.47		201.26	
31		201.57		202.65	203.88		202.08		201.09	201.44		201.27	
Mean	201.25	201.64	201.44	203.04	202.38	204.50	203.14	201.93	201.25	201.33	201.53	201.36	
Max	202.45	202.23	201.52	205.70	204.92	206.16	205.26	204.03	201.56	201.77	201.64	201.63	206.16
Min	200.95	201.45	201.40	201.40	201.61	202.71	202.08	201.58	201.09	200.98	201.41	201.24	200.95
Annual Max Momentary Gage Height	206.35		m. (MSL.) ,				at 15.00 Hours ,						on Sep 9, 2021
Zero Gage at Bottom Elevation	197.68		m. (MSL.) ,			River Bed	199.96		m. (MSL.)				
Left Bank Elevation	206.53		m. (MSL.) ,										
Right Bank Elevation	206.68		m. (MSL.) ,			Drainage Are	420		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.98	0.00	1.66	4.17	3.55	14.86	11.39	0.74	0.17	0.62	0.00	
2	0.00	1.81	0.00	1.43	2.66	6.45	9.18	6.56	0.70	0.15	0.64	0.00	
3	0.00	1.57	0.00	0.94	2.13	20.05	10.25	2.59	0.68	0.11	0.77	0.00	
4	0.00	1.34	0.00	0.71	9.49	26.80	6.24	2.03	0.67	0.08	0.65	0.00	
5	0.00	1.17	0.00	0.61	4.04	49.97	4.50	1.75	0.64	0.11	0.65	0.00	
6	0.00	0.00	0.00	1.17	2.30	26.80	4.58	1.59	0.53	0.09	0.65	0.47	
7	0.00	0.00	0.00	0.50	1.77	14.12	3.92	1.48	0.52	0.09	0.70	0.71	
8	0.00	0.00	0.00	3.73	3.33	13.17	4.50	1.39	0.48	0.12	0.68	0.85	
9	0.00	0.00	0.00	11.02	1.83	67.75	3.07	1.31	0.46	0.28	0.65	0.79	
10	0.00	0.00	0.00	5.71	1.41	32.90	2.44	1.24	0.43	0.28	0.00	0.62	
11	0.00	0.00	0.00	2.55	1.26	15.98	6.13	1.19	0.29	0.28	0.00	0.55	
12	0.00	0.00	0.00	1.53	1.15	26.20	25.00	1.15	0.37	0.28	0.00	0.49	
13	0.00	0.00	0.00	1.19	1.22	11.39	22.47	1.12	0.34	0.27	0.00	0.40	
14	0.00	0.00	0.00	4.09	1.19	20.94	6.82	1.09	0.33	0.26	0.00	0.42	
15	0.00	0.00	0.00	2.47	1.21	11.39	4.54	1.05	0.30	0.27	0.00	0.45	
16	0.00	0.00	0.00	3.77	1.12	9.10	5.23	1.02	0.29	0.26	0.00	0.41	
17	0.00	0.00	0.00	6.03	1.07	11.79	29.20	0.98	0.28	0.37	0.00	0.38	
18	0.00	0.00	0.00	6.45	1.00	6.99	12.28	0.97	0.27	0.80	0.00	0.38	
19	0.00	0.00	0.00	4.54	0.92	12.67	7.32	0.97	0.25	0.85	0.00	0.37	
20	0.00	0.00	0.00	3.21	1.19	20.32	5.34	0.95	0.24	0.88	0.00	0.34	
21	0.00	0.00	0.00	2.88	1.04	7.70	4.29	0.92	0.22	0.86	0.00	0.37	
22	0.00	0.00	0.00	3.33	2.88	7.59	4.04	0.89	0.22	0.86	0.00	0.40	
23	0.00	0.00	0.00	37.40	0.98	9.18	3.81	0.88	0.21	1.07	0.00	0.59	
24	0.00	0.00	0.00	32.60	0.82	13.59	2.92	0.86	0.21	0.98	0.00	0.53	
25	0.00	0.00	0.00	36.50	1.50	29.00	2.55	0.83	0.21	0.89	0.00	0.48	
26	0.00	0.00	0.00	42.03	22.64	31.80	2.18	0.82	0.20	0.79	0.00	0.43	
27	0.00	0.00	0.00	30.40	5.55	27.00	2.00	0.80	0.20	0.73	0.00	0.39	
28	0.00	0.00	0.00	12.28	3.10	37.10	1.90	0.79	0.20	0.68	0.00	0.37	
29	1.59	0.00	0.00	6.50	4.81	21.79	1.77	0.79	0.20	0.64	0.00	0.37	
30	2.59	0.00	0.00	4.33	4.81	10.59	1.70	0.77	0.19	0.61	0.00	0.36	
31		0.00		3.33	10.08		1.64		0.19	0.56		0.37	
<b>Total</b>	4.18	7.87	0.00	274.89	102.67	603.67	216.67	50.17	11.06	14.67	6.01	12.29	1304.15 CMSDAY
<b>Mean</b>	0.14	0.25	0.00	8.87	3.31	20.12	6.99	1.67	0.36	0.47	0.21	0.40	3.57 CMS
<b>Max</b>	2.59	1.98	0.00	42.03	22.64	67.75	29.20	11.39	0.74	1.07	0.77	0.85	67.75 CMS
<b>Min</b>	0.00	0.00	0.00	0.50	0.82	3.55	1.64	0.77	0.19	0.08	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.36	0.68	0.00	23.75	8.87	52.16	18.72	4.33	0.96	1.27	0.52	1.06	112.68 MCM
<b>Momentary Peak</b>	82.22	CMS. at 206.35 m. (MSL.) at 15.00 Hours , on Sep 9, 2021											
<b>Runoff Yield</b>	8.51	Liters/Second/Square KM. Momentary Peak Yield 195.76 Liters/Second/Square KM.											

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Ban Hat Song Khwae , Uttaradit (N.60)

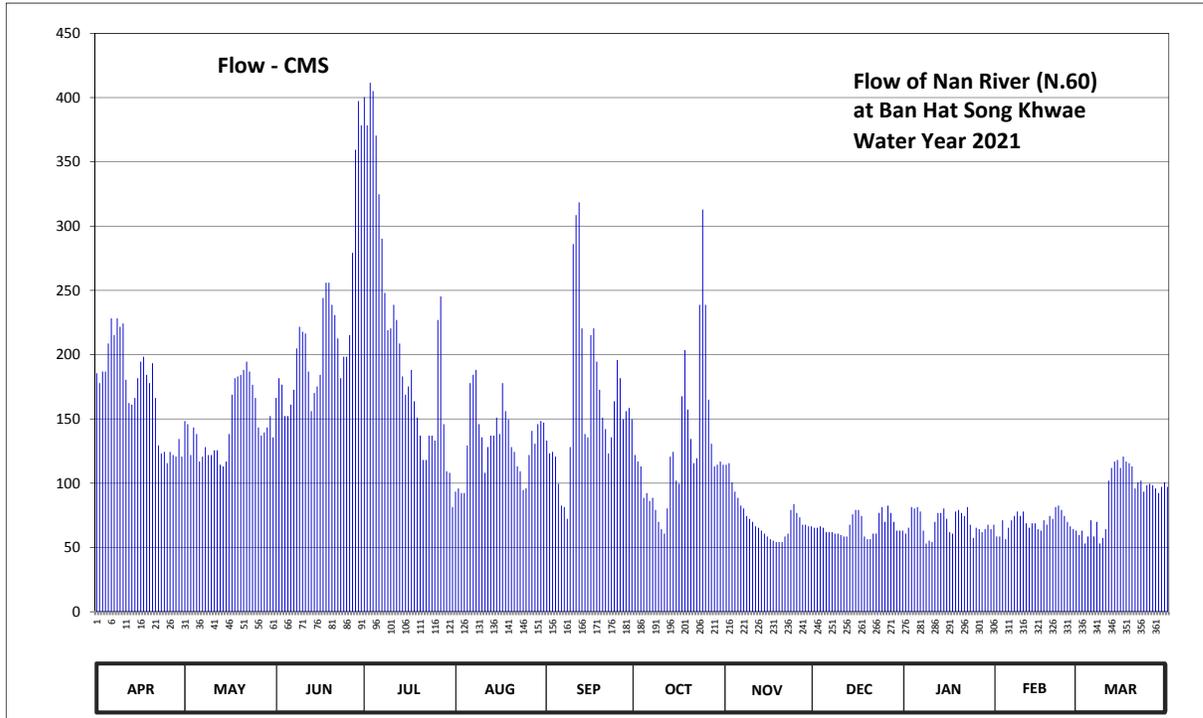
Lat 17 - 25 - 06 N Long 100 - 07 - 51 E

Location : on right bank about 1 kilometer downstream from Wat Hat Song Khwae.

	Ban Hat Song Khwae	Amphoe Tron	Changwat Uttaradit
<b>Drainage Area</b>	18,232 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+48.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the Meteorological Station.	<b>Elevation</b>	+57.592 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1986 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Sirikit Dam reservoir. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.81	49.52	49.66	51.32	49.08	49.40	49.31	49.25	48.84	48.80	48.78	48.79	
2	49.75	49.50	49.78	51.18	49.10	49.32	49.27	49.26	48.84	48.84	48.78	48.82	
3	49.82	49.31	49.74	51.39	49.07	49.33	49.24	49.14	48.85	48.98	48.89	48.73	
4	49.82	49.48	49.55	51.35	49.07	49.30	49.04	49.08	48.84	48.97	48.76	48.78	
5	49.99	49.44	49.55	51.13	49.37	49.13	49.07	49.04	48.81	48.98	48.84	48.89	
6	50.14	49.27	49.62	50.84	49.75	48.99	49.02	48.99	48.81	48.95	48.89	48.78	
7	50.04	49.30	49.71	50.60	49.80	48.98	49.04	48.97	48.81	48.82	48.92	48.88	
8	50.14	49.36	49.96	50.29	49.83	48.90	48.96	48.92	48.80	48.73	48.95	48.73	
9	50.09	49.31	50.09	50.07	49.50	49.36	48.88	48.90	48.80	48.75	48.92	48.77	
10	50.11	49.31	50.06	50.08	49.42	50.57	48.83	48.88	48.79	48.74	48.95	48.83	
11	49.77	49.34	50.05	50.22	49.20	50.73	48.80	48.85	48.78	48.88	48.87	49.15	
12	49.63	49.34	49.82	50.13	49.36	50.80	48.97	48.84	48.78	48.94	48.84	49.23	
13	49.62	49.25	49.58	49.99	49.43	50.08	49.30	48.82	48.86	48.94	48.87	49.27	
14	49.66	49.24	49.69	49.79	49.43	49.44	49.33	48.80	48.93	48.97	48.87	49.28	
15	49.78	49.27	49.73	49.68	49.54	49.42	49.15	48.78	48.96	48.90	48.83	49.23	
16	49.88	49.44	49.80	49.73	49.44	50.04	49.13	48.76	48.96	48.81	48.82	49.30	
17	49.91	49.68	50.26	49.83	49.75	50.08	49.67	48.75	48.92	48.80	48.89	49.27	
18	49.80	49.78	50.35	49.64	49.58	49.88	49.95	48.74	48.78	48.95	48.86	49.26	
19	49.75	49.79	50.35	49.54	49.53	49.71	49.59	48.74	48.76	48.96	48.92	49.24	
20	49.87	49.80	50.22	49.43	49.36	49.54	49.41	48.74	48.76	48.94	48.90	49.10	
21	49.66	49.83	50.16	49.28	49.33	49.47	49.26	48.78	48.80	48.92	48.98	49.14	
22	49.37	49.88	50.02	49.28	49.24	49.32	49.29	48.80	48.80	48.98	48.99	49.15	
23	49.32	49.82	49.78	49.43	49.21	49.42	50.22	48.96	48.94	48.86	48.96	49.08	
24	49.33	49.74	49.91	49.43	49.09	49.64	50.76	49.00	48.98	48.77	48.92	49.12	
25	49.26	49.66	49.91	49.40	49.10	49.89	50.22	48.94	48.88	48.84	48.88	49.13	
26	49.33	49.48	50.04	50.13	49.31	49.78	49.65	48.91	48.99	48.83	48.85	49.12	
27	49.31	49.43	50.52	50.27	49.46	49.53	49.38	48.86	48.94	48.81	48.83	49.10	
28	49.30	49.45	51.06	49.50	49.38	49.58	49.24	48.86	48.88	48.83	48.82	49.07	
29	49.41	49.48	51.30	49.21	49.50	49.60	49.25	48.85	48.82	48.86		49.11	
30	49.30	49.55	51.18	49.20	49.52	49.53	49.27	48.85	48.82	48.83		49.14	
31		49.42		48.98	49.51		49.25		48.82	48.86		49.11	
Mean	49.70	49.50	50.05	50.01	49.40	49.63	49.35	48.90	48.85	48.87	48.88	49.05	
Max	50.14	49.88	51.30	51.39	49.83	50.80	50.76	49.26	48.99	48.98	48.99	49.30	51.39
Min	49.26	49.24	49.55	48.98	49.07	48.90	48.80	48.74	48.76	48.73	48.76	48.73	48.73
Annual Max Momentary Gage Height	51.77		m. (MSL.) ,				at 15.00 Hours ,						on Jul 3, 2021
Zero Gage at Bottom Elevation	48.50		m. (MSL.) ,			River Bed	44.13	m. (MSL.)					
Left Bank Elevation		58.58		m. (MSL.) ,									
Right Bank Elevation		56.52		m. (MSL.) ,		Drainage Are	18,232	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	185.57	148.41	166.29	400.44	93.48	133.16	121.88	114.37	65.37	60.78	58.58	59.68		
2	177.86	145.87	181.71	378.33	95.92	123.14	116.87	115.62	65.37	65.37	58.58	63.08		
3	186.85	121.88	176.57	411.50	92.27	124.39	113.11	100.79	66.52	81.44	71.11	53.09		
4	186.85	143.33	152.23	405.18	92.27	120.63	88.61	93.48	65.37	80.30	56.38	58.58		
5	208.70	138.24	152.23	370.46	129.40	99.57	92.27	88.61	61.93	81.44	65.37	71.11		
6	228.25	116.87	161.15	324.82	177.86	82.59	86.18	82.59	61.93	78.00	71.11	58.58		
7	215.20	120.63	172.72	290.22	184.28	81.44	88.61	80.30	61.93	63.08	74.56	69.96		
8	228.25	128.15	204.84	248.02	188.14	72.26	79.15	74.56	60.78	53.09	78.00	53.09		
9	221.73	121.88	221.73	219.12	145.87	128.15	69.96	72.26	60.78	55.29	74.56	57.48		
10	224.34	121.88	217.81	220.42	135.70	286.08	64.22	69.96	59.68	54.19	78.00	64.22		
11	180.43	125.64	216.51	238.73	108.10	308.62	60.78	66.52	58.58	69.96	68.82	102.01		
12	162.44	125.64	186.85	226.95	128.15	318.52	80.30	65.37	58.58	76.85	65.37	111.86		
13	161.15	114.37	156.04	208.70	136.97	220.42	120.63	63.08	67.67	76.85	68.82	116.87		
14	166.29	113.11	170.15	183.00	136.97	138.24	124.39	60.78	75.70	80.30	68.82	118.12		
15	181.71	116.87	175.29	168.86	150.95	135.70	102.01	58.58	79.15	72.26	64.22	111.86		
16	194.56	138.24	184.28	175.29	138.24	215.20	99.57	56.38	79.15	61.93	63.08	120.63		
17	198.42	168.86	244.04	188.14	177.86	220.42	167.58	55.29	74.56	60.78	71.11	116.87		
18	184.28	181.71	255.99	163.72	156.04	194.56	203.56	54.19	58.58	78.00	67.67	115.62		
19	177.86	183.00	255.99	150.95	149.68	172.72	157.31	54.19	56.38	79.15	74.56	113.11		
20	193.28	184.28	238.73	136.97	128.15	150.95	134.43	54.19	56.38	76.85	72.26	95.92		
21	166.29	188.14	230.86	118.12	124.39	142.06	115.62	58.58	60.78	74.56	81.44	100.79		
22	129.40	194.56	212.59	118.12	113.11	123.14	119.38	60.78	60.78	81.44	82.59	102.01		
23	123.14	186.85	181.71	136.97	109.35	135.70	238.73	79.15	76.85	67.67	79.15	93.48		
24	124.39	176.57	198.42	136.97	94.70	163.72	312.86	83.74	81.44	57.48	74.56	98.36		
25	115.62	166.29	198.42	133.16	95.92	195.85	238.73	76.85	69.96	65.37	69.96	99.57		
26	124.39	143.33	215.20	226.95	121.88	181.71	165.01	73.41	82.59	64.22	66.52	98.36		
27	121.88	136.97	279.18	245.37	140.79	149.68	130.65	67.67	76.85	61.93	64.22	95.92		
28	120.63	139.52	359.44	145.87	130.65	156.04	113.11	67.67	69.96	64.22	63.08	92.27		
29	134.43	143.33	397.28	109.35	145.87	158.58	114.37	66.52	63.08	67.67		97.14		
30	120.63	152.23	378.33	108.10	148.41	149.68	116.87	66.52	63.08	64.22		100.79		
31		135.70		81.44	147.14		114.37		63.08	67.67		97.14		
Total	5144.82	4522.35	6542.58	6670.24	4118.51	4882.92	3951.12	2182.00	2062.84	2142.36	1952.50	2807.57	46979.81	CMSDAY
Mean	171.49	145.88	218.09	215.17	132.86	162.76	127.46	72.73	66.54	69.11	69.73	90.57	128.71	CMS
Max	228.25	194.56	397.28	411.50	188.14	318.52	312.86	115.62	82.59	81.44	82.59	120.63	411.50	CMS
Min	115.62	113.11	152.23	81.44	92.27	72.26	60.78	54.19	56.38	53.09	56.38	53.09	53.09	CMS
Runoff	444.51	390.73	565.28	576.31	355.84	421.88	341.38	188.52	178.23	185.10	168.70	242.57	4059.06	MCM
Momentary Peak	471.88	CMS. at 51.77 m. (MSL.)			at 15.00 Hours ,		on Jul 3, 2021							
Runoff Yield	7.06	Liters/Second/Square KM.			Momentary Peak Yield	25.88	Liters/Second/Square KM.							

## WATER YEAR : 2021

## NAN RIVER BASIN

## Huai Nam Khlung at Ban Huai Tha Nua , Phitsanulok (N.62)

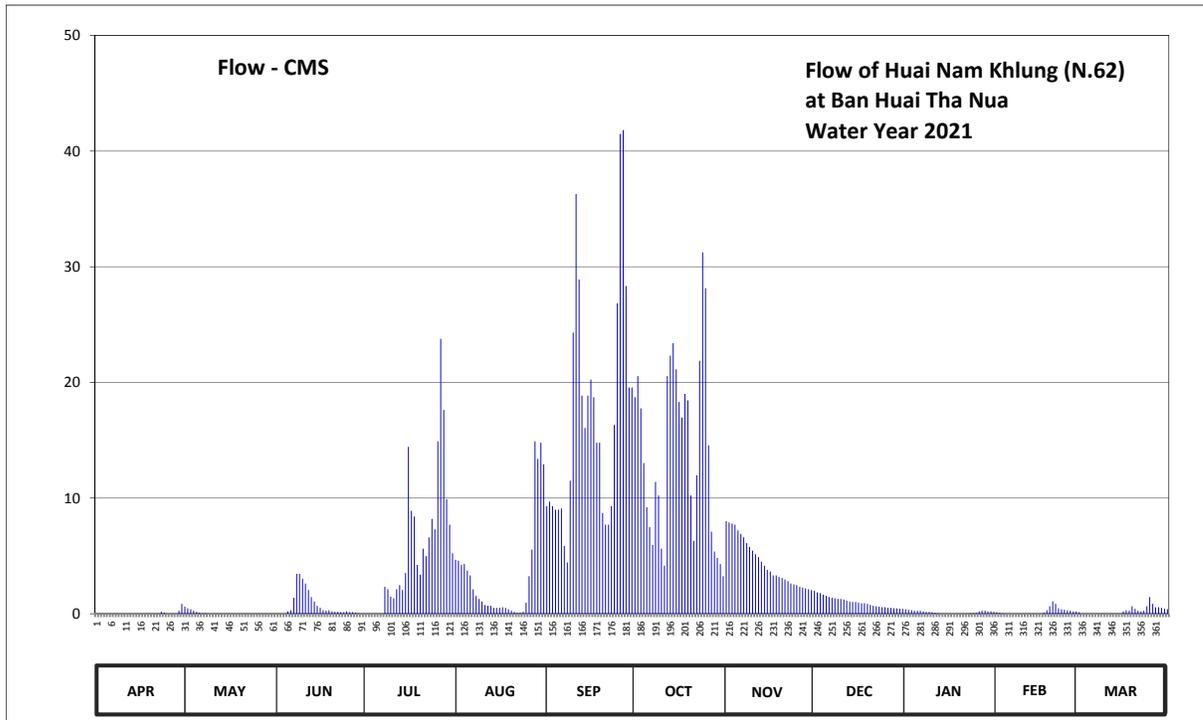
Lat 17 - 14 - 44 N Long 100 - 32 - 07 E

Location : on left bank at Ban Huai Tha Nua.

	<b>Ban</b>	Huai Tha Nua	<b>Amphoe</b>	Chat Trakan	<b>Changwat</b>	Phitsanulok
<b>Drainage Area</b>	350	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+190.310 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 60 meters from the top staff gage.				<b>Elevation</b>	+200.077 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1986 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.02	191.49	191.30	191.34	192.12	192.62	193.40	192.49	191.74	191.44	191.38	191.38	
2	191.02	191.46	191.30	191.35	192.11	192.66	193.53	192.48	191.72	191.43	191.37	191.35	
3	191.02	191.44	191.31	191.31	192.06	192.62	193.33	192.47	191.71	191.42	191.36	191.32	
4	191.04	191.41	191.31	191.30	192.07	192.59	192.95	192.46	191.69	191.41	191.35	191.31	
5	191.06	191.39	191.40	191.29	191.99	192.59	192.61	192.41	191.67	191.41	191.35	191.30	
6	191.07	191.37	191.42	191.29	191.93	192.60	192.44	192.38	191.65	191.41	191.34	191.29	
7	191.05	191.36	191.64	191.29	191.76	192.27	192.28	192.35	191.64	191.40	191.34	191.29	
8	191.05	191.36	191.95	191.79	191.67	192.09	192.81	192.30	191.63	191.39	191.33	191.28	
9	191.04	191.35	191.95	191.76	191.62	192.82	192.71	192.26	191.62	191.39	191.33	191.27	
10	191.04	191.35	191.89	191.66	191.58	193.77	192.24	192.22	191.62	191.38	191.33	191.27	
11	191.04	191.35	191.83	191.63	191.52	194.37	192.05	192.18	191.61	191.37	191.32	191.27	
12	191.07	191.34	191.75	191.76	191.51	194.02	193.53	192.15	191.59	191.36	191.32	191.27	
13	191.13	191.34	191.65	191.81	191.51	193.41	193.65	192.10	191.58	191.35	191.31	191.28	
14	191.10	191.33	191.58	191.75	191.47	193.20	193.72	192.05	191.57	191.35	191.31	191.29	
15	191.13	191.33	191.51	191.96	191.47	193.41	193.57	192.00	191.57	191.35	191.31	191.31	
16	191.25	191.32	191.47	193.07	191.47	193.51	193.37	191.98	191.56	191.34	191.31	191.40	
17	191.27	191.32	191.42	192.58	191.48	193.40	193.27	191.93	191.55	191.34	191.37	191.42	
18	191.24	191.31	191.41	192.53	191.47	193.10	193.42	191.93	191.55	191.34	191.42	191.41	
19	191.23	191.31	191.42	192.06	191.44	193.10	193.38	191.91	191.54	191.34	191.50	191.50	
20	191.23	191.30	191.40	191.94	191.41	192.56	192.71	191.90	191.52	191.34	191.58	191.45	
21	191.22	191.30	191.39	192.24	191.39	192.46	192.32	191.88	191.51	191.35	191.54	191.41	
22	191.28	191.29	191.39	192.16	191.37	192.46	192.86	191.86	191.50	191.35	191.46	191.40	
23	191.39	191.29	191.38	192.35	191.37	192.62	193.62	191.83	191.49	191.36	191.44	191.41	
24	191.37	191.29	191.38	192.51	191.39	193.22	194.14	191.82	191.48	191.36	191.43	191.50	
25	191.34	191.28	191.40	192.42	191.56	193.91	193.98	191.81	191.48	191.37	191.42	191.65	
26	191.32	191.27	191.38	193.11	191.92	194.56	193.08	191.79	191.47	191.40	191.41	191.54	
27	191.31	191.27	191.38	193.74	192.23	194.57	192.40	191.78	191.47	191.41	191.40	191.48	
28	191.31	191.27	191.37	193.32	193.11	193.99	192.21	191.77	191.46	191.41	191.40	191.48	
29	191.41	191.28	191.36	192.68	192.98	193.46	192.14	191.76	191.46	191.40		191.47	
30	191.54	191.30	191.35	192.46	193.10	193.46	192.07	191.75	191.45	191.40		191.45	
31		191.29		192.19	192.94		191.92		191.45	191.39		191.44	
Mean	191.19	191.33	191.49	192.09	191.84	193.18	192.96	192.07	191.57	191.38	191.38	191.38	
Max	191.54	191.49	191.95	193.74	193.11	194.57	194.14	192.49	191.74	191.44	191.58	191.65	194.57
Min	191.02	191.27	191.30	191.29	191.37	192.09	191.92	191.75	191.45	191.34	191.31	191.27	191.02
Annual Max Momentary Gage Height	194.64		m. (MSL.) ,			at 12.00 Hours ,	on Sep 27, 2021						
Zero Gage at Bottom Elevation	190.31		m. (MSL.) ,			River Bed	190.62	m. (MSL.)					
Left Bank Elevation		196.89		m. (MSL.) ,									
Right Bank Elevation		196.96		m. (MSL.) ,		Drainage Are	350	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.60	0.00	0.00	4.66	9.30	18.72	8.00	1.98	0.38	0.13	0.13	
2	0.00	0.47	0.00	0.00	4.58	9.70	20.54	7.90	1.84	0.34	0.09	0.00	
3	0.00	0.38	0.00	0.00	4.22	9.30	17.75	7.80	1.77	0.30	0.04	0.00	
4	0.00	0.26	0.00	0.00	4.29	9.00	13.03	7.70	1.65	0.26	0.00	0.00	
5	0.00	0.17	0.21	0.00	3.73	9.00	9.20	7.20	1.54	0.26	0.00	0.00	
6	0.00	0.09	0.30	0.00	3.31	9.10	7.50	6.90	1.44	0.26	0.00	0.00	
7	0.00	0.04	1.38	0.00	2.12	5.86	5.94	6.60	1.38	0.21	0.00	0.00	
8	0.00	0.04	3.45	2.33	1.54	4.43	11.39	6.10	1.33	0.17	0.00	0.00	
9	0.00	0.00	3.45	2.12	1.28	11.50	10.22	5.78	1.28	0.17	0.00	0.00	
10	0.00	0.00	3.03	1.49	1.06	24.30	5.62	5.46	1.28	0.13	0.00	0.00	
11	0.00	0.00	2.61	1.33	0.75	36.28	4.15	5.14	1.22	0.09	0.00	0.00	
12	0.00	0.00	2.05	2.12	0.69	28.90	20.54	4.90	1.12	0.04	0.00	0.00	
13	0.00	0.00	1.44	2.47	0.69	18.86	22.31	4.50	1.06	0.00	0.00	0.00	
14	0.00	0.00	1.06	2.05	0.51	16.06	23.40	4.15	1.01	0.00	0.00	0.00	
15	0.00	0.00	0.69	3.52	0.51	18.86	21.13	3.80	1.01	0.00	0.00	0.00	
16	0.00	0.00	0.51	14.43	0.51	20.25	18.31	3.66	0.96	0.00	0.00	0.21	
17	0.00	0.00	0.30	8.90	0.56	18.72	16.96	3.31	0.91	0.00	0.09	0.30	
18	0.00	0.00	0.26	8.40	0.51	14.78	19.00	3.31	0.91	0.00	0.30	0.26	
19	0.00	0.00	0.30	4.22	0.38	14.78	18.44	3.17	0.85	0.00	0.64	0.64	
20	0.00	0.00	0.21	3.38	0.26	8.70	10.22	3.10	0.75	0.00	1.06	0.43	
21	0.00	0.00	0.17	5.62	0.17	7.70	6.30	2.96	0.69	0.00	0.85	0.26	
22	0.00	0.00	0.17	4.98	0.09	7.70	11.97	2.82	0.64	0.00	0.47	0.21	
23	0.17	0.00	0.13	6.60	0.09	9.30	21.86	2.61	0.60	0.04	0.38	0.26	
24	0.09	0.00	0.13	8.20	0.17	16.32	31.23	2.54	0.56	0.04	0.34	0.64	
25	0.00	0.00	0.21	7.30	0.96	26.83	28.14	2.47	0.56	0.09	0.30	1.44	
26	0.00	0.00	0.13	14.91	3.24	41.48	14.55	2.33	0.51	0.21	0.26	0.85	
27	0.00	0.00	0.13	23.76	5.54	41.81	7.10	2.26	0.51	0.26	0.21	0.56	
28	0.00	0.00	0.09	17.62	14.91	28.33	5.38	2.19	0.47	0.26	0.21	0.56	
29	0.26	0.00	0.04	9.90	13.38	19.55	4.82	2.12	0.47	0.21		0.51	
30	0.85	0.00	0.00	7.70	14.78	19.55	4.29	2.05	0.43	0.21		0.43	
31		0.00		5.22	12.91		3.24		0.43	0.17		0.38	
<b>Total</b>	1.37	2.05	22.45	168.57	102.40	516.25	433.25	132.83	31.16	4.10	5.37	8.07	1427.87 CMSDAY
<b>Mean</b>	0.05	0.07	0.75	5.44	3.30	17.21	13.98	4.43	1.01	0.13	0.19	0.26	3.91 CMS
<b>Max</b>	0.85	0.60	3.45	23.76	14.91	41.81	31.23	8.00	1.98	0.38	1.06	1.44	41.81 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.09	4.43	3.24	2.05	0.43	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.12	0.18	1.94	14.56	8.85	44.60	37.43	11.48	2.69	0.35	0.46	0.70	123.37 MCM
<b>Momentary Peak</b>	44.12 CMS. at 194.64 m. (MSL.) at 12.00 Hours , on Sep 27, 2021												
<b>Runoff Yield</b>	11.18 Liters/Second/Square KM.			Momentary Peak Yield				126.06 Liters/Second/Square KM.					

## WATER YEAR : 2021

## NAN RIVER BASIN

Nan River at Ban Pha Khwang , Nan (N.64)

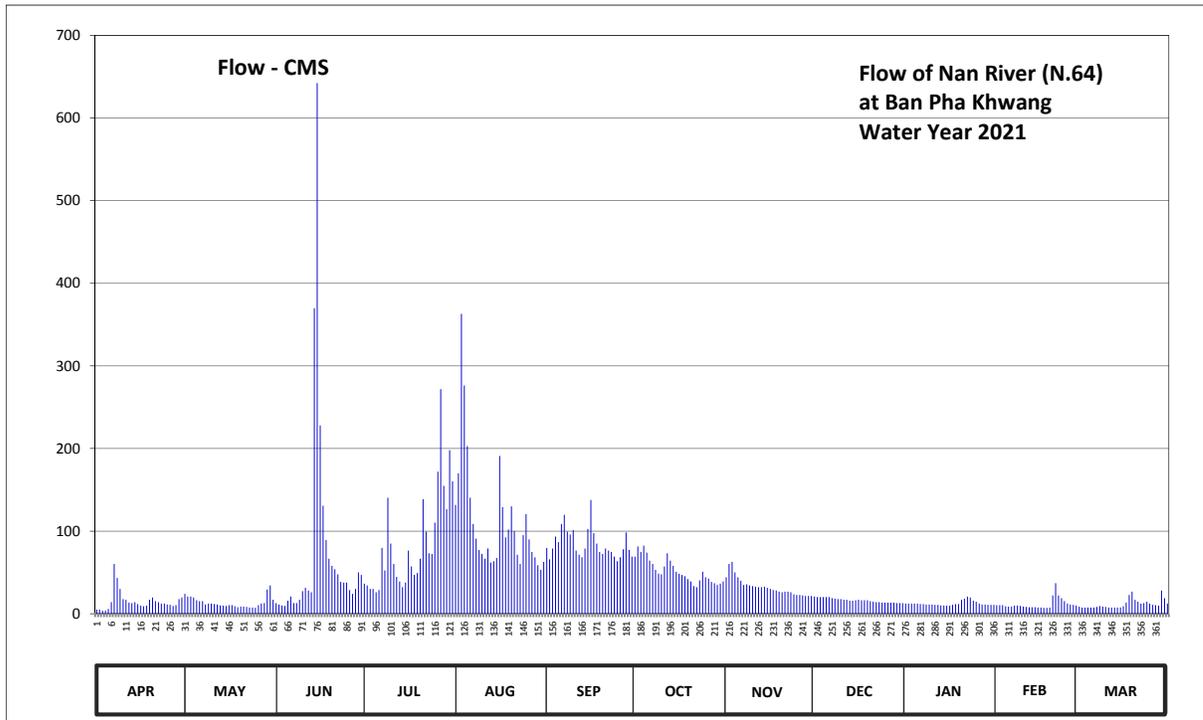
Lat 19 - 00 - 55 N Long 100 - 46 - 49 E

Location : on right bank at the bridge on highway from Tambon Bo.

	Ban Pha Khwang	Amphoe Mueang	Changwat Nan
<b>Drainage Area</b>	3,482 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+210.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Temporary.		
<b>Location BM</b>	On right bank at the approach of the bridge.	<b>Elevation</b>	+223.555 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	211.43	211.81	211.63	211.99	213.16	212.55	212.42	212.10	211.76	211.62	211.58	211.53	
2	211.43	211.76	211.60	211.96	213.59	212.38	212.57	212.31	211.75	211.62	211.58	211.50	
3	211.39	211.76	211.57	211.90	215.39	212.54	212.49	212.34	211.75	211.62	211.58	211.50	
4	211.40	211.74	211.55	211.90	214.63	212.71	212.58	212.18	211.75	211.62	211.54	211.50	
5	211.45	211.69	211.68	211.84	213.92	212.63	212.48	212.10	211.75	211.62	211.53	211.50	
6	211.65	211.67	211.76	211.88	213.26	212.89	212.36	212.04	211.75	211.61	211.53	211.50	
7	212.31	211.67	211.63	212.55	212.89	213.02	212.31	211.97	211.73	211.61	211.56	211.52	
8	212.09	211.60	211.63	212.21	212.68	212.78	212.22	211.98	211.72	211.60	211.57	211.55	
9	211.90	211.62	211.70	213.26	212.52	212.74	212.16	211.96	211.71	211.60	211.55	211.53	
10	211.71	211.62	211.86	212.61	212.46	212.80	212.15	211.95	211.71	211.60	211.53	211.52	
11	211.70	211.61	211.92	212.31	212.39	212.51	212.27	211.94	211.70	211.59	211.52	211.50	
12	211.64	211.60	211.87	212.11	212.54	212.45	212.47	211.93	211.70	211.59	211.51	211.50	
13	211.63	211.57	211.84	212.03	212.33	212.41	212.36	211.93	211.68	211.57	211.51	211.50	
14	211.65	211.56	215.45	211.93	212.35	212.54	212.28	211.94	211.68	211.57	211.51	211.50	
15	211.61	211.55	217.61	212.01	212.40	212.82	212.19	211.92	211.69	211.56	211.50	211.50	
16	211.56	211.58	214.17	212.51	213.80	213.23	212.16	211.90	211.70	211.56	211.50	211.54	
17	211.54	211.58	213.15	212.27	213.13	212.76	212.14	211.88	211.69	211.59	211.49	211.64	
18	211.56	211.54	212.66	212.14	212.70	212.61	212.12	211.87	211.69	211.61	211.49	211.79	
19	211.70	211.51	212.39	212.17	212.81	212.49	212.07	211.85	211.69	211.61	211.50	211.85	
20	211.74	211.53	212.28	212.39	213.14	212.46	212.03	211.84	211.67	211.70	211.78	211.70	
21	211.67	211.53	212.23	213.24	212.79	212.54	211.95	211.85	211.66	211.72	212.00	211.66	
22	211.65	211.52	212.15	212.78	212.45	212.51	211.93	211.85	211.65	211.76	211.78	211.62	
23	211.62	211.50	212.02	212.47	212.31	212.49	212.05	211.84	211.65	211.74	211.73	211.63	
24	211.62	211.50	212.01	212.46	212.73	212.42	212.19	211.80	211.64	211.68	211.67	211.66	
25	211.60	211.49	212.01	212.91	213.03	212.35	212.10	211.79	211.64	211.66	211.62	211.62	
26	211.59	211.58	211.88	213.61	212.67	212.41	212.08	211.79	211.64	211.62	211.60	211.59	
27	211.55	211.62	211.81	214.59	212.49	212.53	212.02	211.78	211.64	211.60	211.59	211.58	
28	211.58	211.63	211.90	213.42	212.41	212.77	212.00	211.77	211.64	211.60	211.57	211.56	
29	211.71	211.89	212.18	213.10	212.29	212.52	211.97	211.77	211.63	211.59		211.87	
30	211.74	211.96	212.14	213.87	212.22	212.42	211.99	211.77	211.63	211.59		211.73	
31		211.70		213.48	212.34		212.03		211.63	211.59		211.62	
Mean	211.65	211.63	212.34	212.58	212.90	212.61	212.20	211.93	211.69	211.62	211.59	211.59	
Max	212.31	211.96	217.61	214.59	215.39	213.23	212.58	212.34	211.76	211.76	212.00	211.87	217.61
Min	211.39	211.49	211.55	211.84	212.22	212.35	211.93	211.77	211.63	211.56	211.49	211.50	211.39
Annual Max Momentary Gage Height	218.50		m. (MSL.) ,				at 08.00 Hours ,						on Jun 15, 2021
Zero Gage at Bottom Elevation	210.90		m. (MSL.) ,				River Bed	210.78		m. (MSL.)			
Left Bank Elevation		226.43		m. (MSL.) ,									
Right Bank Elevation		224.09		m. (MSL.) ,			Drainage Are	3,482		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.98	24.06	12.94	36.30	131.60	79.75	69.10	44.00	20.84	12.36	10.46	8.61		
2	4.98	20.84	11.20	34.20	170.10	65.90	81.45	60.30	20.20	12.36	10.46	7.50		
3	3.69	20.84	10.09	30.00	362.85	78.90	74.70	62.70	20.20	12.36	10.46	7.50		
4	3.90	19.56	9.35	30.00	276.30	93.35	82.30	50.00	20.20	12.36	8.98	7.50		
5	5.70	16.42	15.84	26.04	203.00	86.55	73.90	44.00	20.20	12.36	8.61	7.50		
6	14.10	15.26	20.84	28.68	140.40	108.65	64.30	39.80	20.20	11.78	8.61	7.50		
7	60.30	15.26	12.94	79.75	108.65	119.70	60.30	34.90	18.92	11.78	9.72	8.24		
8	43.30	11.20	12.94	52.30	90.80	99.30	53.10	35.60	18.28	11.20	10.09	9.35		
9	30.00	12.36	17.00	140.40	77.20	95.90	48.50	34.20	17.64	11.20	9.35	8.61		
10	17.64	12.36	27.36	84.85	72.30	101.00	47.75	33.50	17.64	11.20	8.61	8.24		
11	17.00	11.78	31.40	60.30	66.70	76.35	57.10	32.80	17.00	10.83	8.24	7.50		
12	13.52	11.20	28.02	44.75	78.90	71.50	73.10	32.10	17.00	10.83	7.87	7.50		
13	12.94	10.09	26.04	39.10	61.90	68.30	64.30	32.10	15.84	10.09	7.87	7.50		
14	14.10	9.72	369.75	32.10	63.50	78.90	57.90	32.80	15.84	10.09	7.87	7.50		
15	11.78	9.35	642.35	37.70	67.50	102.70	50.75	31.40	16.42	9.72	7.50	7.50		
16	9.72	10.46	228.00	76.35	191.00	137.70	48.50	30.00	17.00	9.72	7.50	8.98		
17	8.98	10.46	130.75	57.10	129.05	97.60	47.00	28.68	16.42	10.83	7.14	13.52		
18	9.72	8.98	89.10	47.00	92.50	84.85	45.50	28.02	16.42	11.78	7.14	22.76		
19	17.00	7.87	66.70	49.25	101.85	74.70	41.90	26.70	16.42	11.78	7.50	26.70		
20	19.56	8.61	57.90	66.70	129.90	72.30	39.10	26.04	15.26	17.00	22.12	17.00		
21	15.26	8.61	53.90	138.60	100.15	78.90	33.50	26.70	14.68	18.28	37.00	14.68		
22	14.10	8.24	47.75	99.30	71.50	76.35	32.10	26.70	14.10	20.84	22.12	12.36		
23	12.36	7.50	38.40	73.10	60.30	74.70	40.50	26.04	14.10	19.56	18.92	12.94		
24	12.36	7.50	37.70	72.30	95.05	69.10	50.75	23.40	13.52	15.84	15.26	14.68		
25	11.20	7.14	37.70	110.35	120.55	63.50	44.00	22.76	13.52	14.68	12.36	12.36		
26	10.83	10.46	28.68	172.00	89.95	68.30	42.60	22.76	13.52	12.36	11.20	10.83		
27	9.35	12.36	24.06	271.95	74.70	78.05	38.40	22.12	13.52	11.20	10.83	10.46		
28	10.46	12.94	30.00	154.80	68.30	98.45	37.00	21.48	13.52	11.20	10.09	9.72		
29	17.64	29.34	50.00	126.50	58.70	77.20	34.90	21.48	12.94	10.83		28.02		
30	19.56	34.20	47.00	198.00	53.10	69.10	36.30	21.48	12.94	10.83		18.92		
31		17.00		160.20	62.70		39.10		12.94	10.83		12.36		
Total	456.03	421.97	2215.70	2629.97	3471.00	2547.55	1609.70	974.56	507.24	388.08	323.88	364.34	15910.02	CMSDAY
Mean	15.20	13.61	73.86	84.84	111.97	84.92	51.93	32.49	16.36	12.52	11.57	11.75	43.59	CMS
Max	60.30	34.20	642.35	271.95	362.85	137.70	82.30	62.70	20.84	20.84	37.00	28.02	642.35	CMS
Min	3.69	7.14	9.35	26.04	53.10	63.50	32.10	21.48	12.94	9.72	7.14	7.50	3.69	CMS
Runoff	39.40	36.46	191.44	227.23	299.89	220.11	139.08	84.20	43.83	33.53	27.98	31.48	1374.63	MCM
Momentary Peak		762.50	CMS.	at 218.50 m. (MSL.)	at 08.00 Hours ,	on Jun 15, 2021								
Runoff Yield		12.52	Liters/Second/Square KM.		Momentary Peak Yield	218.98	Liters/Second/Square KM.							

## WATER YEAR : 2021

## NAN RIVER BASIN

Nam Yao at Ban Pang Sa , Nan (N.65)

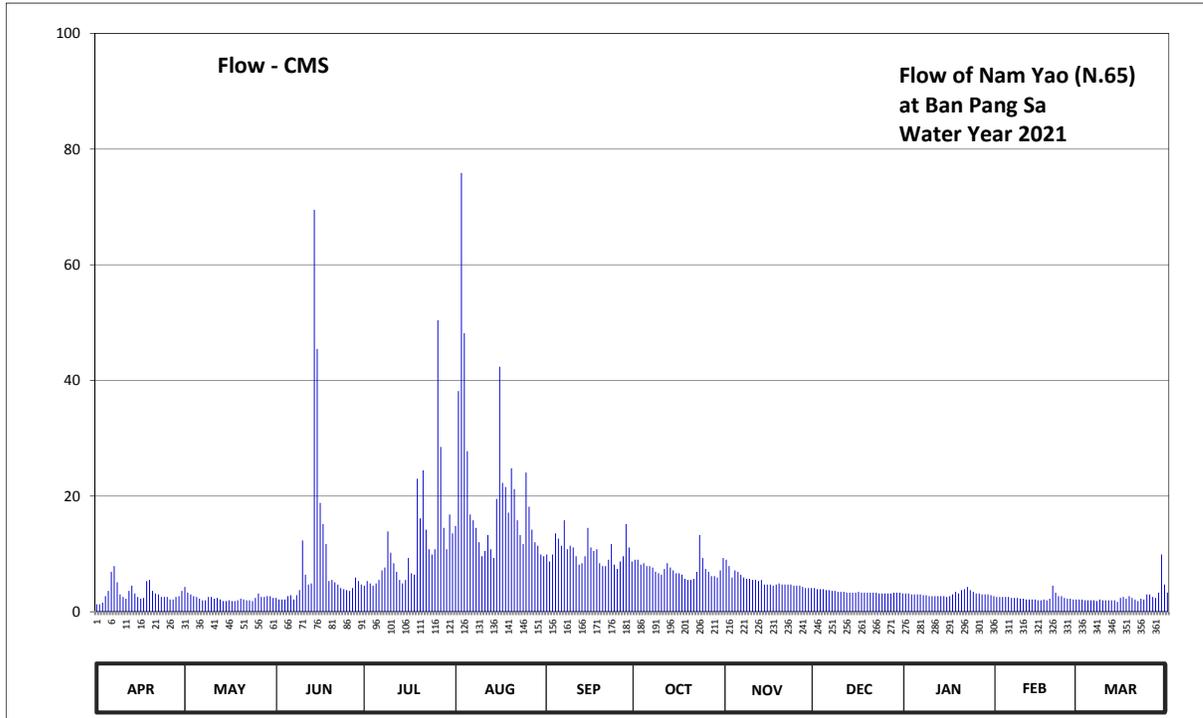
Lat 19 - 13 - 49 N Long 100 - 45 - 15 E

Location : on right bank at the bridge on highway.

	Ban Pang Sa	Amphoe	Tha Wang Pha	Changwat	Nan
<b>Drainage Area</b>	620 sq.km.				
<b>Type of Gage</b>	Water - stage recorder.				
<b>Zero Gage at Bottom</b>	+248.891 m. (MSL.)				
<b>Bench Mark</b>	B.M.- H.D.				
<b>Location BM</b>	On right bank about 20 meters from the top staff gage.			<b>Elevation</b>	+257.381 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1996 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1996 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	1996 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.32	249.52	249.40	249.53	249.91	249.75	249.72	249.72	249.51	249.45	249.41	249.38	
2	249.32	249.46	249.38	249.57	250.54	249.71	249.72	249.68	249.50	249.45	249.41	249.38	
3	249.34	249.44	249.38	249.55	251.35	249.75	249.69	249.60	249.50	249.44	249.41	249.37	
4	249.42	249.42	249.38	249.53	250.77	249.87	249.70	249.65	249.50	249.44	249.41	249.37	
5	249.48	249.41	249.42	249.55	250.28	249.84	249.68	249.64	249.49	249.44	249.41	249.37	
6	249.64	249.39	249.43	249.58	249.97	249.80	249.68	249.62	249.49	249.44	249.40	249.37	
7	249.68	249.37	249.38	249.65	249.94	249.94	249.67	249.60	249.48	249.43	249.40	249.36	
8	249.56	249.37	249.43	249.67	249.90	249.78	249.64	249.59	249.48	249.43	249.40	249.38	
9	249.44	249.41	249.49	249.88	249.82	249.80	249.63	249.59	249.47	249.42	249.39	249.37	
10	249.41	249.41	249.83	249.76	249.74	249.79	249.62	249.58	249.47	249.42	249.39	249.37	
11	249.39	249.39	249.62	249.70	249.77	249.74	249.66	249.58	249.47	249.42	249.38	249.37	
12	249.48	249.40	249.54	249.64	249.86	249.69	249.70	249.57	249.46	249.42	249.38	249.37	
13	249.53	249.38	249.55	249.58	249.78	249.70	249.67	249.58	249.46	249.42	249.38	249.37	
14	249.45	249.36	251.22	249.55	249.73	249.74	249.65	249.54	249.46	249.42	249.38	249.35	
15	249.41	249.36	250.71	249.58	250.05	249.90	249.63	249.54	249.46	249.41	249.37	249.40	
16	249.39	249.37	250.03	249.73	250.64	249.79	249.63	249.54	249.47	249.42	249.37	249.41	
17	249.40	249.36	249.92	249.63	250.13	249.77	249.62	249.53	249.46	249.44	249.38	249.39	
18	249.57	249.36	249.81	249.62	250.11	249.78	249.59	249.54	249.46	249.47	249.37	249.42	
19	249.58	249.37	249.57	250.15	249.98	249.70	249.58	249.55	249.46	249.45	249.39	249.40	
20	249.48	249.39	249.58	249.95	250.20	249.68	249.58	249.54	249.46	249.49	249.53	249.38	
21	249.45	249.38	249.56	250.19	250.10	249.68	249.59	249.54	249.46	249.50	249.46	249.36	
22	249.44	249.37	249.54	249.89	249.94	249.72	249.64	249.54	249.46	249.52	249.42	249.39	
23	249.41	249.37	249.51	249.78	249.86	249.81	249.86	249.54	249.45	249.49	249.42	249.38	
24	249.41	249.36	249.50	249.75	249.81	249.69	249.73	249.53	249.45	249.47	249.40	249.44	
25	249.41	249.40	249.49	249.78	250.18	249.66	249.66	249.53	249.45	249.45	249.39	249.44	
26	249.38	249.45	249.48	250.82	250.01	249.71	249.64	249.53	249.45	249.45	249.39	249.41	
27	249.38	249.41	249.51	250.30	249.89	249.74	249.61	249.52	249.45	249.44	249.38	249.40	
28	249.41	249.41	249.60	249.90	249.82	249.92	249.61	249.51	249.46	249.44	249.38	249.46	
29	249.42	249.42	249.57	249.78	249.80	249.79	249.60	249.51	249.46	249.44		249.75	
30	249.48	249.42	249.54	249.97	249.75	249.71	249.65	249.51	249.46	249.43		249.54	
31		249.40		249.87	249.74		249.73		249.45	249.42		249.46	
Mean	249.45	249.40	249.65	249.79	250.04	249.77	249.66	249.57	249.47	249.44	249.40	249.41	
Max	249.68	249.52	251.22	250.82	251.35	249.94	249.86	249.72	249.51	249.52	249.53	249.75	251.35
Min	249.32	249.36	249.38	249.53	249.73	249.66	249.58	249.51	249.45	249.41	249.37	249.35	249.32
Annual Max Momentary Gage Height	252.31		m. (MSL.) ,			at 21.00 Hours ,							
Zero Gage at Bottom Elevation	248.89		m. (MSL.) ,			River Bed	248.98	m. (MSL.)					
Left Bank Elevation	256.71		m. (MSL.) ,										
Right Bank Elevation	256.75		m. (MSL.) ,			Drainage Are	620	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.28	4.30	2.40	4.50	14.83	9.90	9.00	9.00	4.10	3.15	2.55	2.12	
2	1.28	3.30	2.12	5.30	38.14	8.70	9.00	7.90	3.90	3.15	2.55	2.12	
3	1.56	3.00	2.12	4.90	75.85	9.90	8.15	5.90	3.90	3.00	2.55	1.98	
4	2.70	2.70	2.12	4.50	48.15	13.57	8.40	7.15	3.90	3.00	2.55	1.98	
5	3.60	2.55	2.70	4.90	27.76	12.64	7.90	6.90	3.75	3.00	2.55	1.98	
6	6.90	2.26	2.85	5.50	16.81	11.40	7.90	6.40	3.75	3.00	2.40	1.98	
7	7.90	1.98	2.12	7.15	15.82	15.82	7.65	5.90	3.60	2.85	2.40	1.84	
8	5.10	1.98	2.85	7.65	14.50	10.80	6.90	5.70	3.60	2.85	2.40	2.12	
9	3.00	2.55	3.75	13.88	12.02	11.40	6.65	5.70	3.45	2.70	2.26	1.98	
10	2.55	2.55	12.33	10.20	9.60	11.10	6.40	5.50	3.45	2.70	2.26	1.98	
11	2.26	2.26	6.40	8.40	10.50	9.60	7.40	5.50	3.45	2.70	2.12	1.98	
12	3.60	2.40	4.70	6.90	13.26	8.15	8.40	5.30	3.30	2.70	2.12	1.98	
13	4.50	2.12	4.90	5.50	10.80	8.40	7.65	5.50	3.30	2.70	2.12	1.98	
14	3.15	1.84	69.48	4.90	9.30	9.60	7.15	4.70	3.30	2.70	2.12	1.70	
15	2.55	1.84	45.45	5.50	19.50	14.50	6.65	4.70	3.30	2.55	1.98	2.40	
16	2.26	1.98	18.82	9.30	42.36	11.10	6.65	4.70	3.45	2.70	1.98	2.55	
17	2.40	1.84	15.16	6.65	22.28	10.50	6.40	4.50	3.30	3.00	2.12	2.26	
18	5.30	1.84	11.71	6.40	21.56	10.80	5.70	4.70	3.30	3.45	1.98	2.70	
19	5.50	1.98	5.30	23.00	17.14	8.40	5.50	4.90	3.30	3.15	2.26	2.40	
20	3.60	2.26	5.50	16.15	24.80	7.90	5.50	4.70	3.30	3.75	4.50	2.12	
21	3.15	2.12	5.10	24.44	21.20	7.90	5.70	4.70	3.30	3.90	3.30	1.84	
22	3.00	1.98	4.70	14.19	15.82	9.00	6.90	4.70	3.30	4.30	2.70	2.26	
23	2.55	1.98	4.10	10.80	13.26	11.71	13.26	4.70	3.15	3.75	2.70	2.12	
24	2.55	1.84	3.90	9.90	11.71	8.15	9.30	4.50	3.15	3.45	2.40	3.00	
25	2.55	2.40	3.75	10.80	24.08	7.40	7.40	4.50	3.15	3.15	2.26	3.00	
26	2.12	3.15	3.60	50.40	18.14	8.70	6.90	4.50	3.15	3.15	2.26	2.55	
27	2.12	2.55	4.10	28.50	14.19	9.60	6.15	4.30	3.15	3.00	2.12	2.40	
28	2.55	2.55	5.90	14.50	12.02	15.16	6.15	4.10	3.30	3.00	2.12	3.30	
29	2.70	2.70	5.30	10.80	11.40	11.10	5.90	4.10	3.30	3.00		9.90	
30	3.60	2.70	4.70	16.81	9.90	8.70	7.15	4.10	3.30	2.85		4.70	
31		2.40		13.57	9.60		9.30		3.15	2.70		3.30	
Total	97.88	73.90	267.93	365.89	626.30	311.60	229.06	159.45	106.10	95.05	67.63	80.52	2481.31 CMSDAY
Mean	3.26	2.38	8.93	11.80	20.20	10.39	7.39	5.32	3.42	3.07	2.42	2.60	6.80 CMS
Max	7.90	4.30	69.48	50.40	75.85	15.82	13.26	9.00	4.10	4.30	4.50	9.90	75.85 CMS
Min	1.28	1.84	2.12	4.50	9.30	7.40	5.50	4.10	3.15	2.55	1.98	1.70	1.28 CMS
Runoff	8.46	6.38	23.15	31.61	54.11	26.92	19.79	13.78	9.17	8.21	5.84	6.96	214.39 MCM
Momentary Peak		126.66 CMS.		at 252.31 m. (MSL.)		at 21.00 Hours ,		on Jun 14, 2021					
Runoff Yield		10.96		Liters/Second/Square KM.		Momentary Peak Yield	204.29		Liters/Second/Square KM.				

## WATER YEAR : 2021

## NAN RIVER BASIN

## Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)

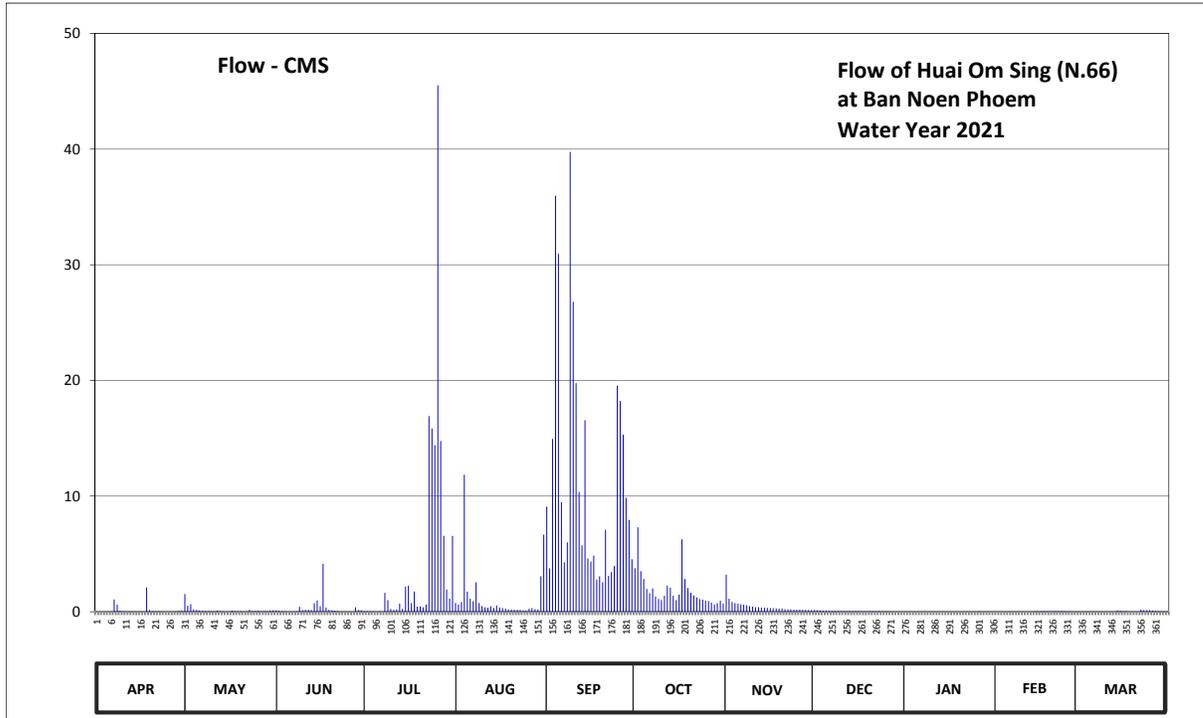
Lat 17 - 07 - 25 N Long 100 - 53 - 40 E

Location : on right bank at Ban Om Sing.

	<b>Ban</b>	Noen Phoem	<b>Amphoe</b>	Nakhon Thai	<b>Changwat</b>	Phitsanulok	
<b>Drainage Area</b>	152	sq.km.					
<b>Type of Gage</b>	Staff gage						
<b>Zero Gage at Bottom</b>	+201.220 m. (MSL.)						
<b>Bench Mark</b>	B.M.- H.D.						
<b>Location BM</b>	On right bank about 8 meters from the top staff gage.					<b>Elevation</b>	+208.617 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.						
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings						
<b>Period of Available Gage Records</b>	1995 to date						
<b>Rating Operation</b>							
<b>Period of Rating</b>	1996 to date						
<b>Rated by Float</b>	-						
<b>Rated by Current Meter</b>	1996 to date						
<b>Stability of Channel Regimes</b>	Stable.						
<b>Overbank Flow Conditions</b>	No overbank flow.						
<b>General Description</b>	Records good. Stage-discharge relation defined by 9 discharge measurements made in 2021.						

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	202.70	203.92	203.07	202.96	203.58	205.05	204.47	204.38	203.12	202.75	202.72	202.82	
2	202.71	203.46	203.03	202.95	203.51	204.47	204.89	203.76	203.10	202.75	202.72	202.82	
3	202.71	203.53	202.95	202.93	203.62	205.43	204.43	203.62	203.07	202.74	202.72	202.82	
4	202.71	203.20	202.86	202.92	205.25	206.31	204.30	203.58	203.05	202.74	202.72	202.82	
5	202.71	203.14	202.75	202.81	204.00	206.14	204.07	203.55	203.04	202.74	202.72	202.81	
6	202.71	203.07	202.71	202.86	203.76	205.08	203.94	203.52	203.04	202.73	202.72	202.81	
7	203.73	203.02	202.71	202.79	203.65	204.55	204.09	203.50	203.01	202.73	202.72	202.81	
8	203.51	203.00	202.88	203.96	204.24	204.76	203.84	203.48	203.01	202.73	202.72	202.81	
9	203.04	202.98	203.41	203.70	203.58	206.43	203.75	203.45	203.01	202.73	202.72	202.81	
10	202.92	202.92	203.12	203.24	203.45	205.98	203.71	203.42	202.97	202.72	202.72	202.81	
11	202.87	202.89	203.14	203.14	203.39	205.68	203.86	203.40	202.97	202.72	202.72	202.81	
12	202.84	203.06	203.16	203.21	203.34	205.15	204.17	203.38	202.98	202.72	202.72	202.81	
13	202.82	202.98	203.12	203.55	203.44	204.73	204.11	203.36	202.99	202.72	202.72	202.81	
14	202.81	202.85	203.57	203.25	203.33	205.52	203.86	203.34	202.99	202.72	202.91	203.07	
15	202.80	202.79	203.69	204.14	203.47	204.60	203.70	203.33	202.99	202.71	202.91	203.02	
16	202.79	202.78	203.44	204.17	203.37	204.56	203.90	203.32	202.94	202.71	202.95	202.95	
17	202.78	203.03	204.53	203.57	203.31	204.63	204.79	203.30	202.92	202.71	202.93	202.96	
18	204.12	202.97	203.37	204.00	203.27	204.29	204.30	203.29	202.92	202.71	202.95	202.81	
19	203.12	202.92	203.15	203.42	203.21	204.35	204.10	203.28	202.92	202.71	202.90	202.81	
20	202.95	202.90	203.10	203.43	203.20	204.24	203.96	203.27	203.00	202.71	202.96	202.81	
21	202.90	202.82	203.04	203.38	203.18	204.87	203.88	203.22	202.98	202.71	202.99	202.81	
22	202.85	202.84	202.96	203.51	203.17	204.36	203.81	203.20	202.97	202.71	202.97	203.14	
23	202.82	203.14	202.80	205.54	203.15	204.42	203.75	203.20	202.95	202.71	202.99	203.10	
24	202.78	202.99	202.73	205.48	203.07	204.50	203.72	203.19	202.92	202.75	202.93	203.10	
25	202.78	203.00	202.72	205.40	203.08	205.67	203.68	203.19	202.87	202.79	202.87	203.09	
26	202.78	203.04	202.70	206.61	203.26	205.61	203.66	203.18	202.85	202.92	202.85	203.06	
27	202.78	202.91	202.71	205.42	203.32	205.45	203.59	203.16	202.83	202.80	202.83	203.01	
28	202.85	203.01	203.39	204.82	203.23	205.11	203.51	203.14	202.79	202.76	202.82	202.96	
29	203.01	202.98	203.12	204.06	203.19	204.95	203.57	203.12	202.76	202.72	202.72	202.91	
30	203.06	203.08	203.09	203.77	203.35	204.59	203.68	203.10	202.76	202.72	202.72	202.87	
31		203.07		204.82	204.83		203.55		202.76	202.72		202.85	
Mean	202.93	203.04	203.10	203.86	203.54	205.05	203.96	203.37	202.95	202.74	202.83	202.90	
Max	204.12	203.92	204.53	206.61	205.25	206.43	204.89	204.38	203.12	202.92	202.99	203.14	206.61
Min	202.70	202.78	202.70	202.79	203.07	204.24	203.51	203.10	202.76	202.71	202.72	202.81	202.70
Annual Max Momentary Gage Height	206.67		m. (MSL.) ,			at 12.00 Hours ,		on Jul 26, 2021					
Zero Gage at Bottom Elevation	201.22		m. (MSL.) ,			River Bed	202.27	m. (MSL.)					
Left Bank Elevation		208.50		m. (MSL.) ,									
Right Bank Elevation		208.45		m. (MSL.) ,		Drainage Are	152	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.53	0.12	0.06	0.76	9.09	3.76	3.21	0.15	0.00	0.00	0.01	
2	0.00	0.52	0.09	0.05	0.62	3.76	7.30	1.12	0.14	0.00	0.00	0.01	
3	0.00	0.66	0.05	0.05	0.84	14.94	3.50	0.84	0.12	0.00	0.00	0.01	
4	0.00	0.20	0.02	0.04	11.85	35.97	2.83	0.76	0.10	0.00	0.00	0.01	
5	0.00	0.16	0.00	0.00	1.75	30.94	1.96	0.70	0.10	0.00	0.00	0.00	
6	0.00	0.12	0.00	0.02	1.12	9.47	1.59	0.64	0.10	0.00	0.00	0.00	
7	1.06	0.08	0.00	0.00	0.90	4.28	2.02	0.60	0.08	0.00	0.00	0.00	
8	0.62	0.07	0.03	1.64	2.54	6.00	1.31	0.56	0.08	0.00	0.00	0.00	
9	0.10	0.06	0.42	1.00	0.76	39.75	1.10	0.50	0.08	0.00	0.00	0.00	
10	0.04	0.04	0.15	0.24	0.50	26.81	1.02	0.44	0.06	0.00	0.00	0.00	
11	0.03	0.03	0.16	0.16	0.39	19.76	1.37	0.40	0.06	0.00	0.00	0.00	
12	0.01	0.11	0.17	0.21	0.34	10.36	2.26	0.38	0.06	0.00	0.00	0.00	
13	0.01	0.06	0.15	0.70	0.48	5.74	2.08	0.36	0.07	0.00	0.00	0.00	
14	0.00	0.02	0.74	0.25	0.33	16.56	1.37	0.34	0.07	0.00	0.04	0.12	
15	0.00	0.00	0.98	2.17	0.54	4.60	1.00	0.33	0.07	0.00	0.04	0.08	
16	0.00	0.00	0.48	2.26	0.37	4.34	1.48	0.32	0.05	0.00	0.05	0.05	
17	0.00	0.09	4.15	0.74	0.31	4.86	6.26	0.30	0.04	0.00	0.05	0.06	
18	2.11	0.06	0.37	1.75	0.27	2.78	2.83	0.29	0.04	0.00	0.05	0.00	
19	0.15	0.04	0.17	0.44	0.21	3.06	2.05	0.28	0.04	0.00	0.04	0.00	
20	0.05	0.04	0.14	0.46	0.20	2.54	1.64	0.27	0.07	0.00	0.06	0.00	
21	0.04	0.01	0.10	0.38	0.19	7.09	1.42	0.22	0.06	0.00	0.07	0.00	
22	0.02	0.01	0.06	0.62	0.18	3.11	1.23	0.20	0.06	0.00	0.06	0.16	
23	0.01	0.16	0.00	16.92	0.17	3.43	1.10	0.20	0.05	0.00	0.07	0.14	
24	0.00	0.07	0.00	15.84	0.12	3.95	1.04	0.19	0.04	0.00	0.05	0.14	
25	0.00	0.07	0.00	14.40	0.12	19.54	0.96	0.19	0.03	0.00	0.03	0.13	
26	0.00	0.10	0.00	45.51	0.26	18.22	0.92	0.19	0.02	0.04	0.02	0.11	
27	0.00	0.04	0.00	14.76	0.32	15.30	0.78	0.17	0.01	0.00	0.01	0.08	
28	0.02	0.08	0.39	6.56	0.23	9.85	0.62	0.16	0.00	0.00	0.01	0.06	
29	0.08	0.06	0.15	1.93	0.19	7.93	0.74	0.15	0.00	0.00	0.00	0.04	
30	0.11	0.12	0.13	1.14	3.06	4.54	0.96	0.14	0.00	0.00	0.00	0.03	
31		0.12		6.56	6.67		0.70		0.00	0.00		0.02	
<b>Total</b>	4.46	4.73	9.22	136.86	36.59	348.57	59.20	14.45	1.85	0.04	0.65	1.26	617.88 CMSDAY
<b>Mean</b>	0.15	0.15	0.31	4.41	1.18	11.62	1.91	0.48	0.06	0.00	0.02	0.04	1.69 CMS
<b>Max</b>	2.11	1.53	4.15	45.51	11.85	39.75	7.30	3.21	0.15	0.04	0.07	0.16	45.51 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.12	2.54	0.62	0.14	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.39	0.41	0.80	11.82	3.16	30.12	5.11	1.25	0.16	0.00	0.06	0.11	53.38 MCM
<b>Momentary Peak</b>	47.97	CMS.	at 206.67 m. (MSL).	at 12.00 Hours	on Jul 26, 2021								
<b>Runoff Yield</b>	11.14	Liters/Second/Square KM.		Momentary Peak Yield	315.59	Liters/Second/Square KM.							

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Ban Koei Chai, Nakhon Sawan (N.67)

Lat 15 - 52 - 08 N Long 100 - 15 - 52 E

Location : on right bank at the bridge near Wat Koei Chai Nua

	<b>Ban</b> Koei Chai	<b>Amphoe</b> Chum Saeng	<b>Changwat</b> Nakhon Sawan
<b>Drainage Area</b>	57,007 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage observe's house	<b>Elevation</b>	+27.470 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Mae Yom side flow. Stage-discharge relation defined by 53 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.59	18.76	18.57	19.77	19.93	20.76	27.11	26.70	20.77	18.50	18.16	18.41	
2	18.55	18.88	18.59	19.94	19.61	21.03	27.16	26.70	20.53	18.54	18.23	18.34	
3	18.52	18.91	18.53	20.11	19.43	21.27	27.18	26.73	20.37	18.52	18.22	18.30	
4	18.67	18.92	18.53	20.23	19.24	21.52	27.21	26.71	20.15	18.48	18.14	18.26	
5	18.80	18.97	18.62	20.25	19.10	21.78	27.21	26.68	19.90	18.44	18.14	18.24	
6	18.91	18.78	18.61	20.40	18.99	21.97	27.19	26.61	19.62	18.35	18.27	18.24	
7	19.02	18.69	18.62	20.54	18.91	22.01	27.16	26.48	19.37	18.30	18.29	18.32	
8	19.19	18.61	18.58	20.46	18.83	21.80	27.09	26.36	19.35	18.29	18.34	18.38	
9	19.43	18.47	18.59	20.25	19.09	21.58	27.00	26.19	19.38	18.33	18.30	18.38	
10	19.46	18.34	18.63	20.09	19.29	21.83	26.85	25.99	19.27	18.44	18.22	18.36	
11	19.46	18.36	18.72	19.95	19.30	22.56	26.71	25.70	19.12	18.51	18.27	18.33	
12	19.52	18.47	18.85	19.76	19.18	23.87	26.63	25.40	19.03	18.44	18.34	18.29	
13	19.56	18.40	18.99	19.63	19.00	24.92	26.61	25.13	19.04	18.35	18.31	18.27	
14	19.47	18.32	19.07	19.69	18.72	25.30	26.67	24.79	19.05	18.32	18.30	18.25	
15	19.19	18.28	19.04	19.76	18.66	25.28	26.71	24.47	18.98	18.31	18.34	18.18	
16	19.00	18.12	18.93	19.66	18.72	25.08	26.73	24.19	18.86	18.32	18.35	18.16	
17	18.89	18.03	18.83	19.51	18.90	24.89	26.75	23.91	18.76	18.25	18.39	18.10	
18	18.91	18.24	18.91	19.39	19.08	24.91	26.80	23.64	18.65	18.20	18.59	18.22	
19	19.09	18.44	19.06	19.39	19.14	25.11	26.97	23.40	18.58	18.18	18.74	18.28	
20	19.30	18.54	19.28	19.43	19.21	25.28	27.06	23.18	18.53	18.24	18.67	18.38	
21	19.33	18.63	19.35	19.31	19.40	25.42	27.11	22.93	18.53	18.33	18.59	18.50	
22	19.24	18.63	19.35	19.19	19.61	25.57	27.08	22.65	18.49	18.36	18.61	18.59	
23	19.28	18.63	19.34	19.09	19.64	25.62	27.03	22.37	18.45	18.37	18.61	18.94	
24	19.01	18.77	19.19	18.95	19.55	25.74	27.02	22.22	18.40	18.43	18.56	19.04	
25	18.73	18.89	19.09	19.09	19.49	25.93	27.03	22.06	18.38	18.52	18.58	19.15	
26	18.56	18.89	18.93	19.54	19.38	26.32	27.05	21.76	18.35	18.44	18.57	19.11	
27	18.57	18.81	18.89	19.91	19.16	26.66	27.03	21.50	18.34	18.32	18.51	18.97	
28	18.62	18.89	18.94	20.35	19.05	26.87	26.96	21.39	18.34	18.30	18.45	18.77	
29	18.70	18.90	19.09	20.79	19.23	27.01	26.88	21.18	18.40	18.30		18.59	
30	18.72	18.74	19.41	20.85	19.69	27.07	26.78	20.98	18.47	18.27		18.46	
31		18.57		20.46	20.18		26.72		18.44	18.17		18.45	
Mean	19.01	18.61	18.90	19.86	19.25	24.17	26.95	24.27	19.03	18.36	18.40	18.46	
Max	19.56	18.97	19.41	20.85	20.18	27.07	27.21	26.73	20.77	18.54	18.74	19.15	27.21
Min	18.52	18.03	18.53	18.95	18.66	20.76	26.61	20.98	18.34	18.17	18.14	18.10	18.03
Annual Max Momentary Gage Height	27.22			m. (MSL.) ,									at 15.00 Hours , on Oct 4, 2021
Zero Gage at Bottom Elevation	0.00			m. (MSL.) ,		River Bed	12.30	m. (MSL.)					
Left Bank Elevation		28.92		m. (MSL.) ,									
Right Bank Elevation		28.21		m. (MSL.) ,		Drainage Are	57,007	Square Kilometers					



## WATER YEAR : 2021

## NAN RIVER BASIN

## Khlong Tron at Ban Wang Pla Kod , Uttaradit (N.72)

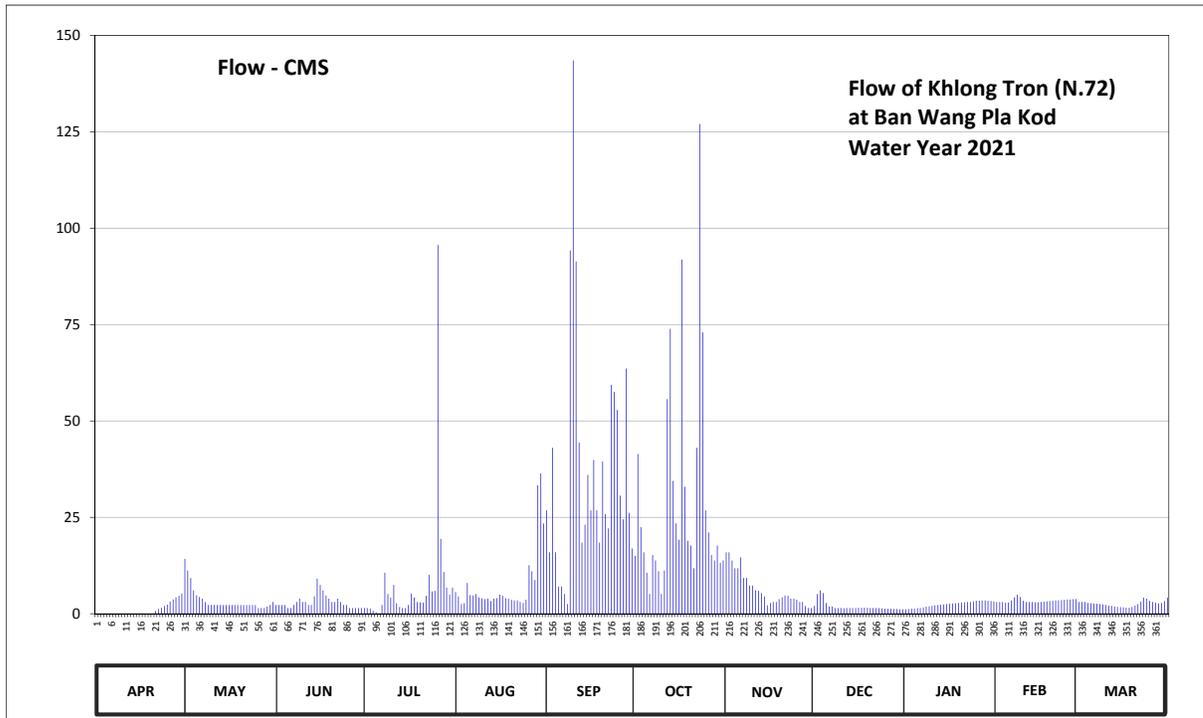
Lat 17 - 27 - 32 N Long 100 - 16 - 25 E

Location : on right bank at Ban Wang Pla Kod.

	Ban Wang Pla Kod	Amphoe	Thong Saen Khan	Changwat	Uttaradit
Drainage Area	980 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+60.891 m. (MSL.)				
Bench Mark	B.M.- H.D.				
Location BM	On right bank near the gage site.			Elevation	+69.454 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	2005 to date				
Rating Operation					
Period of Rating	2005 to date				
Rated by Flot	-				
Rated by Current Meter	2005 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 8 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	60.99	63.14	62.29	62.19	62.66	63.59	63.18	63.22	62.26	62.13	62.39	62.39	
2	61.04	62.99	62.29	62.19	62.56	63.22	63.97	63.22	62.62	62.14	62.39	62.39	
3	61.04	62.89	62.29	62.16	62.32	64.01	63.46	63.12	62.69	62.16	62.39	62.39	
4	61.10	62.69	62.29	62.06	62.35	63.22	63.22	63.02	62.64	62.16	62.37	62.36	
5	61.12	62.59	62.19	61.98	62.82	62.76	62.96	63.02	62.36	62.18	62.37	62.35	
6	61.19	62.54	62.19	61.89	62.60	62.76	62.62	63.16	62.24	62.19	62.44	62.34	
7	61.24	62.49	62.29	62.29	62.59	62.62	63.19	62.89	62.24	62.21	62.53	62.33	
8	61.28	62.39	62.39	62.96	62.62	62.32	63.12	62.89	62.19	62.24	62.61	62.32	
9	61.34	62.29	62.49	62.62	62.53	65.11	62.98	62.78	62.19	62.25	62.54	62.31	
10	61.39	62.29	62.39	62.52	62.50	66.12	62.62	62.78	62.19	62.26	62.43	62.29	
11	61.45	62.29	62.39	62.79	62.48	65.05	62.99	62.69	62.17	62.28	62.39	62.27	
12	61.50	62.29	62.29	62.35	62.49	64.04	64.29	62.68	62.19	62.29	62.39	62.26	
13	61.54	62.29	62.29	62.22	62.42	63.32	64.68	62.64	62.19	62.30	62.39	62.24	
14	61.59	62.29	62.56	62.19	62.49	63.48	63.79	62.56	62.19	62.31	62.38	62.23	
15	61.65	62.29	62.88	62.19	62.51	63.83	63.49	62.28	62.19	62.32	62.38	62.22	
16	61.70	62.29	62.79	62.29	62.61	63.59	63.35	62.36	62.20	62.33	62.39	62.21	
17	61.74	62.29	62.69	62.63	62.58	63.93	65.06	62.39	62.20	62.34	62.40	62.20	
18	61.80	62.29	62.59	62.53	62.51	63.59	63.75	62.39	62.20	62.35	62.41	62.20	
19	61.84	62.29	62.49	62.39	62.49	63.32	63.34	62.48	62.20	62.36	62.42	62.22	
20	61.90	62.29	62.39	62.38	62.46	63.92	63.29	62.53	62.19	62.37	62.43	62.27	
21	62.05	62.29	62.39	62.37	62.44	63.56	63.02	62.59	62.19	62.38	62.44	62.32	
22	62.14	62.29	62.49	62.58	62.44	63.45	64.01	62.58	62.19	62.39	62.44	62.40	
23	62.20	62.29	62.39	62.93	62.39	64.37	65.79	62.49	62.18	62.39	62.45	62.52	
24	62.26	62.29	62.29	62.67	62.36	64.33	64.66	62.49	62.17	62.41	62.46	62.49	
25	62.30	62.29	62.29	62.68	62.46	64.23	63.59	62.46	62.16	62.43	62.47	62.43	
26	62.40	62.19	62.19	65.14	63.06	63.69	63.42	62.39	62.15	62.43	62.47	62.39	
27	62.47	62.19	62.19	63.36	62.98	63.52	63.19	62.39	62.15	62.44	62.48	62.37	
28	62.53	62.19	62.19	62.97	62.86	64.46	63.12	62.26	62.14	62.44	62.48	62.34	
29	62.58	62.24	62.19	62.74	63.76	63.57	63.29	62.19	62.14	62.43		62.36	
30	62.63	62.29	62.19	62.61	63.84	63.26	63.09	62.19	62.13	62.42		62.42	
31		62.39		62.74	63.49		63.12		62.13	62.41		62.52	
Mean	61.73	62.39	62.38	62.57	62.67	63.74	63.54	62.64	62.23	62.31	62.43	62.33	
Max	62.63	63.14	62.88	65.14	63.84	66.12	65.79	63.22	62.69	62.44	62.61	62.52	66.12
Min	60.99	62.19	62.19	61.89	62.32	62.32	62.62	62.19	62.13	62.37	62.20	60.99	
Annual Max Momentary Gage Height	66.39		m. (MSL.) ,				at 06.00 Hours ,	on Sep 10, 2021					
Zero Gage at Bottom Elevation	60.89		m. (MSL.) ,			River Bed	61.10	m. (MSL.)					
Left Bank Elevation		69.75		m. (MSL.) ,									
Right Bank Elevation		69.26		m. (MSL.) ,		Drainage Are	980	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	14.22	2.27	1.50	5.65	26.81	15.03	15.93	2.03	1.17	3.06	3.06		
2	0.00	11.20	2.27	1.50	4.48	15.93	41.44	15.93	5.10	1.23	3.06	3.06		
3	0.00	9.30	2.27	1.33	2.50	43.05	22.45	13.81	6.07	1.33	3.06	3.06		
4	0.00	6.07	2.27	0.79	2.74	15.93	15.93	11.79	5.37	1.33	2.90	2.82		
5	0.00	4.74	1.50	0.38	7.97	7.04	10.63	11.79	2.82	1.44	2.90	2.74		
6	0.00	4.32	1.50	0.00	4.82	7.04	5.10	14.62	1.87	1.50	3.48	2.66		
7	0.00	3.90	2.27	2.27	4.74	5.10	15.23	9.30	1.87	1.63	4.23	2.58		
8	0.00	3.06	3.06	10.63	5.10	2.50	13.81	9.30	1.50	1.87	4.96	2.50		
9	0.00	2.27	3.90	5.10	4.23	94.22	11.01	7.31	1.50	1.95	4.32	2.43		
10	0.00	2.27	3.06	4.15	3.98	143.50	5.10	7.31	1.50	2.03	3.39	2.27		
11	0.00	2.27	3.06	7.45	3.81	91.36	11.20	6.07	1.39	2.19	3.06	2.11		
12	0.00	2.27	2.27	2.74	3.90	44.38	55.66	5.93	1.50	2.27	3.06	2.03		
13	0.00	2.27	2.27	1.71	3.31	18.43	73.90	5.37	1.50	2.35	3.06	1.87		
14	0.00	2.27	4.48	1.50	3.90	23.12	34.45	4.48	1.50	2.43	2.98	1.79		
15	0.00	2.27	9.11	1.50	4.06	36.00	23.45	2.19	1.50	2.50	2.98	1.71		
16	0.00	2.27	7.45	2.27	4.96	26.81	19.18	2.82	1.55	2.58	3.06	1.63		
17	0.00	2.27	6.07	5.24	4.65	39.89	91.83	3.06	1.55	2.66	3.14	1.55		
18	0.00	2.27	4.74	4.23	4.06	26.81	32.91	3.06	1.55	2.74	3.22	1.55		
19	0.00	2.27	3.90	3.06	3.90	18.43	18.93	3.81	1.55	2.82	3.31	1.71		
20	0.00	2.27	3.06	2.98	3.64	39.50	17.68	4.23	1.50	2.90	3.39	2.11		
21	0.74	2.27	3.06	2.90	3.48	25.81	11.79	4.74	1.50	2.98	3.48	2.50		
22	1.23	2.27	3.90	4.65	3.48	22.11	43.05	4.65	1.50	3.06	3.48	3.14		
23	1.55	2.27	3.06	10.06	3.06	59.38	127.00	3.90	1.44	3.06	3.56	4.15		
24	2.03	2.27	2.27	5.79	2.82	57.52	72.96	3.90	1.39	3.22	3.64	3.90		
25	2.35	2.27	2.27	5.93	3.64	52.87	26.81	3.64	1.33	3.39	3.73	3.39		
26	3.14	1.50	1.50	95.65	12.60	30.61	21.10	3.06	1.28	3.39	3.73	3.06		
27	3.73	1.50	1.50	19.43	11.01	24.46	15.23	3.06	1.28	3.48	3.81	2.90		
28	4.23	1.50	1.50	10.82	8.73	63.58	13.81	2.03	1.23	3.48	3.81	2.66		
29	4.65	1.87	1.50	6.76	33.29	26.14	17.68	1.50	1.23	3.39		2.82		
30	5.24	2.27	1.50	4.96	36.39	16.93	13.21	1.50	1.17	3.31		3.31		
31		3.06		6.76	23.45		13.81		1.17	3.22		4.15		
<b>Total</b>	<b>28.89</b>	<b>107.10</b>	<b>92.84</b>	<b>234.04</b>	<b>228.35</b>	<b>1105.26</b>	<b>911.37</b>	<b>190.09</b>	<b>59.24</b>	<b>76.90</b>	<b>95.86</b>	<b>81.22</b>	<b>3211.16</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>0.96</b>	<b>3.45</b>	<b>3.09</b>	<b>7.55</b>	<b>7.37</b>	<b>36.84</b>	<b>29.40</b>	<b>6.34</b>	<b>1.91</b>	<b>2.48</b>	<b>3.42</b>	<b>2.62</b>	<b>8.80</b>	<b>CMS</b>
<b>Max</b>	<b>5.24</b>	<b>14.22</b>	<b>9.11</b>	<b>95.65</b>	<b>36.39</b>	<b>143.50</b>	<b>127.00</b>	<b>15.93</b>	<b>6.07</b>	<b>3.48</b>	<b>4.96</b>	<b>4.15</b>	<b>143.50</b>	<b>CMS</b>
<b>Min</b>	<b>0.00</b>	<b>1.50</b>	<b>1.50</b>	<b>0.00</b>	<b>2.50</b>	<b>2.50</b>	<b>5.10</b>	<b>1.50</b>	<b>1.17</b>	<b>1.17</b>	<b>2.90</b>	<b>1.55</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>2.50</b>	<b>9.25</b>	<b>8.02</b>	<b>20.22</b>	<b>19.73</b>	<b>95.49</b>	<b>78.74</b>	<b>16.42</b>	<b>5.12</b>	<b>6.64</b>	<b>8.28</b>	<b>7.02</b>	<b>277.44</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>157.00 CMS. at 66.39 m. (MSL.) at 06.00 Hours , on Sep 10, 2021</b>													
<b>Runoff Yield</b>	<b>8.98 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>			<b>160.20 Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## NAN RIVER BASIN

## Khek River at Ban Tan Tawan , Phetchabun (N.73)

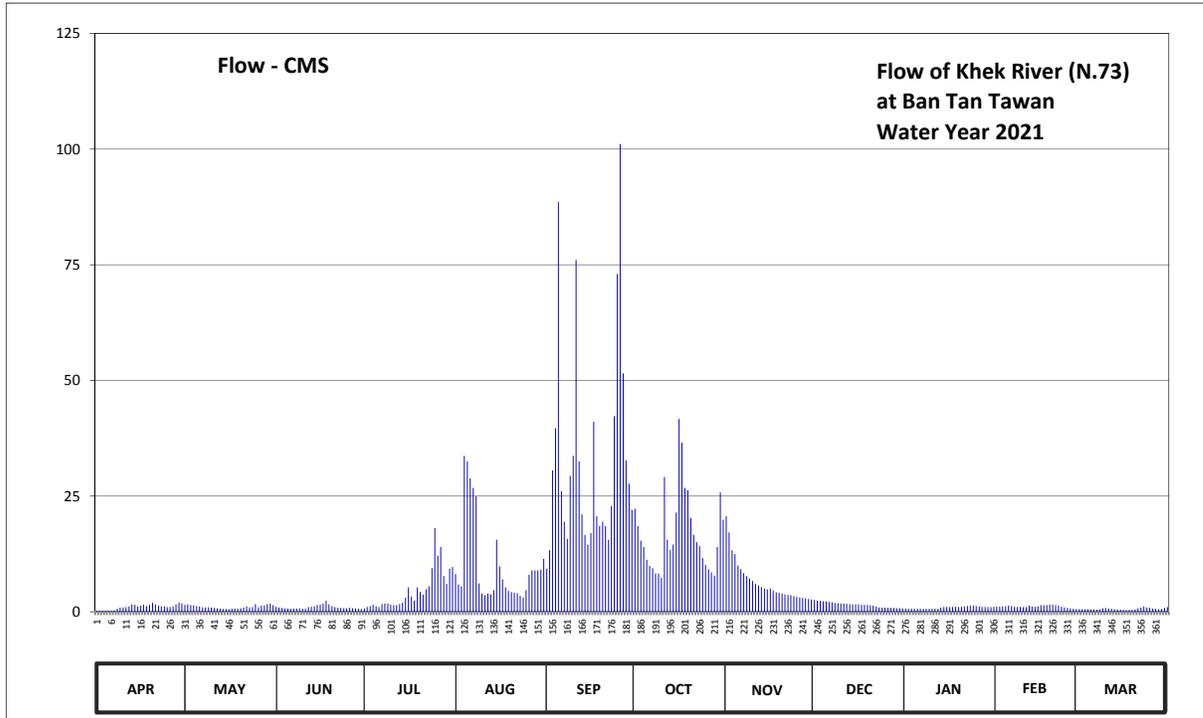
Lat 16 - 34 - 09 N Long 100 - 53 - 30 E

Location : on right bank at Ban Tan Tawan.

	<b>Ban Tan Tawan</b>	<b>Amphoe Khao Kho</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	224 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+684.529 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +694.038 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2002 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2002 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2002 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	685.54	685.90	685.80	685.71	686.81	686.91	687.65	687.57	686.10	685.70	685.81	685.66	
2	685.54	685.91	685.76	685.79	686.60	687.17	687.46	687.39	686.08	685.69	685.81	685.66	
3	685.54	685.88	685.73	685.83	686.55	688.02	687.29	687.17	686.07	685.69	685.82	685.66	
4	685.54	685.87	685.71	685.90	688.15	688.38	687.21	687.12	686.05	685.69	685.83	685.66	
5	685.54	685.84	685.69	685.83	688.10	689.79	687.05	686.97	686.04	685.69	685.85	685.65	
6	685.54	685.81	685.68	685.79	687.95	687.83	686.96	686.90	686.03	685.69	685.84	685.64	
7	685.59	685.77	685.69	685.93	687.86	687.51	686.92	686.83	686.01	685.69	685.80	685.63	
8	685.69	685.76	685.70	685.95	687.78	687.31	686.82	686.77	685.98	685.69	685.79	685.65	
9	685.75	685.77	685.71	685.95	686.62	687.97	686.82	686.72	685.97	685.69	685.79	685.72	
10	685.76	685.75	685.69	685.90	686.34	688.15	686.73	686.67	685.96	685.69	685.78	685.73	
11	685.78	685.73	685.69	685.87	686.28	689.47	687.96	686.61	685.95	685.69	685.78	685.70	
12	685.82	685.71	685.78	685.87	686.34	688.10	687.30	686.57	685.94	685.69	685.85	685.69	
13	685.91	685.69	685.80	685.93	686.31	687.59	687.17	686.53	685.93	685.75	685.81	685.66	
14	685.90	685.67	685.82	686.00	686.45	687.36	687.24	686.49	685.92	685.79	685.80	685.64	
15	685.82	685.67	685.89	686.19	687.30	687.24	687.61	686.47	685.91	685.79	685.83	685.64	
16	685.85	685.66	685.90	686.52	686.95	687.38	688.45	686.49	685.91	685.79	685.87	685.62	
17	685.90	685.69	685.95	686.23	686.70	688.43	688.26	686.44	685.90	685.79	685.87	685.61	
18	685.84	685.70	686.07	686.08	686.52	687.57	687.86	686.39	685.89	685.80	685.88	685.62	
19	685.89	685.70	685.92	686.52	686.43	687.46	687.84	686.37	685.88	685.79	685.91	685.62	
20	685.99	685.72	685.83	686.40	686.40	687.51	687.55	686.34	685.87	685.80	685.90	685.64	
21	685.91	685.75	685.78	686.30	686.38	687.46	687.36	686.31	685.86	685.82	685.88	685.72	
22	685.85	685.82	685.75	686.47	686.35	687.30	687.27	686.29	685.81	685.84	685.85	685.75	
23	685.82	685.76	685.73	686.55	686.26	687.68	687.22	686.28	685.76	685.85	685.80	685.81	
24	685.82	685.78	685.72	686.92	686.20	688.47	687.07	686.25	685.75	685.86	685.76	685.76	
25	685.78	685.93	685.72	687.44	686.45	689.39	686.98	686.22	685.75	685.84	685.73	685.74	
26	685.79	685.77	685.74	687.10	686.80	690.09	686.90	686.20	685.74	685.82	685.71	685.70	
27	685.82	685.85	685.72	687.21	686.88	688.78	686.84	686.18	685.73	685.79	685.69	685.68	
28	685.92	685.86	685.70	686.77	686.88	688.11	686.78	686.16	685.73	685.79	685.67	685.65	
29	686.00	685.92	685.69	686.61	686.88	687.90	687.21	686.14	685.72	685.78		685.68	
30	685.96	685.96	685.68	686.91	686.89	687.64	687.82	686.12	685.72	685.78		685.73	
31		685.87		686.94	687.06		687.53		685.71	685.80		685.78	
Mean	685.78	685.79	685.77	686.30	686.82	688.00	687.33	686.57	685.89	685.76	685.81	685.68	
Max	686.00	685.96	686.07	687.44	688.15	690.09	688.45	687.57	686.10	685.86	685.91	685.81	690.09
Min	685.54	685.66	685.68	685.71	686.20	686.91	686.73	686.12	685.71	685.69	685.67	685.61	685.54
Annual Max Momentary Gage Height	690.74		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	684.53		m. (MSL.) ,				River Bed	685.56		m. (MSL.)			
Left Bank Elevation		694.10		m. (MSL.) ,									
Right Bank Elevation		694.01		m. (MSL.) ,			Drainage Are	224		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	1.52	1.07	0.73	8.13	9.31	22.25	20.64	2.53	0.70	1.12	0.55	
2	0.22	1.57	0.92	1.03	5.92	13.29	18.49	17.14	2.42	0.66	1.12	0.55	
3	0.22	1.43	0.81	1.21	5.51	30.55	15.38	13.29	2.36	0.66	1.16	0.55	
4	0.22	1.39	0.73	1.52	33.71	39.69	13.98	12.43	2.25	0.66	1.21	0.55	
5	0.22	1.25	0.66	1.21	32.50	88.56	11.23	10.02	2.19	0.66	1.30	0.51	
6	0.22	1.12	0.62	1.03	28.88	26.03	9.90	9.19	2.14	0.66	1.25	0.47	
7	0.30	0.96	0.66	1.66	26.74	19.47	9.43	8.36	2.03	0.66	1.07	0.43	
8	0.66	0.92	0.70	1.75	24.91	15.74	8.25	7.70	1.88	0.66	1.03	0.51	
9	0.88	0.96	0.73	1.75	6.13	29.35	8.25	7.17	1.84	0.66	1.03	0.77	
10	0.92	0.88	0.66	1.52	3.91	33.71	7.28	6.65	1.79	0.66	1.00	0.81	
11	1.00	0.81	0.66	1.39	3.56	76.07	29.11	6.03	1.75	0.66	1.00	0.70	
12	1.16	0.73	1.00	1.39	3.91	32.50	15.56	5.67	1.70	0.66	1.30	0.66	
13	1.57	0.66	1.07	1.66	3.73	21.03	13.29	5.34	1.66	0.88	1.12	0.55	
14	1.52	0.58	1.16	1.97	4.68	16.62	14.50	5.01	1.61	1.03	1.07	0.47	
15	1.16	0.58	1.48	3.03	15.56	14.50	21.43	4.84	1.57	1.03	1.21	0.47	
16	1.30	0.55	1.52	5.26	9.78	16.97	41.67	5.01	1.57	1.03	1.39	0.40	
17	1.52	0.66	1.75	3.27	6.97	41.09	36.52	4.59	1.52	1.03	1.39	0.36	
18	1.25	0.70	2.36	2.42	5.26	20.64	26.74	4.20	1.48	1.07	1.43	0.40	
19	1.48	0.70	1.61	5.26	4.51	18.49	26.27	4.08	1.43	1.03	1.57	0.40	
20	1.93	0.77	1.21	4.26	4.26	19.47	20.25	3.91	1.39	1.07	1.52	0.47	
21	1.57	0.88	1.00	3.68	4.14	18.49	16.62	3.73	1.34	1.16	1.43	0.77	
22	1.30	1.16	0.88	4.84	3.97	15.56	15.03	3.62	1.12	1.25	1.30	0.88	
23	1.16	0.92	0.81	5.51	3.44	22.86	14.15	3.56	0.92	1.30	1.07	1.12	
24	1.16	1.00	0.77	9.43	3.09	42.24	11.57	3.38	0.88	1.34	0.92	0.92	
25	1.00	1.66	0.77	18.10	4.68	72.98	10.13	3.21	0.88	1.25	0.81	0.85	
26	1.03	0.96	0.85	12.09	8.01	101.10	9.19	3.09	0.85	1.16	0.73	0.70	
27	1.16	1.30	0.77	13.98	8.95	51.51	8.48	2.98	0.81	1.03	0.66	0.62	
28	1.61	1.34	0.70	7.70	8.95	32.74	7.80	2.87	0.81	1.03	0.58	0.51	
29	1.97	1.61	0.66	6.03	8.95	27.69	13.98	2.75	0.77	1.00		0.62	
30	1.79	1.79	0.62	9.31	9.07	22.04	25.79	2.64	0.77	1.00		0.81	
31		1.39		9.66	11.40		19.86		0.73	1.07		1.00	
<b>Total</b>	31.72	32.75	29.21	143.65	313.21	990.29	522.38	193.10	46.99	28.72	31.79	19.38	2383.19 CMSDAY
<b>Mean</b>	1.06	1.06	0.97	4.63	10.10	33.01	16.85	6.44	1.52	0.93	1.14	0.63	6.53 CMS
<b>Max</b>	1.97	1.79	2.36	18.10	33.71	101.10	41.67	20.64	2.53	1.34	1.57	1.12	101.10 CMS
<b>Min</b>	0.22	0.55	0.62	0.73	3.09	9.31	7.28	2.64	0.73	0.66	0.58	0.36	0.22 CMS
<b>Runoff</b>	2.74	2.83	2.52	12.41	27.06	85.56	45.13	16.68	4.06	2.48	2.75	1.67	205.91 MCM
<b>Momentary Peak</b>	133.76 CMS. at 690.74 m. (MSL.) at 06.00 Hours , on Sep 5, 2021												
<b>Runoff Yield</b>	29.15 Liters/Second/Square KM.			Momentary Peak Yield			597.14 Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Bang Krathum , Phitsanulok (N.74)

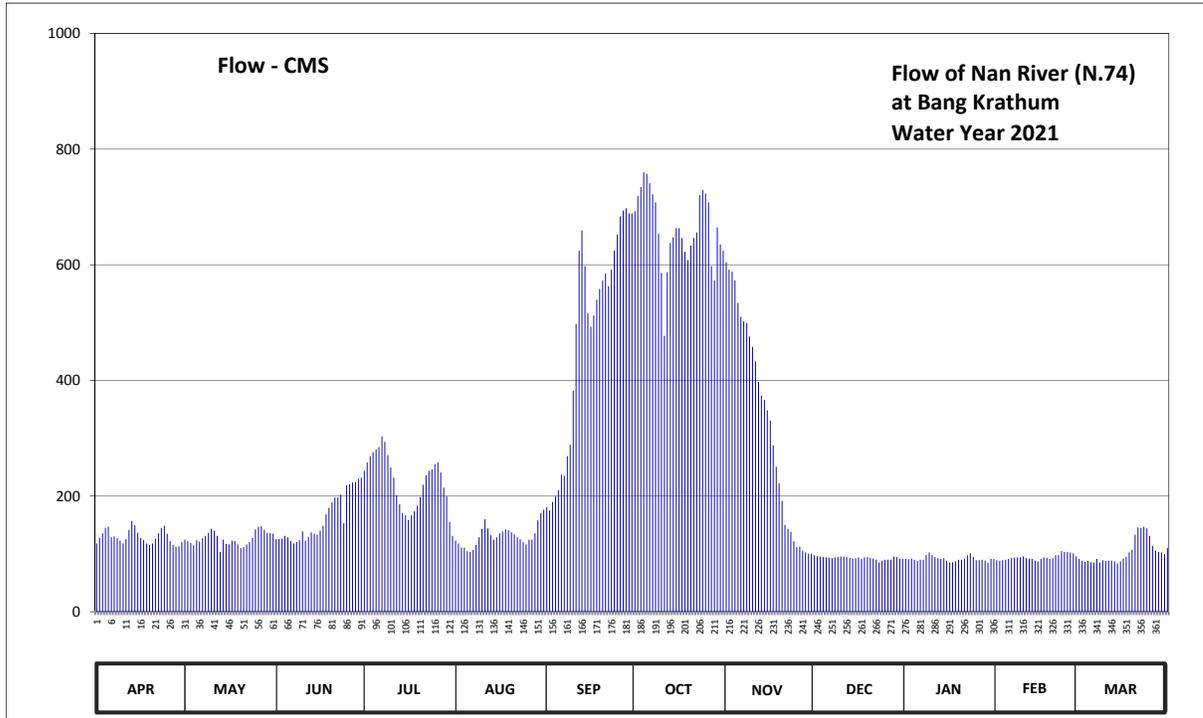
Lat 16 - 34 - 50 N Long 100 - 14 - 19 E

Location : on left bank at Bang Krathum.

	<b>Ban</b>	-	<b>Amphoe</b>	Bang Krathum	<b>Changwat</b>	Phitsanulok
<b>Drainage Area</b>	24,923	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+29.360	m. (MSL.)				
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+44.315 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2001 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2001 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2001 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 23 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.22	31.30	31.31	32.61	31.28	31.95	36.66	35.94	30.95	30.86	30.83	30.86	
2	31.34	31.27	31.31	32.76	31.22	31.89	36.87	35.83	30.93	30.85	30.82	30.82	
3	31.43	31.23	31.32	32.87	31.13	32.05	36.99	35.80	30.92	30.87	30.83	30.79	
4	31.54	31.18	31.38	32.94	31.13	32.15	37.19	35.67	30.91	30.84	30.84	30.82	
5	31.56	31.29	31.35	32.99	31.05	32.26	37.17	35.33	30.90	30.81	30.86	30.78	
6	31.35	31.26	31.27	33.03	31.03	32.54	37.04	35.12	30.89	30.84	30.89	30.77	
7	31.37	31.33	31.22	33.21	31.08	32.52	36.89	35.05	30.88	30.84	30.89	30.86	
8	31.33	31.38	31.25	33.12	31.19	32.87	36.78	35.02	30.90	30.96	30.90	30.77	
9	31.28	31.44	31.29	32.89	31.35	33.07	36.35	34.82	30.91	31.02	30.90	30.83	
10	31.22	31.52	31.47	32.67	31.52	33.96	35.78	34.66	30.92	30.96	30.92	30.81	
11	31.31	31.48	31.28	32.49	31.71	35.01	34.83	34.43	30.92	30.91	30.88	30.82	
12	31.50	31.38	31.36	32.17	31.53	36.11	35.79	34.10	30.91	30.88	30.87	30.82	
13	31.68	31.03	31.45	32.01	31.39	36.40	36.22	33.88	30.89	30.86	30.86	30.80	
14	31.59	31.30	31.42	31.84	31.30	35.88	36.30	33.81	30.87	30.88	30.82	30.75	
15	31.44	31.21	31.40	31.79	31.35	35.17	36.43	33.64	30.88	30.82	30.80	30.80	
16	31.34	31.20	31.48	31.70	31.43	34.97	36.43	33.47	30.90	30.77	30.86	30.87	
17	31.29	31.28	31.58	31.79	31.47	35.14	36.29	33.06	30.86	30.78	30.90	30.91	
18	31.22	31.27	31.81	31.87	31.51	35.38	36.09	32.68	30.90	30.80	30.89	31.02	
19	31.19	31.20	31.94	31.98	31.49	35.54	35.97	32.39	30.91	30.84	30.86	31.08	
20	31.22	31.12	32.04	32.14	31.45	35.67	36.18	32.07	30.89	30.84	30.88	31.40	
21	31.32	31.14	32.13	32.36	31.41	35.77	36.29	31.60	30.87	30.87	30.95	31.55	
22	31.43	31.20	32.13	32.53	31.35	35.58	36.37	31.52	30.84	30.95	30.95	31.54	
23	31.54	31.25	32.18	32.61	31.31	35.83	36.88	31.46	30.77	31.00	31.05	31.56	
24	31.58	31.34	31.63	32.64	31.25	36.11	36.95	31.27	30.82	30.91	31.03	31.53	
25	31.42	31.51	32.35	32.73	31.20	36.34	36.90	31.14	30.84	30.83	31.03	31.38	
26	31.27	31.56	32.37	32.76	31.30	36.59	36.78	31.15	30.84	30.83	31.02	31.17	
27	31.19	31.57	32.40	32.58	31.30	36.67	35.88	31.06	30.84	30.84	31.00	31.06	
28	31.15	31.50	32.41	32.31	31.43	36.70	35.67	31.02	30.92	30.82	30.93	31.03	
29	31.16	31.44	32.47	32.15	31.69	36.63	36.44	30.99	30.91	30.77		31.02	
30	31.25	31.44	32.49	31.66	31.84	36.63	36.20	30.99	30.87	30.86		30.98	
31		31.42		31.38	31.90		36.11		30.86	30.86		31.12	
Mean	31.36	31.32	31.72	32.41	31.37	34.78	36.41	33.30	30.88	30.86	30.90	31.01	
Max	31.68	31.57	32.49	33.21	31.90	36.70	37.19	35.94	30.95	31.02	31.05	31.56	37.19
Min	31.15	31.03	31.22	31.38	31.03	31.89	34.83	30.99	30.77	30.80	30.75	30.75	
Annual Max Momentary Gage Height	37.26		m. (MSL.) ,				at 18.00 Hours ,						on Oct 4, 2021
Zero Gage at Bottom Elevation	29.36		m. (MSL.) ,			River Bed	27.24	m. (MSL.)					
Left Bank Elevation		40.10		m. (MSL.) ,									
Right Bank Elevation		40.57		m. (MSL.) ,		Drainage Are	24,923	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	117.88	124.60	125.44	243.64	122.92	180.60	692.42	604.38	97.50	91.20	89.10	91.20		
2	127.96	122.08	125.44	258.24	117.88	175.32	719.09	591.51	96.10	90.50	88.40	88.40		
3	135.58	118.72	126.28	268.95	110.88	189.78	734.33	588.00	95.40	91.90	89.10	86.30		
4	145.04	114.68	131.32	275.76	110.88	199.33	759.73	573.05	94.70	89.80	89.80	88.40		
5	146.76	123.76	128.80	280.63	104.80	209.83	757.19	533.95	94.00	87.70	91.20	85.60		
6	128.80	121.24	122.08	284.66	103.28	236.83	740.68	509.98	93.30	89.80	93.30	84.90		
7	130.48	127.12	117.88	303.05	107.08	234.88	721.63	502.00	92.60	89.80	93.30	91.20		
8	127.12	131.32	120.40	293.84	115.44	268.95	707.66	498.58	94.00	98.20	94.00	84.90		
9	122.92	136.44	123.76	270.89	128.80	288.74	653.35	475.78	94.70	102.52	94.00	89.10		
10	117.88	143.32	139.02	249.48	143.32	382.34	585.70	458.10	95.40	98.20	95.40	87.70		
11	125.44	139.88	122.92	231.96	159.66	497.44	476.92	432.80	95.40	94.70	92.60	88.40		
12	141.60	131.32	129.64	201.24	144.18	624.49	586.85	397.25	94.70	92.60	91.90	88.40		
13	157.08	103.28	137.30	185.96	132.16	659.40	637.62	373.82	93.30	91.20	91.20	87.00		
14	149.34	124.60	134.72	170.92	124.60	597.36	647.30	366.37	91.90	92.60	88.40	83.50		
15	136.44	117.04	133.00	166.54	128.80	515.68	663.21	348.26	92.60	88.40	87.00	87.00		
16	127.96	116.20	139.88	158.80	135.58	492.88	663.21	330.35	94.00	84.90	91.20	91.90		
17	123.76	122.92	148.48	166.54	139.02	512.26	646.09	287.72	91.20	85.60	94.00	94.70		
18	117.88	122.08	168.28	173.56	142.46	539.70	622.11	250.45	94.00	87.00	93.30	102.52		
19	115.44	116.20	179.72	183.24	140.74	558.10	607.89	222.25	94.70	89.80	91.20	107.08		
20	117.88	110.12	188.82	198.37	137.30	573.05	632.82	191.69	93.30	89.80	92.60	133.00		
21	126.28	111.64	197.42	219.38	133.86	584.55	646.09	150.20	91.90	91.90	97.50	145.90		
22	135.58	116.20	197.42	235.85	128.80	562.70	655.77	143.32	89.80	97.50	97.50	145.04		
23	145.04	120.40	202.19	243.64	125.44	591.51	720.36	138.16	84.90	101.00	104.80	146.76		
24	148.48	127.96	152.78	246.56	120.40	624.49	729.25	122.08	88.40	94.70	103.28	144.18		
25	134.72	142.46	218.43	255.32	116.20	652.14	722.90	111.64	89.80	89.10	103.28	131.32		
26	122.08	146.76	220.34	258.24	124.60	683.53	707.66	112.40	89.80	89.10	102.52	113.92		
27	115.44	147.62	223.20	240.72	124.60	693.69	597.36	105.56	89.80	89.80	101.00	105.56		
28	112.40	141.60	224.17	214.61	135.58	697.50	573.05	102.52	95.40	88.40	96.10	103.28		
29	113.16	136.44	230.01	199.33	157.94	688.61	664.48	100.30	94.70	84.90		102.52		
30	120.40	136.44	231.96	155.36	170.92	688.61	635.20	100.30	91.90	91.20		99.60		
31		134.72		131.32	176.20		624.49		91.20	91.20		110.12		
Total	3886.82	3929.16	4841.10	6966.60	4064.32	14404.29	20532.41	9722.77	2880.40	2835.02	2636.98	3189.40	79889.27	CMSDAY
Mean	129.56	126.75	161.37	224.73	131.11	480.14	662.34	324.09	92.92	91.45	94.18	102.88	218.87	CMS
Max	157.08	147.62	231.96	303.05	176.20	697.50	759.73	604.38	97.50	102.52	104.80	146.76	759.73	CMS
Min	112.40	103.28	117.88	131.32	103.28	175.32	476.92	100.30	84.90	84.90	87.00	83.50	83.50	CMS
Runoff	335.82	339.48	418.27	601.91	351.16	1244.53	1774.00	840.05	248.87	244.95	227.84	275.56	6902.43	MCM
Momentary Peak		768.62	CMS. at 37.26 m. (MSL.)					1721.00						
Runoff Yield		8.59	Liters/Second/Square KM.				Momentary Peak Yield	30.15						Liters/Second/Square KM.

**WATER YEAR : 2021****NAN RIVER BASIN****Nam Wa at Tha Li Bridge , Nan (N.75)**

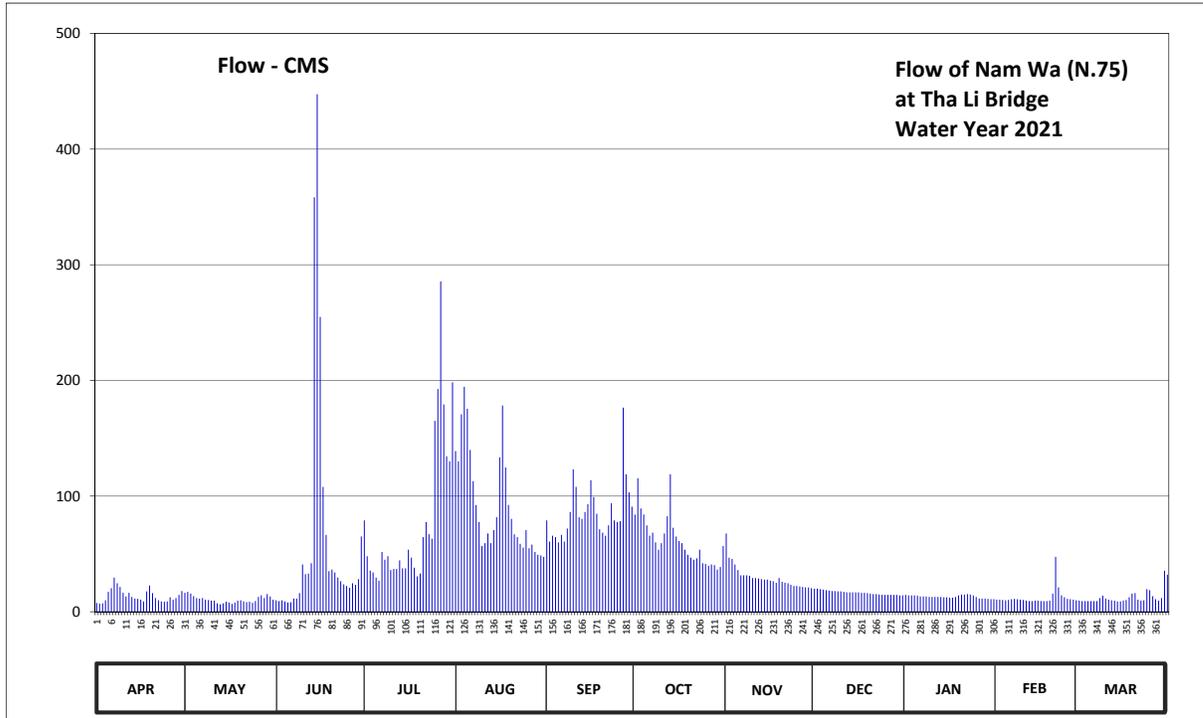
Lat 18 - 32 - 54 N Long 100 - 48 - 31 E

Location : on left bank at the bridge.

	<b>Ban</b> Tha Li Bridge	<b>Amphoe</b> Wiang Sa	<b>Changwat</b> Nan
<b>Drainage Area</b>	2,173 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+182.805 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+196.616 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.98	184.25	184.06	185.37	186.11	185.37	185.44	185.21	184.34	184.20	184.08	184.05	
2	183.96	184.27	184.04	184.90	186.01	185.10	185.84	184.88	184.34	184.19	184.08	184.04	
3	183.97	184.23	184.06	184.68	186.46	185.18	185.51	184.86	184.33	184.19	184.07	184.04	
4	184.06	184.17	184.03	184.65	186.71	185.16	185.44	184.78	184.32	184.19	184.06	184.04	
5	184.27	184.12	184.00	184.56	186.51	185.09	185.31	184.69	184.31	184.18	184.07	184.04	
6	184.35	184.11	184.01	184.50	186.12	185.19	185.18	184.60	184.30	184.16	184.09	184.04	
7	184.56	184.12	184.11	184.96	185.81	185.10	185.22	184.60	184.29	184.16	184.10	184.04	
8	184.45	184.08	184.11	184.85	185.55	185.27	185.09	184.60	184.29	184.16	184.09	184.12	
9	184.38	184.07	184.24	184.90	185.35	185.47	184.99	184.59	184.28	184.15	184.08	184.18	
10	184.25	184.05	184.78	184.69	185.04	185.93	185.08	184.55	184.28	184.15	184.07	184.11	
11	184.16	184.05	184.62	184.71	185.08	185.75	185.21	184.55	184.27	184.15	184.05	184.08	
12	184.25	183.97	184.63	184.71	185.21	185.41	185.42	184.54	184.26	184.15	184.04	184.06	
13	184.15	183.94	184.80	184.84	185.08	185.39	185.88	184.53	184.26	184.15	184.04	184.05	
14	184.11	183.97	188.17	184.72	185.25	185.47	185.28	184.52	184.26	184.14	184.05	184.03	
15	184.10	184.02	188.88	184.72	185.41	185.56	185.17	184.52	184.26	184.14	184.05	184.03	
16	184.08	184.00	187.29	184.99	186.05	185.82	185.11	184.50	184.26	184.13	184.04	184.05	
17	184.03	183.95	185.75	184.88	186.54	185.64	185.08	184.49	184.25	184.13	184.04	184.07	
18	184.28	184.00	185.19	184.73	185.95	185.45	184.99	184.46	184.25	184.15	184.04	184.14	
19	184.41	184.05	184.67	184.58	185.55	185.26	184.92	184.55	184.24	184.19	184.05	184.23	
20	184.24	184.06	184.70	184.63	185.39	185.22	184.88	184.48	184.23	184.21	184.23	184.24	
21	184.12	184.03	184.65	185.16	185.20	185.18	184.85	184.46	184.22	184.21	184.89	184.08	
22	184.06	184.01	184.56	185.35	185.16	185.31	184.87	184.45	184.22	184.22	184.37	184.05	
23	184.03	184.02	184.49	185.20	185.07	185.57	184.99	184.42	184.21	184.21	184.19	184.06	
24	184.02	183.99	184.43	185.14	185.02	185.37	184.80	184.40	184.20	184.19	184.14	184.33	
25	184.03	184.04	184.40	186.40	185.25	185.35	184.79	184.40	184.20	184.15	184.10	184.31	
26	184.14	184.15	184.36	186.69	185.01	185.36	184.76	184.39	184.20	184.11	184.09	184.17	
27	184.08	184.19	184.45	187.57	185.06	186.52	184.78	184.38	184.20	184.11	184.08	184.09	
28	184.12	184.12	184.42	186.55	184.96	185.88	184.77	184.37	184.20	184.11	184.06	184.05	
29	184.20	184.22	184.53	186.06	184.92	185.69	184.70	184.37	184.20	184.10		184.12	
30	184.29	184.16	185.17	186.01	184.91	185.53	184.74	184.35	184.19	184.09		184.68	
31		184.08		186.75	184.89		185.04		184.19	184.09		184.61	
Mean	184.17	184.08	184.85	185.24	185.50	185.45	185.10	184.55	184.25	184.16	184.12	184.14	
Max	184.56	184.27	188.88	187.57	186.71	186.52	185.88	185.21	184.34	184.22	184.89	184.68	188.88
Min	183.96	183.94	184.00	184.50	184.89	185.09	184.70	184.35	184.19	184.09	184.04	184.03	183.94
Annual Max Momentary Gage Height	191.35		m. (MSL.) ,				at 19.00 Hours ,						on Jun 14, 2021
Zero Gage at Bottom Elevation	182.81		m. (MSL.) ,			River Bed	181.29	m. (MSL.)					
Left Bank Elevation		196.63		m. (MSL.) ,									
Right Bank Elevation		196.59		m. (MSL.) ,		Drainage Are	2,173	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.50	16.40	9.86	78.90	138.90	78.90	84.00	67.70	19.90	14.50	10.48	9.55		
2	7.00	17.16	9.24	48.00	129.90	60.60	115.40	46.80	19.90	14.16	10.48	9.24		
3	7.25	15.64	9.86	35.50	170.70	65.72	89.25	45.60	19.50	14.16	10.17	9.24		
4	9.86	13.48	8.93	34.00	194.45	64.44	84.00	40.90	19.10	14.16	9.86	9.24		
5	17.16	11.78	8.00	29.62	175.45	59.96	74.70	36.00	18.70	13.82	10.17	9.24		
6	20.30	11.44	8.31	26.80	139.80	66.36	65.72	31.50	18.30	13.14	10.79	9.24		
7	29.62	11.78	11.44	51.72	112.85	60.60	68.40	31.50	17.92	13.14	11.10	9.24		
8	24.55	10.48	11.44	45.00	92.25	71.90	59.96	31.50	17.92	13.14	10.79	11.78		
9	21.50	10.17	16.02	48.00	77.50	86.25	53.58	31.03	17.54	12.80	10.48	13.82		
10	16.40	9.55	40.90	36.00	56.76	123.05	59.32	29.15	17.54	12.80	10.17	11.44		
11	13.14	9.55	32.50	37.05	59.32	108.00	67.70	29.15	17.16	12.80	9.55	10.48		
12	16.40	7.25	33.00	37.05	67.70	81.75	82.50	28.68	16.78	12.80	9.24	9.86		
13	12.80	6.50	42.00	44.40	59.32	80.30	118.80	28.21	16.78	12.80	9.24	9.55		
14	11.44	7.25	358.25	37.60	70.50	86.25	72.60	27.74	16.78	12.46	9.55	8.93		
15	11.10	8.62	447.40	37.60	81.75	93.00	65.08	27.74	16.78	12.46	9.55	8.93		
16	10.48	8.00	254.90	53.58	133.50	113.70	61.24	26.80	16.78	12.12	9.24	9.55		
17	8.93	6.75	108.00	46.80	178.30	99.20	59.32	26.35	16.40	12.12	9.24	10.17		
18	17.54	8.00	66.36	38.15	124.75	84.75	53.58	25.00	16.40	12.80	9.24	12.46		
19	22.75	9.55	35.00	30.56	92.25	71.20	49.24	29.15	16.02	14.16	9.55	15.64		
20	16.02	9.86	36.50	33.00	80.30	68.40	46.80	25.90	15.64	14.88	15.64	16.02		
21	11.78	8.93	34.00	64.44	67.00	65.72	45.00	25.00	15.26	14.88	47.40	10.48		
22	9.86	8.31	29.62	77.50	64.44	74.70	46.20	24.55	15.26	15.26	21.10	9.55		
23	8.93	8.62	26.35	67.00	58.68	93.75	53.58	23.20	14.88	14.88	14.16	9.86		
24	8.62	7.75	23.65	63.16	55.48	78.90	42.00	22.30	14.50	14.16	12.46	19.50		
25	8.93	9.24	22.30	165.00	70.50	77.50	41.45	22.30	14.50	12.80	11.10	18.70		
26	12.46	12.80	20.70	192.55	54.84	78.20	39.80	21.90	14.50	11.44	10.79	13.48		
27	10.48	14.16	24.55	285.70	58.04	176.40	40.90	21.50	14.50	11.44	10.48	10.79		
28	11.78	11.78	23.20	179.25	51.72	118.80	40.35	21.10	14.50	11.44	9.86	9.55		
29	14.50	15.26	28.21	134.40	49.24	103.20	36.50	21.10	14.50	11.10		11.78		
30	17.92	13.14	65.08	129.90	48.62	90.75	38.70	20.30	14.16	10.79		35.50		
31		10.48		198.25	47.40		56.76		14.16	10.79		32.00		
Total	417.00	329.68	1845.57	2386.48	2862.21	2582.25	1912.43	889.65	512.56	404.20	341.88	394.81	14878.72	CMSDAY
Mean	13.90	10.63	61.52	76.98	92.33	86.08	61.69	29.65	16.53	13.04	12.21	12.74	40.76	CMS
Max	29.62	17.16	447.40	285.70	194.45	176.40	118.80	67.70	19.90	15.26	47.40	35.50	447.40	CMS
Min	7.00	6.50	8.00	26.80	47.40	59.96	36.50	20.30	14.16	10.79	9.24	8.93	6.50	CMS
Runoff	36.03	28.48	159.46	206.19	247.29	223.11	165.23	76.87	44.29	34.92	29.54	34.11	1285.52	MCM
Momentary Peak	802.25 CMS. at 191.35 m. (MSL.) at 19.00 Hours , on Jun 14, 2021													
Runoff Yield	18.76 Liters/Second/Square KM.			Momentary Peak Yield				369.19 Liters/Second/Square KM.						

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok (N.81)

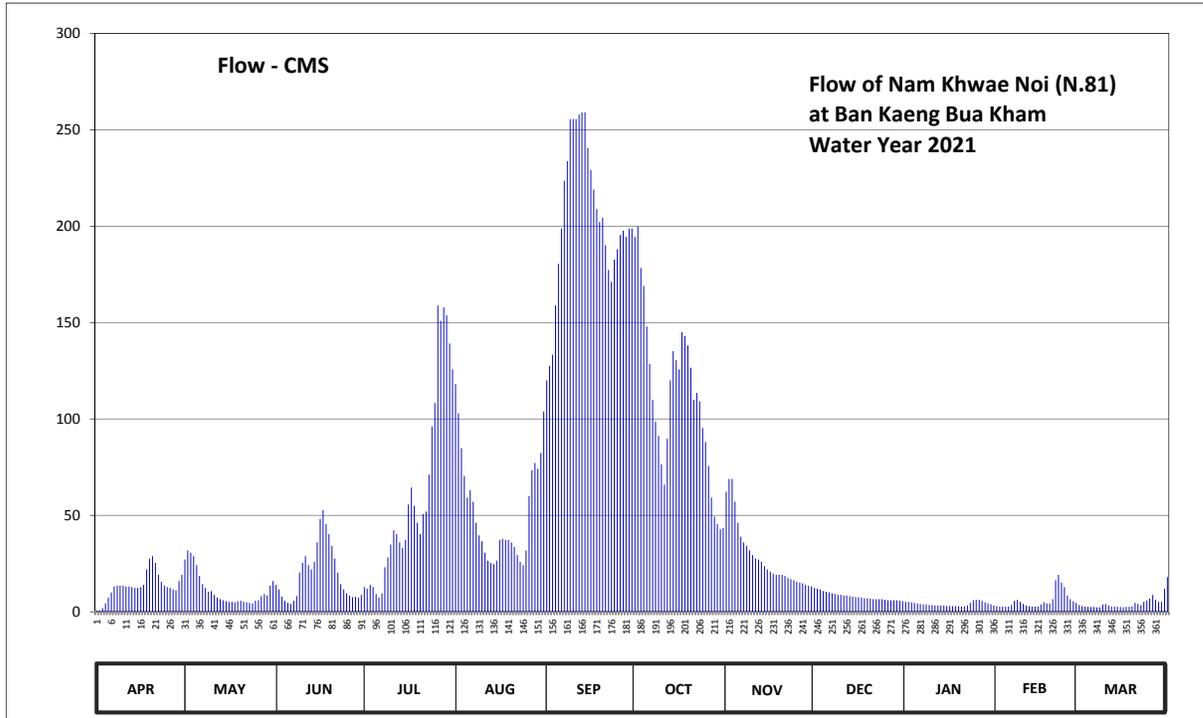
Lat 17 - 07 - 43 N Long 100 - 35 - 17 E

Location : on left bank at Ban Kaeng Bua Kham.

	<b>Ban</b>	<b>Kaeng Bua Kham</b>	<b>Amphoe</b>	<b>Chat Trakan</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	3,675	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+160.260 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+167.275 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2012 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2012 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2012 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 22 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.12	161.99	161.74	161.71	163.22	163.24	163.98	162.53	161.70	161.48	161.39	161.42	
2	161.17	162.07	161.68	161.69	163.05	163.32	164.03	162.62	161.69	161.48	161.37	161.40	
3	161.30	162.05	161.58	161.74	162.83	163.38	163.83	162.62	161.68	161.47	161.37	161.38	
4	161.45	162.02	161.50	161.71	162.64	163.64	163.74	162.46	161.66	161.46	161.37	161.36	
5	161.56	161.94	161.46	161.62	162.49	163.85	163.53	162.30	161.65	161.45	161.37	161.35	
6	161.64	161.84	161.44	161.56	162.54	164.02	163.33	162.19	161.64	161.44	161.42	161.35	
7	161.72	161.75	161.50	161.63	162.46	164.24	163.13	162.14	161.63	161.43	161.50	161.34	
8	161.73	161.70	161.59	161.92	162.30	164.33	163.00	162.11	161.62	161.43	161.52	161.34	
9	161.73	161.65	161.87	162.01	162.20	164.52	162.91	162.07	161.61	161.42	161.48	161.43	
10	161.73	161.66	161.96	162.12	162.15	164.52	162.72	162.03	161.61	161.42	161.44	161.44	
11	161.72	161.61	162.02	162.24	162.05	164.52	162.58	162.00	161.60	161.41	161.41	161.41	
12	161.72	161.56	161.94	162.21	161.98	164.54	162.89	161.99	161.60	161.41	161.39	161.38	
13	161.71	161.53	161.90	162.14	161.96	164.55	163.24	161.97	161.59	161.41	161.38	161.38	
14	161.70	161.51	161.97	162.09	161.95	164.55	163.40	161.93	161.58	161.41	161.37	161.36	
15	161.70	161.49	162.14	162.16	161.98	164.39	163.35	161.90	161.57	161.40	161.38	161.35	
16	161.71	161.48	162.33	162.44	162.16	164.29	163.30	161.88	161.57	161.39	161.43	161.34	
17	161.74	161.48	162.40	162.56	162.17	164.20	163.50	161.86	161.56	161.39	161.47	161.36	
18	161.90	161.47	162.29	162.43	162.16	164.11	163.48	161.85	161.55	161.39	161.45	161.36	
19	162.00	161.49	162.21	162.30	162.16	164.05	163.43	161.85	161.55	161.39	161.45	161.38	
20	162.02	161.50	162.11	162.21	162.14	164.07	163.31	161.85	161.54	161.38	161.53	161.46	
21	161.96	161.48	162.00	162.37	162.10	163.94	163.13	161.84	161.53	161.39	161.80	161.44	
22	161.85	161.47	161.87	162.39	162.03	163.82	163.17	161.82	161.53	161.41	161.85	161.42	
23	161.78	161.46	161.75	162.65	161.97	163.76	163.12	161.81	161.53	161.46	161.77	161.48	
24	161.73	161.45	161.68	162.97	161.94	163.87	162.96	161.80	161.53	161.51	161.71	161.50	
25	161.71	161.50	161.63	163.11	162.07	163.92	162.87	161.78	161.52	161.52	161.60	161.54	
26	161.70	161.51	161.60	163.64	162.50	163.99	162.71	161.77	161.51	161.52	161.53	161.61	
27	161.68	161.59	161.57	163.56	162.68	164.01	162.49	161.76	161.51	161.50	161.49	161.52	
28	161.67	161.62	161.58	163.63	162.73	163.98	162.35	161.74	161.51	161.47	161.46	161.48	
29	161.79	161.60	161.56	163.59	162.69	164.02	162.29	161.73	161.51	161.45		161.48	
30	161.85	161.73	161.61	163.44	162.80	164.02	162.25	161.72	161.50	161.43		161.69	
31		161.79		163.30	163.06		162.26		161.49	161.41		161.83	
Mean	161.69	161.64	161.82	162.42	162.36	164.06	163.11	162.00	161.58	161.44	161.49	161.44	
Max	162.02	162.07	162.40	163.64	163.22	164.55	164.03	162.62	161.70	161.52	161.85	161.83	164.55
Min	161.12	161.45	161.44	161.56	161.94	163.24	162.25	161.72	161.49	161.38	161.37	161.34	161.12
Annual Max Momentary Gage Height	164.69		m. (MSL.) ,				at 07.00 Hours ,						
Zero Gage at Bottom Elevation	160.26		m. (MSL.) ,			River Bed	160.32		m. (MSL.)				
Left Bank Elevation		166.99		m. (MSL.) ,									
Right Bank Elevation		167.02		m. (MSL.) ,		Drainage Are	3,675		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.57	27.02	13.94	12.75	118.07	119.97	194.37	62.21	12.35	5.13	2.85	3.50		
2	0.73	31.78	11.56	11.95	102.97	127.57	199.88	68.86	11.95	5.13	2.64	2.96		
3	1.90	30.58	7.84	13.94	84.80	133.27	178.29	68.86	11.56	4.86	2.64	2.75		
4	4.32	28.78	5.67	12.75	70.36	158.86	169.00	57.06	10.76	4.59	2.64	2.53		
5	7.30	24.20	4.59	9.17	59.27	180.44	147.93	46.12	10.37	4.32	2.64	2.43		
6	9.97	18.57	4.04	7.30	62.95	198.76	128.52	38.98	9.97	4.04	3.50	2.43		
7	13.14	14.34	5.67	9.57	57.06	223.50	110.01	35.98	9.57	3.77	5.67	2.32		
8	13.54	12.35	8.11	23.08	46.12	233.68	98.57	34.18	9.17	3.77	6.21	2.32		
9	13.54	10.37	20.26	28.18	39.58	255.56	91.28	31.78	8.78	3.50	5.13	3.77		
10	13.54	10.76	25.33	34.78	36.58	255.56	76.37	29.38	8.78	3.50	4.04	4.04		
11	13.14	8.78	28.78	42.19	30.58	255.56	65.89	27.58	8.38	3.23	3.23	3.23		
12	13.14	7.30	24.20	40.23	26.45	257.89	89.66	27.02	8.38	3.23	2.85	2.75		
13	12.75	6.48	21.95	35.98	25.33	259.05	119.97	25.89	8.11	3.23	2.75	2.75		
14	12.35	5.94	25.89	32.98	24.77	259.05	135.17	23.64	7.84	3.23	2.64	2.53		
15	12.35	5.40	35.98	37.18	26.45	240.47	130.42	21.95	7.57	2.96	2.75	2.43		
16	12.75	5.13	48.08	55.59	37.18	229.16	125.67	20.82	7.57	2.85	3.77	2.32		
17	13.94	5.13	52.65	64.42	37.78	218.98	144.99	19.70	7.30	2.85	4.86	2.53		
18	21.95	4.86	45.46	54.86	37.18	208.87	143.02	19.14	7.03	2.85	4.32	2.53		
19	27.58	5.40	40.23	46.12	37.18	202.13	138.12	19.14	7.03	2.85	4.32	2.75		
20	28.78	5.67	34.18	40.23	35.98	204.38	126.62	19.14	6.75	2.75	6.48	4.59		
21	25.33	5.13	27.58	50.69	33.58	190.08	110.01	18.57	6.48	2.85	16.32	4.04		
22	19.14	4.86	20.26	52.00	29.38	177.22	113.53	17.45	6.48	3.23	19.14	3.50		
23	15.53	4.59	14.34	71.11	25.89	171.02	109.13	16.88	6.48	4.59	15.13	5.13		
24	13.54	4.32	11.56	96.14	24.20	182.58	95.33	16.32	6.48	5.94	12.75	5.67		
25	12.75	5.67	9.57	108.25	31.78	187.94	88.04	15.53	6.21	6.21	8.38	6.75		
26	12.35	5.94	8.38	158.86	60.01	195.44	75.62	15.13	5.94	6.21	6.48	8.78		
27	11.56	8.11	7.57	150.87	73.36	197.63	59.27	14.73	5.94	5.67	5.40	6.21		
28	11.16	9.17	7.84	157.84	77.12	194.37	49.38	13.94	5.94	4.86	4.59	5.13		
29	15.92	8.38	7.30	153.82	74.11	198.76	45.46	13.54	5.94	4.32		5.13		
30	19.14	13.54	8.78	139.10	82.37	198.76	42.85	13.14	5.67	3.77		11.95		
31		15.92		125.67	103.85		43.50		5.40	3.23		18.01		
<b>Total</b>	<b>403.70</b>	<b>354.47</b>	<b>587.59</b>	<b>1877.60</b>	<b>1612.29</b>	<b>6116.51</b>	<b>3445.87</b>	<b>852.66</b>	<b>246.18</b>	<b>123.52</b>	<b>164.12</b>	<b>137.76</b>	<b>15922.27</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>13.46</b>	<b>11.43</b>	<b>19.59</b>	<b>60.57</b>	<b>52.01</b>	<b>203.88</b>	<b>111.16</b>	<b>28.42</b>	<b>7.94</b>	<b>3.98</b>	<b>5.86</b>	<b>4.44</b>	<b>43.62</b>	<b>CMS</b>
<b>Max</b>	<b>28.78</b>	<b>31.78</b>	<b>52.65</b>	<b>158.86</b>	<b>118.07</b>	<b>259.05</b>	<b>199.88</b>	<b>68.86</b>	<b>12.35</b>	<b>6.21</b>	<b>19.14</b>	<b>18.01</b>	<b>259.05</b>	<b>CMS</b>
<b>Min</b>	<b>0.57</b>	<b>4.32</b>	<b>4.04</b>	<b>7.30</b>	<b>24.20</b>	<b>119.97</b>	<b>42.85</b>	<b>13.14</b>	<b>5.40</b>	<b>2.75</b>	<b>2.64</b>	<b>2.32</b>	<b>0.57</b>	<b>CMS</b>
<b>Runoff</b>	<b>34.88</b>	<b>30.63</b>	<b>50.77</b>	<b>162.22</b>	<b>139.30</b>	<b>528.47</b>	<b>297.72</b>	<b>73.67</b>	<b>21.27</b>	<b>10.67</b>	<b>14.18</b>	<b>11.90</b>	<b>1375.68</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>275.47 CMS. at 164.69 m. (MSL.) at 07.00 Hours , on Sep 14, 2021</b>													
<b>Runoff Yield</b>	<b>11.87 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>74.96 Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nam Pat at Ban Suan , Uttaradit (N.84)

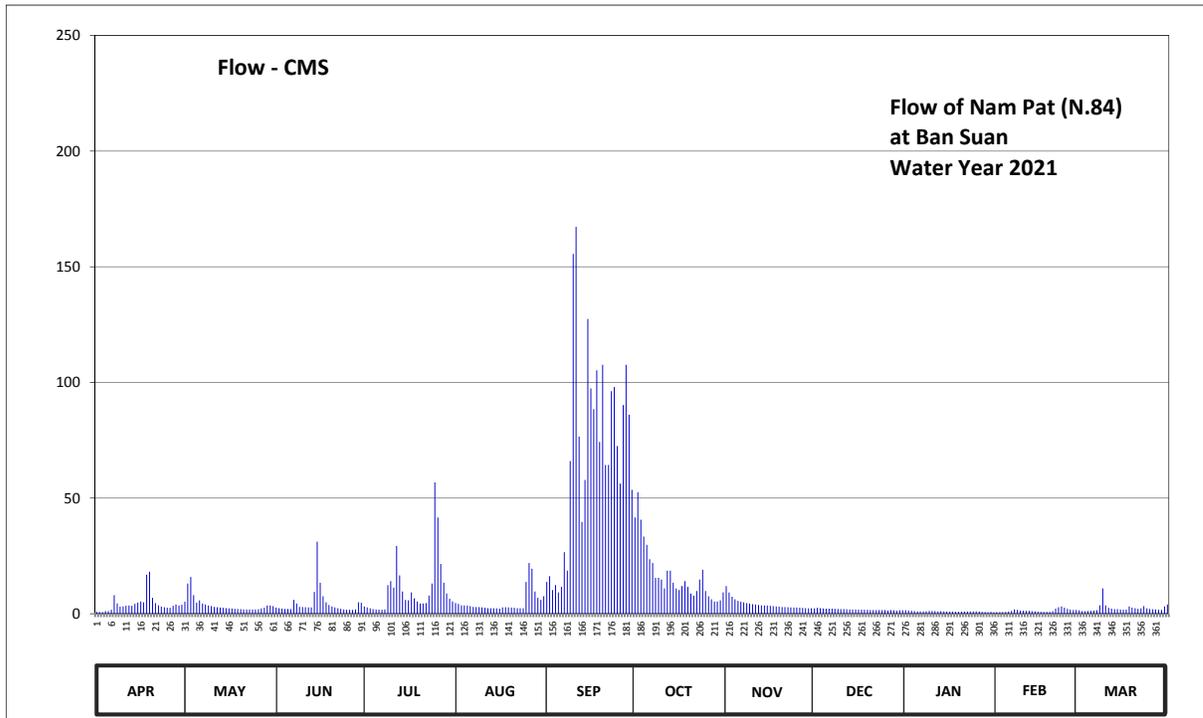
Lat 17 - 44 - 28 N Long 100 - 40 - 45 E

Location : on right bank at Ban Suan.

	<b>Ban Suan</b>	<b>Amphoe Nam Pat</b>	<b>Changwat Uttaradit</b>
<b>Drainage Area</b>	2,204 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+8.842 m. (A.D.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2016 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2016 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2016 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 6 discharge measurements made in 2021.		

## Gage Height in Meter (A.D.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	1.09	0.86	0.92	1.04	1.41	2.05	1.36	0.82	0.70	0.60	0.70	
2	0.60	1.39	0.83	0.87	1.01	1.48	2.26	1.27	0.84	0.69	0.60	0.66	
3	0.59	1.47	0.80	0.82	0.96	1.31	2.03	1.19	0.83	0.68	0.60	0.65	
4	0.66	1.22	0.78	0.77	0.95	1.37	1.88	1.14	0.81	0.66	0.61	0.66	
5	0.66	1.06	0.78	0.75	0.95	1.27	1.80	1.11	0.80	0.64	0.63	0.67	
6	0.73	1.12	0.77	0.74	0.93	1.35	1.66	1.09	0.80	0.64	0.67	0.69	
7	1.22	1.02	1.13	0.73	0.90	1.73	1.62	1.07	0.80	0.64	0.75	0.70	
8	1.03	0.99	1.02	0.75	0.89	1.54	1.46	1.04	0.79	0.65	0.72	0.96	
9	0.91	0.95	0.90	1.37	0.89	2.51	1.46	1.02	0.78	0.67	0.68	1.33	
10	0.92	0.93	0.89	1.42	0.87	4.00	1.44	1.00	0.77	0.67	0.68	0.95	
11	0.94	0.90	0.88	1.34	0.85	4.19	1.33	0.99	0.77	0.66	0.67	0.84	
12	0.95	0.88	0.87	1.79	0.83	2.69	1.54	0.97	0.76	0.64	0.67	0.80	
13	0.94	0.86	0.87	1.49	0.82	2.01	1.54	0.96	0.75	0.65	0.65	0.77	
14	1.01	0.84	1.28	1.29	0.82	2.36	1.40	0.95	0.75	0.64	0.64	0.77	
15	1.06	0.83	1.83	1.13	0.82	3.54	1.33	0.95	0.75	0.63	0.62	0.75	
16	1.10	0.82	1.40	1.12	0.80	3.04	1.31	0.94	0.74	0.62	0.61	0.73	
17	1.07	0.81	1.20	1.27	0.87	2.89	1.36	0.93	0.74	0.62	0.61	0.74	
18	1.50	0.79	1.07	1.16	0.88	3.17	1.42	0.92	0.73	0.61	0.61	0.92	
19	1.53	0.78	0.97	1.10	0.87	2.65	1.35	0.91	0.73	0.61	0.61	0.86	
20	1.17	0.77	0.92	1.02	0.86	3.21	1.25	0.89	0.71	0.62	0.65	0.83	
21	1.04	0.75	0.87	1.03	0.85	2.48	1.21	0.89	0.71	0.63	0.80	0.79	
22	0.96	0.75	0.83	1.04	0.83	2.48	1.30	0.88	0.71	0.63	0.88	0.82	
23	0.91	0.75	0.79	1.21	0.83	3.02	1.44	0.87	0.71	0.63	0.92	0.93	
24	0.88	0.75	0.75	1.39	0.82	3.05	1.55	0.86	0.71	0.64	0.85	0.82	
25	0.85	0.75	0.73	2.34	1.41	2.62	1.30	0.86	0.71	0.64	0.79	0.78	
26	0.84	0.76	0.73	2.05	1.62	2.33	1.20	0.85	0.69	0.63	0.74	0.76	
27	0.94	0.81	0.72	1.61	1.56	2.92	1.14	0.84	0.71	0.61	0.72	0.75	
28	0.99	0.85	0.75	1.40	1.29	3.21	1.10	0.83	0.70	0.60	0.72	0.73	
29	0.95	0.95	1.07	1.25	1.17	2.85	1.10	0.82	0.68	0.59		0.72	
30	0.98	0.95	1.05	1.15	1.13	2.28	1.12	0.83	0.70	0.61		0.92	
31		0.93		1.10	1.20		1.27		0.70	0.59		0.99	
Mean	0.95	0.92	0.94	1.21	0.98	2.50	1.46	0.97	0.75	0.64	0.69	0.81	
Max	1.53	1.47	1.83	2.34	1.62	4.19	2.26	1.36	0.84	0.70	0.92	1.33	4.19
Min	0.59	0.75	0.72	0.73	0.80	1.27	1.10	0.82	0.68	0.59	0.60	0.65	0.59
Annual Max Momentary Gage Height	4.57												at 05.00 Hours , on Sep 11, 2021
Zero Gage at Bottom Elevation	0.00												River Bed -0.05 m. (MSL.)
Left Bank Elevation		8.43											m. (A.D.) ,
Right Bank Elevation		7.18											m. (A.D.) ,
						Drainage Are	2,204						Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.81	5.19	2.66	3.19	4.60	13.75	41.62	11.98	2.36	1.48	0.74	1.48	
2	0.74	13.04	2.43	2.73	4.25	16.22	52.50	9.18	2.51	1.40	0.74	1.18	
3	0.66	15.87	2.21	2.36	3.66	10.21	40.64	7.36	2.43	1.33	0.74	1.11	
4	1.18	8.04	2.07	1.99	3.54	12.34	33.37	6.22	2.29	1.18	0.81	1.18	
5	1.18	4.84	2.07	1.84	3.54	9.18	29.77	5.54	2.21	1.03	0.96	1.25	
6	1.70	5.77	1.99	1.77	3.30	11.63	23.60	5.19	2.21	1.03	1.25	1.40	
7	8.04	4.37	5.99	1.70	2.95	26.62	21.93	4.96	2.21	1.03	1.84	1.48	
8	4.48	4.01	4.37	1.84	2.88	18.60	15.52	4.60	2.14	1.11	1.62	3.66	
9	3.07	3.54	2.95	12.34	2.88	65.99	15.52	4.37	2.07	1.25	1.33	10.92	
10	3.19	3.30	2.88	14.10	2.73	155.52	14.81	4.13	1.99	1.25	1.33	3.54	
11	3.42	2.95	2.80	11.27	2.58	167.23	10.92	4.01	1.99	1.18	1.25	2.51	
12	3.54	2.80	2.73	29.32	2.43	76.59	18.60	3.78	1.92	1.03	1.25	2.21	
13	3.42	2.66	2.73	16.58	2.36	39.66	18.60	3.66	1.84	1.11	1.11	1.99	
14	4.25	2.51	9.41	9.63	2.36	57.85	13.40	3.54	1.84	1.03	1.03	1.99	
15	4.84	2.43	31.12	5.99	2.36	127.42	10.92	3.54	1.84	0.96	0.89	1.84	
16	5.31	2.36	13.40	5.77	2.21	97.40	10.21	3.42	1.77	0.89	0.81	1.70	
17	4.96	2.29	7.59	9.18	2.73	88.41	11.98	3.30	1.77	0.89	0.81	1.77	
18	16.93	2.14	4.96	6.68	2.80	105.20	14.10	3.19	1.70	0.81	0.81	3.19	
19	18.18	2.07	3.78	5.31	2.73	74.24	11.63	3.07	1.70	0.81	0.81	2.66	
20	6.90	1.99	3.19	4.37	2.66	107.60	8.72	2.88	1.55	0.89	1.11	2.43	
21	4.60	1.84	2.73	4.48	2.58	64.32	7.81	2.88	1.55	0.96	2.21	2.14	
22	3.66	1.84	2.43	4.60	2.43	64.32	9.86	2.80	1.55	0.96	2.80	2.36	
23	3.07	1.84	2.14	7.81	2.43	96.20	14.81	2.73	1.55	0.96	3.19	3.30	
24	2.80	1.84	1.84	13.04	2.36	98.00	19.02	2.66	1.55	1.03	2.58	2.36	
25	2.58	1.84	1.70	56.77	13.75	72.47	9.86	2.66	1.55	1.03	2.14	2.07	
26	2.51	1.92	1.70	41.62	21.93	56.23	7.59	2.58	1.40	0.96	1.77	1.92	
27	3.42	2.29	1.62	21.52	19.43	90.20	6.22	2.51	1.55	0.81	1.62	1.84	
28	4.01	2.58	1.84	13.40	9.63	107.60	5.31	2.43	1.48	0.74	1.62	1.70	
29	3.54	3.54	4.96	8.72	6.90	86.05	5.31	2.36	1.33	0.66		1.62	
30	3.89	3.54	4.72	6.45	5.99	53.56	5.77	2.43	1.48	0.81		3.19	
31		3.30		5.31	7.59		9.18		1.48	0.66		4.01	
Total	130.88	118.54	137.01	331.68	154.57	2070.61	519.10	123.96	56.81	31.27	39.17	76.00	3789.60 CMSDAY
Mean	4.36	3.82	4.57	10.70	4.99	69.02	16.75	4.13	1.83	1.01	1.40	2.45	10.38 CMS
Max	18.18	15.87	31.12	56.77	21.93	167.23	52.50	11.98	2.51	1.48	3.19	10.92	167.23 CMS
Min	0.66	1.84	1.62	1.70	2.21	9.18	5.31	2.36	1.33	0.66	0.74	1.11	0.66 CMS
Runoff	11.31	10.24	11.84	28.66	13.35	178.90	44.85	10.71	4.91	2.70	3.38	6.57	327.42 MCM
Momentary Peak	190.83 CMS. at 4.57 m. (MSL.) at 05.00 Hours , on Sep 11, 2021												
Runoff Yield	4.71 Liters/Second/Square KM.			Momentary Peak Yield			86.58 Liters/Second/Square KM.						









## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Phutsa, Sing Buri (C.3)

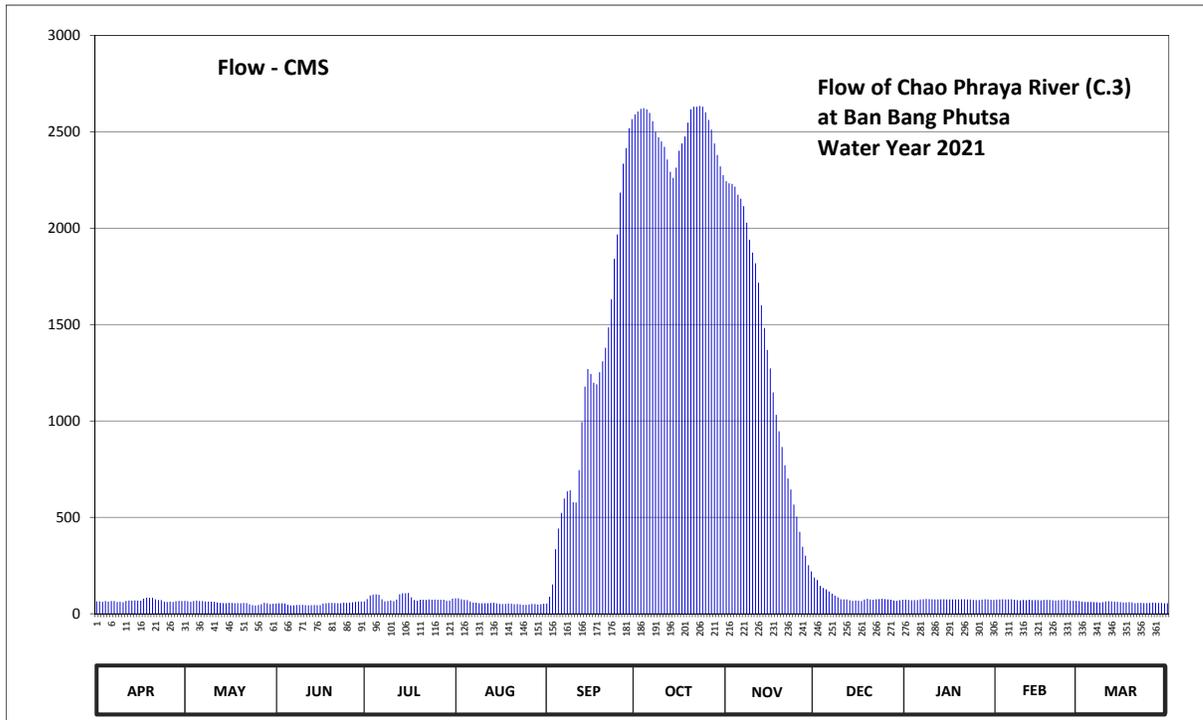
Lat 14 - 53 - 55 N Long 100 - 24 - 07 E

Location : on right bank at Ban Bang Phutsa

	Ban Bang Phutsa	Amphoe Mueang	Changwat Sing Buri
<b>Drainage Area</b>	116,851 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the bridge	<b>Elevation</b>	+11.880 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1950 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1950 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1950 to date		
<b>Stability of Channel Regimes</b>	Fairly stable		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.86	1.90	1.68	1.86	2.08	1.68	12.59	11.61	3.23	1.99	1.99	1.88	
2	1.86	1.87	1.71	2.03	2.08	2.20	12.63	11.58	3.12	1.97	2.00	1.84	
3	1.83	1.83	1.70	2.28	2.02	2.91	12.67	11.57	2.84	1.94	2.01	1.82	
4	1.89	1.88	1.68	2.33	1.97	4.28	12.68	11.53	2.73	1.95	2.00	1.81	
5	1.85	1.92	1.57	2.35	1.96	4.94	12.66	11.41	2.65	1.96	2.00	1.82	
6	1.89	1.89	1.50	2.32	1.85	5.38	12.61	11.35	2.52	2.00	2.01	1.80	
7	1.88	1.88	1.52	2.01	1.76	5.78	12.49	11.24	2.39	2.02	1.98	1.79	
8	1.82	1.85	1.55	1.86	1.76	5.98	12.34	10.99	2.27	2.04	1.96	1.76	
9	1.83	1.85	1.55	1.89	1.71	6.01	12.26	10.73	2.16	2.03	1.93	1.80	
10	1.79	1.84	1.57	1.93	1.70	5.68	12.20	10.53	2.01	2.02	1.97	1.85	
11	1.89	1.83	1.54	1.87	1.71	5.67	12.12	10.36	2.00	2.00	1.94	1.87	
12	1.92	1.77	1.52	1.99	1.71	6.51	11.93	10.05	2.00	2.00	1.98	1.86	
13	1.92	1.74	1.53	2.35	1.73	7.57	11.75	9.68	1.94	2.01	1.96	1.84	
14	1.93	1.72	1.55	2.42	1.75	8.25	11.66	9.29	1.90	2.01	1.95	1.83	
15	1.92	1.71	1.53	2.42	1.69	8.57	11.81	8.91	1.92	2.00	1.95	1.80	
16	1.91	1.75	1.54	2.44	1.65	8.48	12.06	8.58	1.91	2.00	1.93	1.78	
17	2.06	1.73	1.68	2.16	1.64	8.32	12.17	8.14	1.89	2.00	1.97	1.77	
18	2.13	1.70	1.71	1.95	1.65	8.29	12.27	7.71	1.99	2.00	1.97	1.80	
19	2.12	1.72	1.74	1.91	1.69	8.51	12.47	7.38	2.05	2.00	1.97	1.78	
20	2.12	1.71	1.74	1.98	1.66	8.71	12.66	7.04	2.00	2.01	1.94	1.70	
21	2.01	1.73	1.72	1.98	1.62	8.95	12.70	6.62	1.98	2.02	1.92	1.73	
22	1.96	1.72	1.71	1.97	1.64	9.30	12.70	6.31	2.01	2.00	1.94	1.73	
23	1.95	1.61	1.71	2.00	1.61	9.78	12.71	6.03	2.03	2.00	1.96	1.72	
24	1.84	1.53	1.76	1.98	1.57	10.43	12.70	5.61	2.05	1.97	1.97	1.72	
25	1.82	1.51	1.74	1.99	1.56	10.81	12.62	5.27	2.03	1.96	1.95	1.74	
26	1.84	1.55	1.76	1.98	1.60	11.44	12.51	4.84	2.00	1.96	1.92	1.76	
27	1.82	1.63	1.79	1.98	1.65	11.87	12.37	4.36	1.98	1.99	1.91	1.74	
28	1.87	1.75	1.83	1.98	1.64	12.10	12.17	4.07	1.92	2.01	1.90	1.74	
29	1.90	1.70	1.85	1.90	1.60	12.39	12.00	3.72	1.90	2.00		1.73	
30	1.88	1.64	1.85	1.92	1.62	12.52	11.83	3.47	1.94	1.98		1.71	
31		1.67		2.06	1.66		11.70		1.98	1.97		1.70	
Mean	1.91	1.75	1.66	2.07	1.73	7.78	12.32	8.33	2.17	1.99	1.96	1.78	
Max	2.13	1.92	1.85	2.44	2.08	12.52	12.71	11.61	3.23	2.04	2.01	1.88	12.71
Min	1.79	1.51	1.50	1.86	1.56	1.68	11.66	3.47	1.89	1.94	1.90	1.70	1.50
Annual Max Momentary Gage Height	12.72		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed -2.29		m. (MSL.)				
Left Bank Elevation		13.41		m. (MSL.) ,									
Right Bank Elevation		13.72		m. (MSL.) ,			Drainage Are	116,851	Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	64.20	67.00	52.80	64.20	79.60	52.80	2590.40	2243.50	187.90	73.30	73.30	65.60		
2	64.20	64.90	54.60	76.10	79.60	88.00	2604.80	2233.00	175.20	71.90	74.00	62.80		
3	62.10	62.10	54.00	94.80	75.40	152.10	2619.20	2229.50	144.40	69.80	74.70	61.40		
4	66.30	65.60	52.80	99.05	71.90	334.80	2622.80	2215.50	133.70	70.50	74.00	60.70		
5	63.50	68.40	46.35	100.75	71.20	442.50	2615.60	2173.50	126.50	71.20	74.00	61.40		
6	66.30	66.30	42.50	98.20	63.50	523.30	2597.60	2152.50	115.20	74.00	74.70	60.00		
7	65.60	65.60	43.60	74.70	57.60	597.30	2554.40	2114.00	104.15	75.40	72.60	59.40		
8	61.40	63.50	45.25	64.20	57.60	634.30	2500.40	2028.60	93.95	76.80	71.20	57.60		
9	62.10	63.50	45.25	66.30	54.60	640.05	2471.60	1940.20	85.20	76.10	69.10	60.00		
10	59.40	62.80	46.35	69.10	54.00	578.80	2450.00	1873.25	74.70	75.40	71.90	63.50		
11	66.30	62.10	44.70	64.90	54.60	576.95	2422.00	1818.00	74.00	74.00	69.80	64.90		
12	68.40	58.20	43.60	73.30	54.60	744.75	2355.50	1717.25	74.00	74.00	72.60	64.20		
13	68.40	56.40	44.15	100.75	55.80	994.35	2292.50	1600.20	69.80	74.70	71.20	62.80		
14	69.10	55.20	45.25	106.70	57.00	1178.25	2261.00	1482.00	67.00	74.70	70.50	62.10		
15	68.40	54.60	44.15	106.70	53.40	1269.45	2313.50	1368.00	68.40	74.00	70.50	60.00		
16	67.70	57.00	44.70	108.40	51.00	1243.80	2401.00	1272.30	67.70	74.00	69.10	58.80		
17	78.20	55.80	52.80	85.20	50.40	1198.20	2439.50	1147.80	66.30	74.00	71.90	58.20		
18	83.10	54.00	54.60	70.50	51.00	1189.65	2475.20	1031.70	73.30	74.00	71.90	60.00		
19	82.40	55.20	56.40	67.70	53.40	1252.35	2547.20	946.20	77.50	74.00	71.90	58.80		
20	82.40	54.60	56.40	72.60	51.60	1309.35	2615.60	864.60	74.00	74.70	69.80	54.00		
21	74.70	55.80	55.20	72.60	49.20	1380.00	2630.00	769.50	72.60	75.40	68.40	55.80		
22	71.20	55.20	54.60	71.90	50.40	1485.00	2630.00	701.55	74.70	74.00	69.80	55.80		
23	70.50	48.60	54.60	74.00	48.60	1631.70	2633.60	644.15	76.10	74.00	71.20	55.20		
24	62.80	44.15	57.60	72.60	46.35	1840.75	2630.00	565.85	77.50	71.90	71.90	55.20		
25	61.40	43.05	56.40	73.30	45.80	1967.40	2601.20	502.95	76.10	71.20	70.50	56.40		
26	62.80	45.25	57.60	72.60	48.00	2184.00	2561.60	425.00	74.00	71.20	68.40	57.60		
27	61.40	49.80	59.40	72.60	51.00	2334.50	2511.20	347.60	72.60	73.30	67.70	56.40		
28	64.90	57.00	62.10	72.60	50.40	2415.00	2439.50	301.20	68.40	74.70	67.00	56.40		
29	67.00	54.00	63.50	67.00	48.00	2518.40	2380.00	251.60	67.00	74.00		55.80		
30	65.60	50.40	63.50	68.40	49.20	2565.20	2320.50	219.10	69.80	72.60		54.60		
31		52.20		78.20	51.60		2275.00		72.60	71.90		54.00		
<b>Total</b>	<b>2031.80</b>	<b>1768.25</b>	<b>1554.75</b>	<b>2459.95</b>	<b>1736.35</b>	<b>35323.00</b>	<b>77362.40</b>	<b>39180.10</b>	<b>2754.30</b>	<b>2280.70</b>	<b>1993.60</b>	<b>1829.40</b>	<b>170274.60</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>67.73</b>	<b>57.04</b>	<b>51.82</b>	<b>79.35</b>	<b>56.01</b>	<b>1177.43</b>	<b>2495.56</b>	<b>1306.00</b>	<b>88.85</b>	<b>73.57</b>	<b>71.20</b>	<b>59.01</b>	<b>466.51</b>	<b>CMS</b>
<b>Max</b>	<b>83.10</b>	<b>68.40</b>	<b>63.50</b>	<b>108.40</b>	<b>79.60</b>	<b>2565.20</b>	<b>2633.60</b>	<b>2243.50</b>	<b>187.90</b>	<b>76.80</b>	<b>74.70</b>	<b>65.60</b>	<b>2633.60</b>	<b>CMS</b>
<b>Min</b>	<b>59.40</b>	<b>43.05</b>	<b>42.50</b>	<b>64.20</b>	<b>45.80</b>	<b>52.80</b>	<b>2261.00</b>	<b>219.10</b>	<b>66.30</b>	<b>69.80</b>	<b>67.00</b>	<b>54.00</b>	<b>42.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>175.55</b>	<b>152.78</b>	<b>134.33</b>	<b>212.54</b>	<b>150.02</b>	<b>3051.91</b>	<b>6684.11</b>	<b>3385.16</b>	<b>237.97</b>	<b>197.05</b>	<b>172.25</b>	<b>158.06</b>	<b>14711.73</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>2637.20</b>	<b>CMS</b>	<b>at 12.72 m. (MSL.)</b>	<b>at 09.00 Hours</b>	<b>on Oct 23, 2021</b>									
<b>Runoff Yield</b>	<b>3.99</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>22.57</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Kaeo, Ang Thong (C.7A)

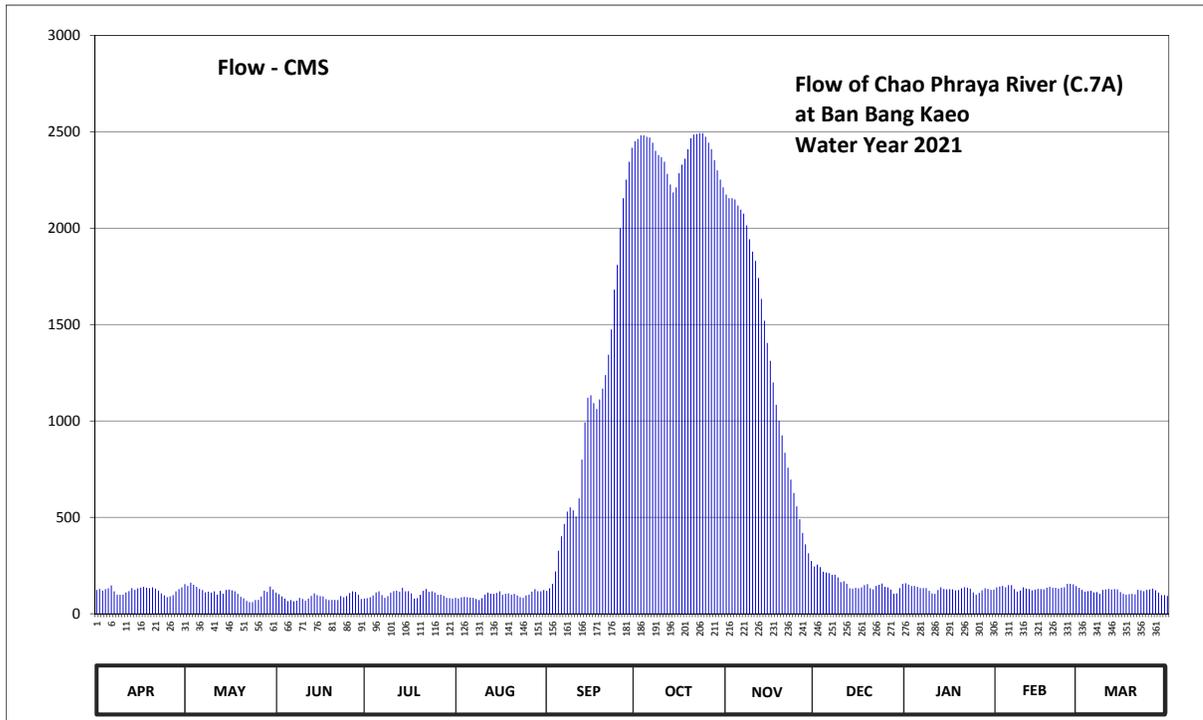
Lat 14 - 35 - 26 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaeo

	<b>Ban</b> Bang Keao	<b>Amphoe</b> Mueang	<b>Changwat</b> Ang Thong
<b>Drainage Area</b>	Flood Plain		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site	<b>Elevation</b>	+8.481 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	1.09	0.75	0.51	0.54	0.82	9.20	8.46	1.70	1.12	0.96	0.94	
2	0.90	1.02	0.69	0.53	0.51	0.92	9.23	8.41	1.76	1.07	0.99	0.86	
3	0.83	1.14	0.60	0.57	0.56	1.10	9.28	8.41	1.68	1.01	1.02	0.79	
4	0.89	1.06	0.51	0.64	0.58	1.53	9.28	8.39	1.52	1.02	0.96	0.81	
5	0.92	0.98	0.41	0.76	0.57	2.15	9.26	8.30	1.49	0.98	1.05	0.82	
6	1.04	0.90	0.45	0.80	0.55	2.51	9.25	8.24	1.47	0.93	1.05	0.76	
7	0.80	0.85	0.40	0.65	0.54	2.80	9.18	8.18	1.41	0.93	0.89	0.77	
8	0.67	0.76	0.43	0.54	0.50	3.08	9.07	8.00	1.42	0.93	0.79	0.70	
9	0.66	0.79	0.54	0.61	0.45	3.18	9.01	7.79	1.32	0.82	0.83	0.86	
10	0.67	0.75	0.50	0.75	0.53	3.11	8.98	7.60	1.16	0.72	0.96	0.88	
11	0.76	0.80	0.43	0.81	0.67	2.97	8.92	7.46	1.19	0.70	0.91	0.90	
12	0.81	0.67	0.51	0.83	0.75	3.37	8.75	7.20	1.10	0.85	0.89	0.87	
13	0.93	0.82	0.62	0.79	0.71	4.17	8.60	6.88	0.92	0.96	0.84	0.89	
14	0.86	0.71	0.72	0.94	0.70	4.86	8.49	6.53	0.91	0.90	0.87	0.88	
15	0.92	0.86	0.65	0.80	0.74	5.28	8.56	6.17	0.94	0.88	0.90	0.77	
16	0.95	0.87	0.61	0.81	0.80	5.32	8.76	5.88	0.92	0.89	0.89	0.70	
17	0.98	0.84	0.60	0.72	0.66	5.19	8.88	5.53	0.96	0.88	0.88	0.67	
18	0.95	0.80	0.49	0.51	0.70	5.09	8.96	5.16	1.05	0.84	0.95	0.69	
19	0.93	0.70	0.45	0.53	0.72	5.25	9.09	4.89	1.09	0.85	0.98	0.70	
20	0.96	0.58	0.46	0.66	0.67	5.43	9.24	4.62	0.92	0.92	0.94	0.68	
21	0.91	0.52	0.46	0.82	0.70	5.65	9.29	4.30	0.88	0.97	0.94	0.86	
22	0.83	0.42	0.45	0.90	0.64	5.98	9.30	4.01	1.02	0.95	0.91	0.84	
23	0.72	0.37	0.61	0.78	0.57	6.39	9.31	3.77	1.06	0.91	0.95	0.81	
24	0.64	0.37	0.56	0.80	0.54	7.02	9.31	3.49	1.11	0.76	0.96	0.86	
25	0.57	0.45	0.61	0.75	0.64	7.40	9.26	3.20	0.98	0.67	1.10	0.88	
26	0.60	0.46	0.73	0.66	0.67	7.96	9.18	2.91	0.96	0.74	1.10	0.91	
27	0.65	0.59	0.80	0.67	0.79	8.41	9.09	2.59	0.87	0.84	1.08	0.84	
28	0.80	0.83	0.78	0.62	0.89	8.67	8.94	2.31	0.71	0.92	1.01	0.75	
29	0.89	0.78	0.66	0.54	0.81	8.92	8.80	2.08	0.72	0.90		0.65	
30	0.96	0.99	0.50	0.53	0.80	9.11	8.67	1.87	0.93	0.86		0.65	
31		0.87		0.51	0.85		8.56		1.10	0.87		0.62	
Mean	0.83	0.76	0.57	0.69	0.66	4.79	9.02	5.75	1.14	0.89	0.95	0.79	
Max	1.04	1.14	0.80	0.94	0.89	9.11	9.31	8.46	1.76	1.12	1.10	0.94	9.31
Min	0.57	0.37	0.40	0.51	0.45	0.82	8.49	1.87	0.71	0.67	0.79	0.62	0.37
Annual Max Momentary Gage Height	9.32												at 24.00 Hours , on Oct 23, 2021
Zero Gage at Bottom Elevation	0.00						River Bed -6.73						m. (MSL.)
Left Bank Elevation		10.04											m. (MSL.)
Right Bank Elevation		9.98					Drainage Area						Square Kilometers



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	122.50	153.70	109.50	78.30	82.20	118.60	2451.00	2174.20	245.00	158.00	136.80	134.20		
2	129.00	144.60	101.70	80.90	78.30	131.60	2462.40	2155.70	255.20	151.10	140.70	123.80		
3	119.90	161.00	90.00	86.10	84.80	155.00	2481.40	2155.70	242.00	143.30	144.60	114.70		
4	127.70	149.80	78.30	95.20	87.40	219.50	2481.40	2148.50	218.00	144.60	136.80	117.30		
5	131.60	139.40	65.30	110.80	86.10	327.00	2473.80	2117.00	213.50	139.40	148.50	118.60		
6	147.20	129.00	70.50	116.00	83.50	402.10	2470.00	2096.00	210.50	132.90	148.50	110.80		
7	116.00	122.50	64.00	96.50	82.20	465.00	2443.40	2075.20	201.50	132.90	127.70	112.10		
8	99.10	110.80	67.90	82.20	77.00	529.40	2401.60	2014.00	203.00	132.90	114.70	103.00		
9	97.80	114.70	82.20	91.30	70.50	552.40	2378.80	1942.60	188.00	118.60	119.90	123.80		
10	99.10	109.50	77.00	109.50	80.90	536.30	2367.40	1878.00	164.00	105.60	136.80	126.40		
11	110.80	116.00	67.90	117.30	99.10	504.10	2344.60	1830.40	168.50	103.00	130.30	129.00		
12	117.30	99.10	78.30	119.90	109.50	597.80	2281.50	1742.00	155.00	122.50	127.70	125.10		
13	132.90	118.60	92.60	114.70	104.30	799.20	2226.00	1633.20	131.60	136.80	121.20	127.70		
14	123.80	104.30	105.60	134.20	103.00	993.00	2185.30	1519.60	130.30	129.00	125.10	126.40		
15	131.60	123.80	96.50	116.00	108.20	1120.80	2211.20	1404.40	134.20	126.40	129.00	112.10		
16	135.50	125.10	91.30	117.30	116.00	1133.20	2285.20	1311.60	131.60	127.70	127.70	103.00		
17	139.40	121.20	90.00	105.60	97.80	1092.90	2329.60	1199.60	136.80	126.40	126.40	99.10		
18	135.50	116.00	75.70	78.30	103.00	1062.00	2359.80	1083.60	148.50	121.20	135.50	101.70		
19	132.90	103.00	70.50	80.90	105.60	1111.50	2409.20	1002.00	153.70	122.50	139.40	103.00		
20	136.80	87.40	71.80	97.80	99.10	1167.60	2466.20	924.60	131.60	131.60	134.20	100.40		
21	130.30	79.60	71.80	118.60	103.00	1238.00	2485.20	835.00	126.40	138.10	134.20	123.80		
22	119.90	66.60	70.50	129.00	95.20	1343.60	2489.00	757.60	144.60	135.50	130.30	121.20		
23	105.60	60.40	91.30	113.40	86.10	1474.80	2492.80	695.20	149.80	130.30	135.50	117.30		
24	95.20	60.40	84.80	116.00	82.20	1680.80	2492.80	626.60	156.50	110.80	136.80	123.80		
25	86.10	70.50	91.30	109.50	95.20	1810.00	2473.80	557.00	139.40	99.10	155.00	126.40		
26	90.00	71.80	106.90	97.80	99.10	2000.40	2443.40	490.30	136.80	108.20	155.00	130.30		
27	96.50	88.70	116.00	99.10	114.70	2155.70	2409.20	418.90	125.10	121.20	152.40	121.20		
28	116.00	119.90	113.40	92.60	127.70	2251.90	2352.20	360.10	104.30	131.60	143.30	109.50		
29	127.70	113.40	97.80	82.20	117.30	2344.60	2300.00	313.20	105.60	129.00		96.50		
30	136.80	140.70	77.00	80.90	116.00	2416.80	2251.90	273.90	132.90	123.80		96.50		
31		125.10		78.30	122.50		2211.20		155.00	125.10		92.60		
Total	3590.50	3446.60	2567.40	3146.20	3017.50	31735.60	73911.30	39735.70	5038.90	3959.10	3794.00	3571.30	177514.10	CMSDAY
Mean	119.68	111.18	85.58	101.49	97.34	1057.85	2384.24	1324.52	162.55	127.71	135.50	115.20	486.34	CMS
Max	147.20	161.00	116.00	134.20	127.70	2416.80	2492.80	2174.20	255.20	158.00	155.00	134.20	2492.80	CMS
Min	86.10	60.40	64.00	78.30	70.50	118.60	2185.30	273.90	104.30	99.10	114.70	92.60	60.40	CMS
Runoff	310.22	297.79	221.82	271.83	260.71	2741.96	6385.94	3433.16	435.36	342.07	327.8	308.56	15337.22	MCM
Momentary Peak	2496.60	CMS.	at 9.32 m. (MSL.)											at 24.00 Hours , on Oct 23, 2021
Runoff Yield	*****	Liters/Second/Square KM.												***** Liters/Second/Square KM.

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

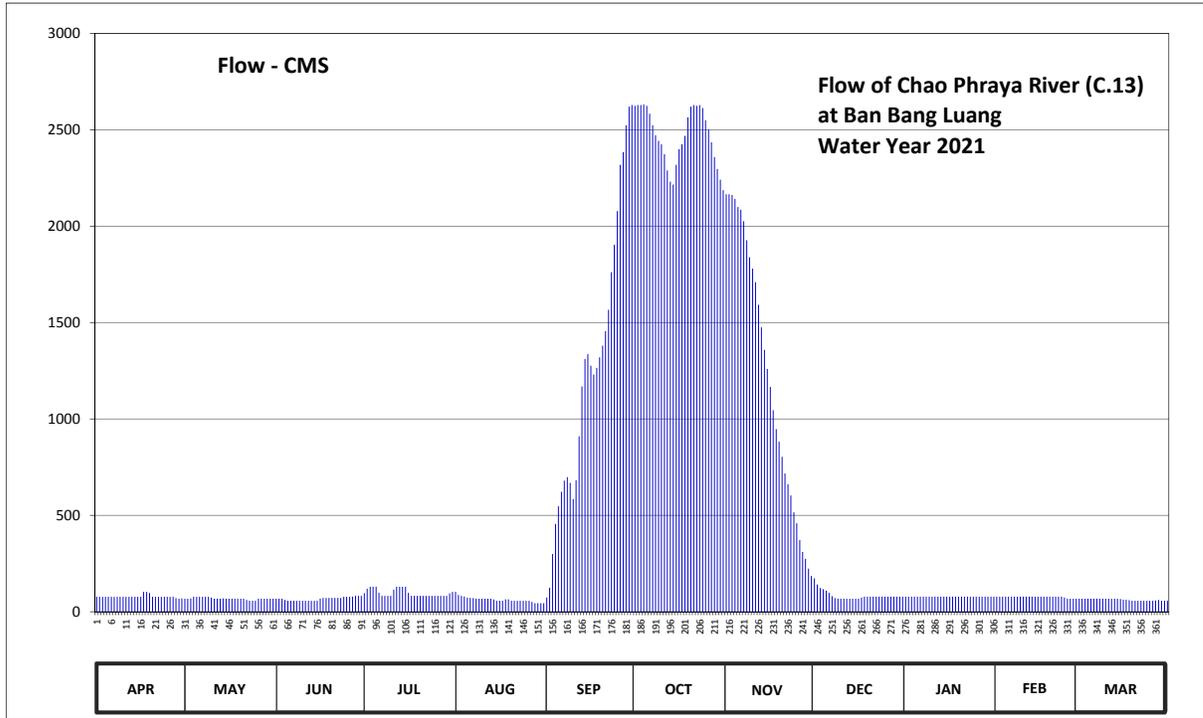
Lat 15 - 09 - 50 N Long 100 - 11 - 17 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

	<b>Ban</b>	<b>Bang Luang</b>	<b>Amphoe</b>	<b>Sanphaya</b>	<b>Changwat</b>	<b>Chai Nat</b>
<b>Drainage Area</b>	116,801 sq.km.					
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	B.M.2 - on right bank about 400 meters from the B.M.1				<b>Elevation</b>	+18.200 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1947 to date.					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1953 - 1962, 1965 - 1968, 1972 - 1975 to date.					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1953 - 1962, 1965 - 1968, 1972 - 1975 to date.					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 46 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

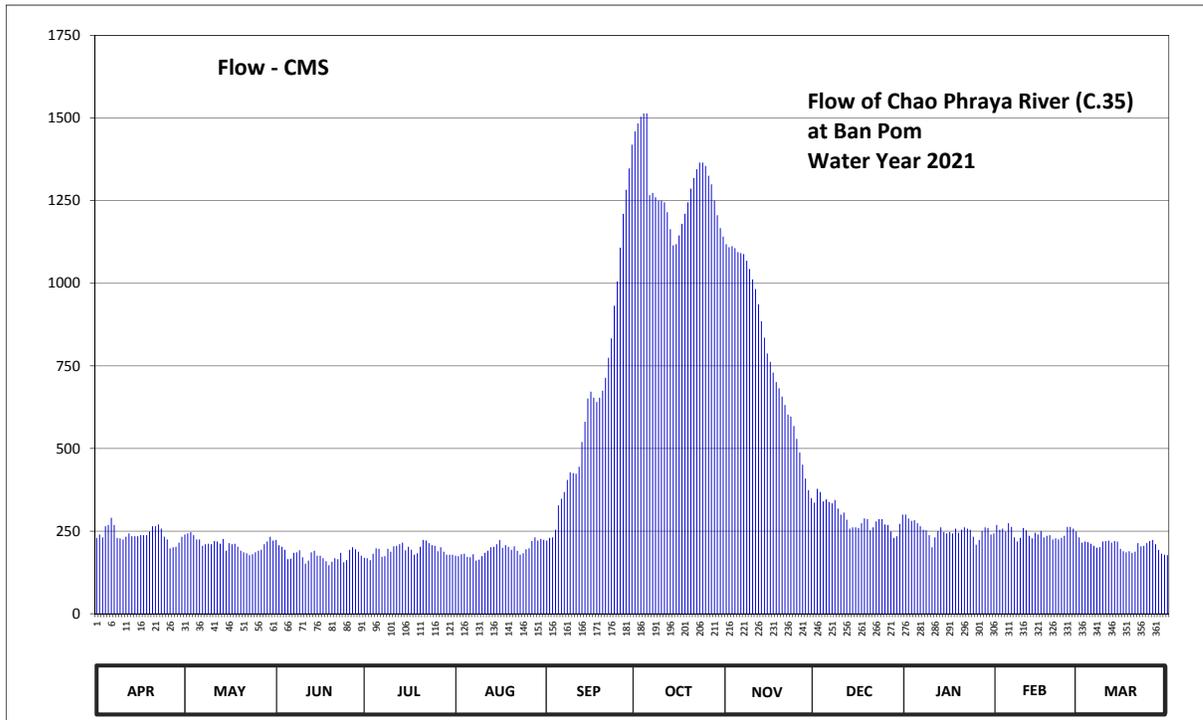
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.54	5.44	5.44	5.72	5.78	5.50	16.18	14.93	6.39	5.55	5.55	5.44	
2	5.54	5.44	5.44	5.94	5.63	5.99	16.19	14.93	6.12	5.55	5.55	5.44	
3	5.54	5.46	5.44	6.03	5.59	7.32	16.19	14.92	5.97	5.55	5.55	5.44	
4	5.54	5.54	5.36	6.03	5.56	8.30	16.20	14.86	5.92	5.55	5.55	5.44	
5	5.54	5.54	5.31	6.03	5.50	8.81	16.18	14.74	5.84	5.55	5.55	5.44	
6	5.54	5.54	5.31	5.74	5.49	9.21	16.07	14.70	5.74	5.55	5.55	5.44	
7	5.54	5.54	5.31	5.59	5.48	9.51	15.91	14.53	5.57	5.55	5.55	5.44	
8	5.54	5.54	5.31	5.59	5.44	9.60	15.77	14.24	5.48	5.55	5.55	5.44	
9	5.54	5.54	5.31	5.59	5.44	9.45	15.69	13.98	5.44	5.55	5.55	5.44	
10	5.54	5.50	5.31	5.59	5.44	9.01	15.64	13.80	5.44	5.55	5.55	5.44	
11	5.54	5.44	5.31	5.89	5.44	9.52	15.50	13.58	5.44	5.55	5.55	5.44	
12	5.54	5.44	5.31	6.03	5.44	10.61	15.27	13.21	5.44	5.55	5.55	5.44	
13	5.54	5.44	5.31	6.03	5.44	11.71	15.11	12.83	5.44	5.55	5.55	5.44	
14	5.54	5.46	5.31	6.03	5.39	12.25	15.07	12.42	5.44	5.55	5.55	5.44	
15	5.54	5.44	5.31	6.03	5.31	12.34	15.35	12.06	5.44	5.55	5.55	5.42	
16	5.54	5.44	5.45	5.74	5.31	12.12	15.57	11.70	5.44	5.55	5.55	5.38	
17	5.78	5.44	5.49	5.59	5.31	11.95	15.64	11.21	5.50	5.55	5.55	5.38	
18	5.78	5.44	5.49	5.59	5.40	12.08	15.76	10.78	5.55	5.55	5.55	5.35	
19	5.73	5.44	5.49	5.59	5.40	12.28	16.02	10.48	5.55	5.55	5.55	5.31	
20	5.54	5.44	5.49	5.59	5.31	12.50	16.17	10.11	5.55	5.55	5.55	5.31	
21	5.54	5.44	5.49	5.59	5.31	12.76	16.19	9.69	5.55	5.55	5.55	5.31	
22	5.54	5.36	5.49	5.59	5.31	13.13	16.18	9.41	5.55	5.55	5.55	5.31	
23	5.54	5.31	5.49	5.59	5.31	13.74	16.19	9.11	5.55	5.55	5.55	5.31	
24	5.54	5.31	5.54	5.59	5.31	14.17	16.15	8.64	5.55	5.55	5.50	5.31	
25	5.54	5.31	5.54	5.59	5.31	14.68	15.98	8.32	5.55	5.55	5.44	5.31	
26	5.54	5.44	5.54	5.59	5.31	15.35	15.85	7.79	5.55	5.55	5.44	5.31	
27	5.54	5.44	5.55	5.59	5.25	15.53	15.67	7.39	5.55	5.55	5.44	5.33	
28	5.48	5.44	5.59	5.59	5.17	15.91	15.46	7.15	5.55	5.55	5.44	5.36	
29	5.44	5.44	5.59	5.59	5.17	16.17	15.29	6.78	5.55	5.55		5.31	
30	5.46	5.44	5.59	5.71	5.17	16.19	15.14	6.49	5.55	5.55		5.31	
31		5.44		5.78	5.17		14.99		5.55	5.55		5.31	
Mean	5.55	5.45	5.43	5.73	5.38	11.59	15.76	11.49	5.60	5.55	5.53	5.38	
Max	5.78	5.54	5.59	6.03	5.78	16.19	16.20	14.93	6.39	5.55	5.55	5.44	16.20
Min	5.44	5.31	5.31	5.59	5.17	5.50	14.99	6.49	5.44	5.55	5.44	5.31	5.17
Annual Max Momentary Gage Height	16.25		m. (MSL.) ,				at 04.00 Hours ,						on Oct 1, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.08	m. (MSL.)					
Left Bank Elevation		17.52	m. (MSL.) ,										
Right Bank Elevation		18.20	m. (MSL.) ,			Drainage Are	116,801	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	77.24	67.84	67.84	96.32	102.68	73.00	2624.04	2165.50	173.58	78.30	78.30	67.84		
2	77.24	67.84	67.84	119.64	86.78	124.94	2627.82	2165.50	140.64	78.30	78.30	67.84		
3	77.24	69.56	67.84	129.66	82.54	299.72	2627.82	2162.00	122.82	78.30	78.30	67.84		
4	77.24	77.24	60.96	129.66	79.36	455.60	2631.60	2141.00	117.52	78.30	78.30	67.84		
5	77.24	77.24	56.66	129.66	73.00	547.04	2624.04	2099.00	109.04	78.30	78.30	67.84		
6	77.24	77.24	56.66	98.44	72.14	622.32	2582.46	2085.00	98.44	78.30	78.30	67.84		
7	77.24	77.24	56.66	82.54	71.28	680.04	2523.06	2025.50	80.42	78.30	78.30	67.84		
8	77.24	77.24	56.66	82.54	67.84	698.40	2471.82	1926.60	71.28	78.30	78.30	67.84		
9	77.24	77.24	56.66	82.54	67.84	668.40	2442.54	1838.52	67.84	78.30	78.30	67.84		
10	77.24	73.00	56.66	82.54	67.84	583.92	2424.24	1780.20	67.84	78.30	78.30	67.84		
11	77.24	67.84	56.66	114.34	67.84	682.08	2373.00	1708.92	67.84	78.30	78.30	67.84		
12	77.24	67.84	56.66	129.66	67.84	909.98	2288.82	1591.36	67.84	78.30	78.30	67.84		
13	77.24	67.84	56.66	129.66	67.84	1168.76	2230.26	1475.70	67.84	78.30	78.30	67.84		
14	77.24	69.56	56.66	129.66	63.54	1311.50	2215.62	1358.08	67.84	78.30	78.30	67.84		
15	77.24	67.84	56.66	129.66	56.66	1336.16	2318.10	1259.44	67.84	78.30	78.30	66.12		
16	77.24	67.84	68.70	98.44	56.66	1275.88	2398.62	1166.20	67.84	78.30	78.30	62.68		
17	102.68	67.84	72.14	82.54	56.66	1230.20	2424.24	1045.40	73.00	78.30	78.30	62.68		
18	102.68	67.84	72.14	82.54	64.40	1264.92	2468.16	947.04	78.30	78.30	78.30	60.10		
19	97.38	67.84	72.14	82.54	64.40	1319.72	2563.56	881.76	78.30	78.30	78.30	56.66		
20	77.24	67.84	72.14	82.54	56.66	1380.00	2620.26	803.32	78.30	78.30	78.30	56.66		
21	77.24	67.84	72.14	82.54	56.66	1455.40	2627.82	716.76	78.30	78.30	78.30	56.66		
22	77.24	60.96	72.14	82.54	56.66	1566.08	2624.04	660.72	78.30	78.30	78.30	56.66		
23	77.24	56.66	72.14	82.54	56.66	1760.76	2627.82	603.12	78.30	78.30	78.30	56.66		
24	77.24	56.66	77.24	82.54	56.66	1902.80	2612.70	515.76	78.30	78.30	73.00	56.66		
25	77.24	56.66	77.24	82.54	56.66	2078.00	2548.68	459.04	78.30	78.30	67.84	56.66		
26	77.24	67.84	77.24	82.54	56.66	2318.10	2501.10	371.24	78.30	78.30	67.84	56.66		
27	77.24	67.84	78.30	82.54	51.50	2383.98	2435.22	309.94	78.30	78.30	67.84	58.38		
28	71.28	67.84	82.54	82.54	44.62	2523.06	2358.36	274.90	78.30	78.30	67.84	60.96		
29	67.84	67.84	82.54	82.54	44.62	2620.26	2296.14	223.96	78.30	78.30		56.66		
30	69.56	67.84	82.54	95.26	44.62	2627.82	2241.24	185.78	78.30	78.30		56.66		
31		67.84		102.68	44.62		2186.50		78.30	78.30		56.66		
<b>Total</b>	2365.18	2127.62	2019.06	3035.92	1963.74	37868.84	76539.70	36947.26	2625.66	2427.30	2145.26	1943.94	172009.48	CMSDAY
<b>Mean</b>	78.84	68.63	67.30	97.93	63.35	1262.29	2469.02	1231.58	84.70	78.30	76.62	62.71	471.26	CMS
<b>Max</b>	102.68	77.24	82.54	129.66	102.68	2627.82	2631.60	2165.50	173.58	78.30	78.30	67.84	2631.60	CMS
<b>Min</b>	67.84	56.66	56.66	82.54	44.62	73.00	2186.50	185.78	67.84	78.30	67.84	56.66	44.62	CMS
<b>Runoff</b>	204.35	183.83	174.45	262.30	169.67	3271.87	6613.03	3192.24	226.86	209.72	185.35	167.96	14861.62	MCM
<b>Momentary Peak</b>	2650.50 CMS. at 16.25 m. (MSL.) at 04.00 Hours , on Oct 1, 2021													
<b>Runoff Yield</b>	4.03 Liters/Second/Square KM.			Momentary Peak Yield				22.69 Liters/Second/Square KM.						

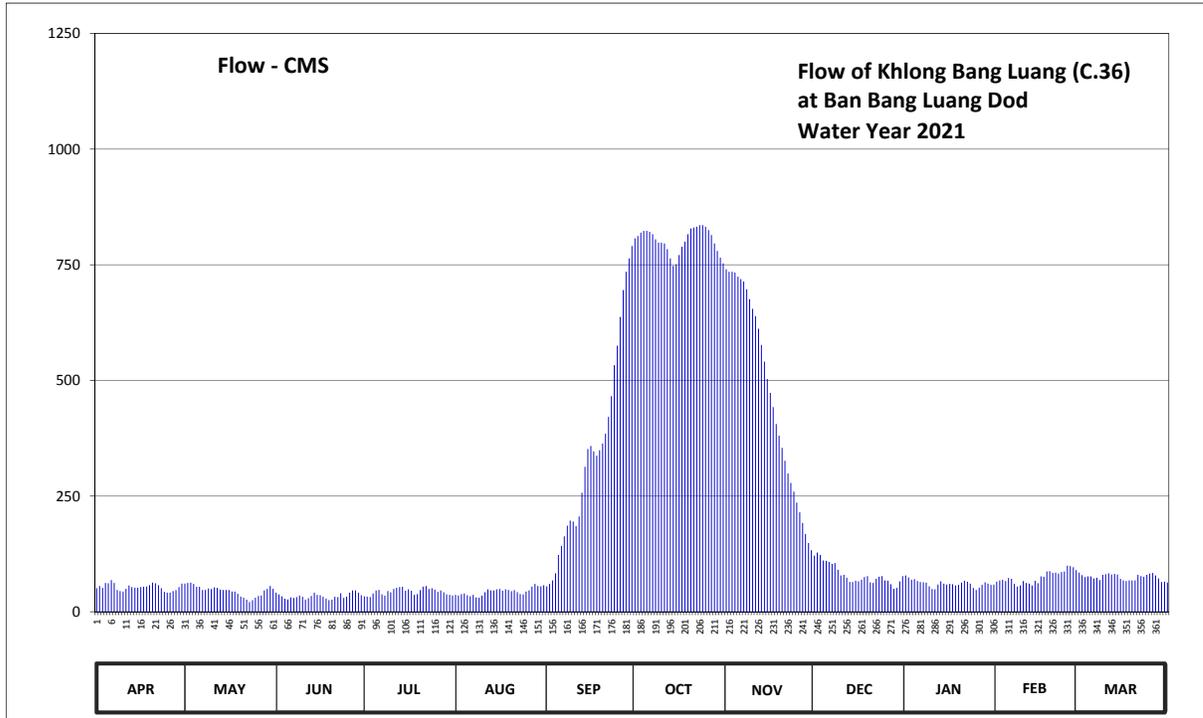




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	229.60	239.60	223.20	169.50	175.50	221.60	1459.60	1118.00	336.00	300.00	268.40	231.20		
2	239.60	243.20	207.20	168.00	174.00	229.60	1483.40	1109.00	378.00	288.20	254.00	215.20		
3	231.20	246.80	202.50	162.00	180.00	231.20	1503.80	1112.00	368.00	281.00	257.60	218.40		
4	264.80	237.80	193.50	181.50	181.50	254.00	1514.00	1106.00	340.00	282.80	248.60	216.80		
5	268.40	224.80	165.00	198.00	172.50	328.00	1514.00	1094.20	346.00	273.80	273.80	212.00		
6	290.00	224.80	166.50	196.50	171.00	348.00	1266.50	1091.30	338.00	264.80	263.00	205.60		
7	268.40	205.60	184.50	172.50	180.00	368.00	1273.00	1088.40	334.00	254.00	231.20	199.50		
8	229.60	210.40	186.00	174.00	160.50	404.70	1260.00	1068.20	344.00	252.20	218.40	201.00		
9	228.00	212.00	192.00	196.50	163.50	427.80	1250.00	1043.00	318.00	237.80	229.60	218.40		
10	224.80	210.40	171.00	187.50	174.00	425.70	1250.00	1011.80	300.00	201.00	259.40	220.00		
11	232.80	220.00	151.50	204.00	184.50	423.60	1245.00	982.20	306.00	231.20	252.20	221.60		
12	243.20	218.40	160.50	205.60	190.50	444.60	1215.00	936.00	284.60	250.40	236.00	215.20		
13	234.40	212.00	186.00	210.40	201.00	519.70	1163.30	885.00	257.60	261.20	228.00	220.00		
14	234.40	226.40	190.50	215.20	202.50	581.00	1115.00	835.00	261.20	246.80	245.00	218.40		
15	234.40	190.50	175.50	192.00	210.40	651.20	1118.00	787.70	261.20	243.20	239.60	196.50		
16	237.80	213.60	175.50	202.50	223.20	672.00	1144.80	762.20	259.40	246.80	250.40	189.00		
17	237.80	210.40	168.00	193.50	199.50	653.80	1179.90	729.90	273.80	243.20	231.20	186.00		
18	237.80	212.00	159.00	178.50	207.20	640.80	1210.00	701.00	288.20	257.60	236.00	189.00		
19	248.60	202.50	147.00	183.00	202.50	653.80	1245.00	682.30	286.40	245.00	237.80	184.50		
20	264.80	190.50	157.50	202.50	193.50	674.60	1286.00	656.80	252.20	254.00	224.80	187.50		
21	264.80	186.00	168.00	223.20	204.00	713.60	1318.50	631.30	261.20	261.20	228.00	213.60		
22	270.20	183.00	165.00	221.60	190.50	774.40	1345.00	602.40	279.20	257.60	224.80	204.00		
23	257.60	177.00	184.50	213.60	178.50	833.20	1365.00	596.60	286.40	254.00	229.60	205.60		
24	232.80	180.00	156.00	207.20	183.00	932.00	1365.00	568.00	286.40	232.80	236.00	213.60		
25	224.80	186.00	162.00	205.60	195.00	1005.60	1355.00	528.90	270.20	208.80	263.00	220.00		
26	198.00	190.50	193.50	189.00	198.00	1107.60	1325.00	487.50	268.40	223.20	263.00	223.20		
27	201.00	193.50	201.00	201.00	220.00	1210.00	1299.00	450.90	248.60	250.40	257.60	210.40		
28	202.50	210.40	195.00	187.50	231.20	1282.80	1250.00	408.90	229.60	261.20	248.60	193.50		
29	215.20	218.40	187.50	178.50	221.60	1347.40	1205.70	374.00	234.40	259.40		181.50		
30	232.80	232.80	175.50	178.50	226.40	1418.80	1167.00	350.00	272.00	239.60		178.50		
31		221.60		178.50	223.20		1141.10		300.00	243.20		177.00		
<b>Total</b>	<b>7180.10</b>	<b>6530.90</b>	<b>5350.40</b>	<b>5977.40</b>	<b>6018.70</b>	<b>19779.10</b>	<b>39832.60</b>	<b>23798.50</b>	<b>9069.00</b>	<b>7806.40</b>	<b>6835.60</b>	<b>6366.70</b>	<b>144545.40</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>239.34</b>	<b>210.67</b>	<b>178.35</b>	<b>192.82</b>	<b>194.15</b>	<b>659.30</b>	<b>1284.92</b>	<b>793.28</b>	<b>292.55</b>	<b>251.82</b>	<b>244.13</b>	<b>205.38</b>	<b>396.01</b>	<b>CMS</b>
<b>Max</b>	<b>290.00</b>	<b>246.80</b>	<b>223.20</b>	<b>223.20</b>	<b>231.20</b>	<b>1418.80</b>	<b>1514.00</b>	<b>1118.00</b>	<b>378.00</b>	<b>300.00</b>	<b>273.80</b>	<b>231.20</b>	<b>1514.00</b>	<b>CMS</b>
<b>Min</b>	<b>198.00</b>	<b>177.00</b>	<b>147.00</b>	<b>162.00</b>	<b>160.50</b>	<b>221.60</b>	<b>1115.00</b>	<b>350.00</b>	<b>229.60</b>	<b>201.00</b>	<b>218.40</b>	<b>177.00</b>	<b>147.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>620.36</b>	<b>564.27</b>	<b>462.27</b>	<b>516.45</b>	<b>520.02</b>	<b>1708.91</b>	<b>3441.54</b>	<b>2056.19</b>	<b>783.56</b>	<b>674.47</b>	<b>590.60</b>	<b>550.08</b>	<b>12488.72</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1385.00 CMS. at 5.66 m. (MSL.) at 17.00 Hours , on Oct 23, 2021</b>													
<b>Runoff Yield</b>	<b>***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.</b>													

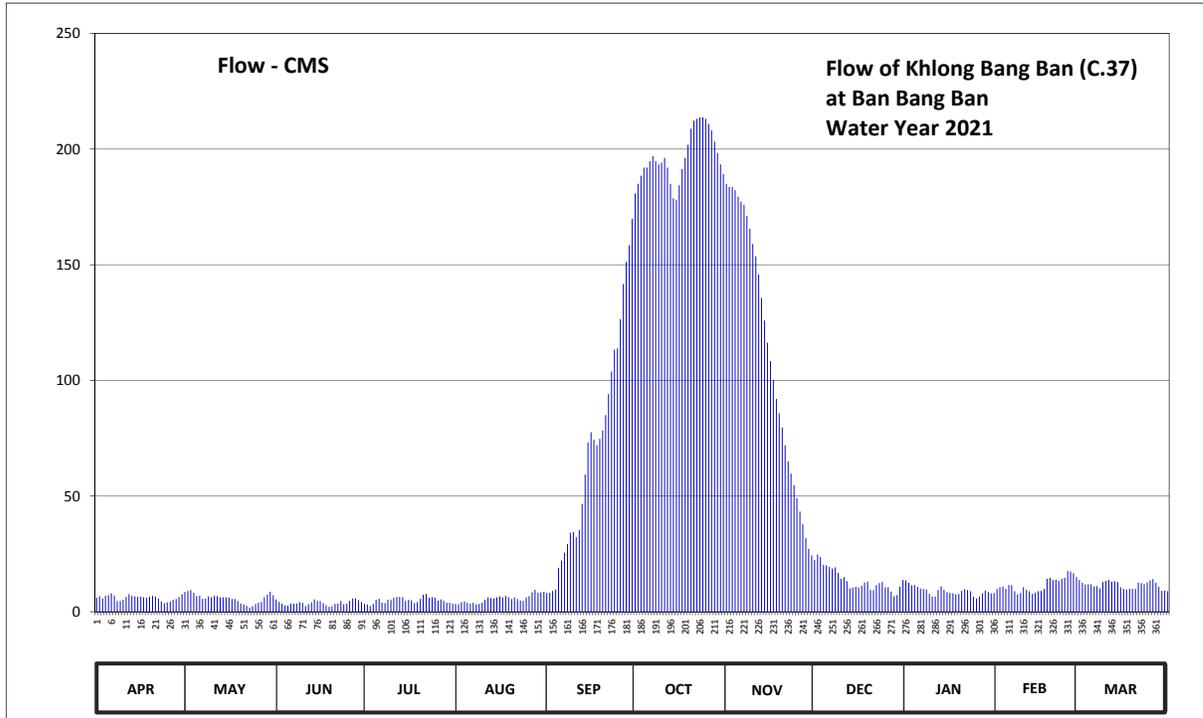




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	50.80	60.80	41.20	33.40	36.40	55.00	806.80	740.20	121.20	78.30	65.00	84.60		
2	55.60	62.20	37.60	32.80	35.20	60.10	812.20	734.80	127.80	74.10	67.80	79.00		
3	51.40	62.90	33.40	31.60	38.20	67.80	819.40	734.80	122.80	69.20	69.20	74.80		
4	62.20	60.10	28.00	39.40	39.40	83.20	823.00	733.00	110.80	70.60	66.40	76.20		
5	61.50	53.80	26.50	46.00	35.80	122.80	823.00	724.00	110.00	66.40	72.70	76.20		
6	68.50	53.80	31.00	47.20	33.40	142.20	821.20	718.90	107.60	64.30	71.30	72.00		
7	62.20	47.20	29.80	37.60	36.40	163.00	815.80	713.80	103.60	63.60	60.10	73.40		
8	47.20	47.20	31.60	34.60	31.00	186.00	805.00	696.80	105.20	62.90	54.40	68.50		
9	44.80	50.20	35.20	44.80	30.40	197.00	797.80	675.60	90.80	55.00	56.80	79.70		
10	43.60	49.00	32.20	41.80	34.60	195.00	797.80	654.80	78.30	49.00	66.40	81.10		
11	49.60	52.60	26.00	49.00	42.40	185.00	796.00	638.80	79.70	48.40	62.20	83.20		
12	56.80	51.40	29.20	51.40	48.40	206.00	783.40	611.60	73.40	58.70	60.80	80.40		
13	53.20	47.80	34.00	53.20	46.00	257.30	763.60	576.50	64.30	65.70	56.80	81.80		
14	52.00	47.20	41.20	53.80	46.00	313.20	747.40	540.50	64.30	60.80	67.10	80.40		
15	52.00	47.20	36.40	45.40	48.40	351.60	751.00	503.00	67.10	58.70	61.50	71.30		
16	53.20	47.20	35.80	48.40	49.00	358.10	770.80	473.00	65.70	60.10	76.20	67.80		
17	53.80	43.60	32.20	45.40	45.40	346.40	788.80	442.20	69.20	59.40	75.50	66.40		
18	54.40	43.60	28.60	36.40	48.40	337.30	799.60	405.80	74.80	56.80	86.80	67.80		
19	57.40	38.80	25.00	38.20	47.20	349.00	815.80	380.60	76.90	58.00	87.60	67.80		
20	62.90	32.80	26.00	46.60	44.20	363.30	828.40	354.20	63.60	62.90	83.90	67.80		
21	61.50	30.40	32.20	54.40	46.60	384.80	830.20	326.40	62.20	67.10	84.60	79.70		
22	57.40	26.00	31.60	55.60	42.40	421.20	832.00	298.80	71.30	65.00	82.50	76.90		
23	50.80	21.00	40.00	49.00	38.20	466.00	835.60	278.40	75.50	60.80	86.00	75.50		
24	43.00	25.00	29.80	50.80	37.60	533.00	835.60	259.50	76.90	51.40	86.80	79.70		
25	41.20	30.40	32.80	47.80	43.60	575.00	832.00	236.00	67.80	47.20	99.60	82.50		
26	41.20	34.00	41.20	43.00	46.00	637.20	824.80	215.00	67.10	52.00	98.80	83.90		
27	44.80	35.20	46.00	46.00	54.40	695.10	814.00	192.00	59.40	58.00	96.40	78.30		
28	46.60	46.00	46.00	41.80	60.10	734.80	796.00	168.00	49.60	63.60	90.00	72.00		
29	53.20	49.00	41.20	37.60	55.60	763.60	779.80	148.50	51.40	60.80		64.30		
30	60.80	55.60	35.80	36.40	55.00	790.60	765.40	133.20	65.70	58.00		65.00		
31		49.60		35.20	57.40		752.80		76.90	58.70		62.90		
<b>Total</b>	<b>1593.60</b>	<b>1401.60</b>	<b>1017.50</b>	<b>1354.60</b>	<b>1353.10</b>	<b>10340.60</b>	<b>24865.00</b>	<b>14308.70</b>	<b>2500.90</b>	<b>1885.50</b>	<b>2093.20</b>	<b>2320.90</b>	<b>65035.20</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>53.12</b>	<b>45.21</b>	<b>33.92</b>	<b>43.70</b>	<b>43.65</b>	<b>344.69</b>	<b>802.10</b>	<b>476.96</b>	<b>80.67</b>	<b>60.82</b>	<b>74.76</b>	<b>74.87</b>	<b>178.18</b>	<b>CMS</b>
<b>Max</b>	<b>68.50</b>	<b>62.90</b>	<b>46.00</b>	<b>55.60</b>	<b>60.10</b>	<b>790.60</b>	<b>835.60</b>	<b>740.20</b>	<b>127.80</b>	<b>78.30</b>	<b>99.60</b>	<b>84.60</b>	<b>835.60</b>	<b>CMS</b>
<b>Min</b>	<b>41.20</b>	<b>21.00</b>	<b>25.00</b>	<b>31.60</b>	<b>30.40</b>	<b>55.00</b>	<b>747.40</b>	<b>133.20</b>	<b>49.60</b>	<b>47.20</b>	<b>54.40</b>	<b>62.90</b>	<b>21.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>137.69</b>	<b>121.10</b>	<b>87.91</b>	<b>117.04</b>	<b>116.91</b>	<b>893.43</b>	<b>2148.34</b>	<b>1236.27</b>	<b>216.08</b>	<b>162.91</b>	<b>180.85</b>	<b>200.53</b>	<b>5619.04</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>837.40</b>	<b>CMS.</b>	<b>at 6.53 m. (MSL.)</b>	<b>at 14.00 Hours</b>	<b>on Oct 23, 2021</b>									
<b>Runoff Yield</b>	<b>*****</b>	<b>Liters/Second/Square KM.</b>	<b>Momentary Peak Yield</b>		<b>*****</b>	<b>Liters/Second/Square KM.</b>								





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.04	8.52	5.36	3.36	3.36	8.08	180.80	185.00	22.36	13.54	9.80	13.72		
2	6.76	9.00	4.26	3.12	3.20	8.20	185.00	183.60	24.78	12.52	10.60	12.52		
3	5.80	9.32	3.52	2.56	4.15	9.00	188.50	183.60	23.68	11.40	10.92	11.72		
4	6.88	8.20	2.72	3.44	4.37	9.64	192.00	182.20	20.20	11.56	9.96	11.88		
5	7.12	6.76	2.64	5.25	3.82	19.00	192.00	179.40	20.00	10.76	11.56	11.88		
6	7.96	6.88	3.60	5.58	3.44	22.14	194.80	177.30	19.40	9.96	11.40	10.92		
7	7.00	5.58	3.52	3.93	3.82	25.50	196.90	175.90	18.60	9.80	8.84	11.08		
8	4.59	5.69	3.60	3.71	3.20	29.25	194.80	171.00	19.20	9.64	7.48	10.12		
9	4.59	6.64	4.15	5.25	3.28	34.18	193.40	165.60	16.80	7.72	8.08	12.84		
10	5.14	6.28	3.82	5.14	3.82	34.46	194.10	159.00	14.26	6.52	10.60	13.36		
11	6.40	6.88	2.48	6.04	5.14	32.25	196.20	153.60	14.98	6.52	9.48	13.72		
12	7.60	6.76	3.28	6.40	6.28	35.30	192.00	145.80	13.18	9.32	8.84	13.00		
13	6.88	6.16	4.04	6.40	5.92	46.60	185.00	135.60	10.12	10.92	7.72	13.18		
14	6.64	6.16	5.36	6.28	5.80	59.37	178.70	125.88	10.44	9.48	8.20	12.84		
15	6.40	6.16	4.70	4.70	6.28	73.16	178.00	116.30	10.76	8.52	8.84	10.60		
16	6.52	6.16	4.59	5.14	6.64	77.58	184.30	108.30	10.44	8.08	9.00	9.80		
17	6.28	5.47	3.71	4.92	6.16	74.30	191.30	100.20	11.24	7.96	9.80	9.64		
18	6.04	5.47	2.80	3.71	6.88	72.02	196.20	91.99	12.68	7.48	14.26	9.96		
19	6.52	4.59	2.16	4.15	6.28	74.71	201.80	85.78	13.00	7.72	14.62	9.80		
20	6.88	3.52	2.32	5.58	5.47	78.40	208.80	79.63	9.48	9.00	13.72	9.80		
21	6.52	3.12	3.36	7.36	6.16	84.96	212.30	72.02	9.32	9.80	13.90	12.68		
22	5.69	2.56	3.52	7.72	5.47	94.14	213.00	64.95	11.56	9.32	13.36	12.36		
23	4.48	1.80	4.70	6.04	4.81	103.80	213.70	59.70	12.36	8.84	14.26	11.88		
24	3.71	2.40	3.28	6.28	4.70	113.30	213.70	54.75	12.84	6.52	14.62	12.68		
25	4.04	3.28	3.52	6.04	6.16	113.80	213.00	49.07	10.60	5.69	17.60	13.54		
26	4.48	3.93	4.70	4.81	6.76	126.40	210.90	43.30	10.60	6.52	17.40	14.08		
27	5.14	4.26	5.80	5.36	8.36	141.60	208.10	37.82	8.68	7.96	16.60	12.52		
28	5.47	6.28	5.80	4.70	9.48	151.20	203.20	31.75	6.64	9.16	14.98	10.76		
29	6.40	7.36	5.03	3.93	8.20	158.40	198.30	27.25	7.12	8.52		9.00		
30	7.60	8.68	4.26	3.82	8.36	169.80	193.40	24.34	10.76	7.84		9.16		
31		7.12		3.52	8.68		189.20		13.72	8.08		8.84		
Total	181.57	180.99	116.60	154.24	174.45	2080.54	6093.40	3370.63	429.80	276.67	326.44	359.88	13745.21	CMSDAY
Mean	6.05	5.84	3.89	4.98	5.63	69.35	196.56	112.35	13.86	8.92	11.66	11.61	37.66	CMS
Max	7.96	9.32	5.80	7.72	9.48	169.80	213.70	185.00	24.78	13.54	17.60	14.08	213.70	CMS
Min	3.71	1.80	2.16	2.56	3.20	8.08	178.00	24.34	6.64	5.69	7.48	8.84	1.80	CMS
Runoff	15.69	15.64	10.07	13.33	15.07	179.76	526.47	291.22	37.13	23.90	28.20	31.09	1187.59	MCM
Momentary Peak	215.10	CMS. at 5.43 m. (MSL.) at 09.00 Hours , on Oct 24, 2021												
Runoff Yield	*****	Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.												

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban In Buri, Sing Buri (C.44)

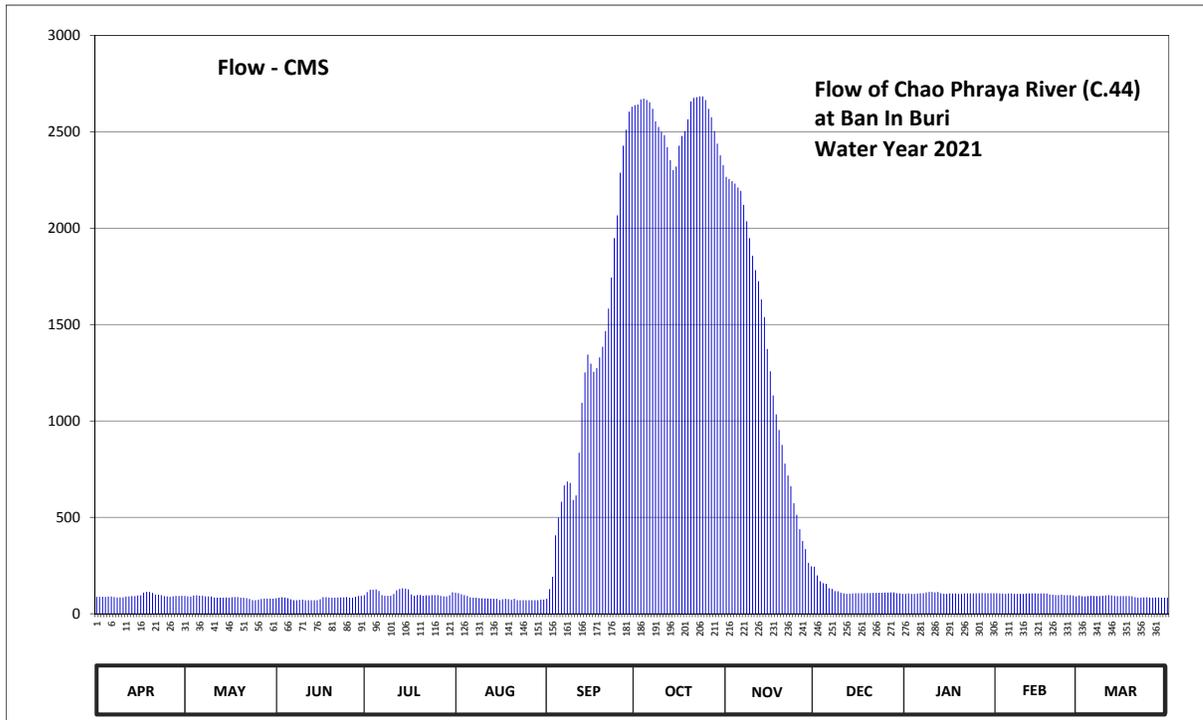
Lat 15 - 00 - 21 N Long 100 - 19 - 51 E

Location : on right bank at the bridge

	<b>Ban</b>	In Buri	<b>Amphoe</b>	In Buri	<b>Changwat</b>	Sing Buri
<b>Drainage Area</b>	116,835	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank near the gage site				<b>Elevation</b>	+13.856 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2005 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2005 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2005 to date					
<b>Stability of Channel Regimes</b>	Fairly stable					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.56	3.64	3.45	3.70	3.88	3.42	14.56	13.53	5.30	3.80	3.85	3.68	
2	3.56	3.60	3.50	3.93	3.85	4.14	14.57	13.50	4.93	3.83	3.83	3.61	
3	3.58	3.59	3.54	4.10	3.76	4.86	14.64	13.47	4.63	3.80	3.82	3.60	
4	3.57	3.67	3.52	4.10	3.70	6.41	14.65	13.43	4.53	3.80	3.80	3.63	
5	3.59	3.69	3.46	4.12	3.64	6.99	14.63	13.37	4.50	3.82	3.82	3.65	
6	3.59	3.65	3.38	4.01	3.53	7.43	14.60	13.32	4.20	3.85	3.83	3.64	
7	3.55	3.65	3.30	3.70	3.50	7.86	14.51	13.11	4.15	3.85	3.80	3.63	
8	3.52	3.60	3.30	3.65	3.50	7.96	14.33	12.86	4.00	3.90	3.80	3.63	
9	3.53	3.60	3.33	3.65	3.47	7.92	14.25	12.60	3.99	3.94	3.80	3.65	
10	3.53	3.60	3.35	3.65	3.45	7.48	14.18	12.32	3.88	3.94	3.80	3.68	
11	3.59	3.52	3.30	3.78	3.44	7.60	14.13	12.09	3.83	3.91	3.82	3.70	
12	3.60	3.50	3.30	4.06	3.44	8.67	13.96	11.91	3.80	3.94	3.83	3.68	
13	3.62	3.50	3.30	4.15	3.43	9.78	13.77	11.62	3.81	3.84	3.83	3.64	
14	3.63	3.50	3.30	4.20	3.42	10.37	13.63	11.33	3.83	3.81	3.83	3.63	
15	3.68	3.52	3.30	4.17	3.42	10.69	13.68	10.79	3.84	3.80	3.81	3.63	
16	3.69	3.51	3.38	4.12	3.31	10.53	13.98	10.39	3.84	3.83	3.83	3.62	
17	3.89	3.54	3.54	3.75	3.37	10.38	14.12	9.93	3.85	3.82	3.83	3.63	
18	3.95	3.55	3.54	3.65	3.42	10.45	14.19	9.54	3.85	3.83	3.82	3.62	
19	3.94	3.55	3.52	3.70	3.39	10.64	14.36	9.20	3.86	3.80	3.75	3.61	
20	3.87	3.50	3.50	3.71	3.33	10.83	14.61	8.86	3.86	3.80	3.73	3.54	
21	3.74	3.50	3.50	3.65	3.42	11.10	14.66	8.41	3.87	3.83	3.70	3.50	
22	3.73	3.46	3.52	3.69	3.30	11.47	14.67	8.11	3.87	3.83	3.70	3.50	
23	3.70	3.40	3.53	3.67	3.30	11.97	14.68	7.84	3.88	3.83	3.74	3.53	
24	3.62	3.31	3.53	3.70	3.30	12.60	14.68	7.39	3.88	3.83	3.70	3.53	
25	3.60	3.30	3.55	3.70	3.30	12.95	14.63	7.07	3.89	3.83	3.70	3.52	
26	3.58	3.34	3.50	3.70	3.30	13.59	14.51	6.61	3.89	3.84	3.70	3.50	
27	3.61	3.40	3.50	3.64	3.30	13.98	14.39	6.22	3.90	3.86	3.66	3.52	
28	3.64	3.44	3.58	3.60	3.30	14.21	14.19	5.95	3.90	3.85	3.60	3.52	
29	3.64	3.43	3.64	3.60	3.30	14.47	14.01	5.45	3.85	3.85		3.50	
30	3.65	3.43	3.65	3.69	3.35	14.54	13.84	5.31	3.83	3.85		3.50	
31		3.43		3.92	3.35		13.70		3.80	3.85		3.50	
Mean	3.65	3.51	3.45	3.82	3.44	9.84	14.30	10.18	4.03	3.84	3.78	3.59	
Max	3.95	3.69	3.65	4.20	3.88	14.54	14.68	13.53	5.30	3.94	3.85	3.70	14.68
Min	3.52	3.30	3.30	3.60	3.30	3.42	13.63	5.31	3.80	3.80	3.60	3.50	3.30
Annual Max Momentary Gage Height	14.68		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.46		m. (MSL.)				
Left Bank Elevation		16.00		m. (MSL.) ,									
Right Bank Elevation		15.84		m. (MSL.) ,		Drainage Are	116,835		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	87.08	92.52	79.80	96.60	108.84	77.88	2637.80	2265.80	244.40	103.40	106.80	95.24		
2	87.08	89.80	83.00	112.24	106.80	127.64	2641.60	2255.00	198.86	105.44	105.44	90.48		
3	88.44	89.12	85.72	124.60	100.68	191.72	2668.20	2244.68	168.26	103.40	104.76	89.80		
4	87.76	94.56	84.36	124.60	96.60	406.78	2672.00	2230.92	158.06	103.40	103.40	91.84		
5	89.12	95.92	80.44	126.12	92.52	498.42	2664.40	2210.28	155.00	104.76	104.76	93.20		
6	89.12	93.20	75.32	117.76	85.04	580.84	2653.00	2193.08	132.20	106.80	105.44	92.52		
7	86.40	93.20	70.20	96.60	83.00	666.00	2618.80	2120.84	128.40	106.80	103.40	91.84		
8	84.36	89.80	70.20	93.20	83.00	686.00	2553.80	2035.96	117.00	110.20	103.40	91.84		
9	85.04	89.80	72.12	93.20	81.08	678.00	2525.00	1948.60	116.32	112.92	103.40	93.20		
10	85.04	89.80	73.40	93.20	79.80	590.24	2499.80	1856.86	108.84	112.92	103.40	95.24		
11	89.12	84.36	70.20	102.04	79.16	614.00	2481.80	1782.57	105.44	110.88	104.76	96.60		
12	89.80	83.00	70.20	121.56	79.16	834.72	2420.60	1724.43	103.40	112.92	105.44	95.24		
13	91.16	83.00	70.20	128.40	78.52	1094.56	2352.20	1630.76	104.08	106.12	105.44	92.52		
14	91.84	83.00	70.20	132.20	77.88	1252.12	2301.80	1538.62	105.44	104.08	105.44	91.84		
15	95.24	84.36	70.20	129.92	77.88	1343.86	2319.80	1373.26	106.12	103.40	104.08	91.84		
16	95.92	83.68	75.32	126.12	70.84	1296.82	2427.80	1257.64	106.12	105.44	105.44	91.16		
17	109.52	85.72	85.72	100.00	74.68	1254.88	2478.20	1132.36	106.80	104.76	105.44	91.84		
18	113.60	86.40	85.72	93.20	77.88	1274.20	2503.40	1034.08	106.80	105.44	104.76	91.16		
19	112.92	86.40	84.36	96.60	75.96	1329.16	2564.60	953.20	107.48	103.40	100.00	90.48		
20	108.16	83.00	83.00	97.28	72.12	1385.02	2656.80	875.76	107.48	103.40	98.64	85.72		
21	99.32	83.00	83.00	93.20	77.88	1466.40	2675.80	779.28	108.16	105.44	96.60	83.00		
22	98.64	80.44	84.36	95.92	70.20	1582.58	2679.60	716.88	108.16	105.44	96.60	83.00		
23	96.60	76.60	85.04	94.56	70.20	1743.81	2683.40	662.00	108.84	105.44	99.32	85.04		
24	91.16	70.84	85.04	96.60	70.20	1948.60	2683.40	573.32	108.84	105.44	96.60	85.04		
25	89.80	70.20	86.40	96.60	70.20	2066.20	2664.40	513.16	109.52	105.44	96.60	84.36		
26	88.44	72.76	83.00	96.60	70.20	2287.40	2618.80	438.38	109.52	106.12	96.60	83.00		
27	90.48	76.60	83.00	92.52	70.20	2427.80	2575.40	376.76	110.20	107.48	93.88	84.36		
28	92.52	79.16	88.44	89.80	70.20	2510.60	2503.40	334.80	110.20	106.80	89.80	84.36		
29	92.52	78.52	92.52	89.80	70.20	2604.20	2438.60	263.60	106.80	106.80		83.00		
30	93.20	78.52	93.20	95.92	73.40	2630.20	2377.40	245.68	105.44	106.80		83.00		
31		78.52		111.56	73.40		2327.00		103.40	106.80		83.00		
<b>Total</b>	<b>2799.40</b>	<b>2605.80</b>	<b>2403.68</b>	<b>3258.52</b>	<b>2467.72</b>	<b>37450.65</b>	<b>78868.60</b>	<b>39568.56</b>	<b>3775.58</b>	<b>3297.88</b>	<b>2849.64</b>	<b>2764.76</b>	<b>182110.79</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>93.31</b>	<b>84.06</b>	<b>80.12</b>	<b>105.11</b>	<b>79.60</b>	<b>1248.36</b>	<b>2544.15</b>	<b>1318.95</b>	<b>121.79</b>	<b>106.38</b>	<b>101.77</b>	<b>89.19</b>	<b>498.93</b>	<b>CMS</b>
<b>Max</b>	<b>113.60</b>	<b>95.92</b>	<b>93.20</b>	<b>132.20</b>	<b>108.84</b>	<b>2630.20</b>	<b>2683.40</b>	<b>2265.80</b>	<b>244.40</b>	<b>112.92</b>	<b>106.80</b>	<b>96.60</b>	<b>2683.40</b>	<b>CMS</b>
<b>Min</b>	<b>84.36</b>	<b>70.20</b>	<b>70.20</b>	<b>89.80</b>	<b>70.20</b>	<b>77.88</b>	<b>2301.80</b>	<b>245.68</b>	<b>103.40</b>	<b>103.40</b>	<b>89.80</b>	<b>83.00</b>	<b>70.20</b>	<b>CMS</b>
<b>Runoff</b>	<b>241.87</b>	<b>225.14</b>	<b>207.68</b>	<b>281.54</b>	<b>213.21</b>	<b>3235.74</b>	<b>6814.25</b>	<b>3418.72</b>	<b>326.21</b>	<b>284.94</b>	<b>246.21</b>	<b>238.88</b>	<b>15734.37</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>2683.40</b>	<b>CMS.</b>	<b>at 14.68 m. (MSL.)</b>	<b>at 06.00 Hours</b>	<b>, on Oct 23, 2021</b>									
<b>Runoff Yield</b>	<b>4.27</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>22.97</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Nam Chieo, Sing Buri (C.45)

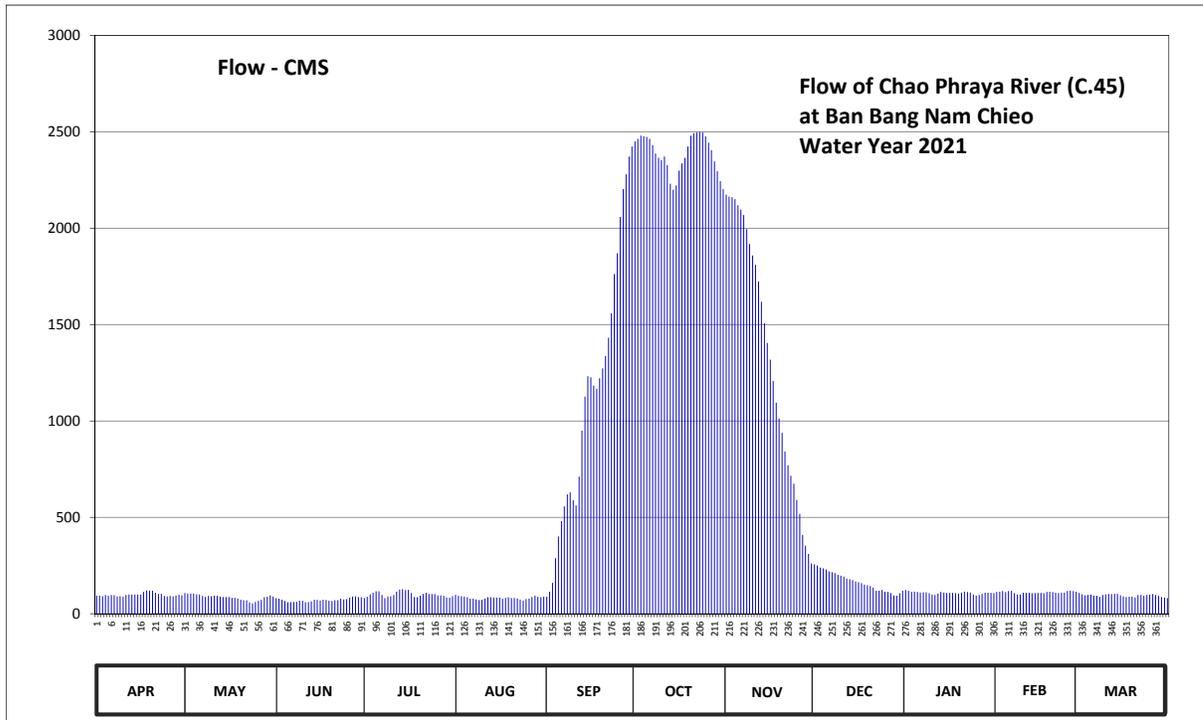
Lat 14 - 47 - 28 N Long 100 - 27 - 06 E

Location : on left bank at Ban Bang Nam Chieo

	<b>Ban</b>	Bang Nam Chieo	<b>Amphoe</b>	Prom Buri	<b>Changwat</b>	Sing Buri
<b>Drainage Area</b>	Flood Plain					
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage site				<b>Elevation</b>	+10.460 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2012 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2012 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2012 to date					
<b>Stability of Channel Regimes</b>	Fairly stable					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2021.					

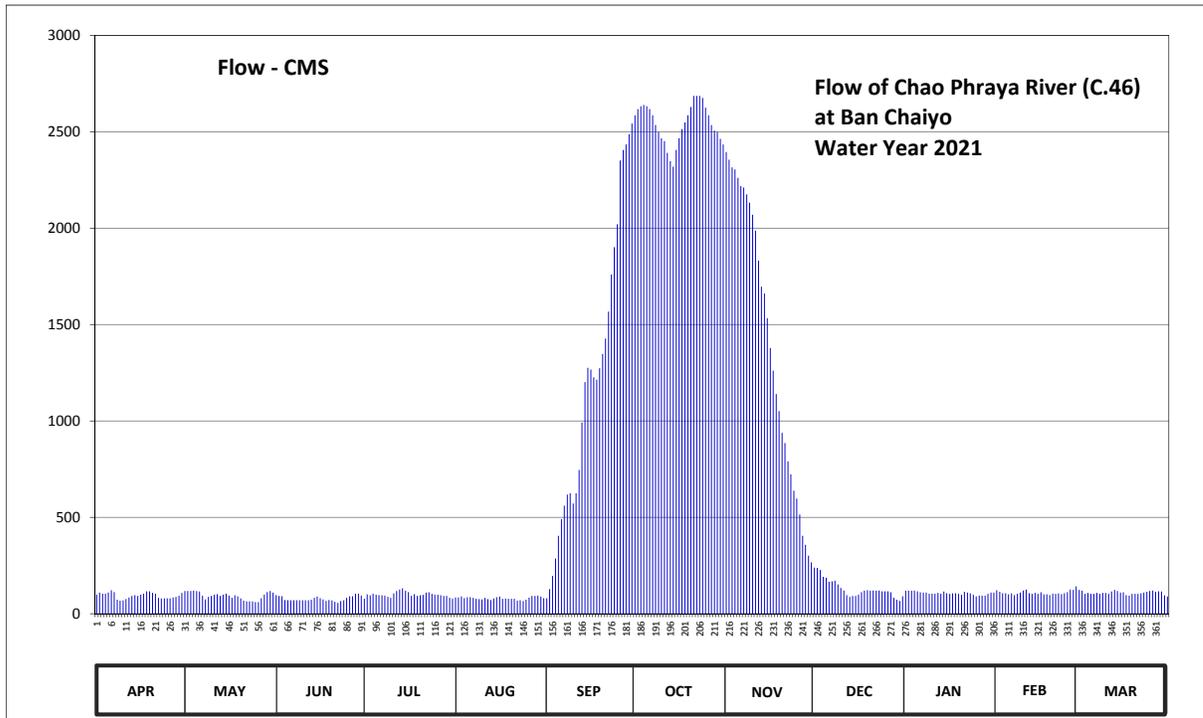
## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.88	0.61	0.62	0.79	0.69	10.67	9.81	2.12	1.04	0.94	0.89	
2	0.75	0.86	0.58	0.69	0.73	0.95	10.71	9.78	2.08	1.00	0.96	0.82	
3	0.72	0.86	0.52	0.82	0.72	1.38	10.76	9.77	2.01	0.95	0.99	0.77	
4	0.78	0.86	0.45	0.90	0.70	2.32	10.75	9.74	1.98	0.96	0.93	0.78	
5	0.74	0.82	0.37	0.97	0.66	3.00	10.74	9.64	1.94	0.94	0.99	0.80	
6	0.78	0.81	0.38	0.97	0.58	3.43	10.71	9.57	1.87	0.91	1.00	0.75	
7	0.77	0.73	0.39	0.78	0.58	3.81	10.61	9.48	1.84	0.92	0.88	0.74	
8	0.71	0.68	0.40	0.61	0.54	4.09	10.48	9.25	1.80	0.92	0.81	0.68	
9	0.72	0.73	0.46	0.71	0.50	4.14	10.41	9.00	1.73	0.87	0.81	0.78	
10	0.68	0.72	0.46	0.72	0.52	3.95	10.37	8.80	1.70	0.81	0.90	0.82	
11	0.78	0.75	0.37	0.78	0.59	3.83	10.43	8.64	1.66	0.78	0.89	0.84	
12	0.81	0.73	0.38	0.96	0.66	4.51	10.29	8.35	1.58	0.86	0.89	0.83	
13	0.81	0.69	0.43	1.06	0.66	5.52	9.99	8.00	1.55	0.94	0.87	0.84	
14	0.81	0.67	0.52	1.08	0.65	6.22	9.89	7.62	1.51	0.91	0.87	0.84	
15	0.81	0.67	0.51	1.04	0.65	6.61	9.96	7.25	1.44	0.89	0.89	0.77	
16	0.80	0.67	0.47	1.05	0.64	6.59	10.20	6.93	1.41	0.89	0.89	0.71	
17	0.94	0.63	0.52	0.88	0.57	6.43	10.32	6.52	1.37	0.89	0.87	0.67	
18	1.02	0.63	0.51	0.67	0.63	6.37	10.41	6.10	1.30	0.87	0.94	0.69	
19	1.01	0.59	0.46	0.66	0.66	6.57	10.59	5.78	1.27	0.86	0.95	0.70	
20	1.01	0.52	0.44	0.74	0.62	6.76	10.76	5.47	1.23	0.91	0.93	0.65	
21	0.90	0.49	0.49	0.84	0.62	7.00	10.80	5.07	1.16	0.96	0.90	0.78	
22	0.84	0.48	0.49	0.90	0.59	7.35	10.81	4.77	1.00	0.94	0.88	0.78	
23	0.84	0.36	0.58	0.83	0.53	7.80	10.82	4.53	1.01	0.91	0.90	0.74	
24	0.73	0.31	0.54	0.83	0.47	8.48	10.81	4.34	1.05	0.81	0.90	0.78	
25	0.71	0.39	0.55	0.83	0.55	8.84	10.75	3.96	0.96	0.75	0.99	0.80	
26	0.73	0.45	0.64	0.76	0.58	9.45	10.65	3.61	0.94	0.78	1.01	0.83	
27	0.71	0.51	0.70	0.76	0.67	9.90	10.53	3.05	0.88	0.84	0.99	0.78	
28	0.76	0.66	0.71	0.73	0.75	10.14	10.35	2.72	0.76	0.90	0.95	0.74	
29	0.79	0.69	0.67	0.65	0.68	10.43	10.19	2.46	0.74	0.90		0.67	
30	0.77	0.76	0.66	0.64	0.66	10.59	10.03	2.15	0.87	0.89		0.64	
31		0.70		0.72	0.70		9.90		1.01	0.88		0.61	
Mean	0.80	0.65	0.51	0.81	0.63	5.91	10.47	6.74	1.41	0.89	0.92	0.76	
Max	1.02	0.88	0.71	1.08	0.79	10.59	10.82	9.81	2.12	1.04	1.01	0.89	10.82
Min	0.68	0.31	0.37	0.61	0.47	0.69	9.89	2.15	0.74	0.75	0.81	0.61	0.31
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01												
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	10.87												
Right Bank Elevation	11.01	</											



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	94.00	107.00	80.90	81.80	98.00	88.10	2450.10	2173.20	256.20	123.00	113.00	108.00		
2	94.00	105.00	78.20	88.10	92.00	114.00	2463.30	2163.60	250.00	119.00	115.00	101.00		
3	91.00	105.00	72.80	101.00	91.00	159.80	2479.80	2160.40	239.50	114.00	118.00	96.00		
4	97.00	105.00	66.50	109.00	89.00	288.20	2476.50	2150.80	235.20	115.00	112.00	97.00		
5	93.00	101.00	59.30	116.00	85.40	401.00	2473.20	2118.80	229.60	113.00	118.00	99.00		
6	97.00	100.00	60.20	116.00	78.20	481.00	2463.30	2096.40	219.80	110.00	119.00	94.00		
7	96.00	92.00	61.10	97.00	78.20	557.20	2430.30	2067.60	215.60	111.00	107.00	93.00		
8	90.00	87.20	62.00	80.90	74.60	618.80	2387.60	1995.50	210.00	111.00	100.00	87.20		
9	91.00	92.00	67.40	90.00	71.00	629.80	2365.20	1918.00	200.90	106.00	100.00	97.00		
10	87.20	91.00	67.40	91.00	72.80	588.00	2352.40	1858.00	197.00	100.00	109.00	101.00		
11	97.00	94.00	59.30	97.00	79.10	561.60	2371.60	1810.00	192.20	97.00	108.00	103.00		
12	100.00	92.00	60.20	115.00	85.40	711.20	2326.80	1723.00	182.60	105.00	108.00	102.00		
13	100.00	88.10	64.70	125.00	85.40	949.80	2230.80	1618.00	179.00	113.00	106.00	103.00		
14	100.00	86.30	72.80	127.00	84.50	1126.40	2198.80	1506.80	174.20	110.00	106.00	103.00		
15	100.00	86.30	71.90	123.00	84.50	1231.70	2221.20	1404.50	166.40	108.00	108.00	96.00		
16	99.00	86.30	68.30	124.00	83.60	1226.30	2298.00	1318.10	163.10	108.00	108.00	90.00		
17	113.00	82.70	72.80	107.00	77.30	1183.10	2336.40	1207.40	158.70	108.00	106.00	86.30		
18	121.00	82.70	71.90	86.30	82.70	1166.90	2365.20	1095.00	151.00	106.00	113.00	88.10		
19	120.00	79.10	67.40	85.40	85.40	1220.90	2423.70	1012.20	147.70	105.00	114.00	89.00		
20	120.00	72.80	65.60	93.00	81.80	1272.20	2479.80	937.80	143.30	110.00	112.00	84.50		
21	109.00	70.10	70.10	103.00	81.80	1337.00	2493.00	841.80	135.60	115.00	109.00	97.00		
22	103.00	69.20	70.10	109.00	79.10	1431.50	2496.30	770.10	119.00	113.00	107.00	97.00		
23	103.00	58.40	78.20	102.00	73.70	1559.00	2499.60	715.60	120.00	110.00	109.00	93.00		
24	92.00	53.90	74.60	102.00	68.30	1762.00	2496.30	673.80	124.00	100.00	109.00	97.00		
25	90.00	61.10	75.50	102.00	75.50	1870.00	2476.50	590.20	115.00	94.00	118.00	99.00		
26	92.00	66.50	83.60	95.00	78.20	2058.00	2443.50	517.00	113.00	97.00	120.00	102.00		
27	90.00	71.90	89.00	95.00	86.30	2202.00	2403.90	409.50	107.00	103.00	118.00	97.00		
28	95.00	85.40	90.00	92.00	94.00	2278.80	2346.00	353.40	95.00	109.00	114.00	93.00		
29	98.00	88.10	86.30	84.50	87.20	2371.60	2294.80	310.60	93.00	109.00		86.30		
30	96.00	95.00	85.40	83.60	85.40	2423.70	2243.60	261.00	106.00	108.00		83.60		
31		89.00		91.00	89.00		2202.00		120.00	107.00		80.90		
Total	2968.20	2644.10	2153.50	3112.60	2558.40	33869.60	73989.50	39778.10	5159.60	3357.00	3104.00	2943.90	175638.50	CMSDAY
Mean	98.94	85.29	71.78	100.41	82.53	1128.99	2386.76	1325.94	166.44	108.29	110.86	94.96	481.20	CMS
Max	121.00	107.00	90.00	127.00	98.00	2423.70	2499.60	2173.20	256.20	123.00	120.00	108.00	2499.60	CMS
Min	87.20	53.90	59.30	80.90	68.30	88.10	2198.80	261.00	93.00	94.00	100.00	80.90	53.90	CMS
Runoff	256.45	228.45	186.06	268.93	221.05	2926.33	6392.69	3436.83	445.79	290.04	268.19	254.35	15175.17	MCM
Momentary Peak	2502.90 CMS. at 10.83 m. (MSL.) at 08.00 Hours , on Oct 23, 2021													
Runoff Yield	***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.													



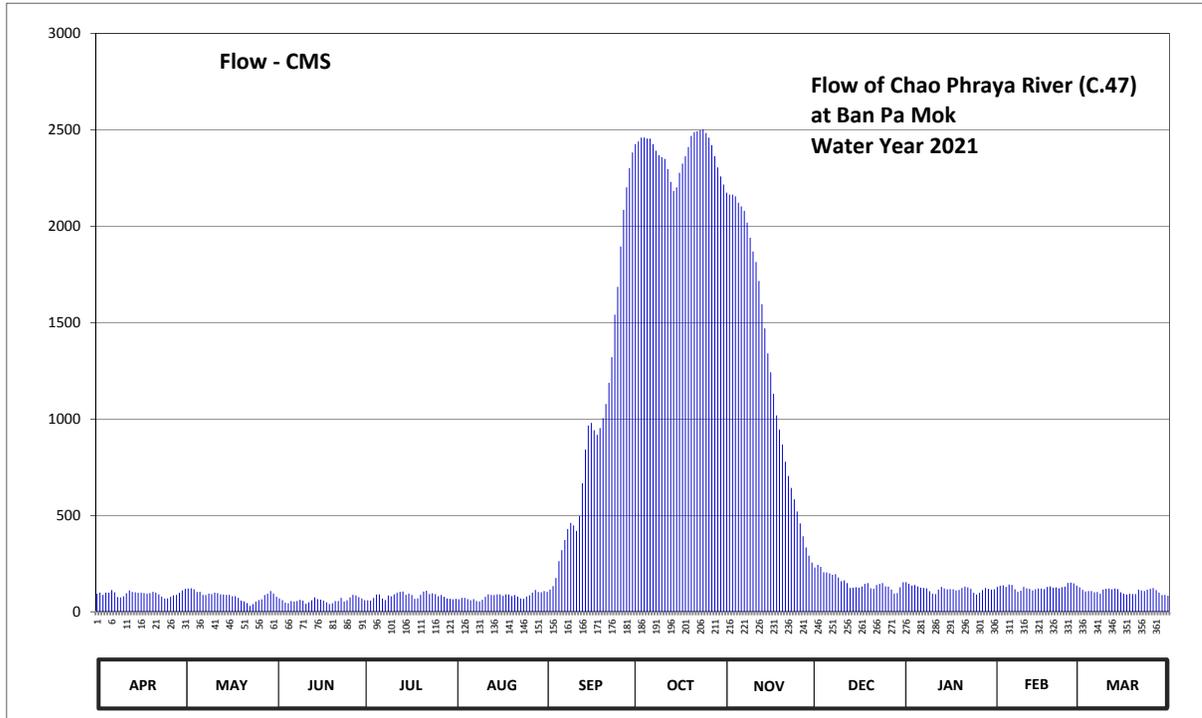


APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

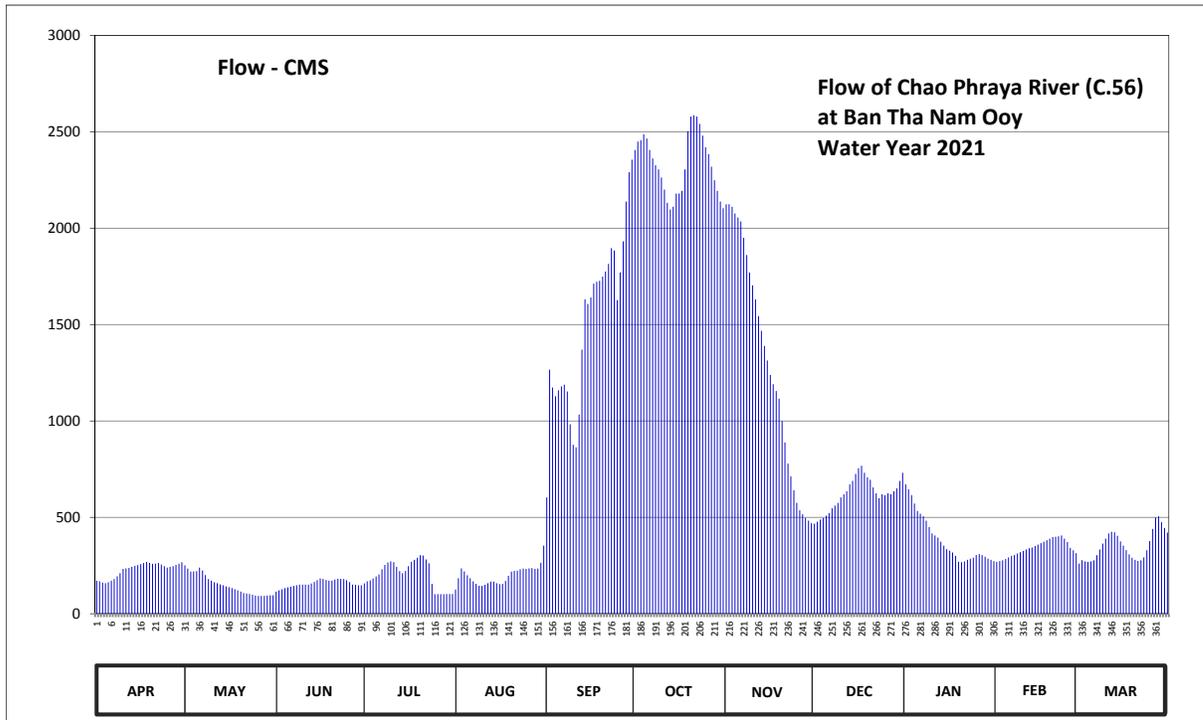
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	99.20	118.00	96.80	77.70	84.30	79.90	2585.20	2394.40	239.60	119.40	122.20	123.60		
2	109.60	118.00	92.00	100.40	84.30	127.80	2617.60	2354.80	238.00	120.80	113.80	119.40		
3	104.00	118.00	90.90	95.60	89.80	196.40	2632.00	2315.20	226.80	119.40	106.80	102.80		
4	104.00	120.80	71.10	104.00	81.00	286.40	2639.20	2304.40	191.60	120.80	106.80	108.20		
5	109.60	118.00	70.00	99.20	85.40	403.90	2632.00	2261.20	186.80	116.60	100.40	102.80		
6	122.20	115.20	70.00	96.80	85.40	491.00	2617.60	2218.00	165.60	111.00	105.40	102.80		
7	112.40	93.20	70.00	95.60	82.10	560.30	2585.20	2210.80	168.40	109.60	96.80	108.20		
8	72.20	74.40	70.00	94.40	77.70	618.40	2534.80	2174.80	171.20	109.60	104.00	102.80		
9	68.00	87.60	70.00	87.60	75.50	625.60	2498.80	2132.00	151.60	104.00	109.60	108.20		
10	69.00	92.00	70.00	82.10	74.40	571.80	2466.40	2069.40	133.40	104.00	120.80	108.20		
11	75.50	99.20	70.00	105.40	82.10	625.60	2452.00	1986.90	120.80	104.00	125.00	102.80		
12	84.30	101.60	70.00	118.00	75.50	745.80	2390.80	1831.80	96.80	108.20	106.80	115.20		
13	92.00	92.00	72.20	125.00	71.10	991.60	2347.60	1696.50	87.60	104.00	102.80	123.60		
14	96.80	99.20	82.10	132.00	78.80	1201.60	2318.80	1660.80	92.00	115.20	108.20	118.00		
15	92.00	104.00	88.70	119.40	85.40	1276.00	2405.20	1533.30	92.00	106.80	102.80	109.60		
16	99.20	94.40	81.00	112.40	88.70	1266.70	2466.40	1378.30	99.20	102.80	111.00	111.00		
17	104.00	82.10	74.40	93.20	77.70	1226.40	2513.20	1260.50	112.40	105.40	100.40	96.80		
18	116.60	95.60	67.00	101.60	78.80	1214.00	2549.20	1139.60	120.80	106.80	100.40	94.40		
19	116.60	89.80	71.10	92.00	77.70	1272.90	2585.20	1051.00	122.20	102.80	96.80	102.80		
20	108.20	78.80	69.00	95.60	77.70	1347.30	2628.40	938.40	119.40	98.00	104.00	102.80		
21	104.00	68.00	62.00	98.00	77.70	1427.90	2686.00	885.20	120.80	113.80	102.80	102.80		
22	82.10	64.00	56.00	109.60	68.00	1567.40	2686.00	790.50	119.40	109.60	105.40	105.40		
23	78.80	64.00	66.00	111.00	70.00	1759.20	2686.00	722.50	120.80	105.40	101.60	109.60		
24	79.90	64.00	70.00	102.80	66.00	1901.10	2675.20	637.60	116.60	98.00	106.80	113.80		
25	79.90	60.00	82.10	99.20	72.20	2019.90	2624.80	597.10	116.60	89.80	112.40	118.00		
26	79.90	60.00	90.90	99.20	83.20	2351.20	2585.20	515.20	116.60	94.40	125.00	120.80		
27	84.30	79.90	100.90	95.60	92.00	2405.20	2534.80	403.90	111.00	94.40	123.60	113.80		
28	87.60	99.20	94.00	92.00	92.00	2434.00	2506.00	357.40	82.10	94.40	141.80	116.60		
29	93.20	112.40	104.00	92.00	94.40	2488.00	2498.80	300.80	72.20	102.80		115.20		
30	108.20	118.00	94.40	82.10	88.70	2542.00	2462.80	266.60	67.00	109.60		95.60		
31		109.60		77.70	81.00		2434.00		90.90	109.60		88.70		
Total	2833.30	2891.00	2336.60	3087.20	2498.60	36025.30	78845.20	42388.90	4070.20	3311.00	3064.20	3364.30	184715.80	CMSDAY
Mean	94.44	93.26	77.89	99.59	80.60	1200.84	2543.39	1412.96	131.30	106.81	109.44	108.53	506.07	CMS
Max	122.20	120.80	104.00	132.00	94.40	2542.00	2686.00	2394.40	239.60	120.80	141.80	123.60	2686.00	CMS
Min	68.00	60.00	56.00	77.70	66.00	79.90	2318.80	266.60	67.00	89.80	96.80	88.70	56.00	CMS
Runoff	244.80	249.78	201.88	266.73	215.88	3112.59	6812.23	3662.40	351.67	286.07	264.75	290.68	15959.45	MCM
Momentary Peak	2686.00 CMS. at 10.10 m. (MSL.) at 06.00 Hours , on Oct 21, 2021													
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			*****	Liters/Second/Square KM.					





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	93.20	119.20	77.60	59.40	67.20	103.80	2425.80	2174.10	229.40	154.20	129.00	126.20		
2	99.70	120.60	69.80	59.40	64.60	115.00	2440.20	2164.70	243.80	145.80	134.60	113.60		
3	88.00	122.00	60.70	58.10	72.40	133.20	2459.40	2164.70	233.00	136.00	137.40	105.20		
4	99.70	116.40	47.70	72.40	72.40	175.20	2459.40	2155.30	205.40	138.80	129.00	108.00		
5	99.70	102.40	43.80	89.30	65.90	263.00	2454.60	2122.40	203.80	131.80	141.60	108.00		
6	112.20	103.80	55.50	90.60	59.40	319.40	2454.60	2103.60	199.00	124.80	138.80	101.00		
7	101.00	88.00	52.90	68.50	65.90	372.20	2425.80	2080.10	192.00	123.40	116.40	102.40		
8	76.30	86.70	55.50	60.70	55.50	429.60	2392.20	2019.00	194.80	122.00	103.80	93.20		
9	75.00	94.50	62.00	84.10	52.90	460.80	2368.20	1940.80	178.00	106.60	109.40	115.00		
10	80.20	91.90	58.10	80.20	62.00	447.80	2358.60	1868.50	158.40	93.20	129.00	119.20		
11	95.80	99.70	41.20	90.60	77.60	419.20	2349.00	1814.50	162.60	91.90	122.00	120.60		
12	110.80	97.10	49.00	98.40	90.60	497.20	2296.30	1716.20	148.60	115.00	119.20	116.40		
13	102.40	90.60	59.40	103.80	86.70	666.90	2230.50	1596.00	123.40	129.00	110.80	120.60		
14	101.00	89.30	75.00	105.20	86.70	841.40	2183.50	1470.00	124.80	120.60	116.40	117.80		
15	98.40	88.00	65.90	88.00	90.60	966.00	2202.30	1341.00	127.60	116.40	120.60	101.00		
16	98.40	88.00	63.30	94.50	90.60	979.60	2277.50	1242.10	124.80	117.80	120.60	93.20		
17	97.10	80.20	58.10	86.70	82.80	942.20	2325.00	1131.00	131.80	116.40	117.80	89.30		
18	94.50	81.50	49.00	67.20	90.60	918.40	2363.40	1019.00	144.40	110.80	129.00	93.20		
19	97.10	72.40	39.90	69.80	89.30	952.40	2411.40	945.60	148.60	113.60	131.80	91.90		
20	103.80	58.10	43.80	88.00	81.50	1004.60	2469.00	867.80	122.00	123.40	124.80	91.90		
21	99.70	54.20	55.50	105.20	86.70	1077.80	2488.20	778.90	119.20	130.40	126.20	115.00		
22	90.60	45.10	55.50	109.40	78.90	1188.00	2493.00	704.60	138.80	126.20	122.00	110.80		
23	78.90	31.20	72.40	91.90	68.50	1321.00	2497.90	642.40	144.40	119.20	127.60	108.00		
24	68.50	39.90	52.90	95.80	67.20	1541.40	2502.80	583.00	148.60	98.40	130.40	115.00		
25	69.80	52.90	59.40	91.90	78.90	1685.40	2483.40	520.60	131.80	89.30	150.00	119.20		
26	77.60	60.70	75.00	80.20	85.40	1895.50	2459.40	458.20	130.40	98.40	151.40	123.40		
27	85.40	64.60	88.00	86.70	99.70	2084.80	2421.00	391.40	115.00	112.20	147.20	112.20		
28	88.00	86.70	85.40	77.60	113.60	2202.30	2363.40	334.10	94.50	123.40	136.00	99.70		
29	98.40	93.20	76.30	68.50	102.40	2301.00	2305.80	291.00	97.10	119.20		86.70		
30	110.80	108.00	68.50	67.20	101.00	2382.60	2258.70	255.00	127.60	115.00		88.00		
31		94.50		64.60	108.00		2216.40		152.80	116.40		82.80		
Total	2792.00	2621.40	1817.10	2553.90	2495.50	28687.70	73836.70	38895.60	4796.40	3679.60	3572.80	3288.50	169037.20	CMSDAY
Mean	93.07	84.56	60.57	82.38	80.50	956.26	2381.83	1296.52	154.72	118.70	127.60	106.08	463.12	CMS
Max	112.20	122.00	88.00	109.40	113.60	2382.60	2502.80	2174.10	243.80	154.20	151.40	126.20	2502.80	CMS
Min	68.50	31.20	39.90	58.10	52.90	103.80	2183.50	255.00	94.50	89.30	103.80	82.80	31.20	CMS
Runoff	241.23	226.49	157.00	220.66	215.61	2478.62	6379.49	3360.58	414.41	317.92	308.69	284.13	14604.81	MCM
Momentary Peak	2512.60 CMS. at 8.34 m. (MSL.) at 19.00 Hours , on Oct 23, 2021													
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			*****	Liters/Second/Square KM.					





APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	170.80	250.80	114.80	157.60	125.60	603.00	2405.20	2124.40	467.00	671.00	268.60	260.20		
2	168.60	233.90	121.10	168.60	184.00	1265.40	2449.20	2124.40	477.00	645.00	272.80	278.40		
3	162.00	218.30	127.40	173.00	235.20	1173.00	2456.80	2110.60	488.20	615.00	277.00	271.40		
4	158.70	219.60	133.00	182.90	219.60	1128.20	2487.20	2076.10	496.60	571.50	284.00	268.60		
5	163.10	220.90	137.00	192.80	199.40	1158.40	2464.40	2055.40	508.50	533.00	292.00	271.40		
6	171.90	239.10	140.00	203.80	184.00	1179.00	2405.20	2034.70	522.50	519.00	300.00	277.00		
7	179.60	224.80	144.00	231.30	168.60	1188.00	2362.00	1950.00	547.00	505.00	304.80	303.20		
8	193.90	200.50	148.00	253.40	155.40	1152.80	2326.00	1861.00	561.00	482.60	312.80	333.60		
9	210.40	179.60	151.00	265.80	145.00	982.60	2304.40	1769.70	575.00	449.50	319.20	364.20		
10	232.60	171.90	151.00	271.40	144.00	876.00	2262.40	1702.80	603.00	416.50	325.60	389.20		
11	235.20	163.10	151.00	267.20	150.00	863.00	2200.30	1630.80	620.00	406.00	333.60	416.50		
12	237.80	158.70	151.00	243.00	158.70	1033.30	2131.30	1542.80	635.00	395.50	340.00	424.90		
13	243.00	152.10	156.50	220.90	166.40	1370.00	2096.80	1466.80	671.00	373.60	343.20	422.80		
14	248.20	148.00	165.30	210.40	166.40	1630.80	2110.60	1389.00	689.00	353.40	351.60	403.90		
15	252.10	142.00	174.10	222.20	158.70	1606.80	2179.60	1314.00	725.00	335.20	358.80	375.50		
16	257.40	138.00	182.90	246.90	153.20	1640.40	2179.60	1238.20	755.00	327.20	366.00	353.40		
17	263.00	133.00	180.70	270.00	155.40	1712.40	2193.40	1191.00	767.00	317.60	373.60	330.40		
18	268.60	127.40	175.20	279.80	169.70	1722.00	2304.40	1155.60	731.00	300.00	381.20	308.00		
19	264.40	121.10	171.90	290.40	196.10	1727.30	2502.40	1115.20	707.00	270.00	389.20	290.40		
20	258.80	114.80	171.90	303.20	218.30	1748.50	2578.40	999.50	695.00	267.20	397.60	279.80		
21	260.20	107.60	177.40	301.60	222.20	1775.00	2586.00	889.00	655.00	271.40	399.70	274.20		
22	263.00	104.90	181.80	281.20	223.50	1814.90	2578.40	779.00	625.00	279.80	401.80	277.00		
23	254.70	102.40	180.70	261.60	230.00	1896.00	2540.40	713.00	599.00	285.60	406.00	292.00		
24	246.90	98.40	179.60	155.40	233.90	1884.20	2479.60	640.00	620.00	290.40	389.20	328.80		
25	239.10	93.60	174.10	101.60	232.60	1626.00	2419.60	575.00	615.00	304.80	371.70	377.40		
26	243.00	92.00	164.20	101.60	235.20	1769.70	2383.60	536.50	625.00	309.60	341.60	439.50		
27	246.90	92.00	151.00	101.60	236.50	1932.00	2318.80	515.50	620.00	304.80	328.80	499.40		
28	253.40	92.00	150.00	101.60	232.60	2138.20	2248.60	496.60	635.00	295.20	314.40	505.00		
29	260.20	93.60	148.00	102.40	233.90	2290.00	2193.40	482.60	650.00	285.60		474.50		
30	267.20	96.00	148.00	102.40	264.40	2354.80	2138.20	469.50	689.00	279.80		444.50		
31		96.00		102.40	353.40		2103.70		731.00	272.80		420.70		
Total	6874.70	4626.10	4702.60	6368.00	6151.90	45241.70	72389.90	38948.70	19304.80	11933.60	9544.80	10955.80	237042.60	CMSDAY
Mean	229.16	149.23	156.75	205.42	198.45	1508.06	2335.16	1298.29	622.74	384.95	340.89	353.41	649.43	CMS
Max	268.60	250.80	182.90	303.20	353.40	2354.80	2586.00	2124.40	767.00	671.00	406.00	505.00	2586.00	CMS
Min	158.70	92.00	114.80	101.60	125.60	603.00	2096.80	469.50	467.00	267.20	268.60	260.20	92.00	CMS
Runoff	593.97	399.70	406.30	550.20	531.52	3908.88	6254.49	3365.17	1667.93	1031.06	824.67	946.58	20480.48	MCM
Momentary Peak		2593.80	CMS. at 19.61 m. (MSL.)											
Runoff Yield		5.86	Liters/Second/Square KM.				Momentary Peak Yield	23.40						Liters/Second/Square KM.

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Amphoe Sapphaya ,Chainat (C.66)

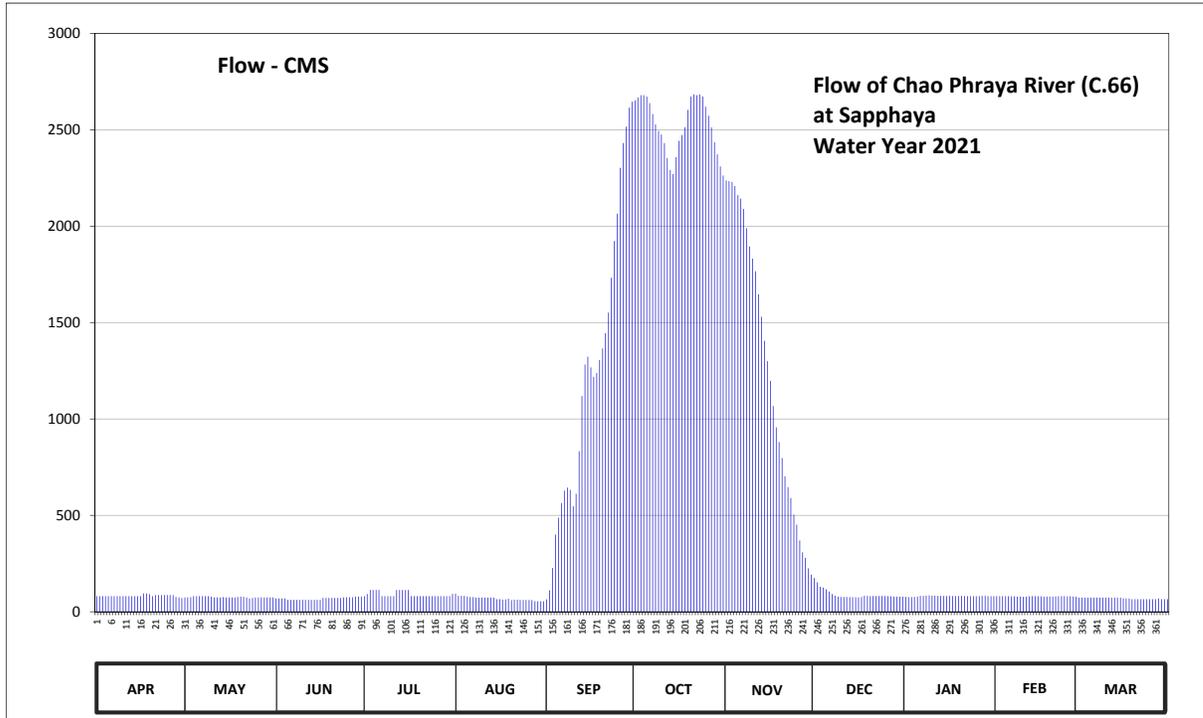
Lat 15 - 06 - 33 N Long 100 - 16 - 05 E

Location : on right bank at Amphoe Sapphaya.

	Ban -	Amphoe Sapphaya	Changwat	Chai Nat
<b>Drainage Area</b>	116,817			
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank at the bridge		<b>Elevation</b>	+15.164 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	2017 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2017 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	2017 to date			
<b>Stability of Channel Regimes</b>	Fairly stable.			
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 15.080 m.(MSL.), records are channel flow only.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2021.			

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.74	4.64	4.55	4.75	4.96	4.47	15.35	14.23	5.83	4.69	4.74	4.62	
2	4.74	4.64	4.55	4.94	4.77	5.17	15.39	14.22	5.62	4.67	4.74	4.62	
3	4.74	4.66	4.55	5.19	4.77	6.26	15.42	14.21	5.38	4.66	4.74	4.62	
4	4.74	4.74	4.55	5.19	4.77	7.44	15.42	14.15	5.33	4.68	4.74	4.62	
5	4.74	4.74	4.42	5.19	4.72	7.95	15.40	14.02	5.23	4.70	4.74	4.62	
6	4.74	4.74	4.42	5.19	4.67	8.36	15.31	13.97	5.10	4.77	4.73	4.62	
7	4.74	4.74	4.42	4.75	4.67	8.69	15.16	13.82	4.92	4.78	4.73	4.62	
8	4.74	4.74	4.42	4.75	4.62	8.77	15.02	13.54	4.79	4.80	4.71	4.62	
9	4.74	4.74	4.42	4.75	4.62	8.71	14.93	13.27	4.71	4.81	4.71	4.62	
10	4.74	4.70	4.42	4.75	4.62	8.27	14.88	13.09	4.68	4.79	4.69	4.62	
11	4.74	4.64	4.42	4.75	4.62	8.61	14.76	12.90	4.68	4.79	4.71	4.62	
12	4.74	4.64	4.42	5.19	4.62	9.66	14.55	12.55	4.68	4.77	4.73	4.62	
13	4.74	4.64	4.42	5.19	4.62	10.78	14.38	12.17	4.67	4.77	4.74	4.62	
14	4.74	4.66	4.42	5.19	4.62	11.35	14.32	11.76	4.66	4.77	4.74	4.62	
15	4.74	4.64	4.42	5.19	4.49	11.49	14.56	11.41	4.65	4.76	4.73	4.62	
16	4.74	4.64	4.42	5.19	4.49	11.30	14.79	11.06	4.64	4.77	4.73	4.56	
17	4.98	4.64	4.60	4.75	4.44	11.13	14.87	10.59	4.68	4.76	4.71	4.56	
18	4.98	4.64	4.60	4.75	4.47	11.20	14.98	10.17	4.79	4.76	4.71	4.56	
19	4.93	4.68	4.60	4.75	4.53	11.43	15.22	9.86	4.77	4.76	4.70	4.49	
20	4.74	4.71	4.60	4.75	4.39	11.63	15.40	9.51	4.75	4.77	4.70	4.49	
21	4.84	4.69	4.60	4.75	4.44	11.89	15.43	9.06	4.76	4.76	4.73	4.49	
22	4.84	4.64	4.60	4.75	4.44	12.24	15.42	8.78	4.76	4.75	4.73	4.49	
23	4.84	4.56	4.60	4.75	4.41	12.80	15.43	8.50	4.76	4.74	4.74	4.49	
24	4.84	4.59	4.65	4.75	4.40	13.35	15.40	8.04	4.76	4.75	4.74	4.49	
25	4.84	4.64	4.65	4.75	4.40	13.75	15.26	7.74	4.76	4.75	4.73	4.49	
26	4.84	4.64	4.65	4.75	4.40	14.41	15.14	7.25	4.74	4.75	4.73	4.49	
27	4.84	4.64	4.65	4.75	4.40	14.76	14.98	6.85	4.73	4.77	4.72	4.49	
28	4.68	4.64	4.70	4.75	4.28	14.99	14.77	6.65	4.70	4.77	4.71	4.56	
29	4.64	4.64	4.70	4.75	4.26	15.25	14.60	6.25	4.71	4.74	4.74	4.49	
30	4.58	4.64	4.70	4.75	4.26	15.33	14.43	5.99	4.70	4.75	4.75	4.49	
31		4.64		4.94	4.27		14.30		4.70	4.74		4.49	
Mean	4.78	4.66	4.54	4.89	4.53	10.71	15.01	10.85	4.86	4.75	4.73	4.56	
Max	4.98	4.74	4.70	5.19	4.96	15.33	15.43	14.23	5.83	4.81	4.74	4.62	15.43
Min	4.58	4.56	4.42	4.75	4.26	4.47	14.30	5.99	4.64	4.66	4.69	4.49	4.26
Annual Max Momentary Gage Height	15.43		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed 0.77		m. (MSL.)				
Left Bank Elevation		15.42		m. (MSL.) ,									
Right Bank Elevation		15.07		m. (MSL.) ,			Drainage Are	116,817		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	80.40	74.40	69.00	81.00	93.60	64.50	2653.00	2237.26	174.98	77.40	80.40	73.20		
2	80.40	74.40	69.00	92.40	82.20	110.96	2668.20	2233.64	152.72	76.20	80.40	73.20		
3	80.40	75.60	69.00	112.72	82.20	226.80	2679.60	2230.02	129.44	75.60	80.40	73.20		
4	80.40	80.40	69.00	112.72	82.20	400.40	2679.60	2208.30	125.04	76.80	80.40	73.20		
5	80.40	80.40	62.00	112.72	79.20	487.40	2672.00	2161.24	116.24	78.00	80.40	73.20		
6	80.40	80.40	62.00	112.72	76.20	563.68	2637.80	2143.26	104.80	82.20	79.80	73.20		
7	80.40	80.40	62.00	81.00	76.20	628.00	2580.80	2089.56	91.20	82.80	79.80	73.20		
8	80.40	80.40	62.00	81.00	73.20	644.00	2527.60	1989.32	83.40	84.00	78.60	73.20		
9	80.40	80.40	62.00	81.00	73.20	632.00	2494.10	1894.50	78.60	84.60	78.60	73.20		
10	80.40	78.00	62.00	81.00	73.20	546.76	2475.60	1831.50	76.80	83.40	77.40	73.20		
11	80.40	74.40	62.00	81.00	73.20	612.00	2431.20	1766.00	76.80	83.40	78.60	73.20		
12	80.40	74.40	62.00	112.72	73.20	832.44	2353.50	1647.00	76.80	82.20	79.80	73.20		
13	80.40	74.40	62.00	112.72	73.20	1119.28	2291.56	1529.68	76.20	82.20	80.40	73.20		
14	80.40	75.60	62.00	112.72	73.20	1282.20	2269.84	1405.04	75.60	82.20	80.40	73.20		
15	80.40	74.40	62.00	112.72	65.50	1323.08	2357.20	1299.72	75.00	81.60	79.80	73.20		
16	80.40	74.40	62.00	112.72	65.50	1267.60	2442.30	1197.52	74.40	82.20	79.80	69.60		
17	94.80	74.40	72.00	81.00	63.00	1217.96	2471.90	1066.84	76.80	81.60	78.60	69.60		
18	94.80	74.40	72.00	81.00	64.50	1238.40	2512.60	956.20	83.40	81.60	78.60	69.60		
19	91.80	76.80	72.00	81.00	67.80	1305.56	2603.60	879.24	82.20	81.60	78.00	65.50		
20	80.40	78.60	72.00	81.00	60.50	1365.52	2672.00	797.34	81.00	82.20	78.00	65.50		
21	86.40	77.40	72.00	81.00	63.00	1444.56	2683.40	702.60	81.60	81.60	79.80	65.50		
22	86.40	74.40	72.00	81.00	63.00	1550.96	2679.60	646.00	81.60	81.00	79.80	65.50		
23	86.40	69.60	72.00	81.00	61.50	1732.00	2683.40	590.00	81.60	80.40	80.40	65.50		
24	86.40	71.40	75.00	81.00	61.00	1922.50	2672.00	503.52	81.60	81.00	80.40	65.50		
25	86.40	74.40	75.00	81.00	61.00	2064.50	2618.80	451.28	81.60	81.00	79.80	65.50		
26	86.40	74.40	75.00	81.00	61.00	2302.42	2573.20	370.00	80.40	81.00	79.80	65.50		
27	86.40	74.40	75.00	81.00	61.00	2431.20	2512.60	308.40	79.80	82.20	79.20	65.50		
28	76.80	74.40	78.00	81.00	55.00	2516.30	2434.90	279.60	78.00	82.20	78.60	69.60		
29	74.40	74.40	78.00	81.00	54.00	2615.00	2372.00	225.50	78.60	80.40		65.50		
30	70.80	74.40	78.00	81.00	54.00	2645.40	2309.66	191.94	78.00	81.00		65.50		
31		74.40		92.40	54.50		2262.60		78.00	80.40		65.50		
<b>Total</b>	<b>2475.00</b>	<b>2350.20</b>	<b>2058.00</b>	<b>2819.28</b>	<b>2120.00</b>	<b>37093.38</b>	<b>78276.16</b>	<b>37832.02</b>	<b>2792.22</b>	<b>2514.00</b>	<b>2226.00</b>	<b>2162.40</b>	<b>174718.66</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>82.50</b>	<b>75.81</b>	<b>68.60</b>	<b>90.94</b>	<b>68.39</b>	<b>1236.45</b>	<b>2525.04</b>	<b>1261.07</b>	<b>90.07</b>	<b>81.10</b>	<b>79.50</b>	<b>69.75</b>	<b>478.68</b>	<b>CMS</b>
<b>Max</b>	<b>94.80</b>	<b>80.40</b>	<b>78.00</b>	<b>112.72</b>	<b>93.60</b>	<b>2645.40</b>	<b>2683.40</b>	<b>2237.26</b>	<b>174.98</b>	<b>84.60</b>	<b>80.40</b>	<b>73.20</b>	<b>2683.40</b>	<b>CMS</b>
<b>Min</b>	<b>70.80</b>	<b>69.60</b>	<b>62.00</b>	<b>81.00</b>	<b>54.00</b>	<b>64.50</b>	<b>2262.60</b>	<b>191.94</b>	<b>74.40</b>	<b>75.60</b>	<b>77.40</b>	<b>65.50</b>	<b>54.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>213.84</b>	<b>203.06</b>	<b>177.81</b>	<b>243.59</b>	<b>183.17</b>	<b>3204.87</b>	<b>6763.06</b>	<b>3268.69</b>	<b>241.25</b>	<b>217.21</b>	<b>192.33</b>	<b>186.83</b>	<b>15095.69</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>2683.40</b>	<b>CMS.</b>	<b>at 15.43 m. (MSL.)</b>	<b>at 09.00 Hours</b>	<b>on Oct 4, 2021</b>									
<b>Runoff Yield</b>	<b>4.10</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>22.97</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## SAKAE KRANG RIVER BASIN

## Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan (Ct.4)

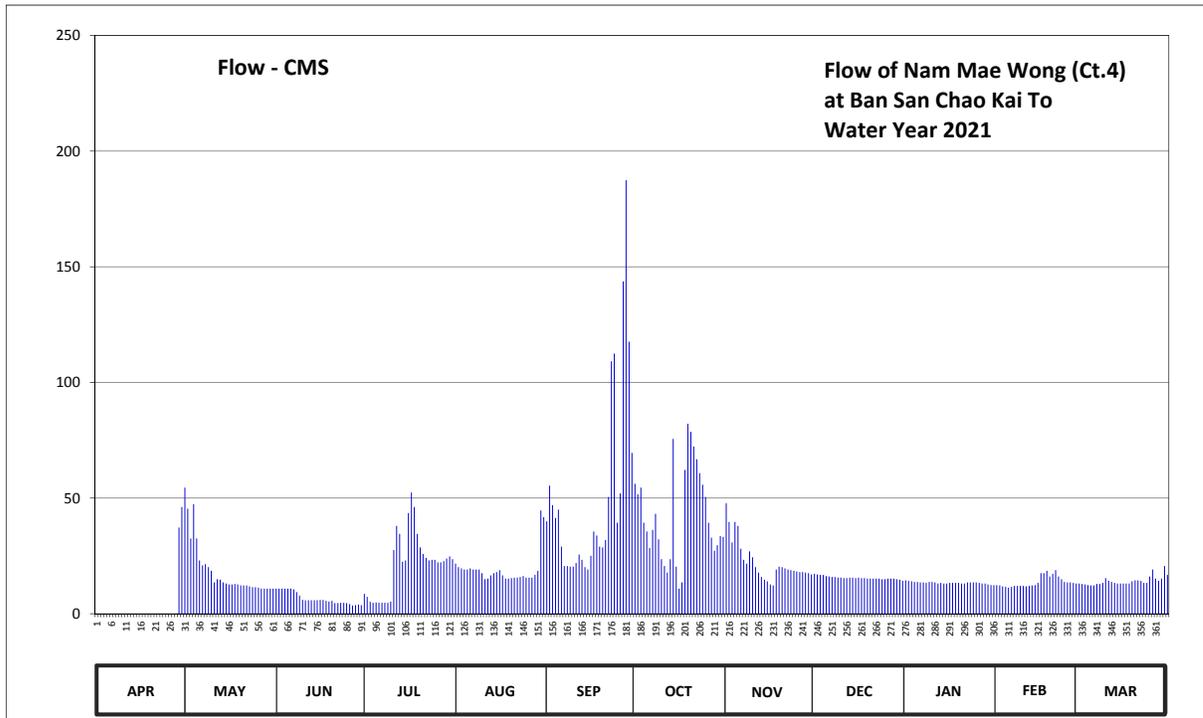
Lat 15 - 47 - 09 N Long 99 - 40 - 42 E

Location : on left bank at Ban San Chao Kai To.

	<b>Ban</b>	<b>San Chao Kai To</b>	<b>Amphoe</b>	<b>Lat Yao</b>	<b>Changwat</b>	<b>Nakhon Sawan</b>
<b>Drainage Area</b>	1,199	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank at the bridge				<b>Elevation</b>	+72.801 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1987 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1987 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1987 to date					
<b>Stability of Channel Regimes</b>	Fairly stable					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.79	69.45	68.02	67.90	68.48	69.07	69.49	69.28	68.31	68.19	68.10	68.13	
2	66.78	69.22	68.02	67.83	68.42	69.47	69.38	69.06	68.30	68.18	68.09	68.12	
3	66.78	68.85	68.02	67.69	68.40	69.26	69.45	68.80	68.29	68.17	68.07	68.11	
4	66.78	69.27	68.02	67.66	68.38	69.11	69.05	69.06	68.29	68.16	68.06	68.10	
5	66.78	68.85	68.02	67.67	68.38	69.21	68.94	69.01	68.27	68.16	68.04	68.09	
6	66.78	68.53	68.02	67.66	68.40	68.74	68.72	68.71	68.26	68.15	68.06	68.09	
7	66.78	68.45	68.00	67.66	68.38	68.44	68.96	68.54	68.25	68.15	68.08	68.12	
8	66.78	68.47	67.94	67.66	68.38	68.44	69.16	68.48	68.25	68.14	68.08	68.12	
9	66.78	68.42	67.86	67.66	68.38	68.43	68.84	68.67	68.24	68.16	68.08	68.14	
10	66.78	68.36	67.75	67.70	68.32	68.43	68.55	68.58	68.24	68.16	68.08	68.23	
11	66.78	68.15	67.74	68.69	68.21	68.49	68.44	68.42	68.23	68.15	68.07	68.18	
12	66.80	68.21	67.74	69.01	68.22	68.62	68.33	68.33	68.23	68.13	68.08	68.16	
13	66.77	68.20	67.74	68.91	68.28	68.54	68.55	68.25	68.24	68.14	68.09	68.14	
14	66.56	68.15	67.74	68.51	68.32	68.42	69.92	68.20	68.24	68.13	68.10	68.13	
15	66.32	68.13	67.74	68.53	68.34	68.38	68.43	68.17	68.23	68.13	68.14	68.13	
16	66.29	68.11	67.75	69.17	68.37	68.60	68.02	68.11	68.24	68.14	68.32	68.13	
17	66.29	68.11	67.75	69.40	68.28	68.94	68.15	68.09	68.23	68.14	68.32	68.13	
18	66.25	68.12	67.72	69.24	68.22	68.89	69.63	68.38	68.23	68.14	68.36	68.13	
19	66.27	68.11	67.70	68.91	68.22	68.74	70.05	68.43	68.22	68.14	68.26	68.17	
20	66.54	68.09	67.72	68.73	68.23	68.73	69.98	68.42	68.22	68.13	68.31	68.19	
21	66.67	68.09	67.65	68.63	68.24	68.83	69.85	68.40	68.22	68.13	68.37	68.19	
22	66.73	68.09	67.65	68.57	68.24	69.35	69.73	68.38	68.22	68.15	68.26	68.18	
23	66.78	68.07	67.66	68.53	68.25	70.51	69.60	68.37	68.22	68.15	68.21	68.14	
24	66.80	68.05	67.66	68.54	68.27	70.56	69.48	68.36	68.21	68.15	68.16	68.14	
25	66.88	68.05	67.65	68.54	68.24	69.05	69.35	68.35	68.21	68.15	68.15	68.26	
26	66.95	68.04	67.62	68.50	68.24	69.39	69.05	68.34	68.22	68.14	68.15	68.38	
27	66.97	68.02	67.57	68.50	68.24	71.00	68.86	68.34	68.22	68.13	68.14	68.22	
28	67.17	68.02	67.58	68.52	68.29	71.51	68.68	68.33	68.22	68.13	68.13	68.18	
29	68.99	68.02	67.60	68.56	68.36	70.64	68.76	68.32	68.21	68.11		68.22	
30	69.24	68.02	67.58	68.59	68.20	69.79	68.88	68.30	68.20	68.10		68.44	
31		68.02		68.55	69.12		68.87		68.18	68.10		68.29	
Mean	66.86	68.31	67.77	68.39	68.36	69.19	69.07	68.48	68.24	68.14	68.16	68.17	
Max	69.24	69.45	68.02	69.40	69.20	71.51	70.05	69.28	68.31	68.19	68.37	68.44	71.51
Min	66.25	68.02	67.57	67.66	68.21	68.38	68.02	68.09	68.18	68.10	68.04	68.09	66.25
Annual Max Momentary Gage Height	72.05		m. (MSL.) ,				at 21.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	65.73	m. (MSL.)					
Left Bank Elevation		72.10	m. (MSL.) ,										
Right Bank Elevation		72.05	m. (MSL.) ,			Drainage Are	1,199	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	54.50	10.88	8.60	21.68	39.98	56.18	47.72	17.26	14.47	12.40	13.09	
2	0.00	45.38	10.88	7.27	20.12	55.34	51.62	39.64	17.00	14.24	12.21	12.86	
3	0.00	32.50	10.88	5.16	19.60	46.94	54.50	30.80	16.77	14.01	11.83	12.63	
4	0.00	47.33	10.88	4.74	19.08	41.36	39.30	39.64	16.77	13.78	11.64	12.40	
5	0.00	32.50	10.88	4.88	19.08	44.99	35.56	37.94	16.31	13.78	11.26	12.21	
6	0.00	23.04	10.88	4.74	19.60	29.00	28.40	28.10	16.08	13.55	11.64	12.21	
7	0.00	20.90	10.50	4.74	19.08	20.64	36.24	23.32	15.85	13.55	12.02	12.86	
8	0.00	21.42	9.36	4.74	19.08	20.64	43.16	21.68	15.85	13.32	12.02	12.86	
9	0.00	20.12	7.84	4.74	19.08	20.38	32.16	26.96	15.62	13.78	12.02	13.32	
10	0.00	18.56	6.00	5.30	17.52	20.38	23.60	24.44	15.62	13.78	12.02	15.39	
11	0.00	13.55	5.86	27.52	14.93	21.94	20.64	20.12	15.39	13.55	11.83	14.24	
12	0.00	14.93	5.86	37.94	15.16	25.56	17.78	17.78	15.39	13.09	12.02	13.78	
13	0.00	14.70	5.86	34.54	16.54	23.32	23.60	15.85	15.62	13.32	12.21	13.32	
14	0.00	13.55	5.86	22.48	17.52	20.12	75.60	14.70	15.62	13.09	12.40	13.09	
15	0.00	13.09	5.86	23.04	18.04	19.08	20.38	14.01	15.39	13.09	13.32	13.09	
16	0.00	12.63	6.00	43.52	18.82	25.00	10.88	12.63	15.62	13.32	17.52	13.09	
17	0.00	12.63	6.00	52.40	16.54	35.56	13.55	12.21	15.39	13.32	17.52	13.09	
18	0.00	12.86	5.58	46.16	15.16	33.86	62.18	19.08	15.39	13.32	18.56	13.09	
19	0.00	12.63	5.30	34.54	15.16	29.00	82.10	20.38	15.16	13.32	16.08	14.01	
20	0.00	12.21	5.58	28.70	15.39	28.70	78.60	20.12	15.16	13.09	17.26	14.47	
21	0.00	12.21	4.60	25.84	15.62	31.82	72.30	19.60	15.16	13.09	18.82	14.47	
22	0.00	12.21	4.60	24.16	15.62	50.45	66.78	19.08	15.16	13.55	16.08	14.24	
23	0.00	11.83	4.74	23.04	15.85	109.15	60.80	18.82	15.16	13.55	14.93	13.32	
24	0.00	11.45	4.74	23.32	16.31	112.40	55.76	18.56	14.93	13.55	13.78	13.32	
25	0.00	11.45	4.60	23.32	15.62	39.30	50.45	18.30	14.93	13.55	13.55	16.08	
26	0.00	11.26	4.18	22.20	15.62	52.01	39.30	18.04	15.16	13.32	13.55	19.08	
27	0.00	10.88	3.57	22.20	15.62	143.63	32.84	18.04	15.16	13.09	13.32	15.16	
28	0.00	10.88	3.68	22.76	16.77	187.40	27.24	17.78	15.16	13.09	13.09	14.24	
29	37.26	10.88	3.90	23.88	18.56	117.60	29.60	17.52	14.93	12.63		15.16	
30	46.16	10.88	3.68	24.72	44.60	69.54	33.52	17.00	14.70	12.40		20.64	
31		10.88		23.60	41.72		33.18		14.24	12.40		16.77	
Total	83.42	573.84	199.03	664.79	589.09	1515.09	1307.80	669.86	481.95	414.99	384.90	437.58	7322.34 CMSDAY
Mean	2.78	18.51	6.63	21.44	19.00	50.50	42.19	22.33	15.55	13.39	13.75	14.12	20.06 CMS
Max	46.16	54.50	10.88	52.40	44.60	187.40	82.10	47.72	17.26	14.47	18.82	20.64	187.40 CMS
Min	0.00	10.88	3.57	4.74	14.93	19.08	10.88	12.21	14.24	12.40	11.26	12.21	0.00 CMS
Runoff	7.21	49.58	17.20	57.44	50.90	130.90	112.99	57.88	41.64	35.86	33.26	37.81	632.65 MCM
Momentary Peak	236.75	CMS.	at 72.05 m. (MSL.)										at 21.00 Hours , on Sep 27, 2021
Runoff Yield	16.73	Liters/Second/Square KM.			Momentary Peak Yield	197.46	Liters/Second/Square KM.						

## WATER YEAR : 2021

## SAKAE KRANG RIVER BASIN

## Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct.5A)

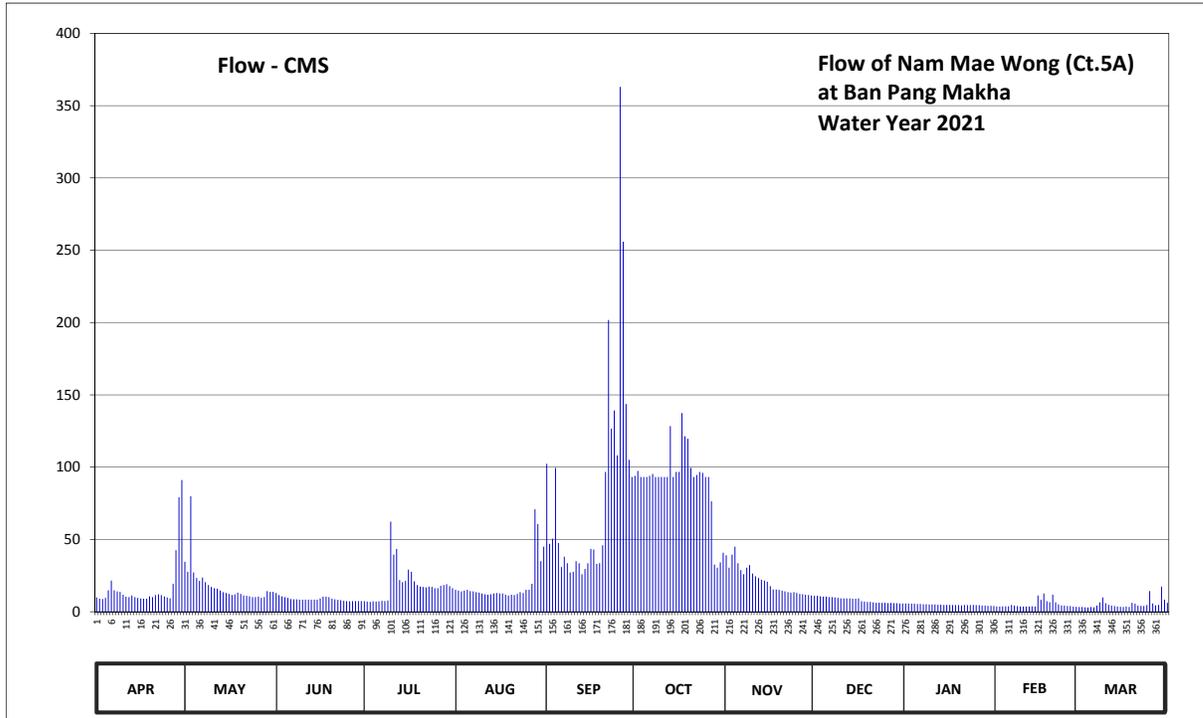
Lat 15 - 55 - 42 N Long 99 - 30 - 09 E

Location : on left bank behind Wat Pang Makha.

	Ban Pang Makha	Amphoe Khanu Worakabsaburi	Changwat Kamphaeng Phet
<b>Drainage Area</b>	980 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the station office	<b>Elevation</b>	+108.090 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1969 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1969 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1969 to date		
<b>Stability of Channel Regimes</b>	Fairly stable		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir above gage site estimated by recession equation. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

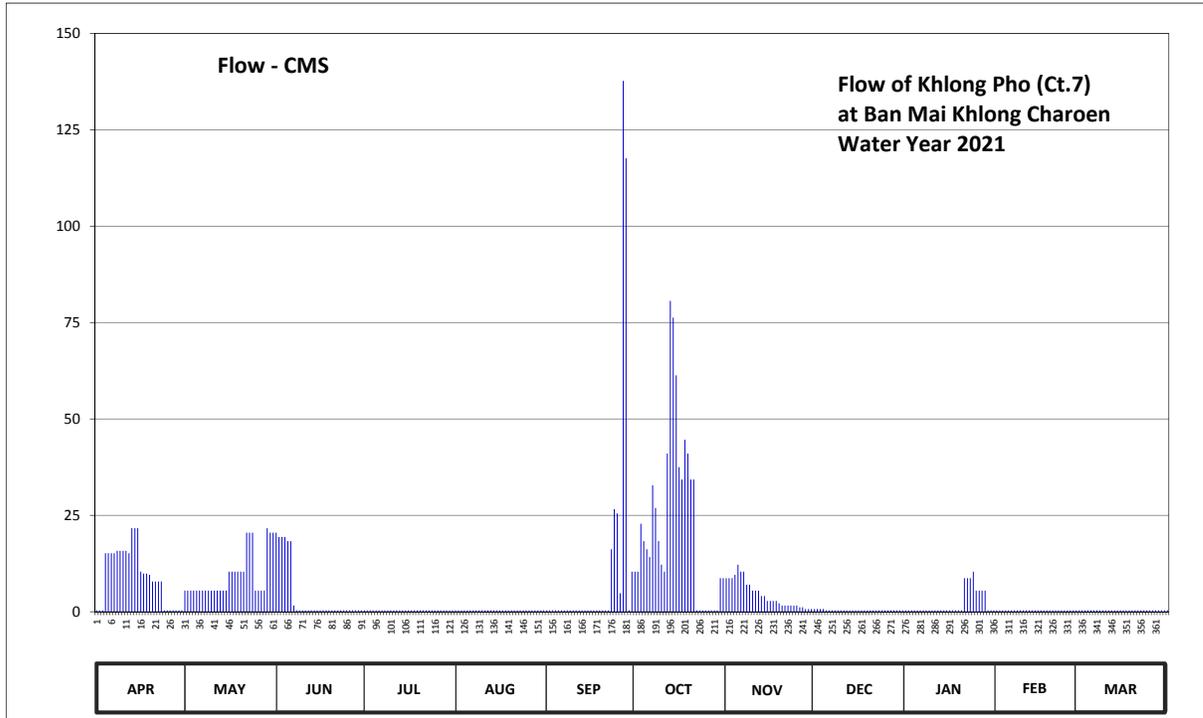
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.83	104.60	103.94	103.72	104.02	105.74	105.62	104.70	103.87	103.63	103.50	103.48	
2	103.80	104.44	103.89	103.70	104.00	104.87	105.67	104.51	103.87	103.63	103.50	103.48	
3	103.79	105.42	103.86	103.69	103.98	104.94	105.61	104.71	103.86	103.62	103.51	103.47	
4	103.82	104.43	103.84	103.71	104.00	105.70	105.61	104.83	103.85	103.62	103.51	103.46	
5	104.01	104.31	103.82	103.70	104.02	104.88	105.61	104.58	103.85	103.61	103.51	103.48	
6	104.25	104.24	103.79	103.71	103.99	104.52	105.62	104.47	103.84	103.61	103.57	103.47	
7	104.01	104.32	103.78	103.73	103.98	104.68	105.64	104.40	103.84	103.60	103.54	103.54	
8	103.98	104.21	103.78	103.72	103.96	104.58	105.61	104.51	103.83	103.60	103.52	103.67	
9	103.97	104.14	103.77	103.74	103.95	104.43	105.61	104.55	103.82	103.59	103.50	103.83	
10	103.90	104.09	103.77	105.16	103.93	104.44	105.61	104.41	103.81	103.59	103.50	103.64	
11	103.85	104.06	103.77	104.71	103.91	104.61	105.61	104.35	103.81	103.59	103.50	103.57	
12	103.84	104.05	103.77	104.80	103.90	104.58	105.61	104.31	103.81	103.58	103.50	103.54	
13	103.88	104.00	103.77	104.26	103.91	104.40	106.06	104.27	103.81	103.58	103.51	103.52	
14	103.84	103.96	103.77	104.21	103.93	104.49	105.61	104.25	103.80	103.57	103.50	103.50	
15	103.82	103.94	103.77	104.24	103.94	104.58	105.66	104.22	103.80	103.57	103.88	103.49	
16	103.81	103.92	103.81	104.48	103.93	104.80	105.66	104.11	103.81	103.57	103.76	103.48	
17	103.80	103.89	103.85	104.44	103.93	104.79	106.16	104.03	103.71	103.56	103.93	103.50	
18	103.80	103.91	103.85	104.23	103.90	104.57	105.98	104.03	103.70	103.56	103.71	103.48	
19	103.86	103.95	103.84	104.14	103.88	104.58	105.96	104.02	103.69	103.56	103.68	103.65	
20	103.84	103.92	103.80	104.10	103.90	104.85	105.70	104.00	103.69	103.55	103.90	103.62	
21	103.89	103.88	103.78	104.09	103.89	105.66	105.61	103.98	103.67	103.57	103.67	103.54	
22	103.91	103.87	103.76	104.08	103.92	106.72	105.63	103.96	103.65	103.56	103.59	103.53	
23	103.89	103.86	103.75	104.10	103.96	106.04	105.66	103.95	103.66	103.56	103.55	103.52	
24	103.86	103.84	103.73	104.09	103.94	106.18	105.65	103.96	103.65	103.57	103.54	103.56	
25	103.83	103.84	103.72	104.06	104.02	105.82	105.61	103.94	103.65	103.56	103.52	103.99	
26	103.81	103.85	103.71	104.06	104.02	107.55	105.61	103.92	103.64	103.56	103.52	103.63	
27	104.17	103.82	103.72	104.12	104.17	107.07	105.37	103.91	103.65	103.54	103.50	103.55	
28	104.78	103.84	103.72	104.14	105.29	106.23	104.56	103.90	103.64	103.54	103.49	103.57	
29	105.41	103.99	103.72	104.16	105.13	105.78	104.51	103.89	103.64	103.53		104.10	
30	105.58	103.97	103.72	104.11	104.61	105.61	104.59	103.88	103.63	103.53		103.77	
31		103.97		104.06	104.83		104.74		103.63	103.52		103.65	
Mean	104.03	104.08	103.79	104.11	104.09	105.26	105.54	104.22	103.75	103.58	103.59	103.59	
Max	105.58	105.42	103.94	105.16	105.29	107.55	106.16	104.83	103.87	103.63	103.93	104.10	107.55
Min	103.79	103.82	103.71	103.69	103.88	104.40	104.51	103.88	103.63	103.52	103.49	103.46	103.46
Annual Max Momentary Gage Height	108.65		m. (MSL.) ,			at 18.00 Hours ,	on Sep 26, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	102.21	m. (MSL.)					
Left Bank Elevation		110.71		m. (MSL.) ,									
Right Bank Elevation		110.72		m. (MSL.) ,		Drainage Are	980	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.84	34.50	12.92	7.40	15.16	102.30	93.90	39.00	10.96	5.74	3.60	3.28		
2	9.00	27.60	11.52	7.00	14.60	47.00	97.40	30.45	10.96	5.74	3.60	3.28		
3	8.80	79.90	10.68	6.82	14.04	50.50	93.20	39.45	10.68	5.56	3.76	3.12		
4	9.56	27.20	10.12	7.20	14.60	99.50	93.20	45.00	10.40	5.56	3.76	2.96		
5	14.88	23.30	9.56	7.00	15.16	47.50	93.20	33.60	10.40	5.38	3.76	3.28		
6	21.60	21.32	8.80	7.20	14.32	30.90	93.90	28.80	10.12	5.38	4.72	3.12		
7	14.88	23.60	8.60	7.60	14.04	38.10	95.30	26.00	10.12	5.20	4.24	4.24		
8	14.04	20.48	8.60	7.40	13.48	33.60	93.20	30.45	9.84	5.20	3.92	6.46		
9	13.76	18.52	8.40	7.80	13.20	27.20	93.20	32.25	9.56	5.04	3.60	9.84		
10	11.80	17.12	8.40	62.30	12.64	27.60	93.20	26.40	9.28	5.04	3.60	5.92		
11	10.40	16.28	8.40	39.45	12.08	34.95	93.20	24.50	9.28	5.04	3.60	4.72		
12	10.12	16.00	8.40	43.50	11.80	33.60	93.20	23.30	9.28	4.88	3.60	4.24		
13	11.24	14.60	8.40	21.88	12.08	26.00	128.40	22.16	9.28	4.88	3.76	3.92		
14	10.12	13.48	8.40	20.48	12.64	29.60	93.20	21.60	9.00	4.72	3.60	3.60		
15	9.56	12.92	8.40	21.32	12.92	33.60	96.70	20.76	9.00	4.72	11.24	3.44		
16	9.28	12.36	9.28	29.20	12.64	43.50	96.70	17.68	9.28	4.72	8.20	3.28		
17	9.00	11.52	10.40	27.60	12.64	43.05	137.40	15.44	7.20	4.56	12.64	3.60		
18	9.00	12.08	10.40	21.04	11.80	33.15	121.30	15.44	7.00	4.56	7.20	3.28		
19	10.68	13.20	10.12	18.52	11.24	33.60	119.60	15.16	6.82	4.56	6.64	6.10		
20	10.12	12.36	9.00	17.40	11.80	46.00	99.50	14.60	6.82	4.40	11.80	5.56		
21	11.52	11.24	8.60	17.12	11.52	96.70	93.20	14.04	6.46	4.72	6.46	4.24		
22	12.08	10.96	8.20	16.84	12.36	201.80	94.60	13.48	6.10	4.56	5.04	4.08		
23	11.52	10.68	8.00	17.40	13.48	126.60	96.70	13.20	6.28	4.56	4.40	3.92		
24	10.68	10.12	7.60	17.12	12.92	139.20	96.00	13.48	6.10	4.72	4.24	4.56		
25	9.84	10.12	7.40	16.28	15.16	108.10	93.20	12.92	6.10	4.56	3.92	14.32		
26	9.28	10.40	7.20	16.28	15.16	363.00	93.20	12.36	5.92	4.56	3.92	5.74		
27	19.36	9.56	7.40	17.96	19.36	255.90	76.40	12.08	6.10	4.24	3.60	4.40		
28	42.60	10.12	7.40	18.52	70.80	143.70	32.70	11.80	5.92	4.24	3.44	4.72		
29	79.20	14.32	7.40	19.08	60.65	105.10	30.45	11.52	5.92	4.08		17.40		
30	91.10	13.76	7.40	17.68	34.95	93.20	34.05	11.24	5.74	4.08		8.40		
31		13.76		16.28	45.00		40.80		5.74	3.92		6.10		
Total	524.86	553.38	265.40	578.67	574.24	2494.55	2800.20	648.16	251.66	149.12	145.86	165.12	9151.22	CMSDAY
Mean	17.50	17.85	8.85	18.67	18.52	83.15	90.33	21.61	8.12	4.81	5.21	5.33	25.07	CMS
Max	91.10	79.90	12.92	62.30	70.80	363.00	137.40	45.00	10.96	5.74	12.64	17.40	363.00	CMS
Min	8.80	9.56	7.20	6.82	11.24	26.00	30.45	11.24	5.74	3.92	3.44	2.96	2.96	CMS
Runoff	45.35	47.81	22.93	50.00	49.61	215.53	241.94	56.00	21.74	12.88	12.60	14.27	790.67	MCM
Momentary Peak		785.00	CMS.	at 108.65 m. (MSL.)	at 18.00 Hours	, on Sep 26, 2021								
Runoff Yield		25.58	Liters/Second/Square KM.		Momentary Peak Yield	801.02	Liters/Second/Square KM.							





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	5.50	20.50	0.35	0.35	0.35	10.40	8.70	0.70	0.35	0.35	0.35	
2	0.35	5.50	19.40	0.35	0.35	0.35	10.40	8.70	0.70	0.35	0.35	0.35	
3	0.35	5.50	19.40	0.35	0.35	0.35	22.80	8.70	0.70	0.35	0.35	0.35	
4	15.20	5.50	19.40	0.35	0.35	0.35	18.30	9.55	0.70	0.35	0.35	0.35	
5	15.20	5.50	18.30	0.35	0.35	0.35	16.20	12.20	0.35	0.35	0.35	0.35	
6	15.20	5.50	18.30	0.35	0.35	0.35	14.20	10.40	0.35	0.35	0.35	0.35	
7	15.20	5.50	1.60	0.35	0.35	0.35	32.80	10.40	0.35	0.35	0.35	0.35	
8	15.80	5.50	0.35	0.35	0.35	0.35	26.90	7.00	0.35	0.35	0.35	0.35	
9	15.80	5.50	0.35	0.35	0.35	0.35	18.30	7.00	0.35	0.35	0.35	0.35	
10	15.80	5.50	0.35	0.35	0.35	0.35	12.20	5.50	0.35	0.35	0.35	0.35	
11	15.80	5.50	0.35	0.35	0.35	0.35	10.40	5.50	0.35	0.35	0.35	0.35	
12	15.20	5.50	0.35	0.35	0.35	0.35	41.00	5.50	0.35	0.35	0.35	0.35	
13	21.65	5.50	0.35	0.35	0.35	0.35	80.62	4.10	0.35	0.35	0.35	0.35	
14	21.65	5.50	0.35	0.35	0.35	0.35	76.30	4.10	0.35	0.35	0.35	0.35	
15	21.65	5.50	0.35	0.35	0.35	0.35	61.30	2.80	0.35	0.35	0.35	0.35	
16	10.40	10.40	0.35	0.35	0.35	0.35	37.50	2.80	0.35	0.35	0.35	0.35	
17	9.89	10.40	0.35	0.35	0.35	0.35	34.30	2.80	0.35	0.35	0.35	0.35	
18	9.89	10.40	0.35	0.35	0.35	0.35	44.60	2.80	0.35	0.35	0.35	0.35	
19	9.55	10.40	0.35	0.35	0.35	0.35	41.00	2.20	0.35	0.35	0.35	0.35	
20	7.85	10.40	0.35	0.35	0.35	0.35	34.30	1.60	0.35	0.35	0.35	0.35	
21	7.85	10.40	0.35	0.35	0.35	0.35	34.30	1.60	0.35	8.70	0.35	0.35	
22	7.85	20.50	0.35	0.35	0.35	0.35	0.35	1.60	0.35	8.70	0.35	0.35	
23	7.85	20.50	0.35	0.35	0.35	0.35	16.20	0.35	0.35	8.70	0.35	0.35	
24	0.35	20.50	0.35	0.35	0.35	0.35	26.62	0.35	0.35	10.40	0.35	0.35	
25	0.35	5.50	0.35	0.35	0.35	0.35	25.50	0.35	0.35	5.50	0.35	0.35	
26	0.35	5.50	0.35	0.35	0.35	0.35	4.80	0.35	0.35	5.50	0.35	0.35	
27	0.35	5.50	0.35	0.35	0.35	0.35	137.70	0.35	0.35	5.50	0.35	0.35	
28	0.35	5.50	0.35	0.35	0.35	0.35	117.60	0.35	0.35	5.50	0.35	0.35	
29	0.35	21.65	0.35	0.35	0.35	0.35	0.35	0.70	0.35	0.35	0.35	0.35	
30	0.35	20.50	0.35	0.35	0.35	0.35	10.40	8.70	0.35	0.35	0.35	0.35	
31		20.50		0.35	0.35		8.70		0.35	0.35		0.35	
Total	278.78	291.05	124.95	10.85	10.85	346.87	698.32	134.75	12.25	66.55	9.80	10.85	1995.87 CMSDAY
Mean	9.29	9.39	4.16	0.35	0.35	11.56	22.53	4.49	0.40	2.15	0.35	0.35	5.47 CMS
Max	21.65	21.65	20.50	0.35	0.35	137.70	80.62	12.20	0.70	10.40	0.35	0.35	137.70 CMS
Min	0.35	5.50	0.35	0.35	0.35	0.35	0.35	0.70	0.35	0.35	0.35	0.35	0.35 CMS
Runoff	24.09	25.15	10.80	0.94	0.94	29.97	60.33	11.64	1.06	5.75	0.85	0.94	172.44 MCM
Momentary Peak	137.70	CMS.	at 104.80 m. (MSL.)	at 06.00 Hours	on Sep 27, 2021								
Runoff Yield	13.99	Liters/Second/Square KM.		Momentary Peak Yield	352.17	Liters/Second/Square KM.							

## WATER YEAR : 2021

## SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban Khok Mo, Uthai Thani (Ct.8)

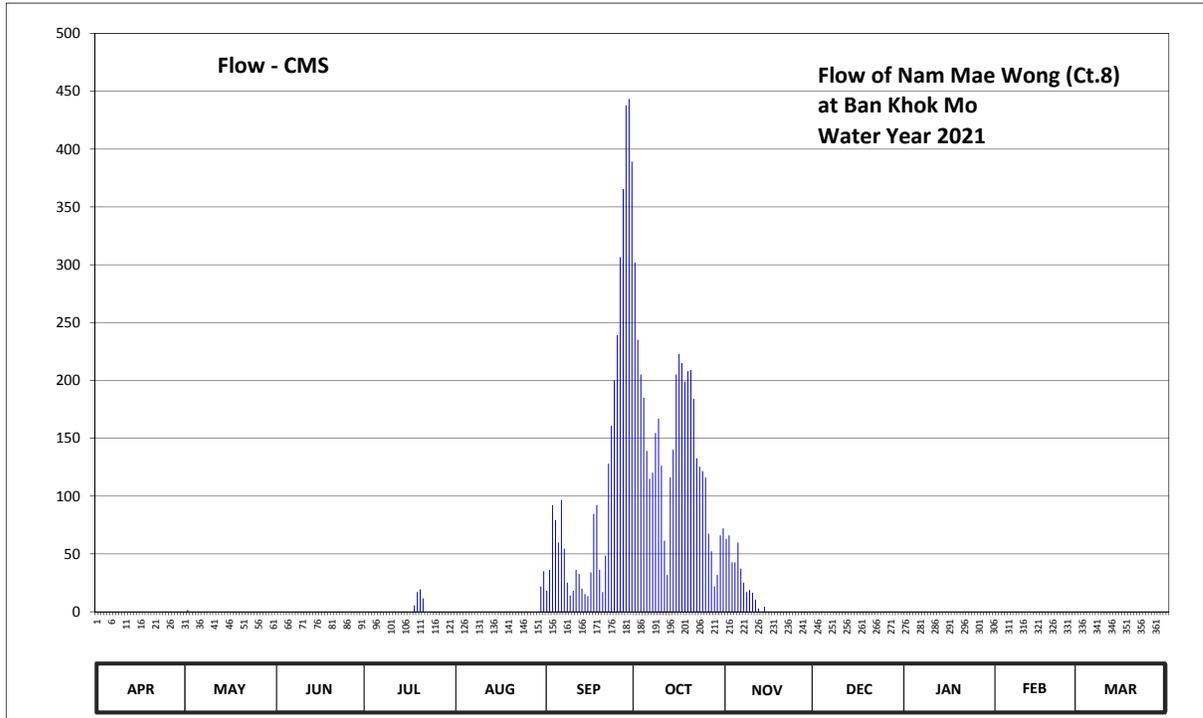
Lat 15 - 32 - 21 N Long 99 - 53 - 41 E

Location : on left bank at Ban Khok Mo.

	<b>Ban</b>	<b>Khok Mo</b>	<b>Amphoe</b>	<b>Thap Than</b>	<b>Changwat</b>	<b>Uthai Thani</b>
<b>Drainage Area</b>	2,839	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the sling pole				<b>Elevation</b>	+34.285 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1975 - 1978, 2008 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1975 - 1978, 2008 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1975 - 1978, 2008 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.49	30.32	27.76	27.50	30.00	30.72	33.58	31.14	29.95	27.81	27.19	26.48	
2	26.49	30.43	27.77	27.49	29.77	30.92	33.01	31.16	29.81	27.79	27.18	27.18	
3	26.49	30.25	28.20	27.48	29.49	31.31	32.71	30.98	29.66	27.74	27.18	27.18	
4	26.48	30.18	28.40	27.45	29.30	31.24	32.50	30.98	29.47	27.42	27.18	27.18	
5	26.48	30.27	28.31	27.41	29.13	31.12	31.98	31.12	29.30	27.17	27.18	27.18	
6	26.48	30.16	28.22	27.41	28.91	31.33	31.46	30.93	29.16	27.17	27.18	27.21	
7	26.48	30.11	28.10	27.39	28.75	31.08	31.57	30.82	29.02	27.17	27.18	27.19	
8	26.48	30.08	28.37	27.37	28.61	30.82	32.16	30.70	28.89	27.17	27.18	27.18	
9	26.48	30.03	28.53	27.35	28.48	30.65	32.30	30.73	28.78	27.17	27.18	27.18	
10	26.48	30.00	28.61	27.34	28.37	30.72	31.70	30.69	28.67	27.17	27.18	27.18	
11	26.48	29.98	28.38	27.39	28.30	30.92	31.13	30.59	28.54	27.17	27.18	27.18	
12	26.48	29.95	28.03	27.40	28.32	30.89	30.88	30.45	28.41	27.17	27.18	27.18	
13	26.48	29.84	27.83	27.40	28.35	30.75	31.48	30.35	28.31	27.18	27.18	27.18	
14	26.48	29.67	27.77	27.46	28.40	30.67	32.00	30.48	28.24	27.18	27.18	27.18	
15	26.48	29.49	27.75	27.91	28.44	30.64	32.71	30.36	28.22	27.18	27.18	27.18	
16	26.78	29.28	27.76	30.00	28.69	30.90	32.89	30.34	28.18	27.18	27.18	27.18	
17	28.00	29.09	27.76	30.25	28.76	31.27	32.81	30.38	28.14	27.18	27.18	27.18	
18	27.90	28.89	27.74	30.50	28.61	31.31	32.65	30.39	28.09	27.19	27.18	27.18	
19	27.97	28.70	27.73	30.70	28.46	30.92	32.74	30.39	28.04	27.18	27.18	27.18	
20	28.17	28.50	27.72	30.74	28.42	30.70	32.75	30.25	28.01	27.18	27.18	27.18	
21	28.41	28.31	27.70	30.61	28.40	31.03	32.49	30.08	28.01	27.18	27.18	27.18	
22	28.54	28.11	27.66	30.39	28.37	31.74	31.84	30.11	28.01	27.18	27.18	27.18	
23	28.57	27.89	27.61	30.19	28.33	32.23	31.68	30.32	28.01	27.18	27.18	27.18	
24	28.49	27.75	27.55	30.16	28.29	32.66	31.60	30.35	28.00	27.18	27.18	27.18	
25	28.29	27.67	27.48	30.16	28.26	33.05	31.48	30.18	27.98	27.18	27.18	27.18	
26	28.09	27.72	27.42	30.16	28.24	33.61	31.17	30.10	27.97	27.18	27.18	27.18	
27	27.89	27.79	27.39	30.15	28.55	33.99	31.06	30.05	27.96	27.18	27.18	27.18	
28	27.57	27.81	27.45	30.15	29.32	34.41	30.78	30.04	27.92	27.18	27.18	27.18	
29	27.67	27.83	27.49	30.12	30.15	34.44	30.88	30.04	27.87	27.18	27.18	27.18	
30	27.72	27.82	27.50	30.10	30.78	34.13	31.16	30.03	27.84	27.18	27.18	27.18	
31		27.80		30.05	30.91		31.20		27.82	27.18		27.18	
Mean	27.24	29.09	27.87	28.91	28.88	31.67	31.95	30.48	28.46	27.24	27.18	27.16	
Max	28.57	30.43	28.61	30.74	30.91	34.44	33.58	31.16	29.95	27.81	27.19	27.21	34.44
Min	26.48	27.67	27.39	27.34	28.24	30.64	30.78	30.03	27.82	27.17	27.18	26.48	26.48
Annual Max Momentary Gage Height	34.63		m. (MSL.) ,				at 23.00 Hours ,		on Sep 28, 2021				
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	25.64		m. (MSL.)				
Left Bank Elevation		34.29		m. (MSL.) ,									
Right Bank Elevation		34.29		m. (MSL.) ,		Drainage Are	2,839		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	18.20	302.00	63.00	0.00	0.00	0.00	0.00	
2	0.00	1.65	0.00	0.00	0.00	36.20	235.00	66.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	92.20	205.00	42.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	79.20	185.00	42.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	60.00	139.08	60.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	96.60	115.00	37.30	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	54.60	120.22	25.20	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	25.20	154.40	17.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	14.00	167.00	18.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	18.20	126.20	16.40	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	36.20	61.50	10.45	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	32.90	31.80	2.75	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	20.00	116.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	15.20	140.00	4.40	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	13.40	205.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	34.00	223.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	84.60	215.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	5.50	0.00	92.20	199.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	17.00	0.00	36.20	208.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	19.40	0.00	17.00	209.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	11.60	0.00	48.60	184.10	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	128.04	132.64	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	160.70	125.28	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	200.00	121.60	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	239.00	116.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	306.50	67.50	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	365.40	52.20	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	437.80	21.80	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	443.20	31.80	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	21.80	389.10	66.00	0.00	0.00	0.00	0.00	0.00	
31		0.00		0.00	35.10		72.00		0.00	0.00		0.00	
<b>Total</b>	0.00	1.65	0.00	53.50	56.90	3594.44	4348.12	406.90	0.00	0.00	0.00	0.00	8461.51 CMSDAY
<b>Mean</b>	0.00	0.05	0.00	1.73	1.84	119.81	140.26	13.56	0.00	0.00	0.00	0.00	23.18 CMS
<b>Max</b>	0.00	1.65	0.00	19.40	35.10	443.20	302.00	66.00	0.00	0.00	0.00	0.00	443.20 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	13.40	21.80	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.14	0.00	4.62	4.92	310.56	375.68	35.16	0.00	0.00	0.00	0.00	731.07 MCM
<b>Momentary Peak</b>	477.40	CMS.	at 34.63 m. (MSL.)	at 23.00 Hours	on Sep 28, 2021								
<b>Runoff Yield</b>	8.17	Liters/Second/Square KM.				<b>Momentary Peak Yield</b>	168.16	Liters/Second/Square KM.					

## WATER YEAR : 2021

## SAKAE KRANG RIVER BASIN

Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)

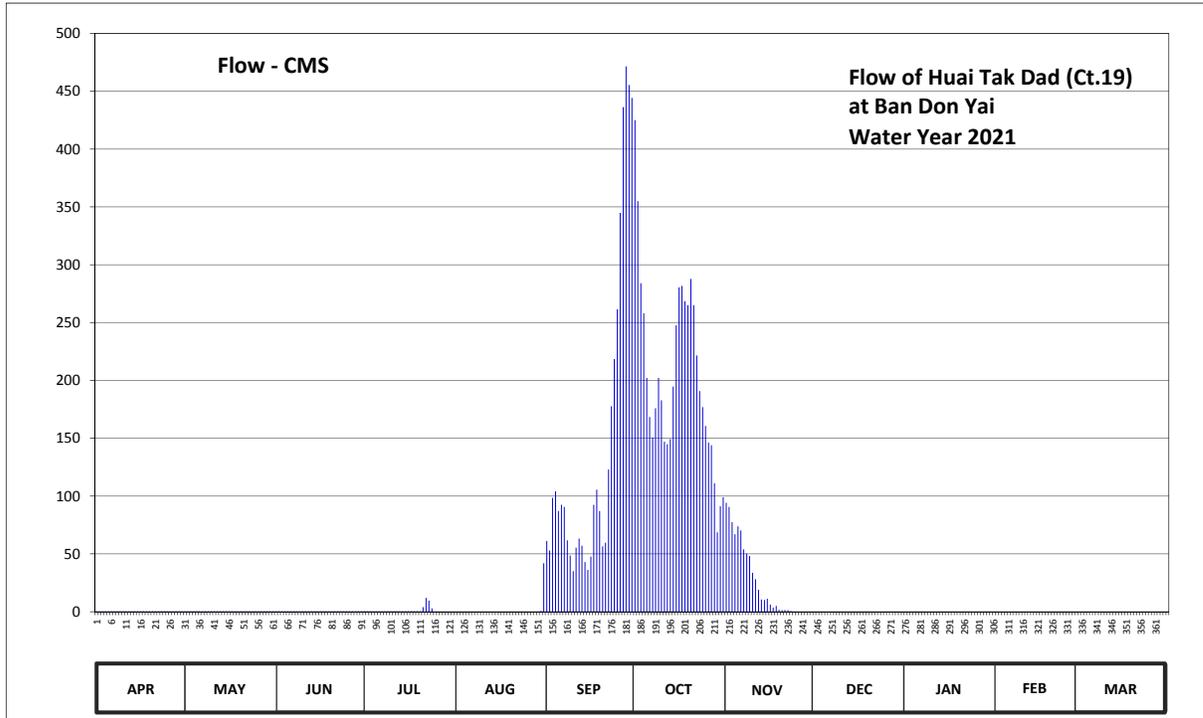
Lat 15 - 27 - 37 N Long 100 - 01 - 18 E

Location : on right bank at Ban Don Yai

	<b>Ban</b>	<b>Don Yai</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Uthai Thani</b>
<b>Drainage Area</b>	4,083	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 5.00 meters from the top staff gage.				<b>Elevation</b>	+24.432 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1998 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.26	17.26	17.26	17.26	17.21	19.40	23.10	19.97	17.11	17.11	17.11	17.11	
2	17.26	17.26	17.26	17.26	17.21	19.24	22.64	19.91	17.11	17.11	17.11	17.11	
3	17.26	17.26	17.26	17.26	17.21	20.04	22.10	19.69	17.11	17.11	17.11	17.11	
4	17.26	17.26	17.26	17.26	17.21	20.13	21.88	19.51	17.11	17.11	17.11	17.11	
5	17.26	17.26	17.26	17.26	17.17	19.85	21.36	19.63	17.11	17.11	17.11	17.11	
6	17.26	17.26	17.26	17.26	17.09	19.94	20.98	19.57	17.11	17.11	17.11	17.11	
7	17.26	17.26	17.26	17.26	17.09	19.91	20.77	19.26	17.11	17.11	17.11	17.11	
8	17.26	17.26	17.26	17.26	17.09	19.41	21.07	19.19	17.11	17.11	17.11	17.11	
9	17.26	17.26	17.26	17.26	17.09	19.15	21.36	19.14	17.11	17.11	17.11	17.11	
10	17.26	17.26	17.26	17.26	17.09	18.83	21.15	18.79	17.11	17.11	17.11	17.11	
11	17.26	17.26	17.26	17.26	17.09	19.29	20.72	18.64	17.11	17.11	17.11	17.11	
12	17.26	17.26	17.26	17.26	17.09	19.44	20.69	18.35	17.11	17.11	17.11	17.11	
13	17.26	17.26	17.26	17.26	17.09	19.32	20.75	18.03	17.11	17.11	17.11	17.11	
14	17.26	17.26	17.26	17.26	17.09	19.02	21.28	18.01	17.11	17.11	17.11	17.11	
15	17.26	17.26	17.26	17.26	17.09	18.86	21.79	18.06	17.11	17.11	17.11	17.11	
16	17.26	17.26	17.26	17.26	17.09	19.13	22.07	17.80	17.11	17.11	17.11	17.11	
17	17.26	17.26	17.26	17.26	17.09	19.94	22.08	17.58	17.11	17.11	17.11	17.11	
18	17.26	17.26	17.26	17.26	17.09	20.15	21.97	17.71	17.11	17.11	17.11	17.11	
19	17.26	17.26	17.26	17.26	17.09	19.85	21.94	17.42	17.11	17.11	17.11	17.11	
20	17.26	17.26	17.26	17.26	17.09	19.31	22.13	17.40	17.11	17.11	17.11	17.11	
21	17.26	17.26	17.26	17.62	17.09	19.37	21.94	17.41	17.11	17.11	17.11	17.11	
22	17.26	17.26	17.26	18.10	17.09	20.40	21.55	17.40	17.11	17.11	17.11	17.11	
23	17.26	17.26	17.26	17.98	17.09	21.09	21.24	17.27	17.11	17.11	17.11	17.11	
24	17.26	17.26	17.26	17.52	17.09	21.52	21.08	17.11	17.11	17.11	17.11	17.11	
25	17.26	17.26	17.26	17.21	17.09	21.91	20.89	17.11	17.11	17.11	17.11	17.11	
26	17.26	17.26	17.26	17.21	17.09	22.57	20.71	17.11	17.11	17.11	17.11	17.11	
27	17.26	17.26	17.26	17.21	17.09	23.17	20.68	17.11	17.11	17.11	17.11	17.11	
28	17.26	17.26	17.26	17.21	17.09	23.39	20.23	17.11	17.11	17.11	17.11	17.11	
29	17.26	17.26	17.26	17.21	17.09	23.29	19.54	17.11	17.11	17.11	17.11	17.11	
30	17.26	17.26	17.26	17.21	17.09	23.22	19.92	17.11	17.11	17.11	17.11	17.11	
31	17.26	17.26	17.26	17.21	19.00		20.05		17.11	17.11		17.11	
Mean	17.26	17.26	17.26	17.32	17.18	20.34	21.28	18.18	17.11	17.11	17.11	17.11	
Max	17.26	17.26	17.26	18.10	19.00	23.39	23.10	19.97	17.11	17.11	17.11	17.11	23.39
Min	17.26	17.26	17.26	17.21	17.09	18.83	19.54	17.11	17.11	17.11	17.11	17.11	17.09
Annual Max Momentary Gage Height	23.43			m. (MSL.) ,		at 19.00 Hours , on Sep 28, 2021							
Zero Gage at Bottom Elevation	0.00			m. (MSL.) ,		River Bed	16.78	m. (MSL.)					
Left Bank Elevation		24.43		m. (MSL.) ,									
Right Bank Elevation		24.32		m. (MSL.) ,		Drainage Are	4,083	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.42	0.42	0.42	0.07	61.20	425.00	94.20	0.00	0.00	0.00	0.00	
2	0.42	0.42	0.42	0.42	0.07	52.88	355.00	90.60	0.00	0.00	0.00	0.00	
3	0.42	0.42	0.42	0.42	0.07	98.40	284.00	77.40	0.00	0.00	0.00	0.00	
4	0.42	0.42	0.42	0.42	0.07	104.10	258.00	66.96	0.00	0.00	0.00	0.00	
5	0.42	0.42	0.42	0.42	0.00	87.00	202.20	73.80	0.00	0.00	0.00	0.00	
6	0.42	0.42	0.42	0.42	0.00	92.40	168.30	70.32	0.00	0.00	0.00	0.00	
7	0.42	0.42	0.42	0.42	0.00	90.60	150.75	53.92	0.00	0.00	0.00	0.00	
8	0.42	0.42	0.42	0.42	0.00	61.72	175.95	50.36	0.00	0.00	0.00	0.00	
9	0.42	0.42	0.42	0.42	0.00	48.60	202.20	48.16	0.00	0.00	0.00	0.00	
10	0.42	0.42	0.42	0.42	0.00	35.08	182.75	33.64	0.00	0.00	0.00	0.00	
11	0.42	0.42	0.42	0.42	0.00	55.48	147.00	28.24	0.00	0.00	0.00	0.00	
12	0.42	0.42	0.42	0.42	0.00	63.28	144.75	19.00	0.00	0.00	0.00	0.00	
13	0.42	0.42	0.42	0.42	0.00	57.04	149.25	10.60	0.00	0.00	0.00	0.00	
14	0.42	0.42	0.42	0.42	0.00	42.88	194.60	10.20	0.00	0.00	0.00	0.00	
15	0.42	0.42	0.42	0.42	0.00	36.16	247.50	11.20	0.00	0.00	0.00	0.00	
16	0.42	0.42	0.42	0.42	0.00	47.72	280.40	6.20	0.00	0.00	0.00	0.00	
17	0.42	0.42	0.42	0.42	0.00	92.40	281.60	3.56	0.00	0.00	0.00	0.00	
18	0.42	0.42	0.42	0.42	0.00	105.50	268.50	5.12	0.00	0.00	0.00	0.00	
19	0.42	0.42	0.42	0.42	0.00	87.00	265.00	1.64	0.00	0.00	0.00	0.00	
20	0.42	0.42	0.42	0.42	0.00	56.52	287.70	1.40	0.00	0.00	0.00	0.00	
21	0.42	0.42	0.42	4.04	0.00	59.64	265.00	1.52	0.00	0.00	0.00	0.00	
22	0.42	0.42	0.42	12.00	0.00	123.00	221.50	1.40	0.00	0.00	0.00	0.00	
23	0.42	0.42	0.42	9.62	0.00	177.65	190.80	0.49	0.00	0.00	0.00	0.00	
24	0.42	0.42	0.42	2.84	0.00	218.40	176.80	0.00	0.00	0.00	0.00	0.00	
25	0.42	0.42	0.42	0.07	0.00	261.50	160.65	0.00	0.00	0.00	0.00	0.00	
26	0.42	0.42	0.42	0.07	0.00	344.80	146.25	0.00	0.00	0.00	0.00	0.00	
27	0.42	0.42	0.42	0.07	0.00	436.20	144.00	0.00	0.00	0.00	0.00	0.00	
28	0.42	0.42	0.42	0.07	0.00	471.40	111.10	0.00	0.00	0.00	0.00	0.00	
29	0.42	0.42	0.42	0.07	0.00	455.40	68.64	0.00	0.00	0.00	0.00	0.00	
30	0.42	0.42	0.42	0.07	0.63	444.20	91.20	0.00	0.00	0.00	0.00	0.00	
31	0.42	0.42	0.42	0.07	42.00		99.00		0.00	0.00		0.00	
<b>Total</b>	12.60	13.02	12.60	37.39	42.91	4368.15	6345.39	759.93	0.00	0.00	0.00	0.00	11591.99 CMSDAY
<b>Mean</b>	0.42	0.42	0.42	1.21	1.38	145.61	204.69	25.33	0.00	0.00	0.00	0.00	31.76 CMS
<b>Max</b>	0.42	0.42	0.42	12.00	42.00	471.40	425.00	94.20	0.00	0.00	0.00	0.00	471.40 CMS
<b>Min</b>	0.42	0.42	0.42	0.07	0.00	35.08	68.64	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.09	1.12	1.09	3.23	3.71	377.41	548.24	65.66	0.00	0.00	0.00	0.00	1001.55 MCM
<b>Momentary Peak</b>	477.80 CMS. at 23.43 m. (MSL.) at 19.00 Hours , on Sep 28, 2021												
<b>Runoff Yield</b>	7.78 Liters/Second/Square KM.			Momentary Peak Yield			117.02 Liters/Second/Square KM.						

## WATER YEAR : 2021

## SAKAE KRANG RIVER BASIN

## Lower Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20)

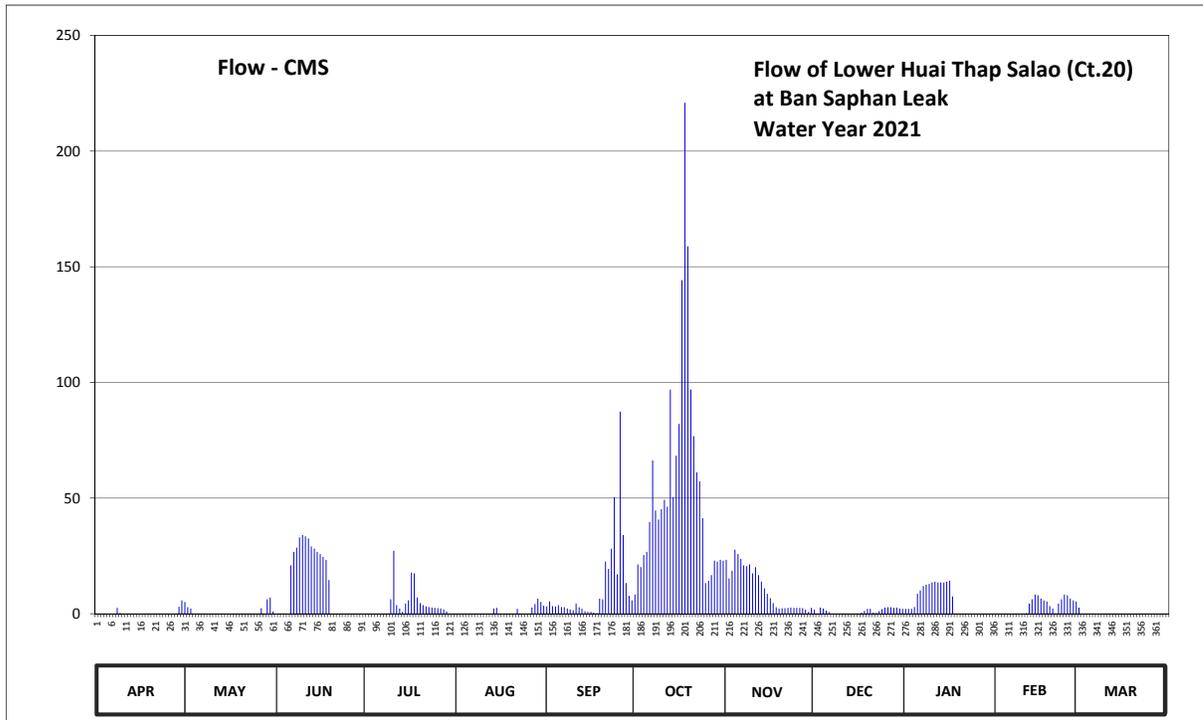
Lat 15 - 26 - 50 N Long 99 - 35 - 13 E

Location : on right bank at Ban Saphan Leak

	<b>Ban</b>	Saphan Leak	<b>Amphoe</b>	Lan Sak	<b>Changwat</b>	Uthai Thani
<b>Drainage Area</b>	674	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank near the automatic gage buiding				<b>Elevation</b>	+101.800 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1999 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2007 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2007 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow					
<b>General Description</b>	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.63	99.18	98.57	98.29	98.70	99.09	99.31	99.74	98.98	99.01	98.08	99.02	
2	98.62	99.06	98.38	98.31	98.64	99.19	99.69	99.53	98.81	99.01	98.01	98.66	
3	98.61	99.02	98.30	98.32	98.62	99.10	99.66	99.62	99.05	99.01	97.98	98.37	
4	98.58	98.78	98.27	98.30	98.60	99.09	99.79	99.84	99.02	99.07	98.02	98.23	
5	98.61	98.65	98.25	98.27	98.62	99.12	99.82	99.80	98.95	99.32	98.04	98.15	
6	98.62	98.55	99.68	98.25	98.62	99.07	100.08	99.75	98.90	99.37	98.06	98.15	
7	98.69	98.51	99.82	98.23	98.59	99.06	100.52	99.68	98.78	99.43	98.06	98.23	
8	99.04	98.46	99.86	98.20	98.49	99.02	100.17	99.67	98.65	99.45	98.06	98.36	
9	98.84	98.68	99.95	98.41	98.34	98.99	100.10	99.69	98.52	99.46	98.06	98.41	
10	98.65	98.59	99.97	99.23	98.32	98.96	100.18	99.59	98.30	99.48	98.26	98.32	
11	98.56	98.57	99.96	99.83	98.30	99.15	100.25	99.66	98.17	99.49	98.83	98.24	
12	98.47	98.49	99.94	99.12	98.31	99.06	100.20	99.57	98.15	99.48	99.15	98.18	
13	98.41	98.42	99.87	99.02	98.49	99.01	100.93	99.49	98.19	99.48	99.23	98.24	
14	98.35	98.32	99.85	98.91	99.02	98.93	100.27	99.40	98.17	99.48	99.31	98.34	
15	98.31	98.22	99.82	99.15	99.04	98.91	100.55	99.32	98.16	99.49	99.30	98.42	
16	98.27	98.23	99.80	99.21	98.75	98.91	100.74	99.25	98.65	99.50	99.24	98.44	
17	98.25	98.22	99.77	99.60	98.63	98.87	101.41	99.16	98.87	99.28	99.21	98.43	
18	98.28	98.20	99.74	99.59	98.51	98.84	101.97	99.06	98.94	98.43	99.19	98.20	
19	98.30	98.20	99.51	99.26	98.33	99.24	101.53	99.02	99.01	98.30	99.10	98.15	
20	98.27	98.21	98.75	99.16	98.29	99.23	100.93	99.03	99.01	98.21	99.02	98.18	
21	98.25	98.24	98.38	99.12	98.28	99.72	100.67	99.03	98.87	98.16	98.83	98.17	
22	98.23	98.22	98.31	99.09	99.01	99.64	100.44	99.04	98.85	98.16	99.15	98.16	
23	98.22	98.21	98.77	99.07	98.66	99.85	100.38	99.05	98.93	98.16	99.23	98.25	
24	98.23	98.19	98.67	99.05	98.47	100.27	100.11	99.04	99.00	98.15	99.31	98.16	
25	98.23	98.16	98.54	99.04	98.32	99.58	99.47	99.04	99.05	98.15	99.30	98.19	
26	98.24	98.20	98.43	99.03	98.43	100.81	99.50	99.04	99.06	98.15	99.24	98.36	
27	98.27	99.03	98.42	99.02	99.05	99.97	99.57	99.03	99.06	98.14	99.21	98.35	
28	98.60	98.69	98.37	98.99	99.14	99.47	99.73	98.98	99.04	98.10	99.19	98.40	
29	99.08	99.23	98.34	98.92	99.24	99.29	99.72	98.91	99.05	98.09		98.42	
30	99.21	99.26	98.30	98.80	99.18	99.21	99.74	99.04	99.02	98.09		98.41	
31		98.92		98.75	99.11		99.73		99.01	98.08		98.41	
Mean	98.50	98.55	99.09	98.89	98.65	99.29	100.23	99.34	98.78	98.81	98.77	98.32	
Max	99.21	99.26	99.97	99.83	99.24	100.81	101.97	99.84	99.06	99.50	99.31	99.02	101.97
Min	98.22	98.16	98.25	98.20	98.28	98.84	99.31	98.91	98.15	98.08	97.98	98.15	97.98
Annual Max Momentary Gage Height	102.20		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	96.88	m. (MSL.)					
Left Bank Elevation		104.36	m. (MSL.) ,										
Right Bank Elevation		104.34	m. (MSL.) ,			Drainage Are	674	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	5.06	0.00	0.00	0.00	3.17	8.30	23.34	1.74	2.13	0.00	2.26	
2	0.00	2.78	0.00	0.00	0.00	5.28	21.31	15.28	0.07	2.13	0.00	0.00	
3	0.00	2.26	0.00	0.00	0.00	3.30	20.14	18.58	2.65	2.13	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	3.17	25.39	27.68	2.26	2.91	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	3.74	26.74	25.80	1.35	8.60	0.00	0.00	
6	0.00	0.00	20.92	0.00	0.00	2.91	39.66	23.75	0.70	10.10	0.00	0.00	
7	0.00	0.00	26.74	0.00	0.00	2.78	66.30	20.92	0.00	11.96	0.00	0.00	
8	2.52	0.00	28.62	0.00	0.00	2.26	44.62	20.53	0.00	12.60	0.00	0.00	
9	0.28	0.00	33.00	0.00	0.00	1.87	40.70	21.31	0.00	12.92	0.00	0.00	
10	0.00	0.00	34.00	6.25	0.00	1.48	45.18	17.44	0.00	13.56	0.00	0.00	
11	0.00	0.00	33.50	27.21	0.00	4.40	49.25	20.14	0.00	13.88	0.21	0.00	
12	0.00	0.00	32.50	3.74	0.00	2.78	46.30	16.72	0.00	13.56	4.40	0.00	
13	0.00	0.00	29.09	2.26	0.00	2.13	96.90	13.88	0.00	13.56	6.25	0.00	
14	0.00	0.00	28.15	0.83	2.26	1.09	50.43	11.00	0.00	13.56	8.30	0.00	
15	0.00	0.00	26.74	4.40	2.52	0.83	68.25	8.60	0.00	13.88	8.00	0.00	
16	0.00	0.00	25.80	5.75	0.00	0.83	82.00	6.75	0.00	14.20	6.50	0.00	
17	0.00	0.00	24.57	17.80	0.00	0.49	144.20	4.62	0.49	7.50	5.75	0.00	
18	0.00	0.00	23.34	17.44	0.00	0.28	220.85	2.78	1.22	0.00	5.28	0.00	
19	0.00	0.00	14.56	7.00	0.00	6.50	158.75	2.26	2.13	0.00	3.30	0.00	
20	0.00	0.00	0.00	4.62	0.00	6.25	96.90	2.39	2.13	0.00	2.26	0.00	
21	0.00	0.00	0.00	3.74	0.00	22.52	76.75	2.39	0.49	0.00	0.21	0.00	
22	0.00	0.00	0.00	3.17	2.13	19.36	61.10	2.52	0.35	0.00	4.40	0.00	
23	0.00	0.00	0.00	2.91	0.00	28.15	57.24	2.65	1.09	0.00	6.25	0.00	
24	0.00	0.00	0.00	2.65	0.00	50.43	41.26	2.52	2.00	0.00	8.30	0.00	
25	0.00	0.00	0.00	2.52	0.00	17.08	13.24	2.52	2.65	0.00	8.00	0.00	
26	0.00	0.00	0.00	2.39	0.00	87.30	14.20	2.52	2.78	0.00	6.50	0.00	
27	0.00	2.39	0.00	2.26	2.65	34.00	16.72	2.39	2.78	0.00	5.75	0.00	
28	0.00	0.00	0.00	1.87	4.18	13.24	22.93	1.74	2.52	0.00	5.28	0.00	
29	3.04	6.25	0.00	0.96	6.50	7.75	22.52	0.83	2.65	0.00	0.00	0.00	
30	5.75	7.00	0.00	0.00	5.06	5.75	23.34	2.52	2.26	0.00	0.00	0.00	
31		0.96		0.00	3.52		22.93		2.13	0.00		0.00	
<b>Total</b>	11.59	26.70	381.53	119.77	28.82	341.12	1724.40	326.37	36.44	169.18	94.94	2.26	3263.12 CMSDAY
<b>Mean</b>	0.39	0.86	12.72	3.86	0.93	11.37	55.63	10.88	1.18	5.46	3.39	0.07	8.94 CMS
<b>Max</b>	5.75	7.00	34.00	27.21	6.50	87.30	220.85	27.68	2.78	14.20	8.30	2.26	220.85 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.28	8.30	0.83	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.00	2.31	32.96	10.35	2.49	29.47	148.99	28.20	3.15	14.62	8.20	0.20	281.93 MCM
<b>Momentary Peak</b>	258.00 CMS. at 102.20 m. (MSL.) at 06.00 Hours , on Oct 18, 2021												
<b>Runoff Yield</b>	13.26 Liters/Second/Square KM.			Momentary Peak Yield			382.79 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PASAK RIVER BASIN

## Pasak River at Ban Tan Diao , Phetchabun (S.3)

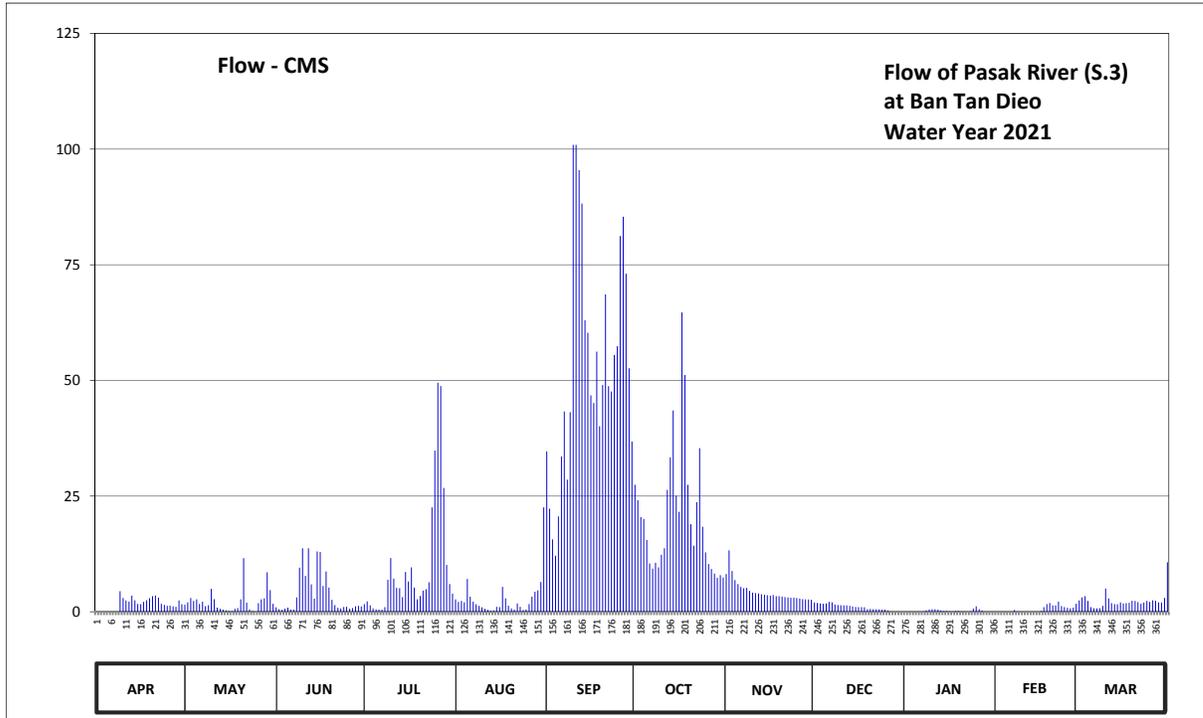
Lat 16 - 46 - 54 N Long 101 - 14 - 48 E

Location : on left bank near the bridge of Samakkhichai - Nonthakit Road.

	Ban Tan Diao	Amphoe Lom Sak	Changwat Phetchabun
<b>Drainage Area</b>	1,026 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+136.630 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the staff gage.	<b>Elevation</b>	+142.630 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1950 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by the concrete weir about 150 meters downstream from the gage site. Stage-discharge relation defined by 10 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.53	140.18	140.04	140.21	140.47	143.33	142.93	141.34	140.30	139.64	139.63	140.41	
2	139.53	140.31	139.94	140.36	140.33	142.57	142.70	141.86	140.27	139.76	139.66	140.57	
3	139.53	140.54	139.90	140.14	140.38	142.07	142.44	141.41	140.25	139.79	139.67	140.64	
4	139.54	140.38	139.96	139.98	140.31	141.75	142.41	141.18	140.23	139.75	139.68	140.38	
5	139.55	140.47	140.02	139.93	141.21	142.45	142.06	141.07	140.25	139.72	139.68	140.05	
6	139.58	140.22	139.91	139.92	140.62	143.27	141.58	140.98	140.33	139.72	139.77	139.99	
7	139.70	140.34	139.91	139.92	140.34	143.78	141.47	140.94	140.31	139.82	139.89	139.98	
8	139.65	140.10	140.57	140.05	140.20	142.99	141.60	140.95	140.19	139.88	139.81	139.99	
9	140.84	140.15	141.49	141.19	140.12	143.77	141.50	140.85	140.16	139.92	139.75	140.12	
10	140.55	140.92	141.90	141.70	140.04	145.85	141.77	140.79	140.15	139.94	139.71	140.93	
11	140.41	140.48	141.29	141.22	139.96	145.85	141.90	140.77	140.14	139.94	139.67	140.52	
12	140.35	140.02	141.90	140.95	139.90	145.69	142.86	140.76	140.14	139.91	139.66	140.26	
13	140.67	139.95	141.06	140.94	139.86	145.47	143.26	140.73	140.12	139.88	139.65	140.21	
14	140.42	139.91	140.50	140.59	139.88	144.61	143.79	140.71	140.08	139.84	139.63	140.20	
15	140.22	139.88	141.84	141.39	140.07	144.51	142.77	140.69	140.06	139.84	139.59	140.31	
16	140.21	139.85	141.83	141.14	140.05	143.95	142.52	140.67	140.05	139.82	139.84	140.25	
17	140.33	139.83	141.01	141.50	140.98	143.87	144.67	140.70	140.05	139.81	140.05	140.26	
18	140.42	139.96	141.40	140.96	140.52	144.35	144.14	140.64	140.04	139.84	140.21	140.28	
19	140.53	140.00	140.96	140.47	140.13	143.62	142.93	140.64	139.94	139.84	140.27	140.39	
20	140.64	140.47	140.44	140.65	139.98	144.05	142.33	140.62	139.95	139.82	140.14	140.38	
21	140.68	141.70	140.16	140.86	139.92	144.81	141.95	140.59	139.94	139.81	140.14	140.32	
22	140.56	140.29	140.01	140.91	140.25	144.04	142.67	140.57	139.94	139.79	140.34	140.23	
23	140.23	139.93	139.97	141.12	140.07	143.99	143.37	140.56	139.93	139.82	140.11	140.30	
24	140.17	139.84	140.06	142.59	139.89	144.32	142.29	140.56	139.91	139.97	140.05	140.38	
25	140.12	139.79	140.07	143.34	139.92	144.40	141.82	140.54	139.91	140.09	140.01	140.33	
26	140.13	140.26	139.96	144.07	140.21	145.25	141.57	140.51	139.87	139.94	139.98	140.42	
27	140.09	140.47	140.00	144.04	140.62	145.38	141.46	140.48	139.77	139.87	140.02	140.39	
28	140.07	140.52	140.09	142.89	140.82	144.97	141.35	140.47	139.73	139.79	140.23	140.31	
29	140.41	141.38	140.12	141.55	140.87	144.20	141.24	140.46	139.70	139.74		140.30	
30	140.20	140.88	140.08	141.07	141.13	143.45	141.31	140.44	139.68	139.72		140.55	
31		140.23		140.75	142.59		141.25		139.67	139.65		141.61	
Mean	140.16	140.30	140.55	141.17	140.38	144.09	142.32	140.78	140.03	139.83	139.89	140.36	
Max	140.84	141.70	141.90	144.07	142.59	145.85	144.67	141.86	140.33	140.09	140.34	141.61	145.85
Min	139.53	139.79	139.90	139.92	139.86	141.75	141.24	140.44	139.67	139.64	139.59	139.98	139.53
Annual Max Momentary Gage Height	145.87		m. (MSL.) ,				at 13.00 Hours ,						
Zero Gage at Bottom Elevation	136.63		m. (MSL.) ,			River Bed	138.65		m. (MSL.)				
Left Bank Elevation	146.41		m. (MSL.) ,										
Right Bank Elevation	146.04		m. (MSL.) ,			Drainage Are	1,026		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.52	0.96	1.64	2.68	34.64	27.44	8.16	2.00	0.00	0.00	2.44	
2	0.00	2.04	0.56	2.24	2.12	22.28	24.10	13.26	1.88	0.00	0.00	3.08	
3	0.00	2.96	0.40	1.36	2.32	15.64	20.46	8.79	1.80	0.00	0.00	3.36	
4	0.00	2.32	0.64	0.72	2.04	12.10	20.04	6.84	1.72	0.00	0.00	2.32	
5	0.00	2.68	0.88	0.52	2.08	20.60	15.52	5.99	1.80	0.00	0.00	1.00	
6	0.00	1.68	0.44	0.48	3.28	33.56	10.40	5.36	2.12	0.00	0.00	0.76	
7	0.00	2.16	0.44	0.48	2.16	43.30	9.33	5.08	2.04	0.08	0.36	0.72	
8	0.00	1.20	3.08	1.00	1.60	28.52	10.60	5.15	1.56	0.32	0.04	0.76	
9	4.44	1.40	9.51	6.92	1.28	43.10	9.60	4.50	1.44	0.48	0.00	1.28	
10	3.00	4.94	13.70	11.60	0.96	100.90	12.30	4.14	1.40	0.56	0.00	5.01	
11	2.44	2.72	7.72	7.16	0.64	100.90	13.70	4.02	1.36	0.56	0.00	2.88	
12	2.20	0.88	13.70	5.15	0.40	95.46	26.34	3.96	1.36	0.44	0.00	1.84	
13	3.48	0.60	5.92	5.08	0.24	88.24	33.38	3.78	1.28	0.32	0.00	1.64	
14	2.48	0.44	2.80	3.16	0.32	62.98	43.50	3.66	1.12	0.16	0.00	1.60	
15	1.68	0.32	13.04	8.61	1.08	60.27	25.08	3.56	1.04	0.16	0.00	2.04	
16	1.64	0.20	12.93	6.52	1.00	46.75	21.58	3.48	1.00	0.08	0.16	1.80	
17	2.12	0.12	5.57	9.60	5.36	45.10	64.66	3.60	1.00	0.04	1.00	1.84	
18	2.48	0.64	8.70	5.22	2.88	56.20	51.16	3.36	0.96	0.16	1.64	1.92	
19	2.92	0.80	5.22	2.68	1.32	40.10	27.44	3.36	0.56	0.16	1.88	2.36	
20	3.36	2.68	2.56	3.40	0.72	49.00	18.92	3.28	0.60	0.08	1.36	2.32	
21	3.52	11.60	1.44	4.56	0.48	68.58	14.25	3.16	0.56	0.04	1.36	2.08	
22	3.04	1.96	0.84	4.87	1.80	48.76	23.68	3.08	0.56	0.00	2.16	1.72	
23	1.72	0.52	0.68	6.36	1.08	47.59	35.36	3.04	0.52	0.08	1.24	2.00	
24	1.48	0.16	1.04	22.56	0.36	55.48	18.37	3.04	0.44	0.68	1.00	2.32	
25	1.28	0.00	1.08	34.82	0.48	57.40	12.82	2.96	0.44	1.16	0.84	2.12	
26	1.32	1.84	0.64	49.48	1.64	81.20	10.30	2.84	0.28	0.56	0.72	2.48	
27	1.16	2.68	0.80	48.76	3.28	85.36	9.24	2.72	0.00	0.28	0.88	2.36	
28	1.08	2.88	1.16	26.76	4.32	73.06	8.25	2.68	0.00	0.00	1.72	2.04	
29	2.44	8.52	1.28	10.10	4.62	52.60	7.32	2.64	0.00	0.00		2.00	
30	1.60	4.68	1.12	5.99	6.44	36.80	7.89	2.56	0.00	0.00		3.00	
31		1.72		3.90	22.56		7.40		0.00	0.00		10.70	
<b>Total</b>	50.88	68.86	118.85	301.70	86.54	1606.47	640.43	132.05	30.84	6.40	16.36	73.79	3133.17 CMSDAY
<b>Mean</b>	1.70	2.22	3.96	9.73	2.79	53.55	20.66	4.40	0.99	0.21	0.58	2.38	8.58 CMS
<b>Max</b>	4.44	11.60	13.70	49.48	22.56	100.90	64.66	13.26	2.12	1.16	2.16	10.70	100.90 CMS
<b>Min</b>	0.00	0.00	0.40	0.48	0.24	12.10	7.32	2.56	0.00	0.00	0.00	0.72	0.00 CMS
<b>Runoff</b>	4.40	5.95	10.27	26.07	7.48	138.80	55.33	11.41	2.66	0.55	1.41	6.38	270.71 MCM
<b>Momentary Peak</b>		101.58 CMS.											at 145.87 m. (MSL.) at 13.00 Hours , on Sep 11, 2021
<b>Runoff Yield</b>		8.28		Liters/Second/Square KM.									Momentary Peak Yield 97.96 Liters/Second/Square KM.

## WATER YEAR : 2021

## PASAK RIVER BASIN

## Pasak River at Mueang , Phetchabun (S.4B)

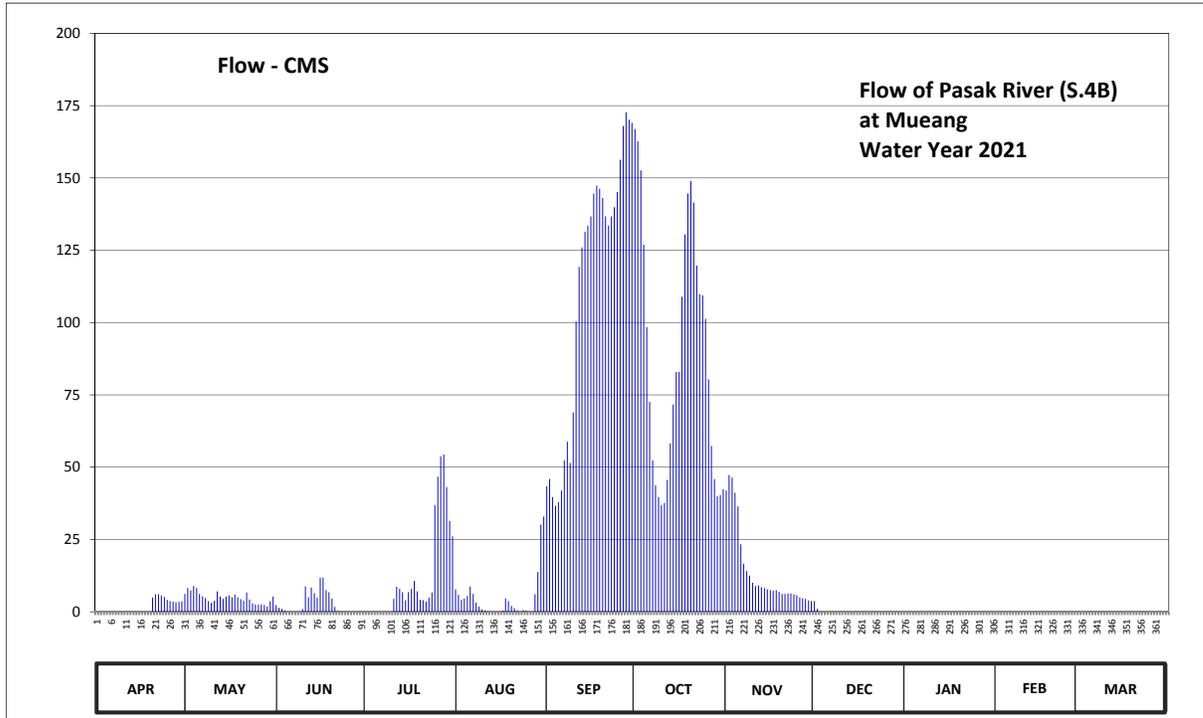
Lat 16 - 25 - 24 N Long 101 - 09 - 43 E

Location : on left bank about 300 meters downstream, Phatthana Phak Nua 2 bridge.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Phetchabun
<b>Drainage Area</b>	3,141 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+106.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank in front of town - hall Changwat Phetchabun.	<b>Elevation</b>	+116.728 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 8 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.15	111.99	111.61	111.05	112.12	112.98	116.07	112.92	111.77	110.11	110.35	110.44	
2	110.13	112.15	111.48	111.03	111.96	113.07	115.99	113.12	111.43	110.11	110.34	110.44	
3	110.11	112.09	111.43	111.00	111.81	112.83	115.80	113.09	110.82	110.11	110.34	110.44	
4	110.10	112.20	111.35	110.96	111.85	112.71	115.30	112.89	110.59	110.10	110.33	110.44	
5	110.10	112.15	111.26	110.91	111.93	112.76	114.66	112.70	110.58	110.10	110.33	110.44	
6	110.13	111.99	111.21	110.87	112.19	112.92	113.95	112.61	110.57	110.09	110.17	110.43	
7	110.14	111.92	111.18	110.85	111.99	113.30	113.30	112.49	110.50	110.08	110.17	110.43	
8	110.16	111.87	111.17	110.85	111.72	113.52	112.99	112.42	110.34	110.07	110.16	110.43	
9	110.16	111.77	111.19	110.90	111.53	113.27	112.83	112.36	110.26	110.06	110.16	110.42	
10	110.16	111.71	111.43	110.88	111.41	113.84	112.72	112.25	110.22	110.05	110.16	110.42	
11	110.17	111.78	112.19	111.84	111.36	114.71	112.75	112.20	110.20	110.04	110.16	110.42	
12	110.17	112.06	111.89	112.18	111.32	115.13	113.06	112.21	110.20	110.03	110.17	110.41	
13	110.17	111.91	112.16	112.13	111.26	115.28	113.50	112.17	110.19	110.02	110.17	110.41	
14	110.21	111.84	112.01	112.04	111.23	115.40	113.92	112.15	110.19	110.02	110.17	110.40	
15	110.21	111.91	111.88	111.79	111.28	115.44	114.24	112.12	110.18	109.92	110.17	110.40	
16	110.20	111.94	112.33	112.04	111.24	115.50	114.24	112.10	110.17	109.92	110.14	110.40	
17	110.20	111.88	112.33	112.13	111.36	115.65	114.90	112.08	110.17	109.92	110.18	110.40	
18	110.20	111.97	112.10	112.28	111.85	115.70	115.38	112.10	110.17	109.92	110.18	110.39	
19	110.23	111.89	112.04	112.06	111.77	115.68	115.65	112.05	110.16	109.92	110.18	110.39	
20	111.88	111.83	111.85	111.81	111.57	115.62	115.73	111.99	110.16	109.92	110.18	110.39	
21	111.98	111.78	111.52	111.80	111.47	115.50	115.59	111.99	110.16	109.92	110.18	110.40	
22	111.98	112.03	111.33	111.75	111.36	115.44	115.14	112.00	110.15	109.92	110.19	110.40	
23	111.94	111.82	111.25	111.88	111.29	115.50	114.92	112.00	110.15	109.92	110.19	110.40	
24	111.90	111.69	111.21	112.03	111.37	115.56	114.91	111.98	110.13	109.92	110.19	110.43	
25	111.81	111.64	111.18	112.72	111.34	115.66	114.73	111.95	110.12	109.92	110.19	111.13	
26	111.77	111.63	111.16	113.10	111.29	115.87	114.17	111.89	110.12	109.91	110.19	111.12	
27	111.75	111.64	111.14	113.35	111.26	116.09	113.47	111.86	110.11	109.91	110.19	111.12	
28	111.73	111.61	111.12	113.37	111.98	116.18	113.07	111.84	110.11	109.91	110.19	111.12	
29	111.74	111.53	111.10	112.97	112.41	116.13	112.84	111.79	110.11	109.91		111.12	
30	111.76	111.76	111.08	112.50	112.45	116.11	112.86	111.77	110.11	110.36		110.85	
31		111.91		112.27	112.56		112.94		110.11	110.35		110.84	
Mean	110.78	111.87	111.54	111.85	111.66	114.78	114.25	112.24	110.33	110.01	110.20	110.56	
Max	111.98	112.20	112.33	113.37	112.56	116.18	116.07	113.12	111.77	110.36	110.35	111.13	116.18
Min	110.10	111.53	111.08	110.85	111.23	112.71	112.72	111.77	110.11	109.91	110.14	110.39	109.91
Annual Max Momentary Gage Height	116.20		m. (MSL.) ,			at 13.00 Hours ,	on Sep 28, 2021						
Zero Gage at Bottom Elevation	106.50		m. (MSL.) ,			River Bed	109.39	m. (MSL.)					
Left Bank Elevation		116.64		m. (MSL.) ,									
Right Bank Elevation		117.07		m. (MSL.) ,		Drainage Are	3,141	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	6.18	2.33	0.00	7.78	43.40	166.91	41.90	3.70	0.00	0.00	0.00	
2	0.00	8.20	1.35	0.00	5.82	45.86	162.67	47.26	0.98	0.00	0.00	0.00	
3	0.00	7.38	0.98	0.00	4.11	39.65	152.60	46.42	0.00	0.00	0.00	0.00	
4	0.00	8.90	0.38	0.00	4.55	36.65	126.90	41.15	0.00	0.00	0.00	0.00	
5	0.00	8.20	0.00	0.00	5.46	37.90	98.42	36.40	0.00	0.00	0.00	0.00	
6	0.00	6.18	0.00	0.00	8.76	41.90	72.55	23.30	0.00	0.00	0.00	0.00	
7	0.00	5.34	0.00	0.00	6.18	52.30	52.30	16.55	0.00	0.00	0.00	0.00	
8	0.00	4.77	0.00	0.00	3.20	58.80	43.65	14.10	0.00	0.00	0.00	0.00	
9	0.00	3.70	0.00	0.00	1.73	51.46	39.65	12.48	0.00	0.00	0.00	0.00	
10	0.00	3.10	0.98	0.00	0.83	68.92	36.90	10.00	0.00	0.00	0.00	0.00	
11	0.00	3.80	8.76	4.44	0.45	100.35	37.65	8.90	0.00	0.00	0.00	0.00	
12	0.00	7.02	4.99	8.62	0.15	119.25	45.58	9.12	0.00	0.00	0.00	0.00	
13	0.00	5.22	8.34	7.92	0.00	126.00	58.20	8.48	0.00	0.00	0.00	0.00	
14	0.00	4.44	6.42	6.78	0.00	131.40	71.56	8.20	0.00	0.00	0.00	0.00	
15	0.00	5.22	4.88	3.90	0.00	133.52	82.88	7.78	0.00	0.00	0.00	0.00	
16	0.00	5.58	11.79	6.78	0.00	136.70	82.88	7.50	0.00	0.00	0.00	0.00	
17	0.00	4.88	11.79	7.92	0.45	144.65	108.90	7.26	0.00	0.00	0.00	0.00	
18	0.00	5.94	7.50	10.66	4.55	147.30	130.50	7.50	0.00	0.00	0.00	0.00	
19	0.00	4.99	6.78	7.02	3.70	146.24	144.65	6.90	0.00	0.00	0.00	0.00	
20	4.88	4.33	4.55	4.11	2.03	143.06	148.89	6.18	0.00	0.00	0.00	0.00	
21	6.06	3.80	1.65	4.00	1.28	136.70	141.47	6.18	0.00	0.00	0.00	0.00	
22	6.06	6.66	0.23	3.50	0.45	133.52	119.70	6.30	0.00	0.00	0.00	0.00	
23	5.58	4.22	0.00	4.88	0.00	136.70	109.80	6.30	0.00	0.00	0.00	0.00	
24	5.10	2.93	0.00	6.66	0.53	139.88	109.35	6.06	0.00	0.00	0.00	0.00	
25	4.11	2.55	0.00	36.90	0.30	145.18	101.25	5.70	0.00	0.00	0.00	0.00	
26	3.70	2.48	0.00	46.70	0.00	156.31	80.29	4.99	0.00	0.00	0.00	0.00	
27	3.50	2.55	0.00	53.75	0.00	167.97	57.30	4.66	0.00	0.00	0.00	0.00	
28	3.30	2.33	0.00	54.33	6.06	172.74	45.86	4.44	0.00	0.00	0.00	0.00	
29	3.40	1.73	0.00	43.15	13.75	170.09	39.90	3.90	0.00	0.00	0.00	0.00	
30	3.60	3.60	0.00	31.40	30.15	169.03	40.40	3.70	0.00	0.00	0.00	0.00	
31		5.22		26.06	32.90		42.40		0.00	0.00		0.00	
<b>Total</b>	<b>49.29</b>	<b>151.44</b>	<b>83.70</b>	<b>379.48</b>	<b>145.17</b>	<b>3333.43</b>	<b>2751.96</b>	<b>419.61</b>	<b>4.68</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7318.76</b> CMSDAY
<b>Mean</b>	<b>1.64</b>	<b>4.89</b>	<b>2.79</b>	<b>12.24</b>	<b>4.68</b>	<b>111.11</b>	<b>88.77</b>	<b>13.99</b>	<b>0.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>20.05</b> CMS
<b>Max</b>	<b>6.06</b>	<b>8.90</b>	<b>11.79</b>	<b>54.33</b>	<b>32.90</b>	<b>172.74</b>	<b>166.91</b>	<b>47.26</b>	<b>3.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>172.74</b> CMS
<b>Min</b>	<b>0.00</b>	<b>1.73</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>36.65</b>	<b>36.90</b>	<b>3.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>4.26</b>	<b>13.08</b>	<b>7.23</b>	<b>32.79</b>	<b>12.54</b>	<b>288.01</b>	<b>237.77</b>	<b>36.25</b>	<b>0.40</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>632.34</b> MCM
<b>Momentary Peak</b>	<b>173.80 CMS. at 116.20 m. (MSL.) at 13.00 Hours , on Sep 28, 2021</b>												
<b>Runoff Yield</b>	<b>6.38 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>55.33 Liters/Second/Square KM.</b>					

## WATER YEAR : 2021

## PASAK RIVER BASIN

## Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)

Lat 14 - 47 - 22 N Long 101 - 07 - 02 E

Location : on right bank at Ban Tharahad.

	Ban Tharahad	Amphoe Wang Muang	Changwat Saraburi
<b>Drainge Area</b>	628 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the bridge.	<b>Elevation</b>	+52.984 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.39	42.48	42.51	42.37	42.27	42.25	42.54	42.83	42.26	42.43	42.37	42.52	
2	42.79	42.48	42.51	42.41	42.27	42.25	42.56	42.71	42.26	42.43	42.37	42.52	
3	42.79	42.48	42.51	42.41	42.30	42.25	42.56	42.60	42.27	42.43	42.37	42.52	
4	42.79	42.48	42.52	42.41	42.42	42.25	42.58	42.60	42.27	42.43	42.37	42.52	
5	42.79	42.48	42.52	42.39	42.42	42.25	42.62	42.42	42.26	42.43	42.37	42.52	
6	42.80	42.49	42.51	42.35	42.42	42.25	42.63	42.28	42.26	42.43	42.37	42.52	
7	42.79	42.49	42.51	42.34	42.41	42.25	42.63	42.80	42.26	42.43	42.37	42.52	
8	42.79	42.50	42.51	42.34	42.41	42.25	42.63	43.34	42.25	42.43	42.37	42.52	
9	42.79	42.50	42.51	42.35	42.40	42.24	42.62	43.15	42.25	42.43	42.37	42.52	
10	42.79	42.51	42.68	42.34	42.31	42.24	42.62	42.28	42.25	42.43	42.37	42.52	
11	42.79	42.52	42.80	42.33	42.28	42.23	42.62	42.27	42.25	42.43	42.37	42.52	
12	42.79	42.53	42.80	42.32	42.27	42.23	42.62	42.27	42.25	42.42	42.37	42.52	
13	42.79	42.54	42.68	42.33	42.35	42.23	42.62	42.27	42.27	42.42	42.37	42.54	
14	42.80	42.53	42.51	42.35	42.41	42.23	42.62	42.27	42.32	42.42	42.37	42.55	
15	42.79	42.51	42.51	42.32	42.41	42.23	42.64	42.27	42.34	42.42	42.37	42.57	
16	42.79	42.51	42.51	42.31	42.41	42.23	42.65	42.41	42.34	42.42	42.37	42.60	
17	42.79	42.51	42.51	42.31	42.41	42.23	43.19	42.53	42.34	42.42	42.37	42.61	
18	42.79	42.51	42.51	42.29	42.40	42.23	43.28	42.26	42.34	42.43	42.42	42.61	
19	42.74	42.51	42.51	42.27	42.40	42.23	42.71	42.56	42.34	42.40	42.48	42.61	
20	42.69	42.51	42.56	42.27	42.38	42.23	42.29	42.28	42.34	42.37	42.48	42.61	
21	42.69	42.52	42.67	42.27	42.27	42.23	42.28	42.27	42.34	42.38	42.49	42.61	
22	42.68	42.51	42.64	42.27	42.27	42.23	42.30	42.61	42.34	42.37	42.53	42.61	
23	42.68	42.65	42.71	42.27	42.42	42.23	42.63	42.28	42.34	42.37	42.52	42.61	
24	42.68	42.83	42.98	42.27	42.45	42.28	42.55	42.27	42.34	42.37	42.52	42.61	
25	42.68	42.69	42.87	42.27	42.40	42.27	42.28	42.26	42.34	42.37	42.52	42.61	
26	42.68	42.50	42.67	42.27	42.40	42.26	42.28	42.58	42.34	42.37	42.52	42.60	
27	42.68	42.50	42.67	42.27	42.37	42.57	42.28	42.27	42.36	42.37	42.52	42.60	
28	42.68	42.50	42.56	42.27	42.27	43.44	42.35	42.27	42.40	42.38	42.52	42.60	
29	42.70	42.50	42.38	42.27	42.27	43.76	42.65	42.44	42.41	42.37		42.60	
30	42.58	42.51	42.37	42.27	42.27	43.05	42.54	42.27	42.43	42.37		42.60	
31		42.51		42.27	42.27		42.59		42.43	42.37		42.60	
Mean	42.73	42.53	42.59	42.32	42.36	42.37	42.58	42.46	42.32	42.40	42.42	42.57	
Max	42.80	42.83	42.98	42.41	42.45	43.76	43.28	43.34	42.43	42.43	42.53	42.61	43.76
Min	42.39	42.48	42.37	42.27	42.27	42.23	42.28	42.26	42.25	42.37	42.37	42.52	42.23
Annual Max Momentary Gage Height	44.35		m. (MSL.) ,				at 18.00 Hours , on Sep 29, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	41.52	m. (MSL.)					
Left Bank Elevation		52.80		m. (MSL.) ,									
Right Bank Elevation		52.94		m. (MSL.) ,		Drainage Are	628	Square Kilometers					



## WATER YEAR : 2021

## PASAK RIVER BASIN

Pasak River at Ban Pa , Saraburi (S.9)

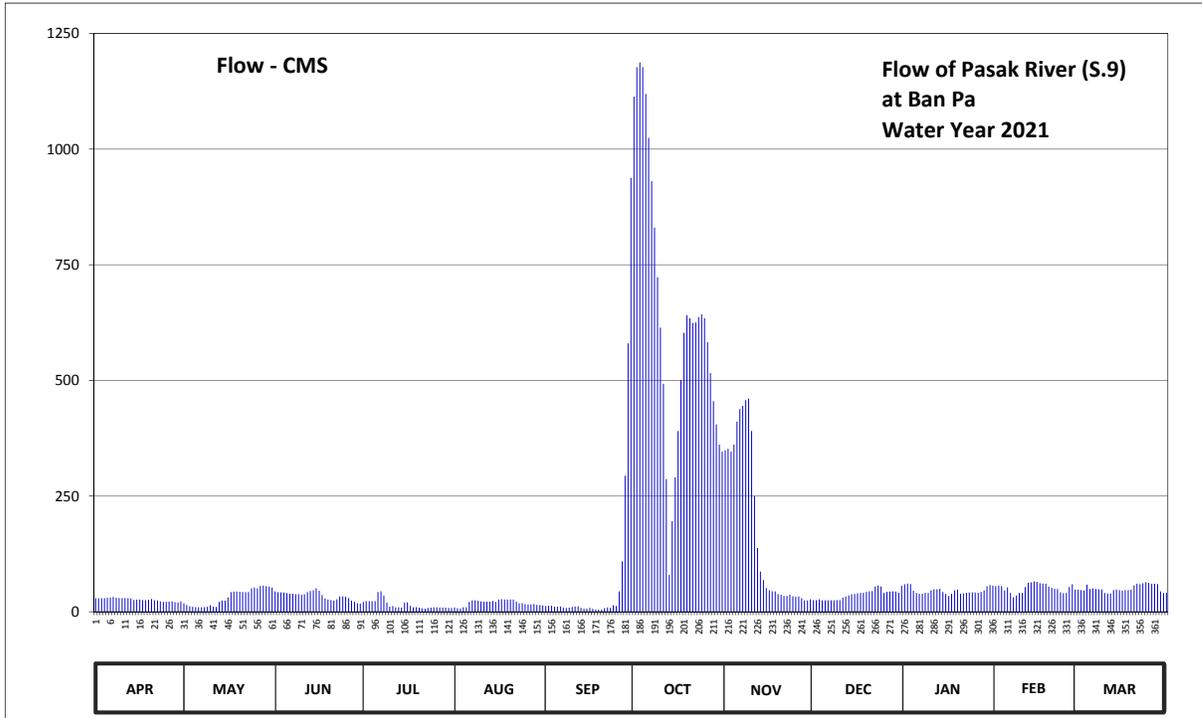
Lat 14 - 37 - 45 N Long 101 - 00 - 52 E

Location : on left bank at Ban Mueang Nua railway bridge.

	<b>Ban Pa</b>	<b>Amphoe</b> Kaeng Khoi	<b>Changwat</b> Saraburi
<b>Drainage Area</b>	14,350 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank under tamarind tree along the measuring line.	<b>Elevation</b>	+23.099 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1973 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1973 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1973 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Pasak Dam above gage site. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.03	8.71	9.38	8.80	8.42	8.54	19.40	13.46	8.91	9.70	9.62	9.48	
2	9.03	8.60	9.34	8.85	8.35	8.55	19.83	13.49	8.91	9.73	9.65	9.45	
3	9.03	8.53	9.33	8.85	8.32	8.56	19.90	13.43	8.96	9.71	9.62	9.43	
4	9.03	8.48	9.32	8.85	8.43	8.50	19.83	13.58	8.90	9.41	9.43	9.68	
5	9.05	8.45	9.29	8.85	8.44	8.50	19.44	14.05	8.90	9.30	9.57	9.50	
6	9.07	8.44	9.27	9.35	8.79	8.51	18.79	14.29	8.90	9.26	9.30	9.53	
7	9.09	8.43	9.26	9.39	8.90	8.41	18.13	14.35	8.90	9.26	9.08	9.50	
8	9.05	8.45	9.23	9.17	8.90	8.37	17.42	14.46	8.90	9.31	9.17	9.49	
9	9.04	8.49	9.23	8.75	8.88	8.41	16.62	14.49	8.91	9.30	9.30	9.48	
10	9.04	8.59	9.21	8.50	8.83	8.47	15.77	13.86	8.91	9.43	9.30	9.30	
11	9.04	8.50	9.23	8.54	8.81	8.51	14.77	12.41	9.06	9.49	9.58	9.27	
12	9.04	8.46	9.34	8.44	8.81	8.52	12.82	11.01	9.12	9.49	9.76	9.27	
13	9.02	8.80	9.40	8.44	8.81	8.38	10.07	10.19	9.18	9.51	9.78	9.45	
14	8.92	8.89	9.44	8.41	8.86	8.30	11.77	9.87	9.23	9.35	9.82	9.48	
15	8.94	8.88	9.53	8.76	8.80	8.31	12.86	9.54	9.25	9.25	9.80	9.45	
16	8.95	9.07	9.41	8.77	8.95	8.37	13.86	9.44	9.28	9.14	9.74	9.41	
17	8.91	9.34	9.19	8.55	8.97	8.28	14.84	9.39	9.30	9.26	9.73	9.45	
18	8.91	9.37	9.02	8.43	8.95	8.22	15.68	9.38	9.31	9.44	9.72	9.45	
19	8.94	9.37	8.95	8.45	8.95	8.20	15.98	9.24	9.36	9.47	9.60	9.47	
20	8.98	9.36	8.91	8.41	8.95	8.21	15.93	9.21	9.38	9.26	9.55	9.65	
21	8.91	9.35	8.88	8.35	8.95	8.36	15.85	9.14	9.40	9.28	9.51	9.72	
22	8.89	9.34	8.96	8.29	8.82	8.42	15.86	9.14	9.60	9.31	9.50	9.70	
23	8.83	9.35	9.12	8.37	8.71	8.38	15.95	9.21	9.64	9.32	9.33	9.74	
24	8.80	9.53	9.13	8.41	8.72	8.59	16.00	9.13	9.61	9.33	9.29	9.79	
25	8.80	9.56	9.10	8.43	8.66	8.54	15.93	9.10	9.30	9.32	9.30	9.76	
26	8.82	9.53	9.04	8.43	8.64	9.38	15.52	9.12	9.36	9.31	9.59	9.72	
27	8.84	9.63	8.88	8.42	8.64	10.55	14.97	9.03	9.37	9.35	9.70	9.72	
28	8.78	9.64	8.80	8.40	8.67	12.90	14.44	8.90	9.38	9.43	9.47	9.71	
29	8.76	9.62	8.72	8.40	8.61	15.50	14.00	8.89	9.37	9.62		9.38	
30	8.83	9.60	8.69	8.37	8.60	18.18	13.58	8.96	9.31	9.67		9.30	
31		9.56		8.36	8.58		13.43		9.64	9.64		9.31	
Mean	8.95	9.03	9.15	8.61	8.73	9.23	15.78	10.99	9.21	9.41	9.53	9.52	
Max	9.09	9.64	9.53	9.39	8.97	18.18	19.90	14.49	9.64	9.73	9.82	9.79	19.90
Min	8.76	8.43	8.69	8.29	8.32	8.20	10.07	8.89	8.90	9.14	9.08	9.27	8.20
Annual Max Momentary Gage Height	19.93		m. (MSL.) ,				at 24.00 Hours , on Oct 2, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	5.38	m. (MSL.)					
Left Bank Elevation	24.91		m. (MSL.) ,										
Right Bank Elevation	24.93		m. (MSL.) ,			Drainage Are	14,350	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.26	18.14	43.96	21.20	9.24	12.36	1113.20	349.00	24.94	59.40	55.24	48.16	
2	29.26	14.40	42.28	22.90	7.70	12.70	1176.84	352.00	24.94	60.96	56.80	46.90	
3	29.26	12.02	41.86	22.90	7.04	13.04	1187.20	346.00	26.64	59.92	55.24	46.06	
4	29.26	10.56	41.44	22.90	9.46	11.00	1176.84	361.32	24.60	45.22	46.06	58.36	
5	30.10	9.90	40.18	22.90	9.68	11.00	1119.12	410.70	24.60	40.60	52.64	49.00	
6	30.94	9.68	39.34	42.70	20.86	11.34	1024.18	438.06	24.60	38.92	40.60	50.56	
7	31.78	9.46	38.92	44.38	24.60	9.02	930.46	444.90	24.60	38.92	31.36	49.00	
8	30.10	9.90	37.66	35.14	24.60	8.14	830.28	457.44	24.60	41.02	35.14	48.58	
9	29.68	10.78	37.66	19.50	23.92	9.02	723.08	460.86	24.94	40.60	40.60	48.16	
10	29.68	14.06	36.82	11.00	22.22	10.34	614.02	390.44	24.94	46.06	40.60	40.60	
11	29.68	11.00	37.66	12.36	21.54	11.34	492.78	249.90	30.52	48.58	53.16	39.34	
12	29.68	10.12	42.28	9.68	21.54	11.68	286.80	137.76	33.04	48.58	62.52	39.34	
13	28.84	21.20	44.80	9.68	21.54	8.36	79.34	86.78	35.56	49.52	63.56	46.90	
14	25.28	24.26	46.48	9.02	23.24	6.60	195.52	68.24	37.66	42.70	65.64	48.16	
15	25.96	23.92	50.56	19.84	21.20	6.82	290.40	51.08	38.50	38.50	64.60	46.90	
16	26.30	30.94	45.22	20.18	26.30	8.14	390.44	46.48	39.76	33.88	61.48	45.22	
17	24.94	42.28	35.98	12.70	26.98	6.16	500.76	44.38	40.60	38.92	60.96	46.90	
18	24.94	43.54	28.84	9.46	26.30	4.84	602.68	43.96	41.02	46.48	60.44	46.90	
19	25.96	43.54	26.30	9.90	26.30	4.40	640.48	38.08	43.12	47.74	54.20	47.74	
20	27.32	43.12	24.94	9.02	26.30	4.62	634.18	36.82	43.96	38.92	51.60	56.80	
21	24.94	42.70	23.92	7.70	26.30	7.92	624.10	33.88	44.80	39.76	49.52	60.44	
22	24.26	42.28	26.64	6.38	21.88	9.24	625.36	33.88	54.20	41.02	49.00	59.40	
23	22.22	42.70	33.04	8.14	18.14	8.36	636.70	36.82	56.28	41.44	41.86	61.48	
24	21.20	50.56	33.46	9.02	18.48	14.06	643.00	33.46	54.72	41.86	40.18	64.08	
25	21.20	52.12	32.20	9.46	16.44	12.36	634.18	32.20	40.60	41.44	40.60	62.52	
26	21.88	50.56	29.68	9.46	15.76	43.96	582.52	33.04	43.12	41.02	53.68	60.44	
27	22.56	55.76	23.92	9.24	15.76	109.10	515.58	29.26	43.54	42.70	59.40	60.44	
28	20.52	56.28	21.20	8.80	16.78	294.00	455.16	24.60	43.96	46.06	47.74	59.92	
29	19.84	55.24	18.48	8.80	14.74	580.00	405.00	24.26	43.54	55.24		43.96	
30	22.22	54.20	17.46	8.14	14.40	937.56	361.32	26.64	41.02	57.84		40.60	
31		52.12		7.92	13.72		346.00		56.28	56.28		41.02	
<b>Total</b>	<b>789.06</b>	<b>967.34</b>	<b>1043.18</b>	<b>480.42</b>	<b>592.96</b>	<b>2197.48</b>	<b>19837.52</b>	<b>5122.24</b>	<b>1155.20</b>	<b>1410.10</b>	<b>1434.42</b>	<b>1563.88</b>	<b>36593.80</b> CMSDAY
<b>Mean</b>	<b>26.30</b>	<b>31.20</b>	<b>34.77</b>	<b>15.50</b>	<b>19.13</b>	<b>73.25</b>	<b>639.92</b>	<b>170.74</b>	<b>37.26</b>	<b>45.49</b>	<b>51.23</b>	<b>50.45</b>	<b>100.26</b> CMS
<b>Max</b>	<b>31.78</b>	<b>56.28</b>	<b>50.56</b>	<b>44.38</b>	<b>26.98</b>	<b>937.56</b>	<b>1187.20</b>	<b>460.86</b>	<b>56.28</b>	<b>60.96</b>	<b>65.64</b>	<b>64.08</b>	<b>1187.20</b> CMS
<b>Min</b>	<b>19.84</b>	<b>9.46</b>	<b>17.46</b>	<b>6.38</b>	<b>7.04</b>	<b>4.40</b>	<b>79.34</b>	<b>24.26</b>	<b>24.60</b>	<b>33.88</b>	<b>31.36</b>	<b>39.34</b>	<b>4.40</b> CMS
<b>Runoff</b>	<b>68.17</b>	<b>83.58</b>	<b>90.13</b>	<b>41.51</b>	<b>51.23</b>	<b>189.86</b>	<b>1713.96</b>	<b>442.56</b>	<b>99.81</b>	<b>121.83</b>	<b>123.93</b>	<b>135.12</b>	<b>3161.70</b> MCM
<b>Momentary Peak</b>	<b>1191.64</b>	<b>CMS.</b>	<b>at 19.93 m. (MSL.)</b>	<b>at 24.00 Hours</b>	<b>on Oct 2, 2021</b>								
<b>Runoff Yield</b>	<b>6.99</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>83.04</b>	<b>Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## PASAK RIVER BASIN

Lam Sonthi at Ban Tha Ruak , Lop Buri (S.14)

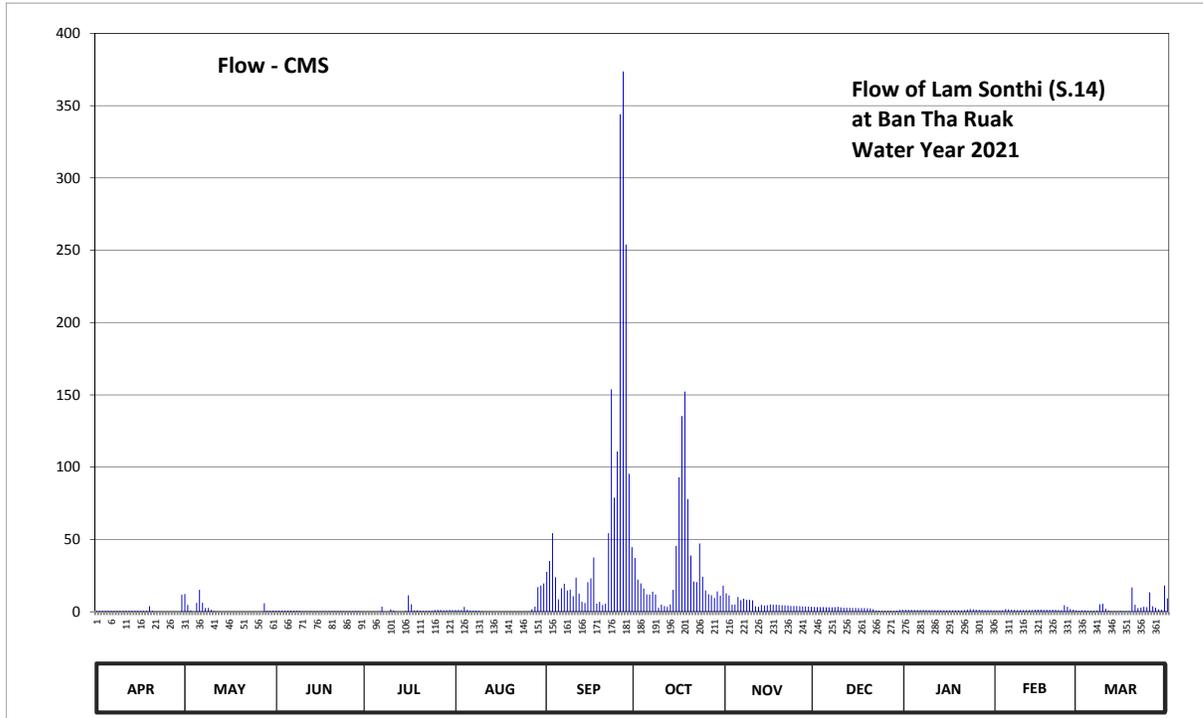
Lat 15 - 13 - 31 N Long 101 - 16 - 39 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Tha Ruak</b>	<b>Amphoe</b>	<b>Chai Badan</b>	<b>Changwat</b>	<b>Lop Buri</b>
<b>Drainage Area</b>	1,259	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+63.824 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2005 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2005 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2005 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +63.830 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

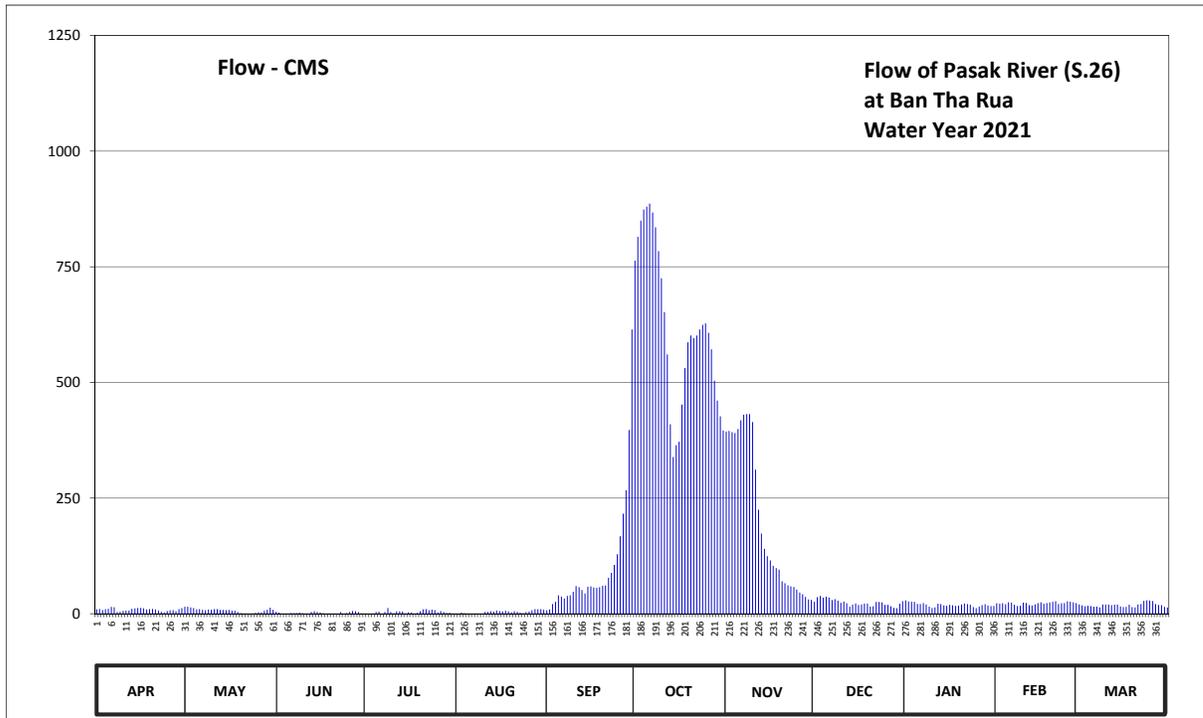
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.61	57.10	54.64	54.38	54.80	58.71	59.37	57.15	55.39	54.82	54.72	54.62	
2	54.61	55.73	54.65	54.38	54.80	59.24	58.24	56.96	55.37	54.83	54.73	54.74	
3	54.61	54.70	54.65	54.38	54.80	60.10	57.98	55.76	55.35	54.84	54.77	54.73	
4	54.61	54.30	54.65	54.38	55.40	58.40	57.58	55.79	55.35	54.83	55.02	54.61	
5	54.61	56.07	54.64	54.38	54.83	56.53	57.05	56.79	55.34	54.81	54.94	54.60	
6	54.61	57.48	54.64	54.38	54.64	57.60	57.03	56.41	55.33	54.81	54.83	54.60	
7	54.61	56.06	54.65	55.46	54.66	57.95	57.30	56.59	55.32	54.80	54.80	54.64	
8	54.61	55.18	54.65	54.39	54.65	57.43	57.03	56.46	55.35	54.79	54.77	55.84	
9	54.61	55.23	54.62	54.37	54.63	57.50	55.26	56.47	55.41	54.78	54.75	55.93	
10	54.61	54.85	54.53	54.95	54.52	56.87	55.79	56.41	55.30	54.77	54.75	55.06	
11	54.61	54.56	54.54	54.70	54.38	58.37	55.55	55.51	55.24	54.77	54.75	54.70	
12	54.61	54.30	54.54	54.37	54.38	57.12	55.41	55.41	55.26	54.76	54.75	54.54	
13	54.61	54.30	54.54	54.37	54.38	56.22	55.81	55.74	55.25	54.75	54.79	54.54	
14	54.61	54.30	54.53	54.37	54.38	56.05	57.48	55.64	55.23	54.73	54.85	54.55	
15	54.61	54.30	54.53	54.58	54.38	58.06	59.77	55.68	55.21	54.72	54.88	54.63	
16	54.61	54.30	54.53	56.96	54.39	58.32	61.04	55.83	55.19	54.72	54.86	54.54	
17	54.61	54.30	54.53	55.85	54.42	59.39	61.70	55.77	55.19	54.73	54.84	54.53	
18	54.61	54.32	54.53	54.71	54.43	55.96	61.93	55.76	55.18	54.74	54.82	54.53	
19	55.53	54.31	54.53	54.73	54.43	56.19	60.72	55.72	55.17	54.71	54.85	57.67	
20	54.61	54.32	54.53	54.62	54.43	55.74	59.48	55.69	55.14	54.70	54.87	55.78	
21	54.42	54.33	54.53	54.62	54.43	55.95	58.11	55.67	55.00	54.78	54.82	55.18	
22	54.30	54.33	54.53	54.62	54.43	60.10	58.06	55.64	54.69	54.84	54.77	55.29	
23	54.30	54.33	54.53	54.62	54.43	61.95	59.84	55.57	54.66	55.01	54.75	55.43	
24	54.30	54.33	54.53	54.67	54.43	60.74	58.43	55.56	54.61	54.96	55.68	55.37	
25	54.30	54.33	54.53	54.80	54.43	61.34	57.42	55.57	54.61	54.86	55.41	57.25	
26	54.30	54.33	54.53	54.80	54.43	63.98	57.06	55.54	54.60	54.82	55.02	55.51	
27	54.30	54.33	54.53	54.80	54.97	64.25	56.98	55.50	54.60	54.81	54.87	55.24	
28	54.30	56.01	54.53	54.71	55.46	63.12	56.68	55.47	54.60	54.77	54.73	54.95	
29	54.30	54.65	54.53	54.78	57.69	61.08	57.33	55.45	54.67	54.76		54.89	
30	57.04	54.65	54.45	54.80	57.82	59.73	56.92	55.42	54.81	54.75		57.82	
31		54.65		54.76	57.97		57.81		54.82	54.73		56.63	
Mean	54.63	54.85	54.56	54.73	54.91	58.80	57.94	55.90	55.07	54.79	54.87	55.26	
Max	57.04	57.48	54.65	56.96	57.97	64.25	61.93	57.15	55.41	55.01	55.68	57.82	64.25
Min	54.30	54.30	54.45	54.37	54.38	55.74	55.26	55.41	54.60	54.70	54.72	54.53	54.30
Annual Max Momentary Gage Height	64.74		m. (MSL.) ,				at 01.00 Hours , on Sep 27, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	53.09	m. (MSL.)					
Left Bank Elevation		63.82	m. (MSL.) ,										
Right Bank Elevation		63.84	m. (MSL.) ,			Drainage Are	1,259	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	12.34	0.72	0.00	1.20	27.59	37.15	12.71	3.28	1.26	0.96	0.66	
2	0.63	4.67	0.75	0.00	1.20	35.09	22.25	11.34	3.21	1.29	0.99	1.02	
3	0.63	0.90	0.75	0.00	1.20	54.40	19.62	4.79	3.13	1.32	1.11	0.99	
4	0.63	0.00	0.75	0.00	3.32	23.88	16.02	4.92	3.13	1.29	1.88	0.63	
5	0.63	6.16	0.72	0.00	1.29	8.59	11.97	10.26	3.09	1.23	1.62	0.60	
6	0.63	15.15	0.72	0.00	0.72	16.20	11.82	7.93	3.05	1.23	1.29	0.60	
7	0.63	6.11	0.75	3.55	0.78	19.35	13.82	8.98	3.02	1.20	1.20	0.72	
8	0.63	2.48	0.75	0.00	0.75	14.78	11.82	8.19	3.13	1.17	1.11	5.13	
9	0.63	2.67	0.66	0.00	0.69	15.30	2.79	8.24	3.36	1.14	1.05	5.51	
10	0.63	1.35	0.39	1.65	0.36	10.77	4.92	7.93	2.94	1.11	1.05	2.03	
11	0.63	0.48	0.42	0.90	0.00	23.57	3.91	3.74	2.71	1.11	1.05	0.90	
12	0.63	0.00	0.42	0.00	0.00	12.49	3.36	3.36	2.79	1.08	1.05	0.42	
13	0.63	0.00	0.42	0.00	0.00	6.94	5.00	4.71	2.75	1.05	1.17	0.42	
14	0.63	0.00	0.39	0.00	0.00	6.06	15.15	4.29	2.67	0.99	1.35	0.45	
15	0.63	0.00	0.39	0.54	0.00	20.41	45.57	4.46	2.60	0.96	1.44	0.69	
16	0.63	0.00	0.39	11.34	0.00	23.06	92.99	5.09	2.52	0.96	1.38	0.42	
17	0.63	0.00	0.39	5.17	0.06	37.46	135.30	4.83	2.52	0.99	1.32	0.39	
18	0.63	0.00	0.39	0.93	0.09	5.63	152.32	4.79	2.48	1.02	1.26	0.39	
19	3.83	0.00	0.39	0.99	0.09	6.79	77.94	4.62	2.45	0.93	1.35	16.83	
20	0.63	0.00	0.39	0.66	0.09	4.71	38.88	4.50	2.33	0.90	1.41	4.88	
21	0.06	0.00	0.39	0.66	0.09	5.59	20.92	4.41	1.80	1.14	1.26	2.48	
22	0.00	0.00	0.39	0.66	0.09	54.40	20.41	4.29	0.87	1.32	1.11	2.90	
23	0.00	0.00	0.39	0.66	0.09	153.80	47.22	3.99	0.78	1.84	1.05	3.43	
24	0.00	0.00	0.39	0.81	0.09	78.85	24.19	3.95	0.63	1.68	4.46	3.21	
25	0.00	0.00	0.39	1.20	0.09	110.93	14.71	3.99	0.63	1.38	3.36	13.45	
26	0.00	0.00	0.39	1.20	0.09	344.06	12.04	3.87	0.60	1.26	1.88	3.74	
27	0.00	0.00	0.39	1.20	1.71	373.63	11.47	3.70	0.60	1.23	1.41	2.71	
28	0.00	5.85	0.39	0.93	3.55	253.88	9.55	3.59	0.60	1.11	0.99	1.65	
29	0.00	0.75	0.39	1.14	17.01	95.38	14.04	3.51	0.81	1.08		1.47	
30	11.90	0.75	0.15	1.20	18.18	44.63	11.09	3.40	1.23	1.05		18.18	
31		0.75		1.08	19.53		18.09		1.26	0.99		9.23	
<b>Total</b>	27.76	60.41	14.61	36.47	72.36	1888.22	926.33	168.38	66.97	36.31	40.56	106.13	3444.51 CMSDAY
<b>Mean</b>	0.93	1.95	0.49	1.18	2.33	62.94	29.88	5.61	2.16	1.17	1.45	3.42	9.44 CMS
<b>Max</b>	11.90	15.15	0.75	11.34	19.53	373.63	152.32	12.71	3.36	1.84	4.46	18.18	373.63 CMS
<b>Min</b>	0.00	0.00	0.15	0.00	0.00	4.71	2.79	3.36	0.60	0.90	0.96	0.39	0.00 CMS
<b>Runoff</b>	2.40	5.22	1.26	3.15	6.25	163.14	80.03	14.55	5.79	3.14	3.50	9.17	297.61 MCM
<b>Momentary Peak</b>	428.36 CMS. at 64.74 m. (MSL.) at 01.00 Hours , on Sep 27, 2021												
<b>Runoff Yield</b>	7.50 Liters/Second/Square KM.			Momentary Peak Yield				340.24 Liters/Second/Square KM.					





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.52	14.96	4.20	0.00	0.28	7.56	763.16	393.80	25.84	28.72	22.64	20.40	
2	10.36	14.96	2.24	0.00	0.00	9.24	814.64	394.90	35.76	26.48	21.68	18.16	
3	7.84	13.72	0.28	0.00	2.24	21.04	849.60	392.70	38.64	25.84	22.64	16.24	
4	9.80	12.32	0.00	0.28	1.12	25.84	873.60	390.50	34.68	25.84	20.72	17.20	
5	10.64	9.52	0.00	3.64	0.28	39.72	880.00	399.30	36.84	21.36	24.56	16.56	
6	14.64	10.08	1.40	4.48	0.00	37.20	886.40	417.98	35.04	21.04	23.92	14.96	
7	14.00	8.40	0.84	0.00	0.00	32.88	867.20	430.18	29.68	22.96	19.44	15.60	
8	3.64	7.56	1.40	3.64	0.00	38.64	835.20	431.40	31.44	19.76	16.88	13.72	
9	4.20	8.96	2.52	12.32	0.00	39.72	783.44	431.40	28.08	15.60	17.20	19.76	
10	6.16	8.40	1.12	3.64	0.28	47.28	725.28	414.32	23.60	12.32	23.92	20.08	
11	6.72	10.08	0.00	1.12	3.92	59.88	651.84	311.44	26.48	13.72	23.28	19.76	
12	7.00	9.80	0.00	5.04	3.64	57.24	560.56	224.96	22.64	21.68	18.48	18.48	
13	10.64	8.12	3.92	5.04	5.32	51.08	409.44	173.10	14.96	21.04	17.84	19.44	
14	11.76	8.12	5.32	4.76	4.48	43.68	338.48	140.14	19.44	18.16	20.40	19.76	
15	12.32	7.84	3.64	0.56	7.28	58.56	364.10	124.52	22.32	17.20	22.96	15.92	
16	12.60	8.12	2.80	3.08	5.88	59.00	371.80	115.00	18.80	19.12	24.56	14.32	
17	11.76	6.44	0.84	2.80	5.04	56.80	452.14	103.44	20.08	18.16	21.68	14.64	
18	9.24	6.44	0.00	0.00	6.44	55.92	530.72	98.68	22.00	16.88	22.96	19.44	
19	9.80	3.92	0.00	1.68	5.04	57.24	586.40	95.20	22.00	17.52	24.24	14.32	
20	10.36	0.84	0.00	5.32	3.08	60.32	601.44	70.00	15.28	20.08	25.84	13.72	
21	9.24	0.00	0.28	9.52	5.32	61.20	595.92	66.04	16.24	22.00	27.12	20.08	
22	7.00	0.00	0.00	10.08	4.20	77.84	601.44	61.20	25.52	21.04	21.04	21.04	
23	4.20	0.00	3.36	7.56	2.52	88.48	614.40	59.00	25.52	19.44	22.64	27.76	
24	2.80	0.00	0.00	8.96	1.40	105.48	624.48	57.68	24.56	14.32	22.96	29.04	
25	5.88	1.68	1.40	7.84	3.92	128.60	627.36	52.40	19.12	12.04	26.80	28.40	
26	7.56	3.08	3.92	2.80	4.76	167.52	607.20	45.84	19.12	15.28	26.16	27.44	
27	7.84	2.80	5.88	5.88	7.56	216.16	571.44	42.24	16.24	18.48	24.88	21.04	
28	5.32	6.44	5.32	3.64	9.80	266.88	503.84	36.48	12.60	20.72	22.96	18.80	
29	10.08	8.68	3.64	1.68	9.52	397.10	460.68	31.08	12.04	17.84		18.48	
30	12.32	12.88	0.56	1.96	10.08	614.40	426.52	30.00	21.68	16.56		14.64	
31		8.68		0.28	8.40		396.00		27.12	16.88		13.44	
Total	265.24	222.84	54.88	117.60	121.80	2982.50	19174.72	6034.92	743.36	598.08	630.40	582.64	31528.98 CMSDAY
Mean	8.84	7.19	1.83	3.79	3.93	99.42	618.54	201.16	23.98	19.29	22.51	18.79	86.38 CMS
Max	14.64	14.96	5.88	12.32	10.08	614.40	886.40	431.40	38.64	28.72	27.12	29.04	886.40 CMS
Min	2.80	0.00	0.00	0.00	0.00	7.56	338.48	30.00	12.04	12.04	16.88	13.44	0.00 CMS
Runoff	22.92	19.25	4.74	10.16	10.52	257.69	1656.70	521.42	64.23	51.67	54.47	50.34	2724.10 MCM
Momentary Peak	889.60	CMS.	at 9.41 m. (MSL.)	at 02.00 Hours ,	on Oct 6 , 2021								
Runoff Yield	5.61	Liters/Second/Square KM.		Momentary Peak Yield	57.76	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PASAK RIVER BASIN

## Pasak River at Ban Nong Bua , Lop Buri (S.28)

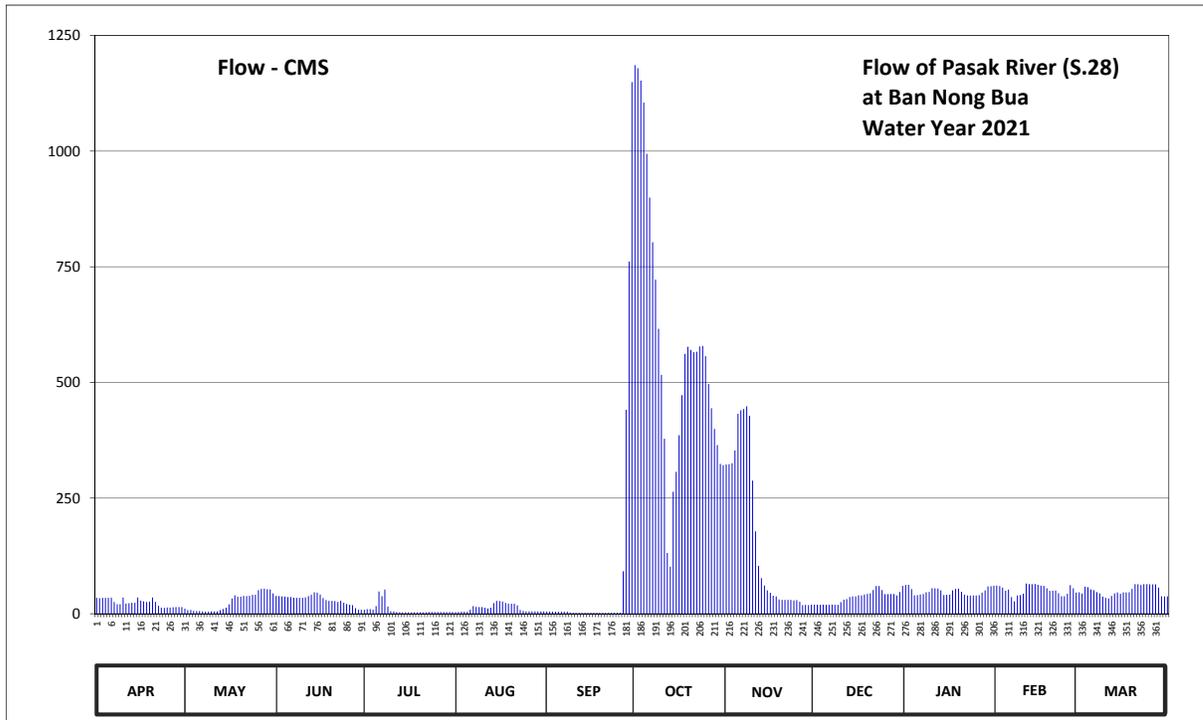
Lat 14 - 50 - 05 N Long 101 - 05 - 04 E

Location : on left bank at Ban Nong Bua.

	<b>Ban Nong Bua</b>	<b>Amphoe</b> Phatthana Nikhom	<b>Changwat</b> Lop Buri
<b>Drainage Area</b>	12,838 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the automatic gage buiding	<b>Elevation</b>	+33.168 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1986 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1998 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Pasak Cholasit Dam. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

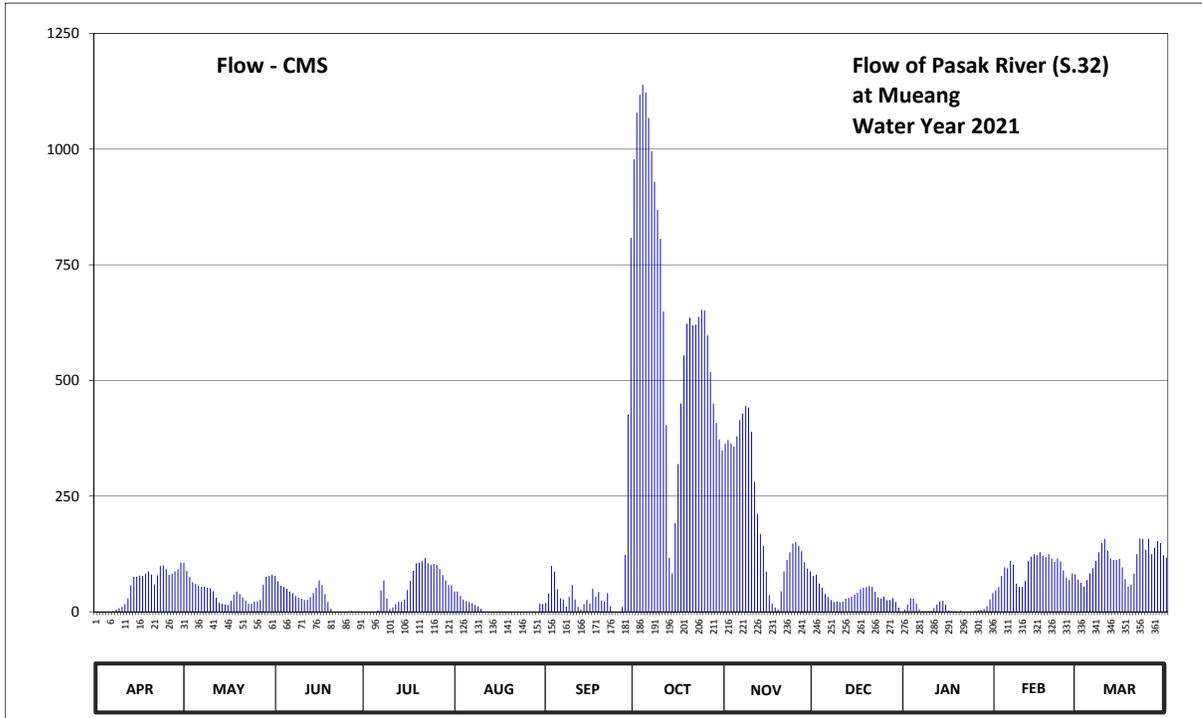
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.83	16.99	17.98	16.79	16.32	16.42	31.31	23.77	17.31	18.68	18.64	18.22	
2	17.81	16.71	17.97	16.91	16.34	16.40	31.27	23.78	17.31	18.69	18.61	18.14	
3	17.83	16.76	17.94	16.90	16.39	16.40	31.11	23.81	17.30	18.42	18.51	18.57	
4	17.83	16.55	17.93	16.81	16.41	16.40	30.81	24.20	17.31	18.03	18.32	18.54	
5	17.83	16.52	17.89	17.19	16.41	16.40	30.09	25.21	17.30	18.04	18.39	18.40	
6	17.85	16.52	17.89	18.27	16.78	16.40	29.44	25.30	17.30	18.08	17.89	18.35	
7	17.52	16.47	17.85	17.96	17.19	16.40	28.72	25.33	17.31	18.11	17.56	18.23	
8	17.34	16.39	17.84	18.39	17.14	16.40	28.08	25.40	17.30	18.22	18.02	18.15	
9	17.34	16.40	17.84	17.16	17.12	16.25	27.17	25.16	17.30	18.24	18.04	17.93	
10	17.86	16.48	17.83	16.49	17.12	16.20	26.17	23.24	17.50	18.47	18.13	17.84	
11	17.39	16.48	17.87	16.47	17.07	16.20	24.53	21.29	17.69	18.47	18.77	17.78	
12	17.42	16.47	17.97	16.35	17.01	16.20	20.37	19.74	17.73	18.46	18.73	17.98	
13	17.45	16.72	18.06	16.30	17.07	16.20	19.70	19.10	17.89	18.34	18.73	18.15	
14	17.45	16.95	18.22	16.28	17.43	16.20	22.84	18.64	17.94	18.05	18.74	18.21	
15	17.86	17.07	18.20	16.28	17.60	16.20	23.54	18.34	17.95	18.06	18.69	18.12	
16	17.61	17.33	18.08	16.28	17.59	16.20	24.63	18.19	18.03	18.07	18.63	18.21	
17	17.57	17.78	17.82	16.29	17.55	16.20	25.68	17.99	18.02	18.34	18.62	18.21	
18	17.51	18.03	17.66	16.29	17.44	16.20	26.64	17.95	18.08	18.43	18.47	18.22	
19	17.54	17.92	17.60	16.29	17.38	16.20	26.80	17.71	18.12	18.45	18.31	18.43	
20	17.86	17.92	17.60	16.29	17.38	16.20	26.73	17.68	18.15	18.25	18.32	18.73	
21	17.53	17.98	17.59	16.29	17.38	16.20	26.68	17.68	18.36	18.07	18.33	18.73	
22	17.22	17.97	17.51	16.28	17.26	16.20	26.69	17.68	18.61	18.02	18.16	18.68	
23	17.07	17.99	17.61	16.33	16.74	16.20	26.81	17.67	18.61	18.01	17.96	18.73	
24	17.06	18.06	17.45	16.35	16.55	16.20	26.82	17.64	18.36	18.02	17.96	18.73	
25	17.08	18.06	17.36	16.35	16.48	16.20	26.59	17.66	18.10	18.02	18.13	18.72	
26	17.09	18.35	17.31	16.35	16.48	16.20	25.96	17.53	18.10	18.04	18.67	18.72	
27	17.11	18.43	17.27	16.34	16.48	19.47	25.35	17.27	18.11	18.20	18.47	18.72	
28	17.12	18.45	17.04	16.35	16.48	25.31	24.81	17.30	18.11	18.34	18.20	18.51	
29	17.12	18.41	16.79	16.35	16.48	28.39	24.35	17.27	18.02	18.59		17.96	
30	17.12	18.40	16.78	16.35	16.48	31.09	23.79	17.31	18.24	18.60		17.95	
31		18.15		16.35	16.48		23.75		18.62	18.63		17.95	
Mean	17.47	17.38	17.69	16.63	16.90	17.57	26.36	20.23	17.87	18.27	18.36	18.32	
Max	17.86	18.45	18.22	18.39	17.60	31.09	31.31	25.40	18.62	18.69	18.77	18.73	31.31
Min	17.06	16.39	16.78	16.28	16.32	16.20	19.70	17.27	17.30	18.01	17.56	17.78	16.20
Annual Max Momentary Gage Height	31.35		m. (MSL.) ,				at 03.00 Hours ,						on Oct 2, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	15.05		m. (MSL.)				
Left Bank Elevation		33.17		m. (MSL.) ,									
Right Bank Elevation		33.06		m. (MSL.) ,		Drainage Are	12,838		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.24	10.89	38.44	8.69	3.52	4.62	1185.46	322.36	19.68	62.12	60.76	46.48	
2	33.68	7.81	38.16	10.01	3.74	4.40	1178.82	323.04	19.68	62.46	59.74	43.76	
3	34.24	8.36	37.32	9.90	4.29	4.40	1152.26	325.08	19.40	53.28	56.34	58.38	
4	34.24	6.05	37.04	8.91	4.51	4.40	1104.74	353.20	19.68	40.02	49.88	57.36	
5	34.24	5.72	35.92	16.32	4.51	4.40	993.86	432.06	19.40	40.36	52.26	52.60	
6	34.80	5.72	35.92	48.18	8.58	4.40	899.60	439.80	19.40	41.72	35.92	50.90	
7	25.56	5.17	34.80	37.88	16.32	4.40	802.72	442.38	19.68	42.74	26.68	46.82	
8	20.52	4.29	34.52	52.26	14.92	4.40	722.08	448.40	19.40	46.48	39.68	44.10	
9	20.52	4.40	34.52	15.48	14.36	2.75	615.72	427.76	19.40	47.16	40.36	37.04	
10	35.08	5.28	34.24	5.39	14.36	2.20	516.32	287.88	25.00	54.98	43.42	34.52	
11	21.92	5.28	35.36	5.17	12.96	2.20	378.28	178.08	30.32	54.98	65.18	32.84	
12	22.76	5.17	38.16	3.85	11.28	2.20	131.28	103.56	31.44	54.64	63.82	38.44	
13	23.60	7.92	41.04	3.30	12.96	2.20	101.80	77.00	35.92	50.56	63.82	44.10	
14	23.60	10.45	46.48	3.08	23.04	2.20	263.72	60.76	37.32	40.70	64.16	46.14	
15	35.08	12.96	45.80	3.08	27.80	2.20	306.72	50.56	37.60	41.04	62.46	43.08	
16	28.08	20.24	41.72	3.08	27.52	2.20	385.88	45.46	40.02	41.38	60.42	46.14	
17	26.96	32.84	33.96	3.19	26.40	2.20	472.48	38.72	39.68	50.56	60.08	46.14	
18	25.28	40.02	29.48	3.19	23.32	2.20	561.44	37.60	41.72	53.62	54.98	46.48	
19	26.12	36.76	27.80	3.19	21.64	2.20	576.80	30.88	43.08	54.30	49.54	53.62	
20	35.08	36.76	27.80	3.19	21.64	2.20	570.08	30.04	44.10	47.50	49.88	63.82	
21	25.84	38.44	27.52	3.19	21.64	2.20	565.28	30.04	51.24	41.38	50.22	63.82	
22	17.16	38.16	25.28	3.08	18.28	2.20	566.24	30.04	59.74	39.68	44.44	62.12	
23	12.96	38.72	28.08	3.63	8.14	2.20	577.76	29.76	59.74	39.34	37.88	63.82	
24	12.68	41.04	23.60	3.85	6.05	2.20	578.72	28.92	51.24	39.68	37.88	63.82	
25	13.24	41.04	21.08	3.85	5.28	2.20	556.64	29.48	42.40	39.68	43.42	63.48	
26	13.52	50.90	19.68	3.85	5.28	2.20	496.56	25.84	42.40	40.36	61.78	63.48	
27	14.08	53.62	18.56	3.74	5.28	91.80	444.10	18.56	42.74	45.80	54.98	63.48	
28	14.36	54.30	12.12	3.85	5.28	440.66	399.56	19.40	42.74	50.56	45.80	56.34	
29	14.36	52.94	8.69	3.85	5.28	761.14	364.60	18.56	39.68	59.06		37.88	
30	14.36	52.60	8.58	3.85	5.28	1148.94	323.72	19.68	47.16	59.40		37.60	
31		44.10		3.85	5.28		321.00		60.08	60.42		37.60	
Total	728.16	777.95	921.67	287.93	388.74	2518.11	18114.24	4704.90	1121.08	1495.96	1435.78	1546.20	34040.72 CMSDAY
Mean	24.27	25.10	30.72	9.29	12.54	83.94	584.33	156.83	36.16	48.26	51.28	49.88	93.26 CMS
Max	35.08	54.30	46.48	52.26	27.80	1148.94	1185.46	448.40	60.08	62.46	65.18	63.82	1185.46 CMS
Min	12.68	4.29	8.58	3.08	3.52	2.20	101.80	18.56	19.40	39.34	26.68	32.84	2.20 CMS
Runoff	62.91	67.21	79.63	24.88	33.59	217.56	1565.07	406.50	96.86	129.25	124.05	133.59	2941.12 MCM
Momentary Peak	1192.10	CMS.	at 31.35 m. (MSL.)										at 03.00 Hours , on Oct 2, 2021
Runoff Yield	7.26	Liters/Second/Square KM.											Momentary Peak Yield 92.86 Liters/Second/Square KM.





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	106.00	77.50	0.00	43.80	18.65	978.00	363.20	77.50	4.75	46.60	69.40	
2	0.00	88.30	65.80	0.00	43.80	38.90	1078.40	371.20	80.20	15.35	52.80	62.40	
3	0.00	74.80	56.00	0.00	34.00	99.00	1117.60	363.20	60.80	29.20	77.50	54.40	
4	0.00	64.00	53.60	0.00	26.35	86.50	1138.60	356.80	52.00	28.60	96.00	68.50	
5	0.00	60.00	49.60	0.00	23.05	48.80	1121.80	379.20	38.20	17.55	94.00	82.90	
6	0.00	56.00	43.80	3.40	20.85	29.20	1067.00	414.40	31.60	5.20	110.00	94.00	
7	1.75	54.40	39.60	45.90	18.65	26.90	995.50	427.90	25.25	1.50	102.00	110.00	
8	4.75	54.40	34.00	67.60	14.80	11.05	928.60	444.90	20.85	1.50	60.80	128.70	
9	7.45	52.00	30.40	28.60	11.50	32.20	868.40	441.50	21.95	1.50	53.60	148.50	
10	10.15	50.40	28.00	6.10	6.10	57.60	806.00	388.80	20.85	2.00	53.60	157.30	
11	16.45	44.50	25.25	9.25	0.50	26.90	648.80	280.40	21.95	7.90	66.70	132.00	
12	29.20	30.40	25.80	16.45	0.00	10.15	403.20	211.80	28.00	15.90	109.00	115.00	
13	56.80	19.20	31.60	21.40	0.00	4.30	116.00	167.40	30.40	21.95	119.00	112.00	
14	75.70	17.00	40.30	21.40	0.00	16.45	82.90	141.90	32.80	24.15	124.30	112.00	
15	75.70	15.90	52.00	26.35	0.00	25.25	191.40	86.50	36.80	15.35	122.10	114.00	
16	78.40	14.80	67.60	46.60	0.00	17.55	319.00	36.10	41.00	2.95	128.70	96.00	
17	77.50	23.60	57.60	66.70	0.00	49.60	450.00	17.55	48.80	1.25	121.00	70.30	
18	82.00	36.80	38.20	88.30	0.00	32.20	554.00	9.25	52.00	0.75	118.00	54.40	
19	87.40	43.80	20.85	105.00	0.00	43.10	622.40	4.30	52.80	0.25	124.30	58.40	
20	80.20	38.20	7.00	106.00	0.00	24.15	635.50	44.50	55.20	2.25	115.00	82.00	
21	59.20	31.00	0.00	109.00	0.00	21.95	618.80	87.40	53.60	0.00	108.00	124.30	
22	78.40	23.60	0.00	116.00	0.00	40.30	620.60	112.00	43.10	0.00	115.00	158.40	
23	99.00	17.00	0.00	105.00	0.00	12.05	637.40	128.70	31.00	0.00	109.00	157.30	
24	100.00	17.00	0.00	101.00	0.00	0.75	652.60	147.40	28.00	0.00	89.20	134.20	
25	92.00	21.95	0.00	103.00	0.00	0.00	650.70	150.70	32.80	1.75	73.90	157.30	
26	80.20	21.95	0.75	101.00	0.00	0.00	597.20	141.90	24.70	3.40	68.50	124.30	
27	82.00	25.25	1.50	92.00	0.00	10.15	518.00	130.90	25.25	4.30	82.90	138.60	
28	87.40	57.60	0.00	79.30	0.00	123.20	450.00	107.00	29.20	6.10	81.10	152.90	
29	92.00	75.70	0.00	67.60	0.00	426.20	408.00	93.00	21.40	12.05		148.50	
30	106.00	77.50	0.00	57.60	17.55	808.00	372.80	87.40	8.80	26.90		122.10	
31		80.20		56.80	16.45		349.00		0.00	40.30		117.00	
Total	1559.65	1393.25	846.75	1647.35	277.40	2141.05	19998.20	6137.20	1126.80	294.65	2622.60	3457.10	41502.00 CMSDAY
Mean	51.99	44.94	28.23	53.14	8.95	71.37	645.10	204.57	36.35	9.50	93.66	111.52	113.70 CMS
Max	106.00	106.00	77.50	116.00	43.80	808.00	1138.60	444.90	80.20	40.30	128.70	158.40	1138.60 CMS
Min	0.00	14.80	0.00	0.00	0.00	0.00	82.90	4.30	0.00	0.00	46.60	54.40	0.00 CMS
Runoff	134.75	120.38	73.16	142.33	23.97	184.99	1727.84	530.25	97.36	25.46	226.59	298.69	3585.77 MCM
Momentary Peak	1140.70	CMS.	at 14.67 m. (MSL.)	at 11.00 Hours	on Oct 4, 2021								
Runoff Yield	7.62	Liters/Second/Square KM.		Momentary Peak Yield	76.46	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PASAK RIVER BASIN

Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

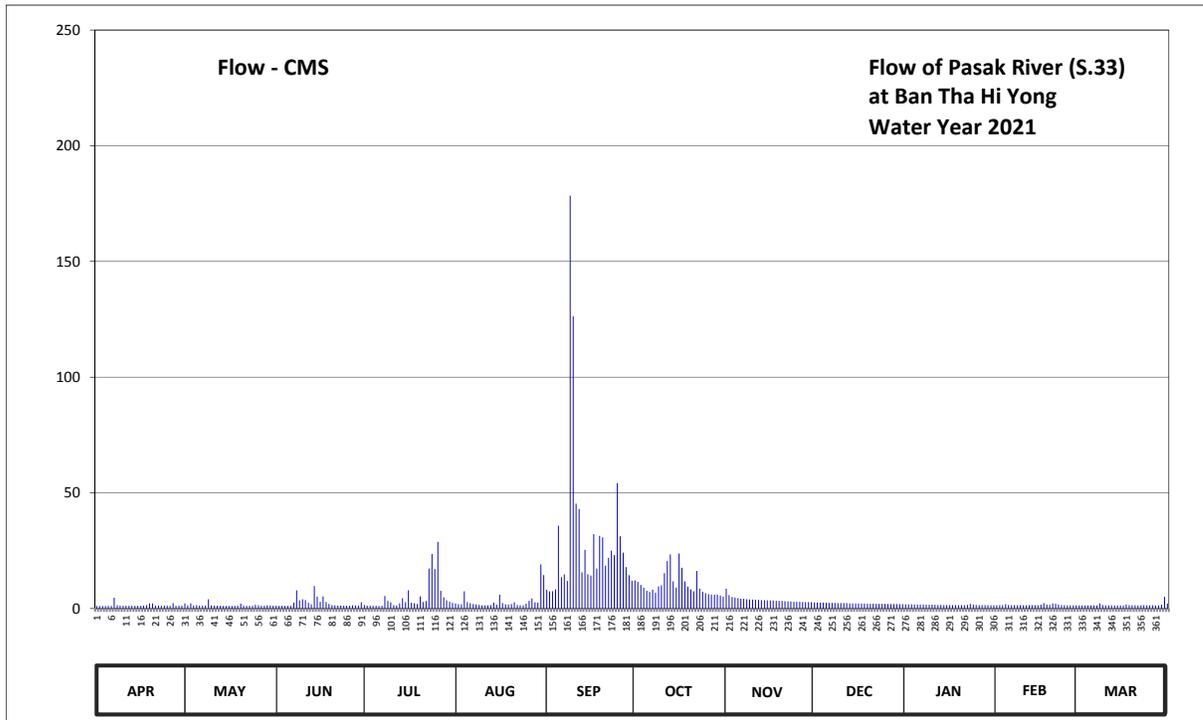
Lat 17 - 00 - 15 N Long 101 - 21 - 11 E

Location : on left bank at Ban Tha Hai Yong

	<b>Ban</b>	<b>Tha Hai Yong</b>	<b>Amphoe</b>	<b>Lom Kao</b>	<b>Changwat</b>	<b>Phetchabun</b>
<b>Drainage Area</b>	515	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+190.090 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+198.009 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1999 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1999 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1999 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +198.850 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.47	191.86	191.51	191.72	191.86	192.78	193.22	192.82	191.94	191.78	191.68	191.65	
2	191.47	191.62	191.50	191.60	191.79	192.70	193.15	192.52	191.93	191.78	191.69	191.64	
3	191.47	191.86	191.53	191.57	191.77	192.71	193.01	192.39	191.92	191.78	191.70	191.64	
4	191.49	191.61	191.50	191.53	192.70	192.79	192.87	192.35	191.92	191.77	191.79	191.64	
5	191.51	191.69	191.49	191.52	191.96	194.69	192.73	192.31	191.91	191.76	191.72	191.64	
6	191.50	191.58	191.49	191.50	191.87	193.36	192.67	192.27	191.90	191.76	191.71	191.63	
7	192.34	191.53	191.93	191.57	191.80	193.48	192.78	192.25	191.90	191.76	191.70	191.64	
8	191.71	191.58	192.75	192.47	191.77	193.19	192.63	192.22	191.90	191.75	191.69	191.86	
9	191.57	192.21	192.12	192.07	191.72	197.46	192.93	192.20	191.89	191.75	191.69	191.71	
10	191.55	191.63	192.21	191.95	191.68	196.75	192.98	192.19	191.89	191.74	191.68	191.67	
11	191.54	191.52	192.15	191.71	191.68	195.02	193.53	192.17	191.88	191.73	191.68	191.65	
12	191.55	191.53	191.91	191.63	191.67	194.94	193.98	192.16	191.88	191.72	191.70	191.65	
13	191.54	191.51	191.77	191.85	191.69	193.56	194.16	192.15	191.86	191.72	191.69	191.64	
14	191.55	191.50	192.95	192.29	191.92	194.27	193.18	192.13	191.86	191.71	191.69	191.64	
15	191.54	191.50	192.42	191.97	191.75	193.48	192.88	192.12	191.85	191.70	191.70	191.64	
16	191.55	191.49	191.99	192.75	192.54	193.43	194.18	192.11	191.85	191.71	191.74	191.64	
17	191.59	191.50	192.44	191.91	191.89	194.56	193.75	192.10	191.84	191.70	191.89	191.76	
18	191.69	191.55	191.98	191.87	191.78	193.72	193.17	192.09	191.84	191.70	191.76	191.69	
19	191.86	191.57	191.82	191.80	191.76	194.53	192.92	192.08	191.83	191.70	191.73	191.66	
20	191.86	191.84	191.71	192.44	191.80	194.50	192.79	192.07	191.82	191.69	191.86	191.65	
21	191.58	191.60	191.66	191.98	191.95	193.83	192.70	192.05	191.83	191.70	191.83	191.64	
22	191.59	191.55	191.62	192.06	191.72	194.07	193.62	192.03	191.82	191.73	191.75	191.67	
23	191.55	191.52	191.59	193.72	191.67	194.25	192.83	192.02	191.82	191.82	191.70	191.71	
24	191.56	191.52	191.57	194.17	191.65	194.14	192.68	192.00	191.81	191.74	191.69	191.68	
25	191.53	191.73	191.55	193.70	191.83	195.31	192.61	191.99	191.81	191.72	191.67	191.68	
26	191.54	191.65	191.54	194.42	192.08	194.52	192.56	191.99	191.80	191.70	191.67	191.65	
27	191.89	191.53	191.67	192.72	192.28	194.20	192.54	191.98	191.80	191.70	191.66	191.64	
28	191.55	191.52	191.61	192.36	191.95	193.78	192.54	191.97	191.80	191.69	191.66	191.62	
29	191.54	191.65	191.58	192.12	191.93	193.44	192.54	191.96	191.80	191.69		191.74	
30	191.59	191.57	191.95	192.00	193.87	193.20	192.49	191.96	191.79	191.68		192.40	
31		191.52		191.90	193.45		192.41		191.79	191.67		191.83	
Mean	191.61	191.61	191.85	192.22	191.99	194.09	193.00	192.16	191.85	191.73	191.72	191.70	
Max	192.34	192.21	192.95	194.42	193.87	197.46	194.18	192.82	191.94	191.82	191.89	192.40	197.46
Min	191.47	191.49	191.49	191.50	191.65	192.70	192.41	191.96	191.79	191.67	191.66	191.62	191.47
Annual Max Momentary Gage Height	200.24		m. (MSL.) ,				at 04.00 Hours ,						on Sep 9, 2021
Zero Gage at Bottom Elevation	190.09		m. (MSL.) ,			River Bed	191.08		m. (MSL.)				
Left Bank Elevation		198.84		m. (MSL.) ,									
Right Bank Elevation		198.90		m. (MSL.) ,		Drainage Are	515		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.06	2.20	1.12	1.50	2.20	8.12	12.14	8.48	2.60	1.80	1.37	1.33		
2	1.06	1.28	1.10	1.25	1.85	7.40	11.48	5.78	2.55	1.80	1.39	1.31		
3	1.06	2.20	1.15	1.21	1.75	7.49	10.19	4.94	2.50	1.80	1.40	1.31		
4	1.09	1.27	1.10	1.15	7.40	8.21	8.93	4.70	2.50	1.75	1.85	1.31		
5	1.12	1.39	1.09	1.13	2.70	35.71	7.67	4.46	2.45	1.70	1.50	1.31		
6	1.10	1.22	1.09	1.10	2.25	13.50	7.13	4.25	2.40	1.70	1.45	1.30		
7	4.64	1.15	2.55	1.21	1.90	14.74	8.12	4.15	2.40	1.70	1.40	1.31		
8	1.45	1.22	7.85	5.42	1.75	11.86	6.77	4.00	2.40	1.65	1.39	2.20		
9	1.21	3.95	3.50	3.25	1.50	178.44	9.47	3.90	2.35	1.65	1.39	1.45		
10	1.18	1.30	3.95	2.65	1.37	126.26	9.92	3.85	2.35	1.60	1.37	1.36		
11	1.16	1.13	3.65	1.45	1.37	45.28	15.27	3.75	2.30	1.55	1.37	1.33		
12	1.18	1.15	2.45	1.30	1.36	42.96	20.44	3.70	2.30	1.50	1.40	1.33		
13	1.16	1.12	1.75	2.15	1.39	15.58	23.38	3.65	2.20	1.50	1.39	1.31		
14	1.18	1.10	9.65	4.35	2.50	25.36	11.76	3.55	2.20	1.45	1.39	1.31		
15	1.16	1.10	5.12	2.75	1.65	14.74	9.02	3.50	2.15	1.40	1.40	1.31		
16	1.18	1.09	2.85	7.85	5.96	14.22	23.74	3.45	2.15	1.45	1.60	1.31		
17	1.24	1.10	5.24	2.45	2.35	32.14	17.58	3.40	2.10	1.40	2.35	1.70		
18	1.39	1.18	2.80	2.25	1.80	17.26	11.67	3.35	2.10	1.40	1.70	1.39		
19	2.20	1.21	2.00	1.90	1.70	31.42	9.38	3.30	2.05	1.40	1.55	1.34		
20	2.20	2.10	1.45	5.24	1.90	30.70	8.21	3.25	2.00	1.39	2.20	1.33		
21	1.22	1.25	1.34	2.80	2.65	18.49	7.40	3.15	2.05	1.40	2.05	1.31		
22	1.24	1.18	1.28	3.20	1.50	21.82	16.21	3.05	2.00	1.55	1.65	1.36		
23	1.18	1.13	1.24	17.26	1.36	25.00	8.57	3.00	2.00	2.00	1.40	1.45		
24	1.19	1.13	1.21	23.56	1.33	23.02	7.22	2.90	1.95	1.60	1.39	1.37		
25	1.15	1.55	1.18	17.05	2.05	54.09	6.59	2.85	1.95	1.50	1.36	1.37		
26	1.16	1.33	1.16	28.78	3.30	31.18	6.14	2.85	1.90	1.40	1.36	1.33		
27	2.35	1.15	1.36	7.58	4.30	24.10	5.96	2.80	1.90	1.40	1.34	1.31		
28	1.18	1.13	1.27	4.76	2.65	17.89	5.96	2.75	1.90	1.39	1.34	1.28		
29	1.16	1.33	1.22	3.50	2.55	14.32	5.96	2.70	1.90	1.39		1.60		
30	1.24	1.21	2.65	2.90	19.01	11.95	5.54	2.70	1.85	1.37		5.00		
31		1.13		2.40	14.43		5.06		1.85	1.36		2.05		
Total	42.09	42.98	75.37	165.35	101.78	923.25	322.88	112.16	67.30	47.95	42.75	47.28	1991.14	CMSDAY
Mean	1.40	1.39	2.51	5.33	3.28	30.78	10.42	3.74	2.17	1.55	1.53	1.53	5.46	CMS
Max	4.64	3.95	9.65	28.78	19.01	178.44	23.74	8.48	2.60	2.35	5.00	178.44		CMS
Min	1.06	1.09	1.09	1.10	1.33	7.40	5.06	2.70	1.85	1.36	1.34	1.28	1.06	CMS
Runoff	3.64	3.71	6.51	14.29	8.79	79.77	27.90	9.69	5.81	4.14	3.69	4.08	172.03	MCM
Momentary Peak	665.00 CMS. at 200.24 m. (MSL.) at 04.00 Hours , on Sep 9, 2021													
Runoff Yield	10.59 Liters/Second/Square KM.			Momentary Peak Yield 1291.34 Liters/Second/Square KM.										

## WATER YEAR : 2021

## PASAK RIVER BASIN

## Pasak River at Ban Non Thong , Phetchabun (S.36)

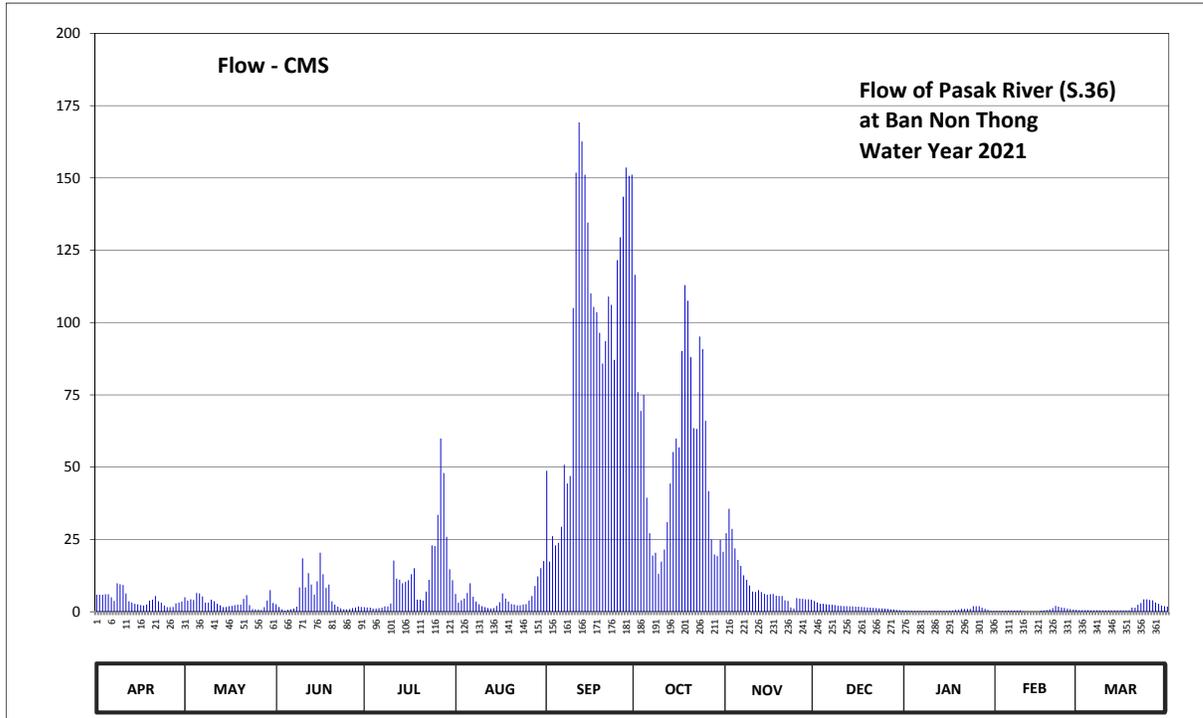
Lat 16 - 43 - 47 N Long 101 - 14 - 18 E

Location : on right bank at Ban Non Thong.

	<b>Ban Non Thong</b>	<b>Amphoe Lom Sak</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	2,141 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+130.950 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +143.140 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +140.870 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

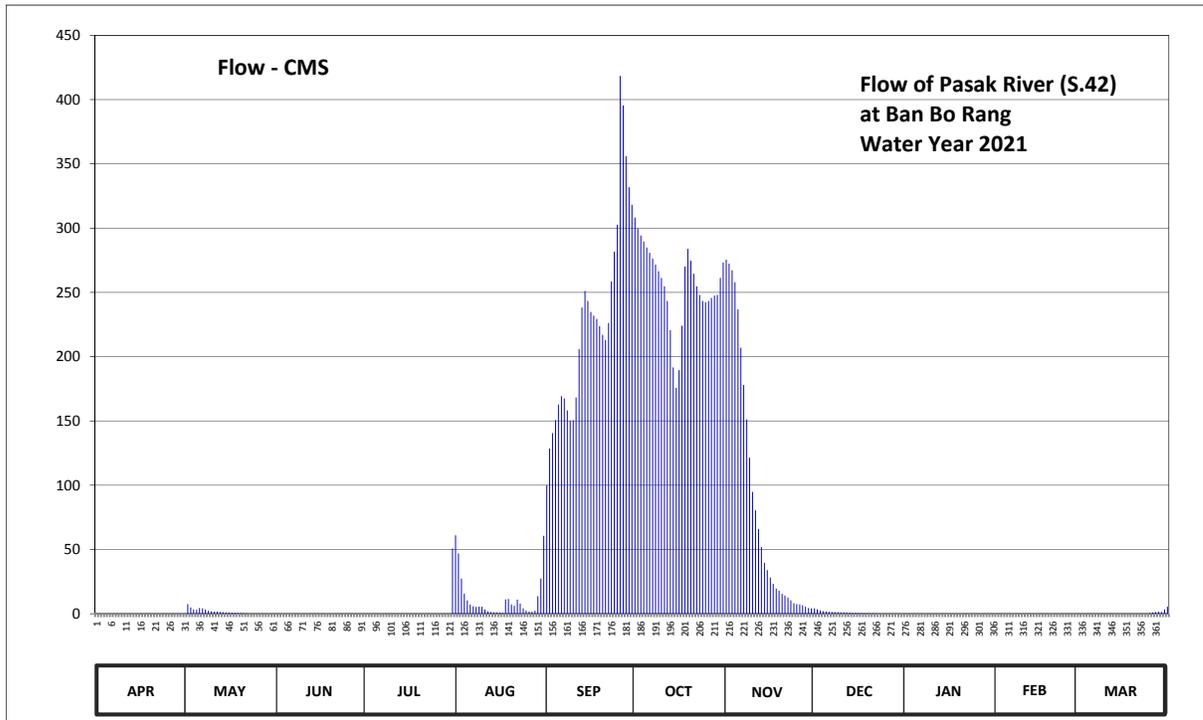
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	135.41	135.35	135.13	135.02	135.43	137.44	139.64	136.55	135.25	134.87	134.85	134.89	
2	135.41	135.26	135.03	135.01	135.19	136.06	138.42	136.92	135.20	134.87	134.85	134.89	
3	135.41	135.30	134.93	135.00	135.27	136.50	138.21	136.62	135.15	134.86	134.86	134.89	
4	135.42	135.28	134.86	134.96	135.32	136.35	138.39	136.30	135.15	134.85	134.86	134.89	
5	135.42	135.45	134.91	134.96	135.45	136.39	137.08	136.09	135.13	134.85	134.87	134.88	
6	135.35	135.44	134.93	134.98	135.66	136.65	136.55	135.98	135.12	134.85	134.87	134.88	
7	135.25	135.37	134.96	135.00	135.36	137.52	136.17	135.81	135.11	134.85	134.87	134.88	
8	135.66	135.19	135.04	135.05	135.23	137.27	136.22	135.73	135.10	134.85	134.87	134.88	
9	135.64	135.19	135.57	135.05	135.13	137.37	135.84	135.61	135.07	134.85	134.88	134.88	
10	135.62	135.29	136.12	135.16	135.06	139.32	136.06	135.48	135.07	134.85	134.82	134.88	
11	135.44	135.24	135.57	136.08	135.02	140.62	136.28	135.47	135.06	134.85	134.77	134.88	
12	135.24	135.15	135.85	135.75	134.98	141.08	136.72	135.51	135.06	134.85	134.75	134.88	
13	135.20	135.09	135.63	135.73	134.96	140.91	137.27	135.47	135.05	134.85	134.73	134.88	
14	135.15	135.02	135.41	135.66	134.98	140.60	137.69	135.43	135.05	134.85	134.76	134.88	
15	135.13	135.03	135.70	135.69	135.07	140.14	137.87	135.41	135.04	134.85	134.80	134.88	
16	135.10	135.06	136.22	135.72	135.21	139.46	137.75	135.42	135.04	134.87	134.86	134.88	
17	135.08	135.07	135.83	135.83	135.44	139.33	138.88	135.43	135.03	134.87	134.88	134.88	
18	135.12	135.10	135.56	135.94	135.32	139.28	139.54	135.39	135.02	134.90	134.90	134.88	
19	135.26	135.12	135.63	135.29	135.23	139.08	139.39	135.38	135.01	134.90	134.93	135.00	
20	135.29	135.12	135.24	135.29	135.14	138.74	138.81	135.38	135.00	134.95	134.98	135.00	
21	135.38	135.31	135.12	135.26	135.12	138.99	138.00	135.27	134.99	134.95	135.07	135.11	
22	135.24	135.40	135.04	135.48	135.09	139.43	137.99	135.25	134.98	134.95	135.04	135.18	
23	135.19	135.10	134.97	135.73	135.09	139.35	139.04	135.01	134.97	134.95	135.01	135.30	
24	135.08	134.94	134.93	136.35	135.12	138.78	138.90	134.96	134.97	135.06	134.99	135.30	
25	135.02	134.93	134.93	136.34	135.14	139.78	138.09	135.33	134.96	135.06	134.96	135.28	
26	135.02	134.92	134.94	136.83	135.26	140.00	137.17	135.32	134.95	135.06	134.94	135.27	
27	135.03	134.90	134.98	137.87	135.38	140.39	136.45	135.31	134.93	135.00	134.92	135.20	
28	135.17	135.02	135.01	137.41	135.60	140.67	136.19	135.30	134.92	134.95	134.91	135.15	
29	135.20	135.26	135.05	136.49	135.79	140.59	136.16	135.30	134.90	134.90		135.08	
30	135.23	135.51	135.03	135.92	135.94	140.60	136.44	135.29	134.89	134.85		135.06	
31		135.18		135.72	136.07		136.24		134.88	134.85		135.04	
Mean	135.27	135.18	135.27	135.70	135.29	138.96	137.53	135.59	135.03	134.90	134.89	135.00	
Max	135.66	135.51	136.22	137.87	136.07	141.08	139.64	136.92	135.25	135.06	135.07	135.30	141.08
Min	135.02	134.90	134.86	134.96	134.96	136.06	135.84	134.96	134.88	134.85	134.73	134.88	134.73
Annual Max Momentary Gage Height	141.09		m. (MSL.) ,				at 12.00 Hours ,						
Zero Gage at Bottom Elevation	130.95		m. (MSL.) ,			River Bed	134.16	m. (MSL.)					
Left Bank Elevation		140.88	m. (MSL.) ,										
Right Bank Elevation		140.86	m. (MSL.) ,			Drainage Are	2,141	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.86	5.00	2.57	1.58	6.18	48.74	116.54	27.15	3.75	0.42	0.30	0.54		
2	5.86	3.86	1.67	1.49	3.11	17.34	75.92	35.58	3.20	0.42	0.30	0.54		
3	5.86	4.30	0.84	1.40	3.97	26.10	69.41	28.66	2.75	0.36	0.36	0.54		
4	6.02	4.08	0.36	1.08	4.58	22.95	74.99	21.90	2.75	0.30	0.36	0.54		
5	6.02	6.50	0.68	1.08	6.50	23.79	39.42	17.91	2.57	0.30	0.42	0.48		
6	5.00	6.34	0.84	1.24	9.86	29.35	27.15	15.82	2.48	0.30	0.42	0.48		
7	3.75	5.28	1.08	1.40	5.14	50.82	19.43	12.59	2.39	0.30	0.42	0.48		
8	9.86	3.11	1.76	1.85	3.53	44.32	20.38	11.07	2.30	0.30	0.42	0.48		
9	9.54	3.11	8.42	1.85	2.57	46.92	13.16	9.06	2.03	0.30	0.48	0.48		
10	9.22	4.19	18.48	2.84	1.94	105.02	17.34	6.98	2.03	0.30	0.12	0.48		
11	6.34	3.64	8.42	17.72	1.58	151.82	21.52	6.82	1.94	0.30	0.00	0.48		
12	3.64	2.75	13.35	11.45	1.24	169.22	30.96	7.46	1.94	0.30	0.00	0.48		
13	3.20	2.21	9.38	11.07	1.08	162.59	44.32	6.82	1.85	0.30	0.00	0.48		
14	2.75	1.58	5.86	9.86	1.24	151.10	55.24	6.18	1.85	0.30	0.00	0.48		
15	2.57	1.67	10.50	10.34	2.03	134.54	59.92	5.86	1.76	0.30	0.00	0.48		
16	2.30	1.94	20.38	10.88	3.31	110.06	56.80	6.02	1.76	0.42	0.36	0.48		
17	2.12	2.03	12.97	12.97	6.34	105.38	90.18	6.18	1.67	0.42	0.48	0.48		
18	2.48	2.30	8.26	15.06	4.58	103.58	112.94	5.56	1.58	0.60	0.60	0.48		
19	3.86	2.48	9.38	4.19	3.53	96.46	107.54	5.42	1.49	0.60	0.84	1.40		
20	4.19	2.48	3.64	4.19	2.66	85.84	88.01	5.42	1.40	1.00	1.24	1.40		
21	5.42	4.44	2.48	3.86	2.48	93.59	63.50	3.97	1.32	1.00	2.03	2.39		
22	3.64	5.70	1.76	6.98	2.21	108.98	63.22	3.75	1.24	1.00	1.76	3.02		
23	3.11	2.30	1.16	11.07	2.21	106.10	95.18	1.49	1.16	1.00	1.49	4.30		
24	2.12	0.92	0.84	22.95	2.48	87.08	90.80	1.08	1.16	1.94	1.32	4.30		
25	1.58	0.84	0.84	22.74	2.66	121.58	66.02	4.72	1.08	1.94	1.08	4.08		
26	1.58	0.76	0.92	33.49	3.86	129.50	41.72	4.58	1.00	1.94	0.92	3.97		
27	1.67	0.60	1.24	59.92	5.42	143.54	25.05	4.44	0.84	1.40	0.76	3.20		
28	2.93	1.58	1.49	47.96	8.90	153.62	19.81	4.30	0.76	1.00	0.68	2.75		
29	3.20	3.86	1.85	25.89	12.21	150.74	19.24	4.30	0.60	0.60		2.12		
30	3.53	7.46	1.67	14.68	15.06	151.10	24.84	4.19	0.54	0.30		1.94		
31		3.02		10.88	17.53		20.76		0.48	0.30		1.76		
<b>Total</b>	129.22	100.33	153.09	383.96	149.99	2931.77	1671.31	285.28	53.67	20.26	17.16	45.51	5941.55	CMSDAY
<b>Mean</b>	4.31	3.24	5.10	12.39	4.84	97.73	53.91	9.51	1.73	0.65	0.61	1.47	16.28	CMS
<b>Max</b>	9.86	7.46	20.38	59.92	17.53	169.22	116.54	35.58	3.75	1.94	2.03	4.30	169.22	CMS
<b>Min</b>	1.58	0.60	0.36	1.08	1.08	17.34	13.16	1.08	0.48	0.30	0.00	0.48	0.00	CMS
<b>Runoff</b>	11.16	8.67	13.23	33.17	12.96	253.30	144.40	24.65	4.64	1.75	1.48	3.93	513.35	MCM
<b>Momentary Peak</b>	169.61 CMS. at 141.09 m. (MSL.) at 12.00 Hours , on Sep 12, 2021													
<b>Runoff Yield</b>	7.60 Liters/Second/Square KM.			Momentary Peak Yield				79.21 Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	60.97	100.00	308.20	275.48	4.25	0.00	0.00	0.00	
2	0.00	7.52	0.00	0.00	46.96	128.60	299.81	272.38	3.50	0.00	0.00	0.00	
3	0.00	5.00	0.00	0.00	27.30	140.50	294.23	267.18	2.60	0.00	0.00	0.00	
4	0.00	3.35	0.00	0.00	15.70	150.58	289.58	257.94	1.94	0.00	0.00	0.00	
5	0.00	3.05	0.00	0.00	10.44	162.82	284.93	236.80	1.70	0.00	0.00	0.00	
6	0.00	4.40	0.00	0.00	7.18	169.30	280.90	206.95	1.52	0.00	0.00	0.00	
7	0.00	4.25	0.00	0.00	5.75	167.50	276.25	177.94	1.40	0.00	0.00	0.00	
8	0.00	3.35	0.00	0.00	5.30	158.14	271.60	151.30	1.34	0.00	0.00	0.00	
9	0.00	2.30	0.00	0.00	5.60	150.22	266.52	121.45	1.22	0.00	0.00	0.00	
10	0.00	1.82	0.00	0.00	5.45	150.58	261.24	94.80	1.16	0.00	0.00	0.00	
11	0.00	1.64	0.00	0.00	3.35	168.22	254.70	80.50	1.10	0.00	0.00	0.00	
12	0.00	1.64	0.00	0.00	1.82	205.83	243.30	66.01	1.04	0.00	0.00	0.00	
13	0.00	1.40	0.00	0.00	1.40	238.30	220.54	51.92	0.86	0.00	0.00	0.00	
14	0.00	1.22	0.00	0.00	1.16	251.10	191.62	39.60	0.72	0.00	0.00	0.00	
15	0.00	1.04	0.00	0.00	1.10	243.30	175.78	33.90	0.68	0.00	0.00	0.00	
16	0.00	0.92	0.00	0.00	0.92	234.80	189.46	28.20	0.64	0.00	0.00	0.00	
17	0.00	0.80	0.00	0.00	0.72	231.98	224.06	23.22	0.60	0.00	0.00	0.00	
18	0.00	0.72	0.00	0.00	11.16	229.34	270.05	19.52	0.52	0.00	0.00	0.00	
19	0.00	0.56	0.00	0.00	11.52	223.62	284.00	17.96	0.44	0.00	0.00	0.00	
20	0.00	0.52	0.00	0.00	7.18	217.02	274.70	15.46	0.40	0.00	0.00	0.00	
21	0.00	0.40	0.00	0.00	6.20	212.90	264.54	14.05	0.32	0.00	0.00	0.00	
22	0.00	0.20	0.00	0.00	10.98	226.26	254.70	12.64	0.24	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	7.86	258.60	248.10	10.44	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	4.25	281.68	243.30	8.20	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	2.45	302.60	242.30	7.52	0.00	0.00	0.00	0.64	
26	0.00	0.00	0.00	0.00	1.70	418.50	243.30	7.35	0.00	0.00	0.00	1.16	
27	0.00	0.00	0.00	0.00	1.52	395.50	245.70	6.50	0.00	0.00	0.00	1.40	
28	0.00	0.00	0.00	0.00	2.30	355.97	247.50	5.45	0.00	0.00	0.00	1.64	
29	0.00	0.00	0.00	0.00	13.58	331.90	248.10	4.40	0.00	0.00	0.00	1.34	
30	0.00	0.00	0.00	0.00	27.30	318.28	261.24	4.25	0.00	0.00	0.00	3.35	
31	0.00	0.00	0.00	50.68	60.65		273.15		0.00	0.00		5.45	
<b>Total</b>	0.00	46.10	0.00	50.68	369.77	6823.94	7933.40	2519.31	28.19	0.00	0.00	14.98	17786.37 CMSDAY
<b>Mean</b>	0.00	1.49	0.00	1.63	11.93	227.46	255.92	83.98	0.91	0.00	0.00	0.48	48.73 CMS
<b>Max</b>	0.00	7.52	0.00	50.68	60.97	418.50	308.20	275.48	4.25	0.00	0.00	5.45	418.50 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.72	100.00	175.78	4.25	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	3.98	0.00	4.38	31.95	589.59	685.45	217.67	2.44	0.00	0.00	1.29	1536.74 MCM
<b>Momentary Peak</b>	463.10 CMS. at 64.27 m. (MSL.) at 08.00 Hours , on Sep 26, 2021												
<b>Runoff Yield</b>	6.58 Liters/Second/Square KM.			Momentary Peak Yield			62.58 Liters/Second/Square KM.						

**WATER YEAR : 2021****PASAK RIVER BASIN**

Pasak River at Ban Phun Sap , Lop Buri (S.43)

Lat 15 - 19 - 39 N Long 101 - 12 - 45 E

Location : on right bank at the bridge.

	<b>Ban Phun Sap</b>	<b>Amphoe Chai Badan</b>	<b>Changwat Lop Buri</b>
<b>Drainage Area</b>	9,359 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the Staff gage.	<b>Elevation</b>	+51.908 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +51.920 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.42	41.42	41.42	41.39	40.23	40.50	51.13	47.90	43.74	43.09	42.28	41.32	
2	41.42	41.42	41.42	41.33	40.35	41.10	50.75	48.10	43.73	43.06	42.24	41.29	
3	41.42	41.42	41.42	41.25	40.19	41.97	50.42	48.10	43.72	43.02	42.20	41.25	
4	41.42	41.42	41.42	41.15	39.92	42.27	50.08	47.97	43.70	43.00	42.16	41.21	
5	41.42	41.42	41.42	41.05	39.65	42.37	49.68	47.80	43.69	42.98	42.11	41.17	
6	41.42	41.42	41.42	40.95	39.00	42.71	49.24	47.49	43.68	42.96	42.09	41.13	
7	41.42	41.42	41.42	40.85	39.00	43.14	48.81	46.86	43.67	42.93	42.08	41.09	
8	41.42	41.42	41.42	40.75	39.00	43.37	48.42	46.05	43.66	42.91	42.05	41.10	
9	41.42	41.42	41.42	40.65	39.00	43.23	48.02	45.34	43.65	42.88	42.03	41.07	
10	41.42	41.42	41.42	40.55	39.00	42.93	47.67	44.77	43.64	42.85	42.00	41.05	
11	41.42	41.42	41.42	40.47	39.00	42.99	47.37	44.36	43.62	42.82	41.96	41.02	
12	41.42	41.42	41.42	40.43	39.00	43.16	47.11	44.13	43.61	42.78	41.92	41.00	
13	41.42	41.42	41.42	40.38	39.00	43.73	46.95	43.96	43.59	42.75	41.89	40.97	
14	41.42	41.42	41.42	40.33	39.00	44.40	46.68	43.95	43.57	42.72	41.84	40.94	
15	41.42	41.42	41.42	40.31	39.00	44.95	46.46	43.93	43.55	42.70	41.81	40.90	
16	41.42	41.42	41.42	40.30	39.00	45.22	46.60	43.92	43.53	42.68	41.77	40.87	
17	41.42	41.42	41.42	40.29	39.00	45.36	47.86	43.90	43.51	42.65	41.74	40.84	
18	41.42	41.42	41.42	40.28	39.00	45.36	48.85	43.88	43.48	42.61	41.70	40.85	
19	41.42	41.42	41.42	40.27	39.00	45.25	49.09	43.87	43.46	42.57	41.68	40.88	
20	41.42	41.42	41.42	40.26	39.00	45.15	48.97	43.87	43.44	42.55	41.65	40.81	
21	41.42	41.42	41.42	40.25	39.00	45.01	48.84	43.86	43.41	42.56	41.58	40.77	
22	41.42	41.42	41.42	40.24	39.00	45.23	48.66	43.85	43.38	42.56	41.55	40.71	
23	41.42	41.42	41.42	40.23	39.00	46.14	48.52	43.84	43.35	42.55	41.52	40.67	
24	41.42	41.42	41.42	40.22	39.00	46.77	48.22	43.83	43.32	42.53	41.49	40.64	
25	41.42	41.42	41.42	40.21	39.00	47.94	47.71	43.82	43.30	42.50	41.46	40.62	
26	41.42	41.42	41.42	40.20	39.00	50.22	47.27	43.80	43.28	42.48	41.42	40.57	
27	41.42	41.42	41.42	40.19	39.00	53.09	47.03	43.79	43.25	42.46	41.37	40.52	
28	41.42	41.42	41.42	40.19	39.00	52.91	46.90	43.78	43.22	42.43	41.35	40.47	
29	41.42	41.42	41.42	40.19	39.00	52.19	46.89	43.77	43.20	42.40		40.44	
30	41.42	41.42	41.42	40.18	39.12	51.60	47.47	43.76	43.17	42.36		41.57	
31		41.42		40.18	39.75		47.68		43.13	42.33		40.94	
Mean	41.42	41.42	41.42	40.50	39.20	45.34	48.24	44.94	43.49	42.70	41.82	40.93	
Max	41.42	41.42	41.42	41.39	40.35	53.09	51.13	48.10	43.74	43.09	42.28	41.57	53.09
Min	41.42	41.42	41.42	40.18	39.00	40.50	46.46	43.76	43.13	42.33	41.35	40.44	39.00
Annual Max Momentary Gage Height	53.38		m. (MSL.) ,			at 17.00 Hours , on Sep 27, 2021							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	36.54	m. (MSL.)					
Left Bank Elevation		51.91	m. (MSL.) ,										
Right Bank Elevation		51.95	m. (MSL.) ,			Drainage Are	9,359	Square Kilometers					



## WATER YEAR : 2021

## PASAK RIVER BASIN

Pasak River at Ban Sao Hai , Saraburi (S.44)

Lat 14 - 32 - 49 N Long 100 - 53 - 23 E

Location : on right bank at Ban Sao Hai.

	Ban Sao Hai	Amphoe Sao Hai	Changwat Saraburi
<b>Drainage Area</b>	14,927 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.		<b>Elevation</b> +16.762 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2014 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2014 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2014 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 6 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.07	6.68	6.37	4.67	5.97	5.55	13.50	9.65	7.17	6.02	6.79	7.06	
2	5.01	6.50	6.23	4.83	5.96	5.90	14.04	9.70	7.19	6.25	6.87	6.99	
3	4.94	6.35	6.11	4.87	5.82	6.61	14.27	9.64	6.97	6.51	7.17	6.89	
4	4.87	6.23	6.08	4.93	5.69	6.48	14.37	9.63	6.86	6.50	7.36	7.06	
5	4.93	6.17	6.03	4.97	5.63	6.03	14.34	9.79	6.67	6.30	7.34	7.22	
6	5.07	6.13	5.95	5.22	5.59	5.74	14.12	9.99	6.57	6.04	7.51	7.35	
7	5.19	6.10	5.89	5.99	5.54	5.70	13.76	10.05	6.46	5.87	7.42	7.51	
8	5.27	6.10	5.81	6.26	5.48	5.41	13.31	9.88	6.37	5.91	6.97	7.69	
9	5.32	6.07	5.75	5.72	5.41	5.79	12.72	9.69	6.39	5.92	6.88	7.87	
10	5.39	6.06	5.70	5.30	5.30	6.14	12.07	9.36	6.37	5.95	6.88	7.95	
11	5.51	5.97	5.65	5.37	5.13	5.70	11.28	8.75	6.40	6.12	7.04	7.72	
12	5.74	5.76	5.66	5.51	4.97	5.38	9.93	8.27	6.50	6.28	7.48	7.55	
13	6.13	5.56	5.77	5.59	4.85	5.26	7.85	7.92	6.54	6.38	7.60	7.52	
14	6.36	5.52	5.90	5.60	4.73	5.51	7.43	7.70	6.59	6.42	7.64	7.52	
15	6.35	5.50	6.06	5.69	4.71	5.66	8.37	7.16	6.64	6.27	7.61	7.55	
16	6.38	5.47	6.25	6.00	4.86	5.53	9.33	6.57	6.71	5.96	7.68	7.36	
17	6.38	5.62	6.13	6.25	5.04	6.04	10.08	6.29	6.82	5.69	7.60	7.08	
18	6.43	5.84	5.88	6.50	5.08	5.79	10.60	6.14	6.86	5.81	7.58	6.88	
19	6.48	5.95	5.58	6.67	5.07	5.95	10.98	6.02	6.87	5.94	7.64	6.94	
20	6.40	5.87	5.31	6.68	5.02	5.65	11.05	6.77	6.89	5.98	7.55	7.21	
21	6.17	5.76	5.06	6.70	4.94	5.61	10.97	7.27	6.86	5.80	7.49	7.65	
22	6.39	5.62	4.84	6.77	4.89	5.91	10.98	7.51	6.72	5.82	7.56	7.96	
23	6.60	5.51	4.76	6.66	4.81	5.42	11.07	7.69	6.53	5.86	7.49	7.95	
24	6.61	5.50	4.86	6.62	4.81	5.14	11.15	7.86	6.49	5.91	7.29	7.74	
25	6.54	5.59	4.99	6.64	4.85	4.81	11.15	7.89	6.58	5.97	7.12	7.95	
26	6.40	5.58	5.13	6.62	4.89	4.89	10.88	7.81	6.43	6.02	7.05	7.65	
27	6.42	5.64	5.17	6.54	4.90	5.24	10.45	7.70	6.45	6.04	7.22	7.78	
28	6.49	6.12	5.07	6.39	4.91	6.46	10.09	7.48	6.52	6.07	7.19	7.91	
29	6.54	6.33	4.90	6.26	5.12	8.65	9.88	7.33	6.37	6.20		7.87	
30	6.67	6.36	4.71	6.14	5.53	10.89	9.69	7.27	6.12	6.48		7.63	
31		6.39		6.13	5.50		9.56		5.86	6.69		7.58	
Mean	5.93	5.93	5.59	5.94	5.19	5.96	11.27	8.16	6.61	6.10	7.32	7.50	
Max	6.67	6.68	6.37	6.77	5.97	10.89	14.37	10.05	7.19	6.69	7.68	7.96	14.37
Min	4.87	5.47	4.71	4.67	4.71	4.81	7.43	6.02	5.86	5.69	6.79	6.88	4.67
Annual Max Momentary Gage Height	14.42		m. (MSL.) ,				at 21.00 Hours , on Oct 4, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed -0.56	m. (MSL)					
Left Bank Elevation		16.51		m. (MSL.) ,									
Right Bank Elevation		16.54		m. (MSL.) ,			Drainage Are 14,927	Square Kilometers					



## WATER YEAR : 2021

## THA CHIN BASIN

## Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)

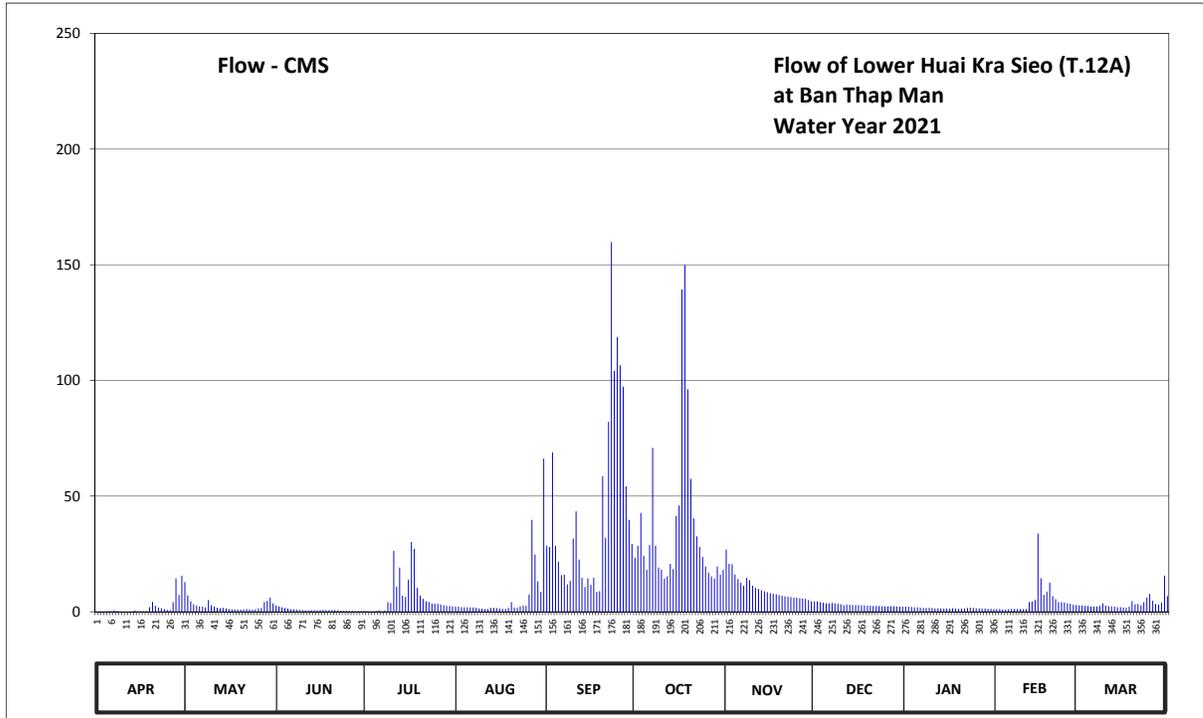
Lat 15 - 00 - 52 N Long 99 - 36 - 59 E

Location : on left bank at Ban Thap Man.

<b>Ban</b>	Thap Man	<b>Amphoe</b>	Dan Chang	<b>Changwat</b>	Suphan Buri
<b>Drainage Area</b>	640	sq.km.			
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On left bank near the bridge			<b>Elevation</b>	+103.545 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings				
<b>Period of Available Gage Records</b>	2006 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	2006 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	2006 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow				
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.44	98.64	97.87	97.49	97.80	99.33	99.14	99.27	98.04	97.80	97.65	97.88	
2	97.44	98.28	97.82	97.47	97.80	99.31	99.33	99.03	98.04	97.80	97.66	97.87	
3	97.42	98.05	97.76	97.46	97.77	100.43	99.78	99.02	98.01	97.78	97.63	97.85	
4	97.44	97.93	97.72	97.48	97.76	99.33	99.17	98.82	97.99	97.76	97.62	97.84	
5	97.50	97.87	97.68	97.51	97.76	99.07	98.92	98.71	97.97	97.76	97.64	97.81	
6	97.50	97.82	97.64	97.57	97.76	98.80	99.34	98.63	97.97	97.74	97.66	97.80	
7	97.56	97.80	97.63	97.49	97.75	98.81	100.47	98.56	97.98	97.72	97.66	97.81	
8	97.51	97.76	97.61	97.55	97.73	98.59	99.33	98.74	97.96	97.72	97.66	97.86	
9	97.45	98.10	97.61	98.02	97.69	98.67	98.96	98.69	97.95	97.73	97.65	97.97	
10	97.43	97.89	97.59	97.98	97.67	99.44	98.92	98.56	97.93	97.72	97.64	97.87	
11	97.42	97.81	97.57	99.25	97.65	99.80	98.72	98.51	97.89	97.69	97.65	97.84	
12	97.43	97.73	97.56	98.54	97.65	99.11	98.77	98.48	97.92	97.70	98.02	97.81	
13	97.43	97.70	97.57	98.96	97.72	98.74	99.03	98.44	97.91	97.69	98.04	97.80	
14	97.55	97.72	97.57	98.27	97.73	98.53	98.93	98.41	97.90	97.68	98.10	97.77	
15	97.47	97.69	97.57	98.22	97.71	98.73	99.74	98.38	97.90	97.68	99.51	97.77	
16	97.47	97.65	97.58	98.70	97.68	98.58	99.87	98.35	97.90	97.68	98.73	97.75	
17	97.47	97.63	97.60	99.39	97.67	98.74	101.62	98.34	97.89	97.70	98.30	97.73	
18	97.48	97.62	97.59	99.28	97.66	98.39	101.75	98.32	97.88	97.68	98.40	97.79	
19	97.77	97.62	97.58	98.51	97.72	98.41	100.96	98.29	97.86	97.67	98.63	98.05	
20	98.02	97.62	97.59	98.27	98.01	100.19	100.16	98.26	97.86	97.67	98.25	97.93	
21	97.85	97.63	97.60	98.14	97.75	99.45	99.71	98.24	97.84	97.69	98.13	97.94	
22	97.75	97.65	97.57	98.04	97.73	100.70	99.47	98.22	97.84	97.72	98.02	97.89	
23	97.70	97.63	97.54	98.02	97.82	101.87	99.31	98.21	97.84	97.74	98.01	98.01	
24	97.65	97.60	97.52	97.96	97.87	101.10	99.15	98.19	97.82	97.72	97.99	98.19	
25	97.60	97.63	97.52	97.95	97.85	101.33	98.98	98.19	97.82	97.70	97.97	98.33	
26	97.59	97.69	97.51	97.94	98.31	101.14	98.86	98.17	97.82	97.69	97.95	98.07	
27	98.01	97.71	97.51	97.92	99.69	100.98	98.77	98.16	97.83	97.68	97.91	97.94	
28	98.73	98.02	97.50	97.88	99.19	100.08	98.72	98.14	97.82	97.68	97.90	97.92	
29	98.30	98.06	97.50	97.85	98.66	99.69	98.98	98.09	97.81	97.66		98.00	
30	98.79	98.19	97.51	97.84	98.39	99.36	98.81	98.05	97.80	97.66		98.79	
31		97.97		97.82	100.37		98.92		97.80	97.65		98.25	
Mean	97.67	97.83	97.60	98.09	98.01	99.56	99.44	98.45	97.90	97.71	98.00	97.94	
Max	98.79	98.64	97.87	99.39	100.37	101.87	101.75	99.27	98.04	97.80	99.51	98.79	101.87
Min	97.42	97.60	97.50	97.46	97.65	98.39	98.72	98.05	97.80	97.65	97.62	97.73	97.42
Annual Max Momentary Gage Height	102.47		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation		0.00	m. (MSL.) ,			River Bed	97.25	m. (MSL.)					
Left Bank Elevation		103.24	m. (MSL.) ,										
Right Bank Elevation		103.26	m. (MSL.) ,			Drainage Are	640	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	12.76	2.69	0.27	2.20	28.51	23.38	26.89	4.44	2.20	1.15	2.76	
2	0.12	7.08	2.34	0.21	2.20	27.97	28.51	20.69	4.44	2.20	1.22	2.69	
3	0.06	4.55	1.92	0.18	1.99	68.87	42.72	20.46	4.11	2.06	1.01	2.55	
4	0.12	3.23	1.64	0.24	1.92	28.51	24.19	16.18	3.89	1.92	0.94	2.48	
5	0.30	2.69	1.36	0.35	1.92	21.61	18.16	14.09	3.67	1.92	1.08	2.27	
6	0.30	2.34	1.08	0.65	1.92	15.80	28.78	12.57	3.67	1.78	1.22	2.20	
7	0.60	2.20	1.01	0.27	1.85	15.99	70.83	11.24	3.78	1.64	1.22	2.27	
8	0.35	1.92	0.87	0.55	1.71	11.81	28.51	14.66	3.56	1.64	1.22	2.62	
9	0.15	5.10	0.87	4.22	1.43	13.33	19.08	13.71	3.45	1.71	1.15	3.67	
10	0.09	2.83	0.75	3.78	1.29	31.64	18.16	11.24	3.23	1.64	1.08	2.69	
11	0.06	2.27	0.65	26.35	1.15	43.40	14.28	10.29	2.83	1.43	1.15	2.48	
12	0.09	1.71	0.60	10.86	1.15	22.57	15.23	9.82	3.12	1.50	4.22	2.27	
13	0.09	1.50	0.65	19.08	1.64	14.66	20.69	9.26	3.01	1.43	4.44	2.20	
14	0.55	1.64	0.65	6.97	1.71	10.67	18.39	8.84	2.90	1.36	5.10	1.99	
15	0.21	1.43	0.65	6.42	1.57	14.47	41.36	8.42	2.90	1.36	33.81	1.99	
16	0.21	1.15	0.70	13.90	1.36	11.62	45.92	8.00	2.90	1.36	14.47	1.85	
17	0.21	1.01	0.80	30.13	1.29	14.66	139.24	7.86	2.83	1.50	7.30	1.71	
18	0.24	0.94	0.75	27.16	1.22	8.56	149.90	7.58	2.76	1.36	8.70	2.13	
19	1.99	0.94	0.70	10.29	1.64	8.84	96.12	7.19	2.62	1.29	12.57	4.55	
20	4.22	0.94	0.75	6.97	4.11	58.60	57.40	6.86	2.62	1.29	6.75	3.23	
21	2.55	1.01	0.80	5.54	1.85	31.95	40.34	6.64	2.48	1.43	5.43	3.34	
22	1.85	1.15	0.65	4.44	1.71	82.10	32.57	6.42	2.48	1.64	4.22	2.83	
23	1.50	1.01	0.50	4.22	2.34	159.74	27.97	6.31	2.48	1.78	4.11	4.11	
24	1.15	0.80	0.40	3.56	2.69	104.10	23.65	6.09	2.34	1.64	3.89	6.09	
25	0.80	1.01	0.40	3.45	2.55	118.78	19.54	6.09	2.34	1.50	3.67	7.72	
26	0.75	1.43	0.35	3.34	7.44	106.54	16.94	5.87	2.34	1.43	3.45	4.77	
27	4.11	1.57	0.35	3.12	39.66	97.26	15.23	5.76	2.41	1.36	3.01	3.34	
28	14.47	4.22	0.30	2.76	24.73	54.20	14.28	5.54	2.34	1.36	2.90	3.12	
29	7.30	4.66	0.30	2.55	13.14	39.66	19.54	4.99	2.27	1.22		4.00	
30	15.61	6.09	0.35	2.48	8.56	29.32	15.99	4.55	2.20	1.22		15.61	
31		3.67		2.34	66.14		18.16		2.20	1.15		6.75	
<b>Total</b>	<b>60.17</b>	<b>84.85</b>	<b>25.83</b>	<b>206.65</b>	<b>206.08</b>	<b>1295.74</b>	<b>1145.06</b>	<b>304.11</b>	<b>92.61</b>	<b>48.32</b>	<b>140.48</b>	<b>112.28</b>	<b>3722.18</b> CMSDAY
<b>Mean</b>	<b>2.01</b>	<b>2.74</b>	<b>0.86</b>	<b>6.67</b>	<b>6.65</b>	<b>43.19</b>	<b>36.94</b>	<b>10.14</b>	<b>2.99</b>	<b>1.56</b>	<b>5.02</b>	<b>3.62</b>	<b>10.20</b> CMS
<b>Max</b>	<b>15.61</b>	<b>12.76</b>	<b>2.69</b>	<b>30.13</b>	<b>66.14</b>	<b>159.74</b>	<b>149.90</b>	<b>26.89</b>	<b>4.44</b>	<b>2.20</b>	<b>33.81</b>	<b>15.61</b>	<b>159.74</b> CMS
<b>Min</b>	<b>0.06</b>	<b>0.80</b>	<b>0.30</b>	<b>0.18</b>	<b>1.15</b>	<b>8.56</b>	<b>14.28</b>	<b>4.55</b>	<b>2.20</b>	<b>1.15</b>	<b>0.94</b>	<b>1.71</b>	<b>0.06</b> CMS
<b>Runoff</b>	<b>5.20</b>	<b>7.33</b>	<b>2.23</b>	<b>17.85</b>	<b>17.81</b>	<b>111.95</b>	<b>98.93</b>	<b>26.28</b>	<b>8.00</b>	<b>4.17</b>	<b>12.14</b>	<b>9.70</b>	<b>321.60</b> MCM
<b>Momentary Peak</b>	<b>211.15</b>	<b>CMS.</b>	<b>at 102.47 m. (MSL.)</b>	<b>at 06.00 Hours</b>	<b>,</b>	<b>on Oct 18, 2021</b>							
<b>Runoff Yield</b>	<b>15.93</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>329.92</b>	<b>Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Khwae Noi River at Ban Lum Sum , Kanchanaburi (K.10)

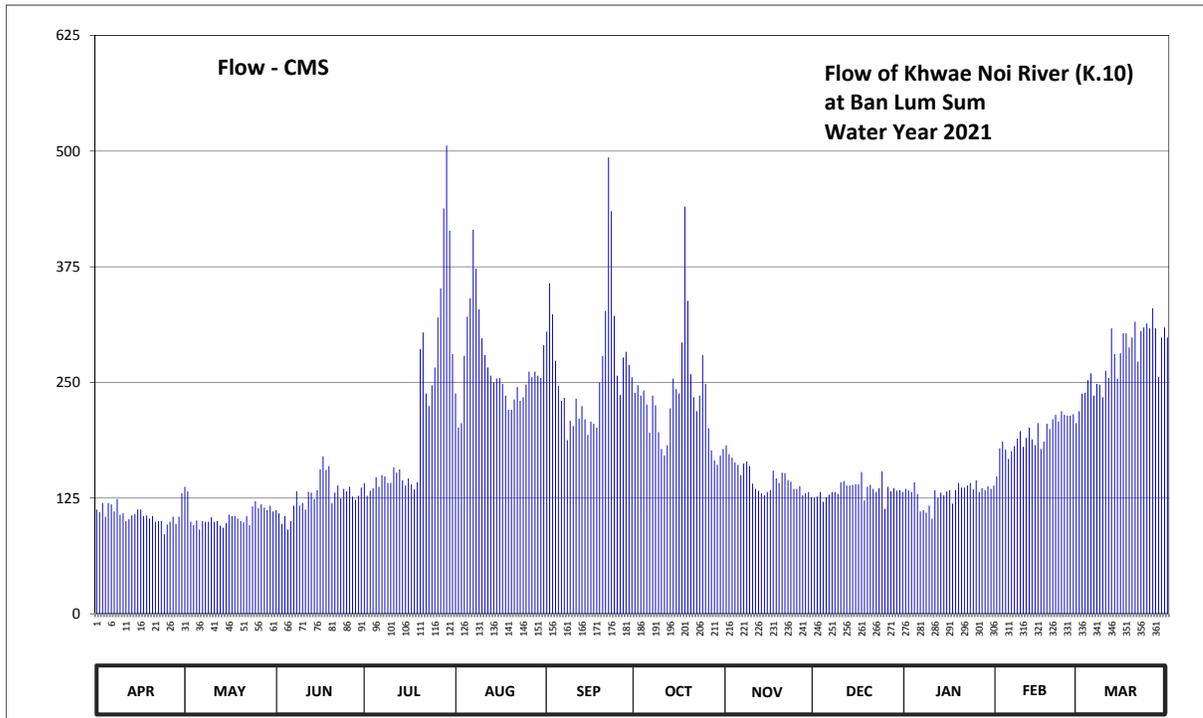
Lat 14 - 05 - 31 N Long 99 - 10 - 43 E

Location : on left bank about 100 meters upstream from Ban Lum Sum railway station

	Ban Lum Sum	Amphoe Sai Yok	Changwat Kanchanaburi
<b>Drainage Area</b>	7,010 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+30.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+52.089 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1965 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1965 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1965 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

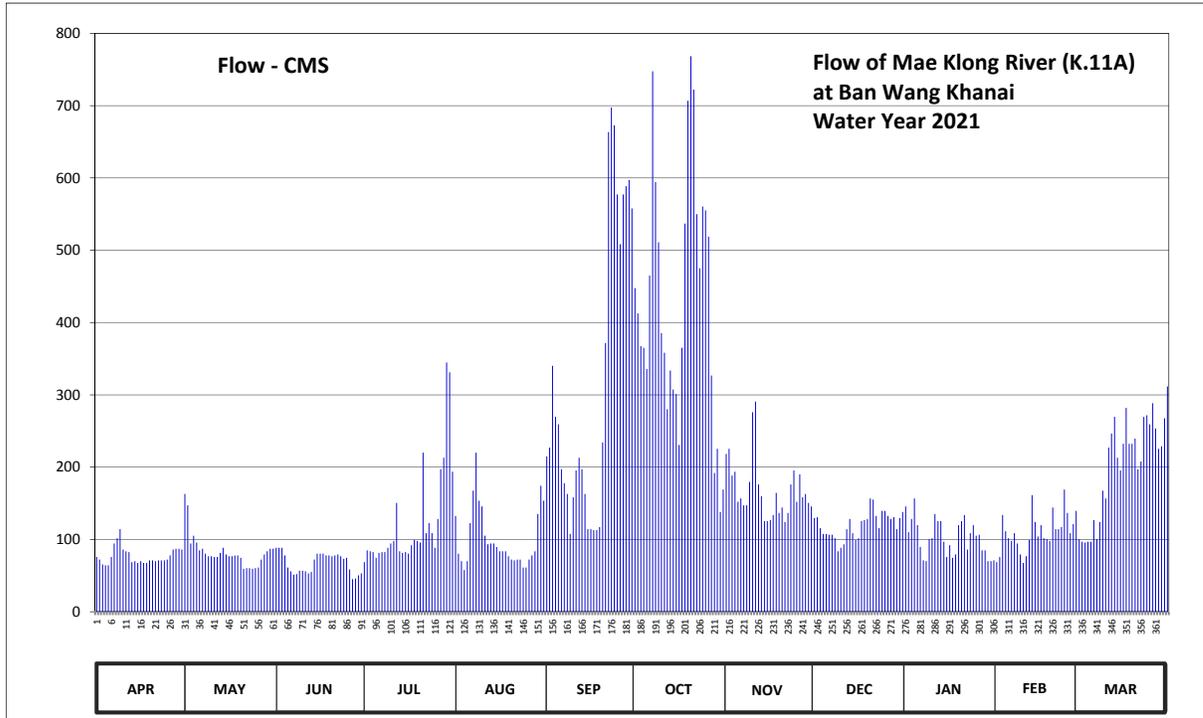
## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.28	32.63	32.27	32.69	33.95	34.72	33.96	33.25	32.46	32.60	32.79	33.71	
2	32.24	32.56	32.22	32.49	33.49	35.30	34.06	33.13	32.48	32.58	33.21	33.95	
3	32.38	32.09	32.06	32.57	33.55	34.93	33.92	33.08	32.55	32.55	33.30	33.96	
4	32.17	32.04	32.18	32.61	34.43	34.37	33.99	33.01	32.40	32.70	33.19	34.13	
5	32.38	32.11	31.97	32.78	34.90	34.05	33.80	32.97	32.47	32.52	33.06	34.22	
6	32.36	31.97	32.10	32.63	35.12	33.85	33.42	32.81	32.51	32.25	33.17	33.92	
7	32.25	32.10	32.34	32.81	35.89	33.89	33.92	32.99	32.55	32.27	33.24	34.08	
8	32.44	32.09	32.56	32.79	35.47	33.32	33.79	33.02	32.55	32.23	33.34	34.07	
9	32.20	32.09	32.34	32.69	34.99	33.58	33.43	32.95	32.52	32.34	33.44	33.90	
10	32.22	32.16	32.38	32.69	34.64	33.51	33.20	32.68	32.70	32.14	33.23	34.25	
11	32.10	32.09	32.28	32.93	34.44	33.88	33.11	32.60	32.72	32.58	33.35	34.16	
12	32.13	32.10	32.55	32.85	34.29	33.61	33.25	32.57	32.65	32.46	33.49	34.76	
13	32.19	32.03	32.54	32.90	34.19	33.78	33.75	32.53	32.65	32.54	33.33	34.45	
14	32.21	32.00	32.44	32.73	34.10	33.60	34.15	32.50	32.66	32.50	33.25	34.15	
15	32.28	32.07	32.58	32.65	34.15	33.39	34.01	32.55	32.67	32.56	33.55	34.46	
16	32.28	32.20	32.90	32.76	34.16	33.57	33.95	32.58	32.67	32.58	33.20	34.70	
17	32.18	32.18	33.10	32.67	34.08	33.54	34.59	32.88	32.86	32.37	33.30	34.70	
18	32.19	32.18	32.89	32.59	33.92	33.49	36.14	32.76	32.42	32.58	33.54	34.53	
19	32.14	32.14	32.95	32.70	33.73	34.10	35.09	32.69	32.63	32.69	33.47	34.65	
20	32.18	32.10	32.38	34.51	33.73	34.43	34.21	32.85	32.66	32.62	33.60	34.84	
21	32.09	32.08	32.54	34.71	33.87	34.97	33.90	32.84	32.60	32.62	33.66	34.36	
22	32.10	32.18	32.65	33.95	34.04	36.67	33.71	32.73	32.55	32.65	33.57	34.73	
23	32.10	32.04	32.45	33.78	33.85	36.09	33.92	32.71	32.61	32.69	33.71	34.77	
24	31.90	32.33	32.60	34.06	33.90	34.91	34.44	32.60	32.87	32.59	33.66	34.82	
25	32.05	32.41	32.56	34.29	34.07	34.19	34.08	32.60	32.29	32.73	33.65	34.76	
26	32.09	32.30	32.63	34.89	34.24	33.93	33.48	32.64	32.63	32.55	33.65	35.00	
27	32.17	32.36	32.48	35.24	34.17	34.41	33.18	32.50	32.56	32.61	33.67	34.76	
28	32.06	32.31	32.43	36.12	34.24	34.48	33.04	32.53	32.61	32.58	33.55	34.17	
29	32.17	32.27	32.49	36.80	34.19	34.32	32.97	32.55	32.57	32.64		34.65	
30	32.53	32.34	32.62	35.88	34.16	34.17	33.11	32.47	32.58	32.60		34.77	
31		32.25		34.45	34.56		33.20		32.55	32.65		34.65	
Mean	32.20	32.19	32.48	33.56	34.27	34.23	33.83	32.75	32.59	32.53	33.40	34.42	
Max	32.53	32.63	33.10	36.80	35.89	36.67	36.14	33.25	32.87	32.73	33.71	35.00	36.80
Min	31.90	31.97	31.97	32.49	33.49	33.32	32.97	32.47	32.29	32.14	32.79	33.71	31.90
Annual Max Momentary Gage Height	37.01		m. (MSL.) ,				at 03.00 Hours , on Jul 29, 2021						
Zero Gage at Bottom Elevation	30.40		m. (MSL.) ,			River Bed	27.62	m. (MSL.)					
Left Bank Elevation		46.23	m. (MSL.) ,										
Right Bank Elevation		45.99	m. (MSL.) ,			Drainage Are	7,010	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	112.60	137.10	111.90	141.30	238.00	304.80	238.80	182.00	125.20	135.00	148.30	218.80		
2	109.80	132.20	108.40	127.30	201.20	357.00	246.80	172.40	126.60	133.60	178.80	238.00		
3	119.60	99.30	97.20	132.90	206.00	323.70	235.60	168.60	131.50	131.50	186.00	238.80		
4	104.90	95.80	105.60	135.70	278.70	273.30	241.20	163.70	121.00	142.00	177.20	252.40		
5	119.60	100.70	90.90	147.60	321.00	246.00	226.00	160.90	125.90	129.40	167.20	259.80		
6	118.20	90.90	100.00	137.10	340.80	230.00	195.60	149.70	128.70	110.50	175.60	235.60		
7	110.50	100.00	116.80	149.70	415.00	233.20	235.60	162.30	131.50	111.90	181.20	248.40		
8	123.80	99.30	132.20	148.30	373.00	187.60	225.20	164.40	131.50	109.10	189.20	247.60		
9	107.00	99.30	116.80	141.30	329.10	208.40	196.40	159.50	129.40	116.80	197.20	234.00		
10	108.40	104.20	119.60	141.30	297.60	202.80	178.00	140.60	142.00	102.80	180.40	262.50		
11	100.00	99.30	112.60	158.10	279.60	232.40	170.80	135.00	143.40	133.60	190.00	254.80		
12	102.10	100.00	131.50	152.50	266.10	210.80	182.00	132.90	138.50	125.20	201.20	308.40		
13	106.30	95.10	130.80	156.00	257.20	224.40	222.00	130.10	138.50	130.80	188.40	280.50		
14	107.70	93.00	123.80	144.10	250.00	210.00	254.00	128.00	139.20	128.00	182.00	254.00		
15	112.60	97.90	133.60	138.50	254.00	193.20	242.80	131.50	139.90	132.20	206.00	281.40		
16	112.60	107.00	156.00	146.20	254.80	207.60	238.00	133.60	139.90	133.60	178.00	303.00		
17	105.60	105.60	170.00	139.90	248.40	205.20	293.10	154.60	153.20	118.90	186.00	303.00		
18	106.30	105.60	155.30	134.30	235.60	201.20	440.00	146.20	122.40	133.60	205.20	287.70		
19	102.80	102.80	159.50	142.00	220.40	250.00	338.10	141.30	137.10	141.30	199.60	298.50		
20	105.60	100.00	119.60	285.90	220.40	278.70	258.90	152.50	139.20	136.40	210.00	315.60		
21	99.30	98.60	130.80	303.90	231.60	327.30	234.00	151.80	135.00	136.40	214.80	272.40		
22	100.00	105.60	138.50	238.00	245.20	493.00	218.80	144.10	131.50	138.50	207.60	305.70		
23	100.00	95.80	124.50	224.40	230.00	435.00	235.60	142.70	135.70	141.30	218.80	309.30		
24	86.00	116.10	135.00	246.80	234.00	321.90	279.60	135.00	153.90	134.30	214.80	313.80		
25	96.50	121.70	132.20	266.10	247.60	257.20	248.40	135.00	113.30	144.10	214.00	308.40		
26	99.30	114.00	137.10	320.10	261.60	236.40	200.40	137.80	137.10	131.50	214.00	330.00		
27	104.90	118.20	126.60	351.60	255.60	276.90	176.40	128.00	132.20	135.70	215.60	308.40		
28	97.20	114.70	123.10	438.00	261.60	283.20	165.80	130.10	135.70	133.60	206.00	255.60		
29	104.90	111.90	127.30	506.00	257.20	268.80	160.90	131.50	132.90	137.80		298.50		
30	130.10	116.80	136.40	414.00	254.80	255.60	170.80	125.90	133.60	135.00		309.30		
31		110.50		280.50	290.40		178.00		131.50	138.50		298.50		
Total	3214.20	3289.00	3803.60	6589.40	8256.50	7935.60	7127.60	4371.70	4157.00	4042.90	5433.10	8632.70	66853.30	CMSDAY
Mean	107.14	106.10	126.79	212.56	266.34	264.52	229.92	145.72	134.10	130.42	194.04	278.47	183.16	CMS
Max	130.10	137.10	170.00	506.00	415.00	493.00	440.00	182.00	153.90	144.10	218.80	330.00	506.00	CMS
Min	86.00	90.90	90.90	127.30	201.20	187.60	160.90	125.90	113.30	102.80	148.30	218.80	86.00	CMS
Runoff	277.71	284.17	328.63	569.32	713.36	685.64	615.82	377.71	359.16	349.31	469.42	745.87	5776.13	MCM
Momentary Peak		527.00	CMS. at 37.01 m. (MSL.)											on Jul 29, 2021
Runoff Yield		26.13	Liters/Second/Square KM.											Momentary Peak Yield 75.18 Liters/Second/Square KM.





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	75.65	162.80	88.40	68.75	132.40	214.76	447.50	218.28	129.60	145.75	68.75	100.40		
2	72.20	147.30	88.40	84.85	80.25	227.08	412.50	225.32	131.00	110.00	75.65	96.80		
3	65.30	94.40	88.40	83.70	69.90	340.25	367.25	188.36	115.60	128.20	133.80	95.60		
4	64.15	105.20	77.95	82.55	57.60	269.60	365.00	193.64	107.60	156.60	111.40	96.80		
5	64.15	95.60	61.20	74.50	69.90	259.10	335.75	151.95	107.60	119.80	101.60	96.80		
6	75.65	84.85	55.80	81.40	122.60	197.16	465.00	156.60	106.40	89.60	98.00	126.80		
7	94.40	87.20	51.30	82.55	167.45	177.80	747.50	147.30	106.40	71.05	108.80	100.40		
8	101.60	80.25	52.20	82.55	220.04	162.80	594.35	147.30	101.60	69.90	94.40	124.00		
9	114.20	76.80	56.70	88.40	153.50	107.60	511.00	179.56	83.70	100.40	79.10	167.45		
10	86.00	76.80	56.70	94.40	145.75	158.15	385.25	275.90	88.40	101.60	67.60	156.60		
11	83.70	75.65	55.80	98.00	105.20	195.40	358.25	290.60	93.20	135.20	76.80	227.08		
12	82.55	75.65	53.10	150.40	93.20	213.00	280.10	176.04	114.20	125.40	99.20	246.44		
13	68.75	81.40	54.90	83.70	94.40	197.16	333.50	159.70	128.20	125.40	161.25	269.60		
14	69.90	88.40	72.20	81.40	94.40	162.80	307.40	125.40	108.80	96.80	124.00	213.00		
15	67.60	79.10	80.25	82.55	89.60	114.20	301.10	125.40	99.20	75.65	104.00	195.40		
16	69.90	76.80	80.25	80.25	83.70	114.20	230.60	126.80	101.60	92.00	119.80	232.36		
17	67.60	76.80	80.25	92.00	83.70	112.80	365.00	133.80	125.40	74.50	101.60	282.20		
18	67.60	77.95	77.95	99.20	83.70	112.80	537.00	164.35	126.80	79.10	100.40	232.36		
19	71.05	77.95	77.95	98.00	76.80	117.00	706.80	136.60	128.20	119.80	98.00	232.36		
20	71.05	74.50	76.80	95.60	72.20	234.12	768.50	144.20	156.60	125.40	144.20	239.40		
21	69.90	59.40	77.95	220.04	71.05	371.75	722.30	124.00	155.05	133.80	114.20	197.16		
22	71.05	60.30	79.10	108.80	72.20	663.40	550.00	136.60	132.40	86.00	114.20	207.72		
23	71.05	60.30	76.80	122.60	72.20	697.50	475.00	176.04	115.60	108.80	117.00	269.60		
24	71.05	59.40	73.35	108.80	61.20	672.70	560.40	195.40	139.55	119.80	169.00	271.70		
25	72.20	60.30	74.50	88.40	61.20	577.25	555.20	151.95	139.55	105.20	136.60	259.10		
26	77.95	61.20	58.50	128.20	72.20	508.40	518.80	190.12	132.40	106.40	108.80	288.50		
27	86.00	72.20	45.00	197.16	77.95	577.25	326.75	158.15	128.20	84.85	121.20	253.48		
28	87.20	79.10	45.90	213.00	83.70	588.65	191.88	162.80	131.00	84.85	139.55	225.32		
29	87.20	83.70	50.40	344.75	135.20	597.20	225.32	150.40	114.20	69.90		228.84		
30	86.00	87.20	53.10	331.25	174.28	557.80	138.00	145.75	129.60	69.90		267.50		
31		87.20		193.64	153.50		169.00		138.00	71.05		311.60		
Total	2312.60	2565.70	2021.10	3841.39	3130.97	9499.68	13252.00	5058.31	3715.65	3182.70	3088.90	6312.37	57981.37	CMSDAY
Mean	77.09	82.76	67.37	123.92	101.00	316.66	427.48	168.61	119.86	102.67	110.32	203.62	158.85	CMS
Max	114.20	162.80	88.40	344.75	220.04	697.50	768.50	290.60	156.60	156.60	169.00	311.60	768.50	CMS
Min	64.15	59.40	45.00	68.75	57.60	107.60	138.00	124.00	83.70	69.90	67.60	95.60	45.00	CMS
Runoff	199.81	221.68	174.62	331.90	270.52	820.77	1144.97	437.04	321.03	274.99	266.88	545.39	5009.59	MCM
Momentary Peak	877.00 CMS. at 14.48 m. (MSL.) at 10.00 Hours , on Oct 7, 2021													
Runoff Yield	6.17 Liters/Second/Square KM.			Momentary Peak Yield			34.07 Liters/Second/Square KM.							

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)

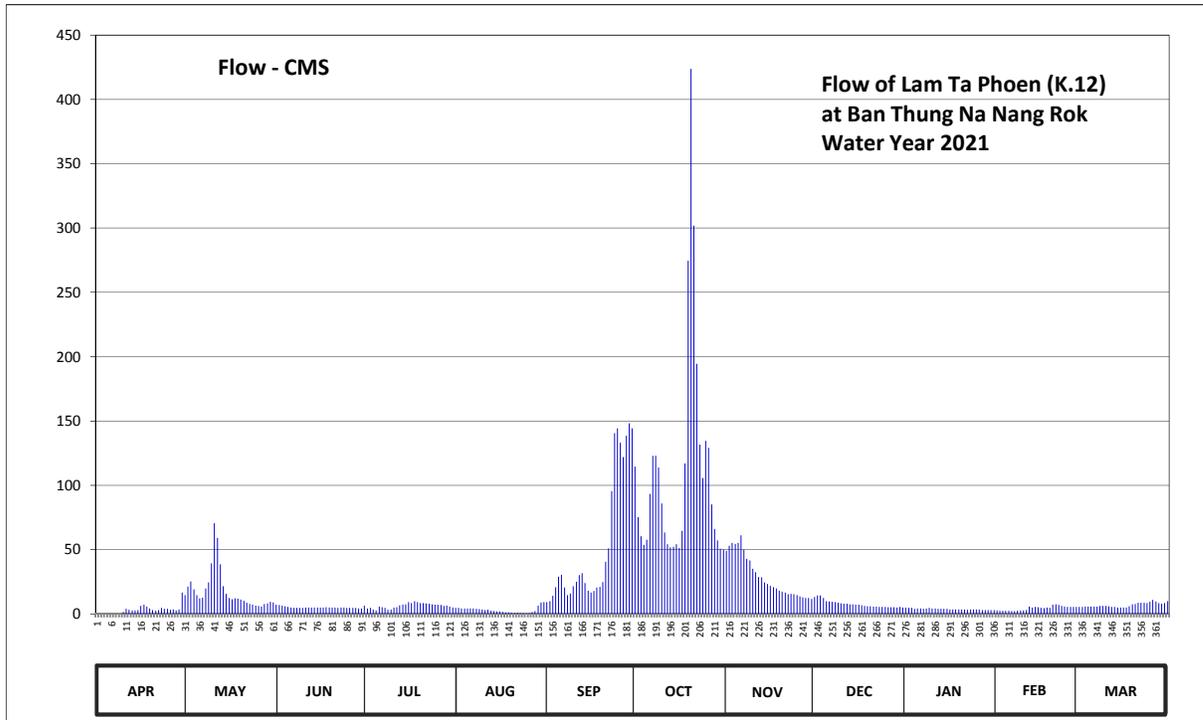
Lat 14 - 10 - 32 N Long 99 - 26 - 03 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	Ban Thung Na Nang Rok	Amphoe Mueang	Changwat Kanchanaburi
<b>Drainage Area</b>	2,293 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+39.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 6 meters from the top staff gage.	<b>Elevation</b>	+49.135 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1965 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1965 - 1968 , 1995 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1965 - 1968 , 1995 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +45.810 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.44	41.23	40.86	40.82	40.71	40.95	44.56	42.64	41.15	40.73	40.58	40.76	
2	40.44	41.56	40.84	40.68	40.70	40.99	43.52	42.78	41.21	40.71	40.56	40.76	
3	40.43	41.73	40.82	40.71	40.68	41.20	43.04	42.86	41.21	40.70	40.56	40.77	
4	40.43	41.45	40.79	40.63	40.67	41.54	42.81	42.83	41.11	40.66	40.56	40.78	
5	40.43	41.22	40.76	40.57	40.67	41.87	42.95	42.86	40.99	40.68	40.56	40.77	
6	40.43	41.10	40.73	40.78	40.68	41.93	44.02	43.07	40.98	40.68	40.54	40.77	
7	40.43	41.13	40.71	40.74	40.68	41.52	44.75	42.67	40.96	40.65	40.54	40.77	
8	40.43	41.49	40.70	40.70	40.66	41.23	44.75	42.41	40.95	40.67	40.56	40.80	
9	40.43	41.70	40.70	40.61	40.64	41.29	44.54	42.36	40.93	40.70	40.57	40.81	
10	40.49	42.28	40.71	40.62	40.62	41.57	43.82	42.12	40.90	40.68	40.57	40.80	
11	40.66	43.38	40.72	40.72	40.60	41.72	43.14	42.01	40.89	40.68	40.59	40.79	
12	40.61	43.00	40.73	40.74	40.61	41.92	42.82	41.86	40.89	40.66	40.78	40.76	
13	40.58	42.25	40.73	40.83	40.56	41.98	42.74	41.85	40.87	40.66	40.73	40.75	
14	40.58	41.57	40.72	40.85	40.54	41.68	42.75	41.70	40.87	40.65	40.76	40.73	
15	40.59	41.27	40.72	40.87	40.53	41.40	42.82	41.65	40.86	40.65	40.74	40.73	
16	40.80	41.11	40.73	40.95	40.53	41.33	42.72	41.59	40.85	40.63	40.71	40.73	
17	40.85	41.07	40.73	40.92	40.50	41.39	43.18	41.54	40.83	40.62	40.69	40.73	
18	40.77	41.10	40.74	40.99	40.48	41.52	44.62	41.48	40.81	40.63	40.72	40.79	
19	40.68	41.09	40.73	40.95	40.48	41.55	46.95	41.40	40.79	40.63	40.70	40.87	
20	40.60	41.05	40.72	40.91	40.46	41.71	47.83	41.36	40.79	40.63	40.86	40.88	
21	40.56	41.00	40.72	40.91	40.44	42.33	47.17	41.32	40.78	40.62	40.87	40.93	
22	40.59	40.93	40.71	40.90	40.46	42.71	46.04	41.26	40.77	40.61	40.84	40.93	
23	40.70	40.88	40.72	40.89	40.45	44.08	44.93	41.27	40.76	40.63	40.80	40.93	
24	40.65	40.85	40.72	40.87	40.45	45.11	44.34	41.26	40.76	40.63	40.77	40.91	
25	40.66	40.82	40.71	40.86	40.43	45.18	44.99	41.22	40.75	40.63	40.76	40.96	
26	40.61	40.80	40.71	40.86	40.44	44.96	44.88	41.18	40.74	40.62	40.75	41.04	
27	40.63	40.77	40.71	40.84	40.50	44.73	43.80	41.14	40.74	40.60	40.75	40.98	
28	40.58	40.88	40.71	40.80	40.55	45.07	43.23	41.12	40.74	40.60	40.75	40.92	
29	40.62	40.90	40.68	40.82	40.82	45.26	42.93	41.11	40.72	40.60		40.89	
30	41.32	40.97	40.68	40.77	40.94	45.18	42.70	41.08	40.75	40.59		40.91	
31		40.94		40.72	40.95		42.67		40.73	40.59		40.99	
Mean	40.60	41.34	40.73	40.80	40.59	42.50	44.06	41.83	40.87	40.65	40.68	40.84	
Max	41.32	43.38	40.86	40.99	40.95	45.26	47.83	43.07	41.21	40.73	40.87	41.04	47.83
Min	40.43	40.77	40.68	40.57	40.43	40.95	42.67	41.08	40.72	40.59	40.54	40.73	40.43
Annual Max Momentary Gage Height	47.91		m. (MSL.) ,				at 05.00 Hours , on Oct 20, 2021						
Zero Gage at Bottom Elevation	39.70		m. (MSL.) ,			River Bed	39.43	m. (MSL.)					
Left Bank Elevation		48.71		m. (MSL.) ,									
Right Bank Elevation		45.80		m. (MSL.) ,		Drainage Are	2,293	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	14.60	7.20	6.40	4.65	9.00	114.40	48.92	13.00	4.95	2.70	5.40	
2	0.00	21.20	6.80	4.20	4.50	9.80	75.20	52.84	14.20	4.65	2.40	5.40	
3	0.00	25.25	6.40	4.65	4.20	14.00	60.20	55.08	14.20	4.50	2.40	5.55	
4	0.00	19.00	5.85	3.45	4.05	20.80	53.68	54.24	12.20	3.90	2.40	5.70	
5	0.00	14.40	5.40	2.55	4.05	28.75	57.60	55.08	9.80	4.20	2.40	5.55	
6	0.00	12.00	4.95	5.70	4.20	30.25	93.25	61.10	9.60	4.20	2.10	5.55	
7	0.00	12.60	4.65	5.10	4.20	20.40	122.75	49.76	9.20	3.75	2.10	5.55	
8	0.00	19.80	4.50	4.50	3.90	14.60	122.75	42.66	9.00	4.05	2.40	6.00	
9	0.00	24.50	4.50	3.15	3.60	15.80	113.60	41.36	8.60	4.50	2.55	6.20	
10	1.35	39.28	4.65	3.30	3.30	21.40	85.75	35.12	8.00	4.20	2.55	6.00	
11	3.90	70.40	4.80	4.80	3.00	25.00	63.20	32.26	7.80	4.20	2.85	5.85	
12	3.15	59.00	4.95	5.10	3.15	30.00	53.96	28.50	7.80	3.90	5.70	5.40	
13	2.70	38.50	4.95	6.60	2.40	31.50	51.72	28.25	7.40	3.90	4.95	5.25	
14	2.70	21.40	4.80	7.00	2.10	24.00	52.00	24.50	7.40	3.75	5.40	4.95	
15	2.85	15.40	4.80	7.40	1.95	18.00	53.96	23.25	7.20	3.75	5.10	4.95	
16	6.00	12.20	4.95	9.00	1.95	16.60	51.16	21.80	7.00	3.45	4.65	4.95	
17	7.00	11.40	4.95	8.40	1.50	17.80	64.40	20.80	6.60	3.30	4.35	4.95	
18	5.55	12.00	5.10	9.80	1.20	20.40	116.90	19.60	6.20	3.45	4.80	5.85	
19	4.20	11.80	4.95	9.00	1.20	21.00	274.50	18.00	5.85	3.45	4.50	7.40	
20	3.00	11.00	4.80	8.20	0.90	24.75	423.60	17.20	5.85	3.45	7.20	7.60	
21	2.40	10.00	4.80	8.20	0.60	40.58	301.60	16.40	5.70	3.30	7.40	8.60	
22	2.85	8.60	4.65	8.00	0.90	50.88	194.30	15.20	5.55	3.15	6.80	8.60	
23	4.50	7.60	4.80	7.80	0.75	95.50	131.50	15.40	5.40	3.45	6.00	8.60	
24	3.75	7.00	4.80	7.40	0.75	140.50	105.60	15.20	5.40	3.45	5.55	8.20	
25	3.90	6.40	4.65	7.20	0.45	144.00	134.50	14.40	5.25	3.45	5.40	9.20	
26	3.15	6.00	4.65	7.20	0.60	133.00	129.00	13.60	5.10	3.30	5.25	10.80	
27	3.45	5.55	4.65	6.80	1.50	121.85	85.00	12.80	5.10	3.00	5.25	9.60	
28	2.70	7.60	4.65	6.00	2.25	138.50	65.90	12.40	5.10	3.00	5.25	8.40	
29	3.30	8.00	4.20	6.40	6.40	148.00	57.04	12.20	4.80	3.00		7.80	
30	16.40	9.40	4.20	5.55	8.80	144.00	50.60	11.60	5.25	2.85		8.20	
31		8.80		4.80	9.00		49.76		4.95	2.85		9.80	
Total	88.80	550.68	150.00	193.65	92.00	1570.66	3409.38	869.52	234.50	114.30	120.40	211.85	7605.74 CMSDAY
Mean	2.96	17.76	5.00	6.25	2.97	52.36	109.98	28.98	7.56	3.69	4.30	6.83	20.84 CMS
Max	16.40	70.40	7.20	9.80	9.00	148.00	423.60	61.10	14.20	4.95	7.40	10.80	423.60 CMS
Min	0.00	5.55	4.20	2.55	0.45	9.00	49.76	11.60	4.80	2.85	2.10	4.95	0.00 CMS
Runoff	7.67	47.58	12.96	16.73	7.95	135.71	294.57	75.13	20.26	9.88	10.40	18.30	657.14 MCM
Momentary Peak	445.20	CMS.	at 47.91 m. (MSL.)	at 05.00 Hours	on Oct 20, 2021								
Runoff Yield	9.09	Liters/Second/Square KM.		Momentary Peak Yield	194.16	Liters/Second/Square KM.							

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

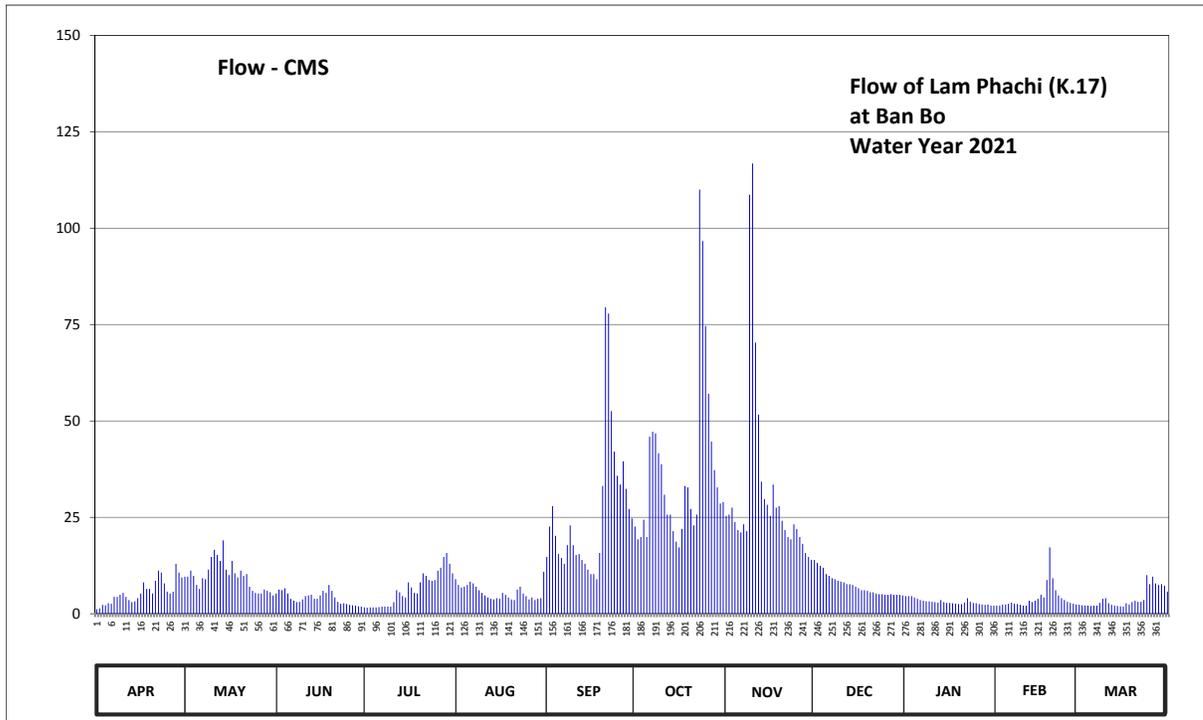
Lat 13 - 32 - 47 N Long 99 - 21 - 12 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	<b>Ban Bo</b>	<b>Amphoe</b> Suan Phung	<b>Changwat</b> Ratchaburi
<b>Drainage Area</b>	1,343 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+97.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Along the measuring line.	<b>Elevation</b>	+108.062 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1966 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1966 - 1988 , 1993 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1966 - 1988 , 1993 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.38	97.94	97.72	97.44	97.91	98.15	98.42	98.51	98.12	97.68	97.49	97.51	
2	97.41	97.94	97.78	97.43	97.84	98.42	98.31	98.52	98.09	97.68	97.49	97.50	
3	97.51	98.01	97.77	97.44	97.81	98.58	98.33	98.57	98.06	97.68	97.52	97.49	
4	97.50	97.95	97.80	97.44	97.82	98.34	98.48	98.46	98.04	97.66	97.52	97.49	
5	97.55	97.84	97.72	97.44	97.84	98.18	98.33	98.39	97.97	97.64	97.54	97.48	
6	97.54	97.79	97.64	97.45	97.88	98.14	99.04	98.37	97.95	97.62	97.57	97.49	
7	97.67	97.92	97.61	97.46	97.86	98.08	99.07	98.44	97.92	97.61	97.54	97.49	
8	97.67	97.91	97.58	97.46	97.82	98.26	99.06	98.38	97.91	97.60	97.53	97.56	
9	97.70	98.02	97.59	97.46	97.77	98.43	98.94	100.18	97.89	97.60	97.51	97.64	
10	97.73	98.15	97.63	97.46	97.73	98.26	98.87	100.29	97.88	97.59	97.49	97.65	
11	97.67	98.22	97.68	97.58	97.69	98.17	98.66	99.55	97.87	97.58	97.49	97.55	
12	97.62	98.17	97.69	97.77	97.66	98.18	98.52	99.17	97.85	97.57	97.61	97.51	
13	97.58	98.11	97.70	97.74	97.64	98.12	98.52	98.75	97.85	97.62	97.58	97.49	
14	97.60	98.30	97.64	97.68	97.63	98.08	98.38	98.63	97.84	97.58	97.61	97.48	
15	97.65	98.02	97.64	97.66	97.65	98.02	98.29	98.59	97.82	97.56	97.64	97.47	
16	97.72	97.96	97.69	97.87	97.64	97.97	98.24	98.51	97.80	97.56	97.70	97.46	
17	97.87	98.11	97.76	97.81	97.73	97.97	98.40	98.73	97.77	97.55	97.66	97.55	
18	97.79	97.98	97.73	97.73	97.70	97.91	98.72	98.57	97.77	97.54	97.90	97.52	
19	97.79	97.93	97.84	97.72	97.66	98.19	98.71	98.58	97.76	97.53	98.24	97.58	
20	97.72	98.01	97.76	97.87	97.63	98.72	98.56	98.47	97.74	97.53	97.92	97.61	
21	97.89	97.95	97.66	97.98	97.62	99.72	98.43	98.39	97.74	97.57	97.77	97.59	
22	98.01	97.97	97.59	97.95	97.78	99.69	98.52	98.33	97.72	97.65	97.69	97.59	
23	97.99	97.82	97.54	97.90	97.82	99.19	100.20	98.31	97.71	97.59	97.65	97.62	
24	97.86	97.76	97.55	97.89	97.72	98.95	100.00	98.44	97.71	97.56	97.62	97.96	
25	97.75	97.73	97.53	97.90	97.68	98.79	99.63	98.40	97.70	97.55	97.59	97.85	
26	97.72	97.72	97.51	98.01	97.63	98.73	99.29	98.33	97.70	97.53	97.56	97.94	
27	97.75	97.72	97.50	98.04	97.66	98.89	99.01	98.27	97.71	97.52	97.54	97.86	
28	98.08	97.78	97.49	98.15	97.62	98.70	98.83	98.19	97.70	97.51	97.52	97.84	
29	97.99	97.76	97.47	98.19	97.64	98.56	98.71	98.15	97.70	97.52		97.85	
30	97.93	97.74	97.46	98.08	97.65	98.49	98.60	98.12	97.70	97.49		97.83	
31		97.69		97.98	98.00		98.61		97.69	97.49		97.75	
Mean	97.72	97.93	97.64	97.74	97.73	98.46	98.76	98.62	97.83	97.58	97.62	97.62	
Max	98.08	98.30	97.84	98.19	98.00	99.72	100.20	100.29	98.12	97.68	98.24	97.96	100.29
Min	97.38	97.69	97.46	97.43	97.62	97.91	98.24	98.12	97.69	97.49	97.49	97.46	97.38
Annual Max Momentary Gage Height	101.35		m. (MSL.) ,				at 17.00 Hours ,						on Nov 9, 2021
Zero Gage at Bottom Elevation		97.50	m. (MSL.) ,			River Bed	96.55	m. (MSL.)					
Left Bank Elevation		108.73	m. (MSL.) ,										
Right Bank Elevation		103.02	m. (MSL.) ,			Drainage Are	1,343	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.17	9.61	5.24	1.66	8.97	14.73	22.60	25.36	13.96	4.56	2.11	2.30		
2	1.39	9.61	6.26	1.57	7.46	22.60	19.30	25.72	13.20	4.56	2.11	2.20		
3	2.30	11.16	6.09	1.66	6.82	27.88	19.90	27.52	12.43	4.56	2.40	2.11		
4	2.20	9.83	6.60	1.66	7.03	20.20	24.40	23.80	11.92	4.22	2.40	2.11		
5	2.70	7.46	5.24	1.66	7.46	15.49	19.90	21.70	10.26	3.88	2.60	2.02		
6	2.60	6.43	3.88	1.75	8.32	14.47	45.92	21.10	9.83	3.54	2.90	2.11		
7	4.39	9.18	3.37	1.84	7.89	12.94	47.21	23.20	9.18	3.37	2.60	2.11		
8	4.39	8.97	3.00	1.84	7.03	17.80	46.78	21.40	8.97	3.20	2.50	2.80		
9	4.90	11.41	3.10	1.84	6.09	22.90	41.62	108.67	8.54	3.20	2.30	3.88		
10	5.41	14.73	3.71	1.84	5.41	17.80	38.77	116.75	8.32	3.10	2.11	4.05		
11	4.39	16.60	4.56	3.00	4.73	15.24	30.86	70.30	8.11	3.00	2.11	2.70		
12	3.54	15.24	4.73	6.09	4.22	15.49	25.72	51.65	7.68	2.90	3.37	2.30		
13	3.00	13.71	4.90	5.58	3.88	13.96	25.72	34.25	7.68	3.54	3.00	2.11		
14	3.20	19.00	3.88	4.56	3.71	12.94	21.40	29.73	7.46	3.00	3.37	2.02		
15	4.05	11.41	3.88	4.22	4.05	11.41	18.70	28.24	7.03	2.80	3.88	1.93		
16	5.24	10.04	4.73	8.11	3.88	10.26	17.20	25.36	6.60	2.80	4.90	1.84		
17	8.11	13.71	5.92	6.82	5.41	10.26	22.00	33.50	6.09	2.70	4.22	2.70		
18	6.43	10.47	5.41	5.41	4.90	8.97	33.12	27.52	6.09	2.60	8.75	2.40		
19	6.43	9.40	7.46	5.24	4.22	15.75	32.74	27.88	5.92	2.50	17.20	3.00		
20	5.24	11.16	5.92	8.11	3.71	33.12	27.16	24.10	5.58	2.50	9.18	3.37		
21	8.54	9.83	4.22	10.47	3.54	79.52	22.90	21.70	5.58	2.90	6.09	3.10		
22	11.16	10.26	3.10	9.83	6.26	77.86	25.72	19.90	5.24	4.05	4.73	3.10		
23	10.69	7.03	2.60	8.75	7.03	52.55	110.00	19.30	5.07	3.10	4.05	3.54		
24	7.89	5.92	2.70	8.54	5.24	42.05	96.67	23.20	5.07	2.80	3.54	10.04		
25	5.75	5.41	2.50	8.75	4.56	35.76	74.62	22.00	4.90	2.70	3.10	7.68		
26	5.24	5.24	2.30	11.16	3.71	33.50	57.05	19.90	4.90	2.50	2.80	9.61		
27	5.75	5.24	2.20	11.92	4.22	39.52	44.63	18.10	5.07	2.40	2.60	7.89		
28	12.94	6.26	2.11	14.73	3.54	32.37	37.26	15.75	4.90	2.30	2.40	7.46		
29	10.69	5.92	1.93	15.75	3.88	27.16	32.74	14.73	4.90	2.40		7.68		
30	9.40	5.58	1.84	12.94	4.05	24.70	28.60	13.96	4.90	2.11		7.25		
31		4.73		10.47	10.90		28.98		4.73	2.11		5.75		
Total	169.13	300.55	123.38	197.77	172.12	779.20	1140.19	956.29	230.11	95.90	113.32	123.16	4401.12 CMSDAY	
Mean	5.64	9.70	4.11	6.38	5.55	25.97	36.78	31.88	7.42	3.09	4.05	3.97	12.06 CMS	
Max	12.94	19.00	7.46	15.75	10.90	79.52	110.00	116.75	13.96	4.56	17.20	10.04	116.75 CMS	
Min	1.17	4.73	1.84	1.57	3.54	8.97	17.20	13.96	4.73	2.11	2.11	1.84	1.17 CMS	
Runoff	14.61	25.97	10.66	17.09	14.87	67.32	98.51	82.62	19.88	8.29	9.79	10.64	380.26 MCM	
Momentary Peak		216.00	CMS.	at 101.35 m. (MSL.)										at 17.00 Hours , on Nov 9, 2021
Runoff Yield		8.98	Liters/Second/Square KM.											Momentary Peak Yield 160.83 Liters/Second/Square KM.

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Mae Nam Noi , Kanchanaburi (K.22C)

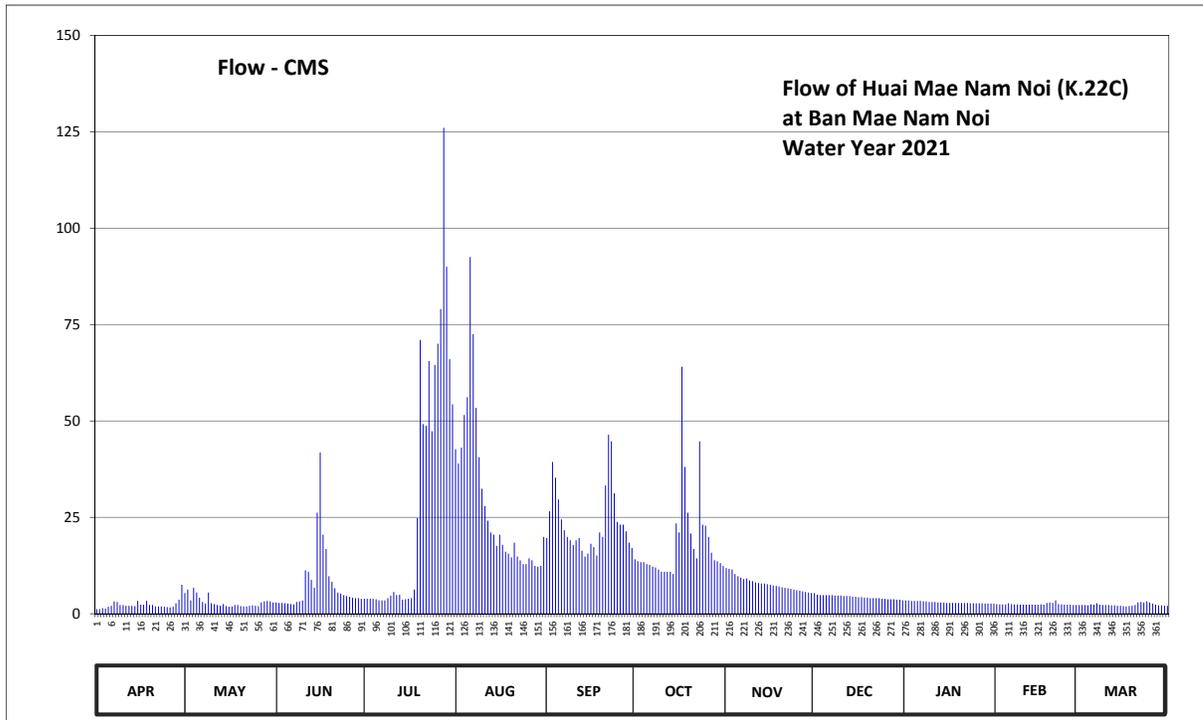
Lat 14 - 26 - 48 N Long 98 - 48 - 05 E

Location : on right bank about 640 meters upstream from station K.22A

	<b>Ban Mae Nam Noi</b>	<b>Amphoe Sai Yok</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	310 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+66.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 10 meters from the top staff gage.	<b>Elevation</b>	+78.516 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1989 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect..		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.22	67.59	67.41	67.48	68.91	68.28	68.07	67.97	67.59	67.45	67.37	67.34	
2	67.22	67.65	67.40	67.48	68.82	68.50	68.05	67.96	67.56	67.45	67.36	67.34	
3	67.25	67.45	67.40	67.48	68.92	68.83	68.04	67.95	67.55	67.44	67.36	67.34	
4	67.24	67.68	67.39	67.48	69.11	68.73	68.04	67.89	67.55	67.44	67.36	67.33	
5	67.29	67.60	67.38	67.47	69.21	68.59	68.02	67.86	67.55	67.44	67.39	67.36	
6	67.32	67.50	67.37	67.45	69.95	68.44	68.01	67.84	67.55	67.44	67.37	67.35	
7	67.43	67.42	67.36	67.45	69.55	68.35	67.99	67.82	67.55	67.43	67.36	67.39	
8	67.42	67.38	67.42	67.45	69.15	68.29	67.98	67.83	67.54	67.43	67.36	67.35	
9	67.34	67.60	67.43	67.49	68.86	68.26	67.95	67.80	67.54	67.42	67.35	67.34	
10	67.34	67.39	67.45	67.54	68.66	68.22	67.92	67.79	67.54	67.42	67.35	67.34	
11	67.32	67.37	67.94	67.61	68.54	68.26	67.92	67.77	67.53	67.42	67.35	67.34	
12	67.32	67.34	67.92	67.55	68.43	68.28	67.92	67.76	67.53	67.41	67.35	67.33	
13	67.32	67.32	67.81	67.56	68.33	68.16	67.92	67.75	67.53	67.41	67.35	67.33	
14	67.31	67.37	67.68	67.46	68.31	68.10	67.89	67.75	67.52	67.41	67.35	67.32	
15	67.44	67.31	68.49	67.47	68.21	68.13	68.41	67.74	67.52	67.40	67.35	67.32	
16	67.35	67.29	68.89	67.48	68.31	68.23	68.33	67.73	67.51	67.40	67.36	67.31	
17	67.35	67.30	68.31	67.49	68.22	68.20	69.38	67.72	67.51	67.40	67.35	67.30	
18	67.44	67.34	68.18	67.65	68.15	68.11	68.80	67.71	67.50	67.40	67.40	67.31	
19	67.34	67.34	67.86	68.45	68.13	68.33	68.49	67.70	67.50	67.40	67.41	67.32	
20	67.34	67.31	67.78	69.52	68.09	68.29	68.32	67.69	67.49	67.40	67.40	67.34	
21	67.30	67.30	67.67	69.06	68.24	68.68	68.18	67.68	67.49	67.40	67.45	67.41	
22	67.30	67.30	67.60	69.05	68.10	69.00	68.08	67.67	67.49	67.40	67.37	67.42	
23	67.30	67.32	67.58	69.41	68.06	68.96	68.96	67.66	67.49	67.39	67.36	67.41	
24	67.29	67.33	67.55	69.02	68.02	68.63	68.40	67.65	67.48	67.39	67.35	67.43	
25	67.28	67.32	67.53	69.39	68.02	68.42	68.39	67.64	67.48	67.39	67.35	67.41	
26	67.27	67.31	67.52	69.50	68.08	68.40	68.29	67.63	67.47	67.39	67.35	67.38	
27	67.29	67.41	67.50	69.68	68.06	68.40	68.14	67.62	67.47	67.39	67.34	67.35	
28	67.39	67.43	67.49	70.55	68.00	68.34	68.06	67.61	67.47	67.38	67.34	67.33	
29	67.46	67.44	67.49	69.90	67.99	68.24	68.05	67.60	67.46	67.38		67.33	
30	67.73	67.43	67.48	69.42	68.00	68.19	68.03	67.59	67.46	67.38		67.32	
31		67.41		69.17	68.29		68.00		67.45	67.38		67.32	
Mean	67.34	67.40	67.68	68.30	68.47	68.39	68.19	67.75	67.51	67.41	67.36	67.35	
Max	67.73	67.68	68.89	70.55	69.95	69.00	69.38	67.97	67.59	67.45	67.45	67.43	70.55
Min	67.22	67.29	67.36	67.45	67.99	68.10	67.89	67.59	67.45	67.38	67.34	67.30	67.22
Annual Max Momentary Gage Height	70.92		m. (MSL.) ,				at 06.00 Hours ,						on Jul 28, 2021
Zero Gage at Bottom Elevation	66.20		m. (MSL.) ,			River Bed	66.61	m. (MSL.)					
Left Bank Elevation	78.48		m. (MSL.) ,										
Right Bank Elevation	72.70		m. (MSL.) ,			Drainage Are	310	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	5.37	2.94	3.88	42.67	19.62	14.12	11.83	5.37	3.48	2.53	2.26	
2	1.18	6.28	2.80	3.88	38.93	26.55	13.63	11.64	4.96	3.48	2.44	2.26	
3	1.45	3.48	2.80	3.88	43.08	39.35	13.38	11.45	4.83	3.34	2.44	2.26	
4	1.36	6.74	2.71	3.88	51.52	35.27	13.38	10.31	4.83	3.34	2.44	2.17	
5	1.81	5.50	2.62	3.75	56.17	29.66	12.89	9.74	4.83	3.34	2.71	2.44	
6	2.08	4.15	2.53	3.48	92.50	24.48	12.65	9.36	4.83	3.34	2.53	2.35	
7	3.21	3.07	2.44	3.48	72.50	21.65	12.21	8.98	4.83	3.21	2.44	2.71	
8	3.07	2.62	3.07	3.48	53.38	19.91	12.02	9.17	4.69	3.21	2.44	2.35	
9	2.26	5.50	3.21	4.02	40.59	19.04	11.45	8.60	4.69	3.07	2.35	2.26	
10	2.26	2.71	3.48	4.69	32.43	17.88	10.88	8.45	4.69	3.07	2.35	2.26	
11	2.08	2.53	11.26	5.66	27.93	19.04	10.88	8.14	4.56	3.07	2.35	2.26	
12	2.08	2.26	10.88	4.83	24.14	19.62	10.88	7.98	4.56	2.94	2.35	2.17	
13	2.08	2.08	8.79	4.96	21.07	16.32	10.88	7.83	4.56	2.94	2.35	2.17	
14	1.99	2.53	6.74	3.61	20.49	14.85	10.31	7.83	4.42	2.94	2.35	2.08	
15	3.34	1.99	26.21	3.75	17.59	15.59	23.45	7.67	4.42	2.80	2.35	2.08	
16	2.35	1.81	41.84	3.88	20.49	18.17	21.07	7.52	4.29	2.80	2.44	1.99	
17	2.35	1.90	20.49	4.02	17.88	17.30	64.07	7.36	4.29	2.80	2.35	1.90	
18	3.34	2.26	16.81	6.28	16.08	15.10	38.10	7.21	4.15	2.80	2.80	1.99	
19	2.26	2.26	9.74	24.83	15.59	21.07	26.21	7.05	4.15	2.80	2.94	2.08	
20	2.26	1.99	8.29	71.00	14.61	19.91	20.78	6.90	4.02	2.80	2.80	2.26	
21	1.90	1.90	6.59	49.19	18.46	33.24	16.81	6.74	4.02	2.80	3.48	2.94	
22	1.90	1.90	5.50	48.73	14.85	46.40	14.36	6.59	4.02	2.80	2.53	3.07	
23	1.90	2.08	5.23	65.50	13.87	44.74	44.74	6.43	4.02	2.71	2.44	2.94	
24	1.81	2.17	4.83	47.33	12.89	31.22	23.10	6.28	3.88	2.71	2.35	3.21	
25	1.72	2.08	4.56	64.54	12.89	23.79	22.81	6.12	3.88	2.71	2.35	2.94	
26	1.63	1.99	4.42	70.00	14.36	23.10	19.91	5.97	3.75	2.71	2.35	2.62	
27	1.81	2.94	4.15	79.00	13.87	23.10	15.83	5.81	3.75	2.71	2.26	2.35	
28	2.71	3.21	4.02	126.00	12.40	21.36	13.87	5.66	3.75	2.62	2.26	2.17	
29	3.61	3.34	4.02	90.00	12.21	18.46	13.63	5.50	3.61	2.62		2.17	
30	7.52	3.21	3.88	66.00	12.40	17.06	13.14	5.37	3.61	2.62		2.08	
31		2.94		54.31	19.91		12.40		3.48	2.62		2.08	
<b>Total</b>	<b>70.50</b>	<b>94.79</b>	<b>236.85</b>	<b>931.84</b>	<b>877.75</b>	<b>712.85</b>	<b>573.84</b>	<b>235.49</b>	<b>133.74</b>	<b>91.20</b>	<b>69.77</b>	<b>72.87</b>	<b>4101.49</b> CMSDAY
<b>Mean</b>	<b>2.35</b>	<b>3.06</b>	<b>7.90</b>	<b>30.06</b>	<b>28.31</b>	<b>23.76</b>	<b>18.51</b>	<b>7.85</b>	<b>4.31</b>	<b>2.94</b>	<b>2.49</b>	<b>2.35</b>	<b>11.24</b> CMS
<b>Max</b>	<b>7.52</b>	<b>6.74</b>	<b>41.84</b>	<b>126.00</b>	<b>92.50</b>	<b>46.40</b>	<b>64.07</b>	<b>11.83</b>	<b>5.37</b>	<b>3.48</b>	<b>3.48</b>	<b>3.21</b>	<b>126.00</b> CMS
<b>Min</b>	<b>1.18</b>	<b>1.81</b>	<b>2.44</b>	<b>3.48</b>	<b>12.21</b>	<b>14.85</b>	<b>10.31</b>	<b>5.37</b>	<b>3.48</b>	<b>2.62</b>	<b>2.26</b>	<b>1.90</b>	<b>1.18</b> CMS
<b>Runoff</b>	<b>6.09</b>	<b>8.19</b>	<b>20.46</b>	<b>80.51</b>	<b>75.84</b>	<b>61.59</b>	<b>49.58</b>	<b>20.35</b>	<b>11.56</b>	<b>7.88</b>	<b>6.03</b>	<b>6.30</b>	<b>354.37</b> MCM
<b>Momentary Peak</b>	<b>148.20</b>	<b>CMS.</b>	<b>at 70.92 m. (MSL.)</b>	<b>at 06.00 Hours</b>	<b>, on Jul 28, 2021</b>								
<b>Runoff Yield</b>	<b>36.25</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>478.06</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Tha Khoei at Ban Kha , Ratchaburi (K.25A)

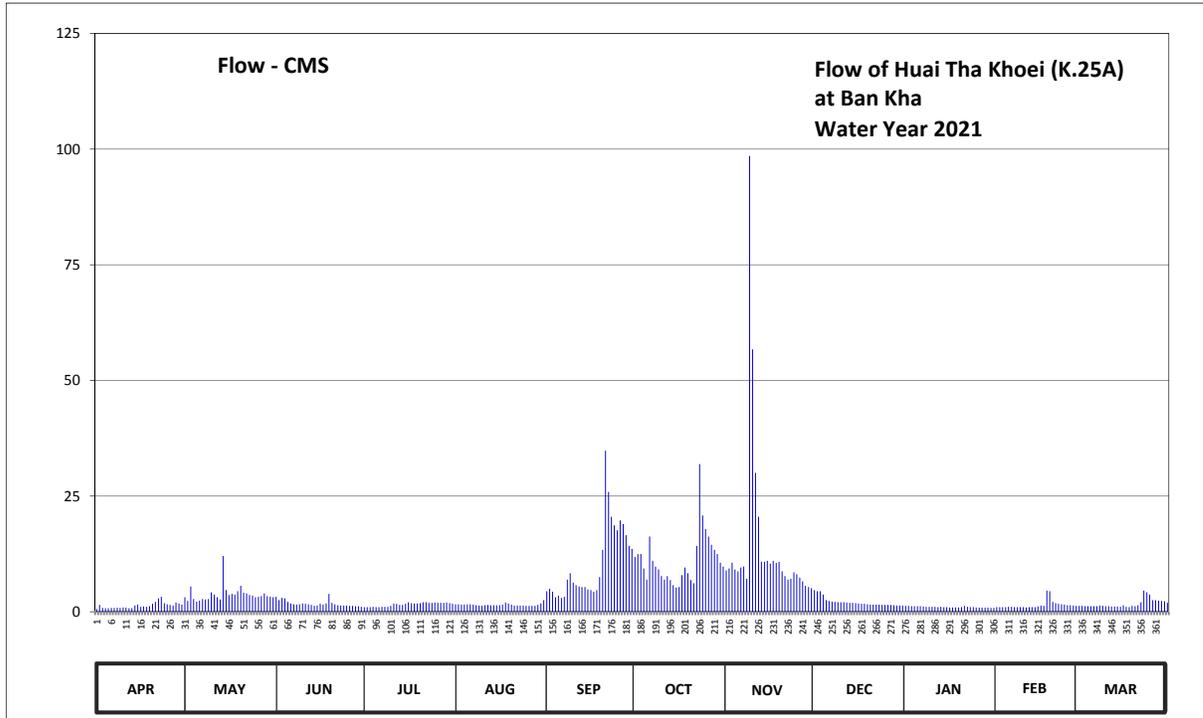
Lat 13 - 24 - 11 N Long 99 - 25 - 01 E

Location : on right bank about 8 kilometers upstream from station K.25

	<b>Ban Kha</b>	<b>Amphoe Ban Kha</b>	<b>Changwat Ratchaburi</b>
<b>Drainage Area</b>	375 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+152.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 1 meter from the top staff gage.	<b>Elevation</b>	+159.346 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.13	152.46	152.47	152.20	152.29	152.57	153.01	152.87	152.59	152.24	152.20	152.24	
2	152.27	152.39	152.41	152.20	152.29	152.61	153.04	152.89	152.57	152.24	152.20	152.24	
3	152.17	152.65	152.45	152.20	152.28	152.56	153.04	152.95	152.57	152.23	152.20	152.23	
4	152.16	152.43	152.44	152.21	152.28	152.46	152.89	152.88	152.51	152.23	152.20	152.23	
5	152.16	152.37	152.36	152.20	152.29	152.49	152.76	152.86	152.41	152.23	152.21	152.23	
6	152.17	152.40	152.31	152.20	152.29	152.45	153.21	152.90	152.39	152.23	152.21	152.23	
7	152.17	152.43	152.29	152.21	152.28	152.47	152.97	152.91	152.37	152.22	152.20	152.23	
8	152.18	152.42	152.28	152.21	152.26	152.76	152.91	152.77	152.36	152.21	152.20	152.25	
9	152.17	152.43	152.29	152.21	152.25	152.84	152.88	154.83	152.35	152.21	152.20	152.24	
10	152.19	152.55	152.31	152.24	152.24	152.71	152.81	154.28	152.35	152.21	152.20	152.23	
11	152.18	152.51	152.30	152.31	152.26	152.67	152.76	153.69	152.35	152.21	152.19	152.23	
12	152.16	152.46	152.29	152.30	152.27	152.65	152.81	153.37	152.34	152.20	152.20	152.22	
13	152.16	152.42	152.27	152.27	152.26	152.64	152.75	152.96	152.33	152.21	152.20	152.22	
14	152.25	153.02	152.24	152.27	152.26	152.64	152.67	152.96	152.33	152.20	152.20	152.22	
15	152.28	152.59	152.25	152.30	152.26	152.60	152.63	152.97	152.32	152.20	152.22	152.21	
16	152.21	152.50	152.30	152.35	152.26	152.59	152.64	152.94	152.31	152.19	152.25	152.26	
17	152.22	152.52	152.28	152.32	152.28	152.56	152.82	152.97	152.30	152.19	152.24	152.21	
18	152.21	152.51	152.31	152.31	152.34	152.59	152.90	152.95	152.30	152.19	152.58	152.20	
19	152.23	152.57	152.52	152.31	152.31	152.80	152.84	152.96	152.29	152.19	152.57	152.24	
20	152.30	152.66	152.33	152.32	152.28	153.08	152.75	152.86	152.28	152.20	152.36	152.23	
21	152.36	152.54	152.29	152.35	152.25	153.83	152.70	152.81	152.28	152.24	152.32	152.26	
22	152.44	152.53	152.26	152.35	152.25	153.56	153.12	152.76	152.28	152.21	152.30	152.35	
23	152.47	152.50	152.25	152.33	152.25	153.37	153.75	152.77	152.28	152.20	152.29	152.58	
24	152.32	152.49	152.25	152.33	152.25	153.30	153.38	152.85	152.27	152.20	152.28	152.55	
25	152.29	152.46	152.25	152.34	152.24	153.26	153.27	152.83	152.27	152.19	152.26	152.51	
26	152.27	152.47	152.24	152.33	152.24	153.34	153.21	152.79	152.27	152.18	152.26	152.41	
27	152.25	152.48	152.24	152.33	152.24	153.31	153.13	152.73	152.27	152.18	152.25	152.41	
28	152.34	152.53	152.23	152.33	152.24	153.22	153.08	152.66	152.26	152.18	152.24	152.40	
29	152.31	152.48	152.23	152.34	152.27	153.12	153.04	152.64	152.25	152.18		152.39	
30	152.28	152.47	152.21	152.32	152.31	153.09	152.95	152.62	152.25	152.17		152.38	
31		152.46		152.30	152.41		152.91		152.25	152.17		152.33	
Mean	152.24	152.51	152.30	152.28	152.27	152.87	152.96	153.01	152.34	152.20	152.26	152.30	
Max	152.47	153.02	152.52	152.35	152.41	153.83	153.75	154.83	152.59	152.24	152.58	152.58	154.83
Min	152.13	152.37	152.21	152.20	152.24	152.45	152.63	152.62	152.25	152.17	152.19	152.20	152.13
Annual Max Momentary Gage Height	155.71		m. (MSL.) ,										at 09.00 Hours , on Nov 9, 2021
Zero Gage at Bottom Elevation	152.00		m. (MSL.) ,			River Bed	151.54	m. (MSL.)					
Left Bank Elevation		159.08		m. (MSL.) ,									
Right Bank Elevation		159.07		m. (MSL.) ,		Drainage Are	375	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	3.12	3.24	1.00	1.63	4.44	11.82	8.94	4.68	1.28	1.00	1.28	
2	1.49	2.33	2.52	1.00	1.63	4.94	12.48	9.35	4.44	1.28	1.00	1.28	
3	0.82	5.48	3.00	1.00	1.56	4.32	12.48	10.58	4.44	1.21	1.00	1.21	
4	0.76	2.76	2.88	1.07	1.56	3.12	9.35	9.14	3.72	1.21	1.00	1.21	
5	0.76	2.19	2.12	1.00	1.63	3.48	6.96	8.73	2.52	1.21	1.07	1.21	
6	0.82	2.40	1.77	1.00	1.63	3.00	16.27	9.55	2.33	1.21	1.07	1.21	
7	0.82	2.76	1.63	1.07	1.56	3.24	10.99	9.76	2.19	1.14	1.00	1.21	
8	0.88	2.64	1.56	1.07	1.42	6.96	9.76	7.10	2.12	1.07	1.00	1.35	
9	0.82	2.76	1.63	1.07	1.35	8.32	9.14	98.50	2.05	1.07	1.00	1.28	
10	0.94	4.20	1.77	1.28	1.28	6.29	7.71	56.70	2.05	1.07	1.00	1.21	
11	0.88	3.72	1.70	1.77	1.42	5.75	6.96	30.02	2.05	1.07	0.94	1.21	
12	0.76	3.12	1.63	1.70	1.49	5.48	7.71	20.53	1.98	1.00	1.00	1.14	
13	0.76	2.64	1.49	1.49	1.42	5.34	6.83	10.78	1.91	1.07	1.00	1.14	
14	1.35	12.04	1.28	1.49	1.42	5.34	5.75	10.78	1.91	1.00	1.00	1.14	
15	1.56	4.68	1.35	1.70	1.42	4.80	5.21	10.99	1.84	1.00	1.14	1.07	
16	1.07	3.60	1.70	2.05	1.42	4.68	5.34	10.37	1.77	0.94	1.35	1.42	
17	1.14	3.84	1.56	1.84	1.56	4.32	7.91	10.99	1.70	0.94	1.28	1.07	
18	1.07	3.72	1.77	1.77	1.98	4.68	9.55	10.58	1.70	0.94	4.56	1.00	
19	1.21	4.44	3.84	1.77	1.77	7.50	8.32	10.78	1.63	0.94	4.44	1.28	
20	1.70	5.61	1.91	1.84	1.56	13.36	6.83	8.73	1.56	1.00	2.12	1.21	
21	2.12	4.08	1.63	2.05	1.35	34.80	6.15	7.71	1.56	1.28	1.84	1.42	
22	2.88	3.96	1.42	2.05	1.35	25.90	14.24	6.96	1.56	1.07	1.70	2.05	
23	3.24	3.60	1.35	1.91	1.35	20.53	31.92	7.10	1.56	1.00	1.63	4.56	
24	1.84	3.48	1.35	1.91	1.35	18.67	20.80	8.53	1.49	1.00	1.56	4.20	
25	1.63	3.12	1.35	1.98	1.28	17.60	17.87	8.12	1.49	0.94	1.42	3.72	
26	1.49	3.24	1.28	1.91	1.28	19.73	16.27	7.37	1.49	0.88	1.42	2.52	
27	1.35	3.36	1.28	1.91	1.28	18.93	14.46	6.56	1.49	0.88	1.35	2.52	
28	1.98	3.96	1.21	1.91	1.28	16.53	13.36	5.61	1.42	0.88	1.28	2.40	
29	1.77	3.36	1.21	1.98	1.49	14.24	12.48	5.34	1.35	0.88		2.33	
30	1.56	3.24	1.07	1.84	1.77	13.58	10.58	5.07	1.35	0.82		2.26	
31		3.12		1.70	2.52		9.76		1.35	0.82		1.91	
<b>Total</b>	<b>40.05</b>	<b>116.57</b>	<b>53.50</b>	<b>49.13</b>	<b>47.01</b>	<b>309.87</b>	<b>345.26</b>	<b>431.27</b>	<b>64.70</b>	<b>32.10</b>	<b>41.17</b>	<b>54.02</b>	<b>1584.65</b> CMSDAY
<b>Mean</b>	<b>1.34</b>	<b>3.76</b>	<b>1.78</b>	<b>1.58</b>	<b>1.52</b>	<b>10.33</b>	<b>11.14</b>	<b>14.38</b>	<b>2.09</b>	<b>1.04</b>	<b>1.47</b>	<b>1.74</b>	<b>4.34</b> CMS
<b>Max</b>	<b>3.24</b>	<b>12.04</b>	<b>3.84</b>	<b>2.05</b>	<b>2.52</b>	<b>34.80</b>	<b>31.92</b>	<b>98.50</b>	<b>4.68</b>	<b>1.28</b>	<b>4.56</b>	<b>4.56</b>	<b>98.50</b> CMS
<b>Min</b>	<b>0.58</b>	<b>2.19</b>	<b>1.07</b>	<b>1.00</b>	<b>1.28</b>	<b>3.00</b>	<b>5.21</b>	<b>5.07</b>	<b>1.35</b>	<b>0.82</b>	<b>0.94</b>	<b>1.00</b>	<b>0.58</b> CMS
<b>Runoff</b>	<b>3.46</b>	<b>10.07</b>	<b>4.62</b>	<b>4.24</b>	<b>4.06</b>	<b>26.77</b>	<b>29.83</b>	<b>37.26</b>	<b>5.59</b>	<b>2.77</b>	<b>3.56</b>	<b>4.67</b>	<b>136.91</b> MCM
<b>Momentary Peak</b>	<b>198.75 CMS. at 155.71 m. (MSL.) at 09.00 Hours , on Nov 9, 2021</b>												
<b>Runoff Yield</b>	<b>11.58 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>			<b>530.00 Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Mae Nam Lo at Ban Sai Yok , Kanchanaburi (K.30)

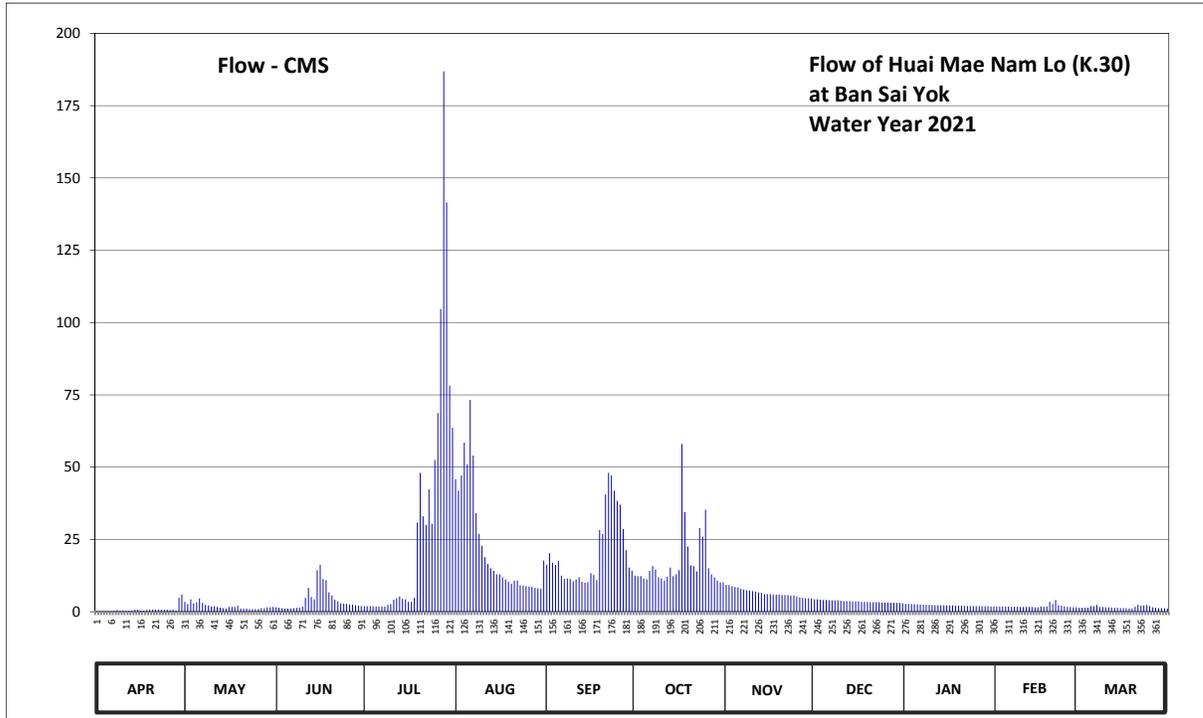
Lat 14 - 26 - 41 N Long 98 - 47 - 43 E

Location : on left bank about 1 kilometer downstream from station K.22A

	<b>Ban Sai Yok</b>	<b>Amphoe Sai Yok</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	467 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+68.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 30 meters from the top staff gage.	<b>Elevation</b>	+77.312 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.87	68.25	68.06	68.10	69.85	69.00	68.83	68.66	68.32	68.19	68.09	68.04	
2	67.87	68.19	68.04	68.10	69.76	69.16	68.82	68.65	68.32	68.19	68.09	68.04	
3	67.87	68.32	68.02	68.11	69.88	69.03	68.82	68.63	68.31	68.18	68.09	68.04	
4	67.87	68.21	68.01	68.10	70.11	69.00	68.78	68.61	68.30	68.18	68.09	68.05	
5	67.87	68.24	68.01	68.09	69.96	69.06	68.76	68.60	68.30	68.17	68.09	68.11	
6	67.86	68.34	68.01	68.09	70.38	68.83	68.91	68.57	68.29	68.17	68.08	68.10	
7	67.91	68.22	68.02	68.09	70.02	68.77	68.98	68.55	68.29	68.16	68.08	68.15	
8	67.94	68.15	68.04	68.09	69.58	68.78	68.93	68.54	68.29	68.16	68.08	68.07	
9	67.91	68.13	68.05	68.16	69.38	68.77	68.80	68.53	68.29	68.15	68.07	68.07	
10	67.93	68.09	68.09	68.18	69.25	68.73	68.78	68.52	68.28	68.15	68.07	68.06	
11	67.90	68.10	68.36	68.31	69.11	68.76	68.74	68.51	68.27	68.14	68.07	68.06	
12	67.90	68.07	68.59	68.35	69.01	68.80	68.81	68.49	68.27	68.14	68.07	68.05	
13	67.91	68.04	68.38	68.40	68.95	68.72	68.96	68.48	68.27	68.14	68.07	68.04	
14	67.96	68.02	68.32	68.33	68.91	68.70	68.82	68.45	68.26	68.14	68.06	68.04	
15	67.96	68.01	68.92	68.32	68.85	68.71	68.85	68.45	68.26	68.13	68.06	68.03	
16	67.91	68.07	69.00	68.25	68.85	68.87	68.92	68.45	68.26	68.13	68.09	68.03	
17	67.92	68.07	68.77	68.25	68.80	68.84	70.10	68.44	68.25	68.13	68.08	68.02	
18	67.94	68.07	68.75	68.36	68.76	68.75	69.59	68.44	68.25	68.12	68.09	68.01	
19	67.95	68.12	68.49	69.49	68.72	69.42	69.24	68.44	68.25	68.12	68.25	68.01	
20	67.96	68.01	68.42	69.90	68.68	69.38	68.99	68.43	68.24	68.12	68.18	68.08	
21	67.97	68.01	68.31	69.55	68.74	69.73	68.98	68.43	68.24	68.12	68.30	68.16	
22	67.97	68.01	68.26	69.47	68.74	69.90	68.90	68.43	68.24	68.11	68.14	68.12	
23	67.96	67.99	68.21	69.77	68.65	69.88	69.44	68.42	68.24	68.11	68.12	68.13	
24	67.96	67.99	68.20	69.48	68.64	69.76	69.35	68.42	68.23	68.11	68.09	68.15	
25	67.96	67.99	68.19	69.99	68.63	69.68	69.61	68.40	68.23	68.10	68.08	68.11	
26	67.94	68.00	68.17	70.30	68.62	69.65	68.95	68.37	68.23	68.10	68.07	68.06	
27	67.96	68.02	68.16	70.87	68.61	69.43	68.85	68.36	68.22	68.10	68.06	68.04	
28	67.92	68.02	68.14	71.79	68.59	69.20	68.80	68.35	68.22	68.10	68.06	68.03	
29	68.36	68.06	68.12	71.34	68.58	68.96	68.74	68.35	68.22	68.10		68.02	
30	68.44	68.06	68.11	70.46	68.57	68.91	68.71	68.34	68.22	68.09		68.02	
31		68.07		70.21	69.06		68.71		68.21	68.09		68.01	
Mean	67.96	68.09	68.27	69.04	69.10	69.11	68.98	68.48	68.26	68.13	68.10	68.06	
Max	68.44	68.34	69.00	71.79	70.38	69.90	70.10	68.66	68.32	68.19	68.30	68.16	71.79
Min	67.86	67.99	68.01	68.09	68.57	68.70	68.71	68.34	68.21	68.09	68.06	68.01	67.86
Annual Max Momentary Gage Height	72.03		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	68.00		m. (MSL.) ,				River Bed 67.38		m. (MSL.)				
Left Bank Elevation	76.05		m. (MSL.) ,										
Right Bank Elevation	79.85		m. (MSL.) ,				Drainage Are 467		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	3.43	1.54	1.90	45.80	16.25	12.50	9.36	4.30	2.71	1.81	1.36	
2	0.21	2.71	1.36	1.90	41.84	20.22	12.30	9.20	4.30	2.71	1.81	1.36	
3	0.21	4.30	1.18	1.99	47.12	16.96	12.30	8.88	4.18	2.62	1.81	1.36	
4	0.21	2.93	1.09	1.90	58.50	16.25	11.52	8.56	4.05	2.62	1.81	1.45	
5	0.21	3.30	1.09	1.81	51.00	17.66	11.14	8.40	4.05	2.53	1.81	1.99	
6	0.18	4.55	1.09	1.81	73.26	12.50	14.14	7.94	3.93	2.53	1.72	1.90	
7	0.37	3.05	1.18	1.81	54.00	11.33	15.78	7.63	3.93	2.44	1.72	2.35	
8	0.58	2.35	1.36	1.81	34.07	11.52	14.61	7.47	3.93	2.44	1.72	1.63	
9	0.37	2.17	1.45	2.44	26.88	11.33	11.90	7.32	3.93	2.35	1.63	1.63	
10	0.51	1.81	1.81	2.62	22.85	10.57	11.52	7.16	3.80	2.35	1.63	1.54	
11	0.30	1.90	4.80	4.18	18.87	11.14	10.76	7.01	3.68	2.26	1.63	1.54	
12	0.30	1.63	8.25	4.68	16.49	11.90	12.10	6.70	3.68	2.26	1.63	1.45	
13	0.37	1.36	5.05	5.30	15.08	10.38	15.31	6.54	3.68	2.26	1.63	1.36	
14	0.72	1.18	4.30	4.43	14.14	10.00	12.30	6.08	3.55	2.26	1.54	1.36	
15	0.72	1.09	14.37	4.30	12.90	10.19	12.90	6.08	3.55	2.17	1.54	1.27	
16	0.37	1.63	16.25	3.43	12.90	13.30	14.37	6.08	3.55	2.17	1.81	1.27	
17	0.44	1.63	11.33	3.43	11.90	12.70	58.00	5.92	3.43	2.17	1.72	1.18	
18	0.58	1.63	10.95	4.80	11.14	10.95	34.44	5.92	3.43	2.08	1.81	1.09	
19	0.65	2.08	6.70	30.79	10.38	28.23	22.54	5.92	3.43	2.08	3.43	1.09	
20	0.72	1.09	5.61	48.00	9.68	26.88	16.02	5.77	3.30	2.08	2.62	1.72	
21	0.79	1.09	4.18	32.98	10.76	40.52	15.78	5.77	3.30	2.08	4.05	2.44	
22	0.79	1.09	3.55	30.06	10.76	48.00	13.90	5.77	3.30	1.99	2.26	2.08	
23	0.72	0.93	2.93	42.28	9.20	47.12	28.96	5.61	3.30	1.99	2.08	2.17	
24	0.72	0.93	2.80	30.42	9.04	41.84	25.95	5.61	3.18	1.99	1.81	2.35	
25	0.72	0.93	2.71	52.50	8.88	38.32	35.24	5.30	3.18	1.90	1.72	1.99	
26	0.58	1.00	2.53	68.70	8.72	37.00	15.08	4.93	3.18	1.90	1.63	1.54	
27	0.72	1.18	2.44	104.66	8.56	28.60	12.90	4.80	3.05	1.90	1.54	1.36	
28	0.44	1.18	2.26	186.90	8.25	21.30	11.90	4.68	3.05	1.90	1.54	1.27	
29	4.80	1.54	2.08	141.56	8.09	15.31	10.76	4.68	3.05	1.90	1.18	1.18	
30	5.92	1.54	1.99	78.17	7.94	14.14	10.19	4.55	3.05	1.81	1.18	1.18	
31		1.63		63.57	17.66		10.19		2.93	1.81		1.09	
Total	24.43	58.86	128.23	965.13	696.66	622.41	527.30	195.64	110.25	68.26	53.46	48.55	3499.18 CMSDAY
Mean	0.81	1.90	4.27	31.13	22.47	20.75	17.01	6.52	3.56	2.20	1.91	1.57	9.59 CMS
Max	5.92	4.55	16.25	186.90	73.26	48.00	58.00	9.36	4.30	2.71	4.05	2.44	186.90 CMS
Min	0.18	0.93	1.09	1.81	7.94	10.00	10.19	4.55	2.93	1.81	1.54	1.09	0.18 CMS
Runoff	2.11	5.09	11.08	83.39	60.19	53.78	45.56	16.90	9.53	5.90	4.62	4.19	302.33 MCM
Momentary Peak	217.90 CMS. at 72.03 m. (MSL.) at 06.00 Hours , on Jul 28, 2021												
Runoff Yield	20.53 Liters/Second/Square KM.			Momentary Peak Yield			466.60 Liters/Second/Square KM.						

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)

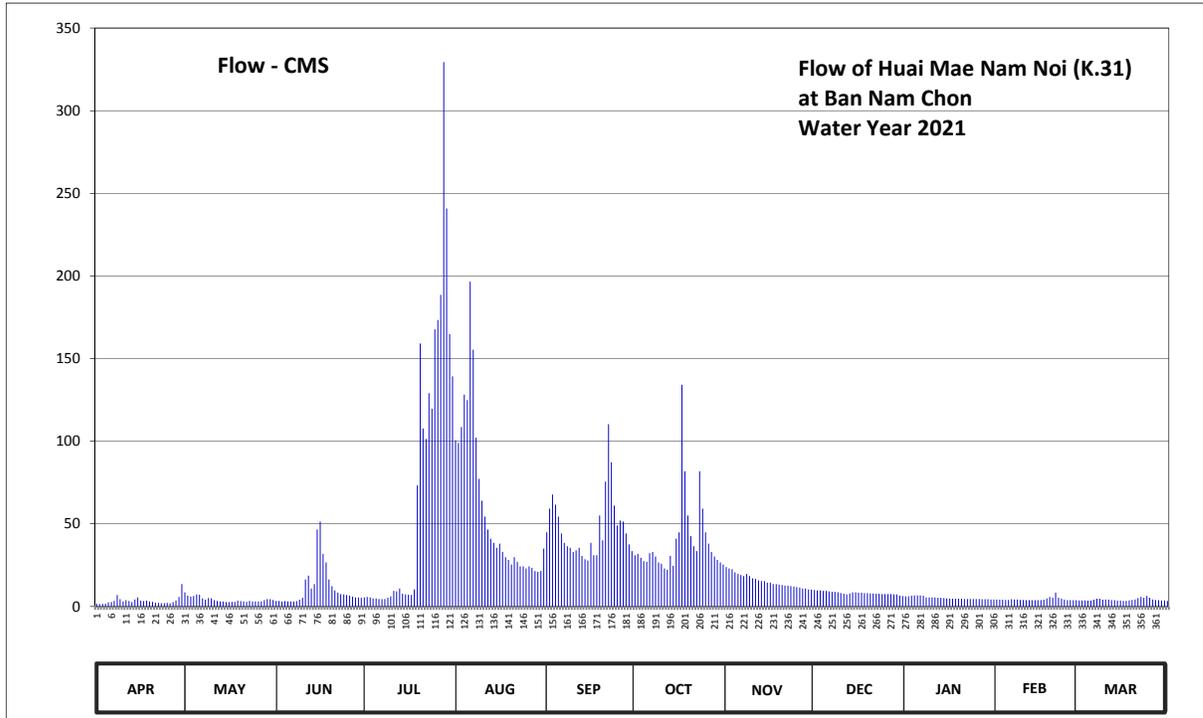
Lat 14 - 26 - 03 N Long 98 - 48 - 33 E

Location : on right bank about 2 kilometers downstream from station K.22A

	<b>Ban</b> Nam Chon	<b>Amphoe</b> Sai Yok	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	780 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+54.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 5 meters from the top staff gage.	<b>Elevation</b>	+70.630 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	57.20	57.60	57.32	57.45	59.33	58.53	58.25	58.07	57.65	57.48	57.38	57.34	
2	57.19	57.50	57.32	57.46	59.31	58.77	58.27	58.05	57.64	57.48	57.37	57.34	
3	57.20	57.47	57.29	57.45	59.43	58.91	58.21	58.04	57.64	57.50	57.37	57.34	
4	57.21	57.49	57.31	57.42	59.66	58.81	58.16	57.99	57.63	57.51	57.36	57.33	
5	57.26	57.54	57.30	57.42	59.62	58.69	58.15	57.96	57.63	57.51	57.36	57.33	
6	57.27	57.53	57.29	57.40	60.40	58.52	58.28	57.94	57.62	57.51	57.39	57.37	
7	57.32	57.42	57.29	57.39	59.97	58.41	58.30	57.92	57.61	57.50	57.38	57.41	
8	57.52	57.37	57.31	57.40	59.35	58.37	58.23	57.96	57.61	57.45	57.38	57.41	
9	57.39	57.43	57.37	57.44	59.03	58.35	58.14	57.92	57.60	57.45	57.36	57.37	
10	57.30	57.42	57.44	57.48	58.85	58.30	58.12	57.88	57.58	57.45	57.36	57.38	
11	57.35	57.35	57.86	57.63	58.69	58.32	58.05	57.87	57.56	57.45	57.35	57.37	
12	57.32	57.32	57.93	57.62	58.56	58.35	58.03	57.84	57.54	57.44	57.35	57.35	
13	57.27	57.29	57.68	57.68	58.46	58.24	58.24	57.83	57.57	57.44	57.35	57.35	
14	57.38	57.29	57.77	57.56	58.41	58.19	58.09	57.83	57.60	57.43	57.35	57.33	
15	57.45	57.27	58.56	57.54	58.35	58.17	58.46	57.80	57.60	57.42	57.35	57.33	
16	57.33	57.27	58.64	57.53	58.40	58.41	58.53	57.80	57.59	57.41	57.35	57.32	
17	57.31	57.28	58.27	57.52	58.30	58.25	59.73	57.77	57.59	57.41	57.37	57.32	
18	57.33	57.28	58.14	57.66	58.22	58.25	59.09	57.77	57.58	57.41	57.42	57.34	
19	57.30	57.33	57.86	58.98	58.18	58.70	58.70	57.76	57.58	57.41	57.46	57.36	
20	57.28	57.31	57.73	60.01	58.11	58.44	58.49	57.75	57.57	57.41	57.44	57.38	
21	57.25	57.30	57.64	59.42	58.22	59.01	58.37	57.74	57.57	57.40	57.59	57.43	
22	57.24	57.28	57.59	59.34	58.15	59.45	58.31	57.74	57.56	57.40	57.44	57.46	
23	57.23	57.32	57.55	59.67	58.08	59.16	59.09	57.73	57.56	57.40	57.41	57.44	
24	57.23	57.30	57.54	59.56	58.08	58.80	58.77	57.72	57.55	57.40	57.37	57.49	
25	57.24	57.30	57.52	60.10	58.05	58.60	58.53	57.71	57.55	57.40	57.35	57.44	
26	57.22	57.30	57.50	60.16	58.08	58.65	58.40	57.70	57.55	57.40	57.35	57.38	
27	57.27	57.30	57.47	60.32	58.06	58.64	58.30	57.68	57.55	57.39	57.35	57.36	
28	57.34	57.35	57.45	61.53	58.01	58.52	58.23	57.68	57.54	57.39	57.35	57.35	
29	57.46	57.39	57.45	60.82	58.00	58.39	58.18	57.66	57.54	57.39		57.34	
30	57.77	57.39	57.44	60.07	58.01	58.31	58.14	57.66	57.50	57.38		57.34	
31		57.36		59.79	58.34		58.11		57.49	57.38		57.32	
Mean	57.31	57.37	57.63	58.54	58.64	58.55	58.39	57.83	57.58	57.43	57.38	57.37	
Max	57.77	57.60	58.64	61.53	60.40	59.45	59.73	58.07	57.65	57.51	57.59	57.49	61.53
Min	57.19	57.27	57.29	57.39	58.00	58.17	58.03	57.66	57.49	57.38	57.35	57.32	57.19
Annual Max Momentary Gage Height	62.25		m. (MSL.) ,				at 05.00 Hours ,						
Zero Gage at Bottom Elevation	54.20		m. (MSL.) ,			River Bed	56.40	m. (MSL.)					
Left Bank Elevation	68.99		m. (MSL.) ,										
Right Bank Elevation	69.23		m. (MSL.) ,		Drainage Are	780	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	8.50	3.34	5.50	100.54	44.80	31.00	23.80	9.98	6.10	4.21	3.63		
2	1.52	6.50	3.34	5.70	98.98	59.20	31.80	23.00	9.68	6.10	4.07	3.63		
3	1.60	5.90	2.91	5.50	108.56	67.78	29.40	22.60	9.68	6.50	4.07	3.63		
4	1.75	6.30	3.20	4.90	128.20	61.60	27.40	20.67	9.39	6.70	3.92	3.49		
5	2.47	7.30	3.05	4.90	124.79	54.40	27.00	19.68	9.39	6.70	3.92	3.49		
6	2.62	7.10	2.91	4.50	196.60	44.20	32.20	19.02	9.09	6.70	4.36	4.07		
7	3.34	4.90	2.91	4.36	155.33	38.50	33.00	18.36	8.80	6.50	4.21	4.70		
8	6.90	4.07	3.20	4.50	102.10	36.50	30.20	19.68	8.80	5.50	4.21	4.70		
9	4.36	5.10	4.07	5.30	77.14	35.50	26.60	18.36	8.50	5.50	3.92	4.07		
10	3.05	4.90	5.30	6.10	64.00	33.00	25.80	17.04	8.10	5.50	3.92	4.21		
11	3.78	3.78	16.38	9.39	54.40	34.00	23.00	16.71	7.70	5.50	3.78	4.07		
12	3.34	3.34	18.69	9.09	46.60	35.50	22.20	15.72	7.30	5.30	3.78	3.78		
13	2.62	2.91	10.86	10.86	41.00	30.60	30.60	15.39	7.90	5.30	3.78	3.78		
14	4.21	2.91	13.52	7.70	38.50	28.60	24.60	15.39	8.50	5.10	3.78	3.49		
15	5.50	2.62	46.60	7.30	35.50	27.80	41.00	14.40	8.50	4.90	3.78	3.49		
16	3.49	2.62	51.40	7.10	38.00	38.50	44.80	14.40	8.30	4.70	3.78	3.34		
17	3.20	2.76	31.80	6.90	33.00	31.00	134.18	13.52	8.30	4.70	4.07	3.34		
18	3.49	2.76	26.60	10.27	29.80	31.00	81.82	13.52	8.10	4.70	4.90	3.63		
19	3.05	3.49	16.38	73.24	28.20	55.00	55.00	13.22	8.10	4.70	5.70	3.92		
20	2.76	3.20	12.34	159.12	25.40	40.00	42.50	12.93	7.90	4.70	5.30	4.21		
21	2.33	3.05	9.68	107.71	29.80	75.58	36.50	12.63	7.90	4.50	8.30	5.10		
22	2.18	2.76	8.30	101.32	27.00	110.27	33.50	12.63	7.70	4.50	5.30	5.70		
23	2.04	3.34	7.50	129.06	24.20	87.28	81.82	12.34	7.70	4.50	4.70	5.30		
24	2.04	3.05	7.30	119.66	24.20	61.00	59.20	12.04	7.50	4.50	4.07	6.30		
25	2.18	3.05	6.90	167.65	23.00	49.00	44.80	11.75	7.50	4.50	3.78	5.30		
26	1.89	3.05	6.50	173.34	24.20	52.00	38.00	11.45	7.50	4.50	3.78	4.21		
27	2.62	3.05	5.90	188.60	23.40	51.40	33.00	10.86	7.50	4.36	3.78	3.92		
28	3.63	3.78	5.50	329.41	21.40	44.20	30.20	10.86	7.30	4.36	3.78	3.78		
29	5.70	4.36	5.50	240.80	21.00	37.50	28.20	10.27	7.30	4.36		3.63		
30	13.52	4.36	5.30	164.81	21.40	33.50	26.60	10.27	6.50	4.21		3.63		
31		3.92		139.31	35.00		25.40		6.30	4.21		3.34		
<b>Total</b>	<b>102.78</b>	<b>128.73</b>	<b>347.18</b>	<b>2213.90</b>	<b>1801.24</b>	<b>1429.21</b>	<b>1231.32</b>	<b>462.51</b>	<b>252.71</b>	<b>159.90</b>	<b>120.95</b>	<b>126.88</b>	<b>8377.31</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>3.43</b>	<b>4.15</b>	<b>11.57</b>	<b>71.42</b>	<b>58.10</b>	<b>47.64</b>	<b>39.72</b>	<b>15.42</b>	<b>8.15</b>	<b>5.16</b>	<b>4.32</b>	<b>4.09</b>	<b>22.95</b>	<b>CMS</b>
<b>Max</b>	<b>13.52</b>	<b>8.50</b>	<b>51.40</b>	<b>329.41</b>	<b>196.60</b>	<b>110.27</b>	<b>134.18</b>	<b>23.80</b>	<b>9.98</b>	<b>6.70</b>	<b>8.30</b>	<b>6.30</b>	<b>329.41</b>	<b>CMS</b>
<b>Min</b>	<b>1.52</b>	<b>2.62</b>	<b>2.91</b>	<b>4.36</b>	<b>21.00</b>	<b>27.80</b>	<b>22.20</b>	<b>10.27</b>	<b>6.30</b>	<b>4.21</b>	<b>3.78</b>	<b>3.34</b>	<b>1.52</b>	<b>CMS</b>
<b>Runoff</b>	<b>8.88</b>	<b>11.12</b>	<b>30.00</b>	<b>191.28</b>	<b>155.63</b>	<b>123.48</b>	<b>106.39</b>	<b>39.96</b>	<b>21.83</b>	<b>13.82</b>	<b>10.45</b>	<b>10.96</b>	<b>723.80</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>431.00</b>	<b>CMS</b>	<b>at 62.25 m. (MSL.)</b>	<b>on Jul 28, 2021</b>										
<b>Runoff Yield</b>	<b>29.43</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>552.56</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)

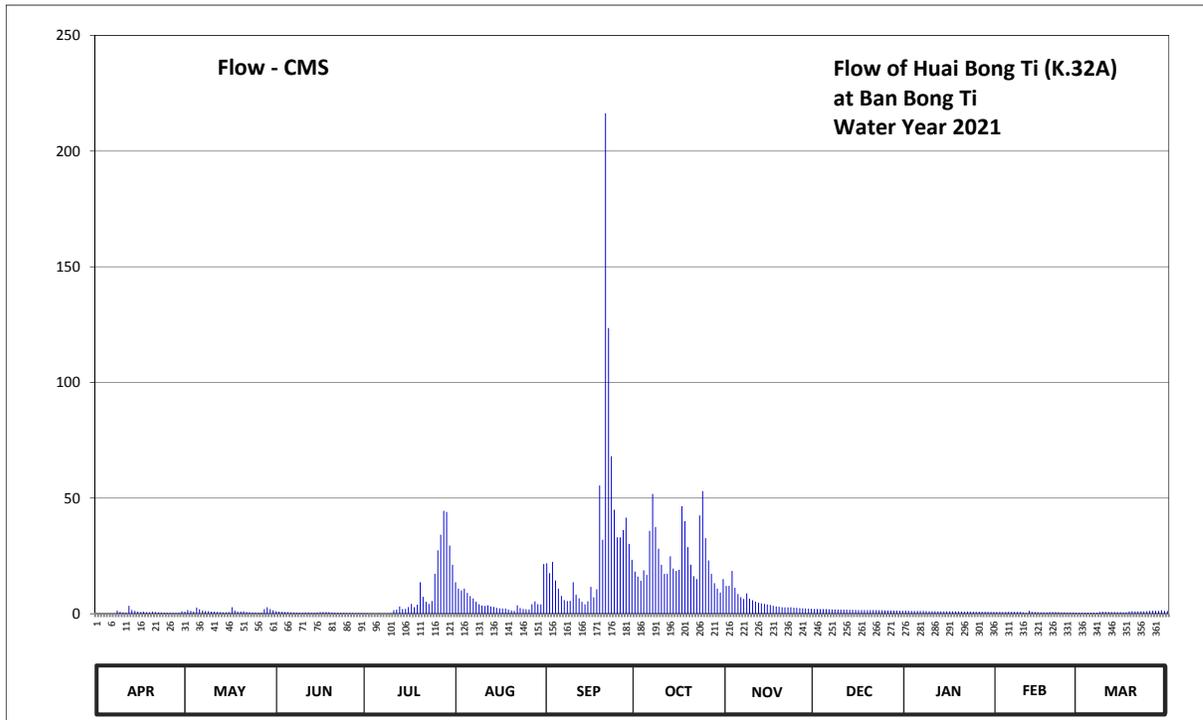
Lat 14 - 16 - 34 N Long 98 - 55 - 52 E

Location : on right bank at Ban Bong Ti.

	<b>Ban</b>	<b>Bong Ti</b>	<b>Amphoe</b>	<b>Sai Yok</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	520	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+84.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 6.50 meters from the top staff gage.				<b>Elevation</b>	+90.239 m. (MSL.)
<b>Gage Reading Frequency</b>	16-time daily readings at 03.00, 06.00 - 18.00, 21.00 and 24.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 16 readings					
<b>Period of Available Gage Records</b>	1984 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.70	84.99	85.04	84.78	86.33	86.66	86.53	86.25	85.23	85.09	84.97	84.86	
2	84.69	85.14	85.00	84.76	86.19	86.50	86.44	86.25	85.23	85.08	84.97	84.86	
3	84.69	85.06	84.97	84.75	86.14	86.68	86.36	86.54	85.22	85.07	84.96	84.85	
4	84.69	85.01	84.94	84.74	86.19	86.37	86.55	86.21	85.22	85.07	84.97	84.85	
5	84.69	85.34	84.92	84.73	86.06	86.19	86.47	86.03	85.21	85.07	84.97	84.85	
6	84.69	85.20	84.90	84.76	85.95	85.96	87.07	85.90	85.20	85.07	84.97	84.85	
7	84.69	85.10	84.88	84.74	85.84	85.77	87.38	85.82	85.19	85.06	84.97	84.85	
8	85.10	85.05	84.87	84.74	85.69	85.72	87.11	86.05	85.19	85.05	84.97	84.94	
9	84.97	85.04	84.86	84.75	85.56	85.73	86.86	85.83	85.18	85.04	84.96	84.97	
10	84.91	85.00	84.86	84.77	85.48	86.33	86.64	85.76	85.17	85.04	84.91	84.97	
11	84.87	85.00	84.88	85.12	85.45	86.01	86.49	85.69	85.17	85.04	84.82	84.96	
12	85.46	84.96	84.88	85.17	85.49	85.85	86.49	85.64	85.17	85.03	85.07	84.95	
13	85.13	84.93	84.87	85.42	85.42	85.68	86.76	85.61	85.16	85.03	84.98	84.95	
14	85.06	84.90	84.86	85.22	85.39	85.55	86.58	85.58	85.16	85.03	84.95	84.93	
15	85.01	84.91	84.89	85.24	85.31	85.71	86.54	85.54	85.15	85.03	84.93	84.92	
16	84.96	84.93	84.93	85.38	85.28	86.23	86.59	85.51	85.14	85.03	84.91	84.91	
17	85.00	85.37	84.95	85.58	85.27	85.89	87.46	85.46	85.14	85.03	84.91	84.91	
18	84.93	85.09	84.94	85.36	85.26	86.17	87.33	85.42	85.13	85.03	84.91	85.01	
19	84.91	85.00	84.92	85.53	85.17	87.44	87.05	85.40	85.13	85.02	84.94	85.04	
20	84.99	85.01	84.89	86.33	85.11	86.97	86.81	85.36	85.13	85.01	84.96	85.03	
21	84.94	85.02	84.87	85.91	85.07	88.89	86.62	85.35	85.13	85.00	84.94	85.02	
22	84.90	84.96	84.85	85.68	85.49	88.22	86.57	85.35	85.13	85.01	84.93	85.02	
23	84.88	84.92	84.84	85.57	85.30	87.63	87.38	85.37	85.12	85.01	84.91	85.03	
24	84.86	84.89	84.83	85.72	85.23	87.26	87.57	85.33	85.12	85.00	84.90	85.04	
25	84.84	84.88	84.82	86.49	85.20	87.00	87.16	85.31	85.11	85.00	84.89	85.06	
26	84.84	84.86	84.81	86.84	85.19	87.00	86.87	85.29	85.10	85.00	84.88	85.08	
27	84.83	84.85	84.81	87.03	85.56	87.08	86.66	85.28	85.10	84.99	84.88	85.06	
28	84.82	85.21	84.80	87.25	85.71	87.19	86.48	85.27	85.09	84.99	84.87	85.07	
29	84.84	85.37	84.79	87.24	85.56	86.92	86.36	85.25	85.09	84.98		85.12	
30	85.03	85.22	84.79	86.90	85.55	86.71	86.24	85.24	85.08	84.98		85.07	
31		85.12		86.64	86.65		86.55		85.08	84.97		85.05	
Mean	84.90	85.04	84.88	85.59	85.58	86.58	86.77	85.63	85.15	85.03	84.94	84.97	
Max	85.46	85.37	85.04	87.25	86.65	88.89	87.57	86.54	85.23	85.09	85.07	85.12	88.89
Min	84.69	84.85	84.79	84.73	85.07	85.55	86.24	85.24	85.08	84.97	84.82	84.85	84.69
Annual Max Momentary Gage Height	89.77		m. (MSL.) ,				at 06.00 Hours ,	on Sep 21, 2021					
Zero Gage at Bottom Elevation	84.20		m. (MSL.) ,			River Bed	84.86	m. (MSL.)					
Left Bank Elevation		90.29		m. (MSL.) ,									
Right Bank Elevation		90.17		m. (MSL.) ,		Drainage Are	520	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.87	1.10	0.24	13.60	21.80	18.25	12.00	2.07	1.35	0.81	0.48	
2	0.00	1.60	0.90	0.18	10.86	17.50	16.00	12.00	2.07	1.30	0.81	0.48	
3	0.00	1.20	0.81	0.15	10.13	22.40	14.20	18.50	2.01	1.25	0.78	0.45	
4	0.00	0.95	0.72	0.12	10.86	14.40	18.75	11.20	2.01	1.25	0.81	0.45	
5	0.00	2.67	0.66	0.09	8.97	10.86	16.75	8.54	1.96	1.25	0.81	0.45	
6	0.00	1.90	0.60	0.18	7.63	7.72	35.80	7.15	1.90	1.25	0.81	0.45	
7	0.00	1.40	0.54	0.12	6.58	5.93	51.80	6.39	1.85	1.20	0.81	0.45	
8	1.40	1.15	0.51	0.12	5.21	5.48	37.50	8.83	1.85	1.15	0.81	0.72	
9	0.81	1.10	0.48	0.15	4.12	5.57	28.10	6.49	1.80	1.10	0.78	0.81	
10	0.63	0.90	0.48	0.21	3.56	13.60	21.20	5.84	1.75	1.10	0.63	0.81	
11	0.51	0.90	0.54	1.50	3.35	8.25	17.25	5.21	1.75	1.10	0.36	0.78	
12	3.42	0.78	0.54	1.75	3.63	6.68	17.25	4.76	1.75	1.05	1.25	0.75	
13	1.55	0.69	0.51	3.14	3.14	5.12	24.80	4.49	1.70	1.05	0.84	0.75	
14	1.20	0.60	0.48	2.01	2.95	4.05	19.50	4.26	1.70	1.05	0.75	0.69	
15	0.95	0.63	0.57	2.12	2.51	5.39	18.50	3.98	1.65	1.05	0.69	0.66	
16	0.78	0.69	0.69	2.89	2.34	11.60	19.00	3.77	1.60	1.05	0.63	0.63	
17	0.90	2.84	0.75	4.26	2.29	7.06	46.50	3.42	1.60	1.05	0.63	0.63	
18	0.69	1.35	0.72	2.78	2.23	10.57	40.00	3.14	1.55	1.05	0.63	0.95	
19	0.63	0.90	0.66	3.91	1.75	55.40	28.80	3.00	1.55	1.00	0.72	1.10	
20	0.87	0.95	0.57	13.60	1.45	31.95	21.20	2.78	1.55	0.95	0.78	1.05	
21	0.72	1.00	0.51	7.25	1.25	216.31	16.25	2.73	1.55	0.90	0.72	1.00	
22	0.60	0.78	0.45	5.12	3.63	123.50	15.00	2.73	1.55	0.95	0.69	1.00	
23	0.54	0.66	0.42	4.19	2.45	68.04	42.50	2.84	1.50	0.95	0.63	1.05	
24	0.48	0.57	0.39	5.48	2.07	45.00	53.00	2.62	1.50	0.90	0.60	1.10	
25	0.42	0.54	0.36	17.25	1.90	33.00	32.65	2.51	1.45	0.90	0.57	1.20	
26	0.42	0.48	0.33	27.40	1.85	33.00	23.00	2.40	1.40	0.90	0.54	1.30	
27	0.39	0.45	0.33	34.20	4.12	36.20	17.25	2.34	1.40	0.87	0.54	1.20	
28	0.36	1.96	0.30	44.50	5.39	41.50	13.20	2.29	1.35	0.87	0.51	1.25	
29	0.42	2.84	0.27	44.00	4.12	30.20	10.86	2.18	1.35	0.84		1.50	
30	1.05	2.01	0.27	29.50	4.05	23.30	9.12	2.12	1.30	0.84		1.25	
31		1.50		21.20	21.50		15.00		1.30	0.81		1.15	
Total	19.74	36.86	16.46	279.61	159.49	921.38	758.98	160.51	51.32	32.33	19.94	26.54	2483.16 CMSDAY
Mean	0.66	1.19	0.55	9.02	5.14	30.71	24.48	5.35	1.66	1.04	0.71	0.86	6.80 CMS
Max	3.42	2.84	1.10	44.50	21.50	216.31	53.00	18.50	2.07	1.35	1.25	1.50	216.31 CMS
Min	0.00	0.45	0.27	0.09	1.25	4.05	9.12	2.12	1.30	0.81	0.36	0.45	0.00 CMS
Runoff	1.71	3.18	1.42	24.16	13.78	79.61	65.58	13.87	4.43	2.79	1.72	2.29	214.55 MCM
Momentary Peak	404.85 CMS. at 89.77 m. (MSL.) at 06.00 Hours , on Sep 21, 2021												
Runoff Yield	13.08 Liters/Second/Square KM.			Momentary Peak Yield				778.56 Liters/Second/Square KM.					

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Khwae Yai River at Ban Nong Bua , Kanchanaburi (K.35A)

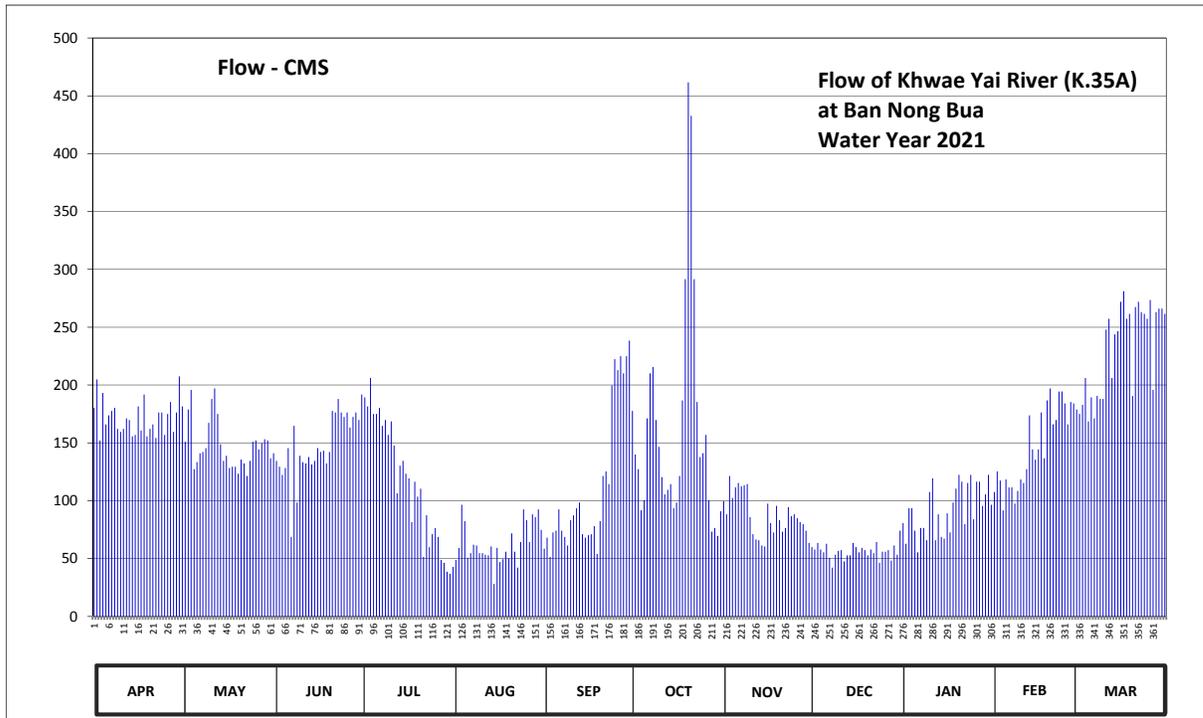
Lat 14 - 03 - 31 N Long 99 - 26 - 43 E

Location : on left bank at Ban Nong Bua.

	<b>Ban Nong Bua</b>	<b>Amphoe Mueang</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	14,458 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+21.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 3 meters from the third staff gage.	<b>Elevation</b>	+26.975 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 - 1985 , 1987 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1984 - 1985 , 1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 31 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.30	25.31	24.98	25.39	23.82	24.07	25.28	24.57	24.09	24.36	24.65	25.29	
2	25.49	25.07	24.92	25.37	23.92	24.20	24.97	24.45	24.06	24.13	24.83	25.26	
3	25.08	25.29	24.87	25.31	24.08	23.96	24.85	24.79	24.14	24.51	24.75	25.32	
4	25.40	25.42	24.80	25.50	24.54	24.26	24.49	24.60	24.06	24.51	24.49	25.50	
5	25.19	24.85	24.86	25.26	24.38	24.28	24.58	24.69	24.02	24.28	24.76	25.21	
6	25.25	24.91	25.02	25.26	23.95	24.50	25.23	24.73	24.13	24.02	24.69	25.37	
7	25.28	24.98	24.21	25.30	24.01	24.28	25.53	24.70	23.95	24.31	24.69	25.23	
8	25.30	24.99	25.18	25.18	24.12	24.21	25.57	24.71	23.81	24.31	24.55	25.38	
9	25.16	25.02	24.56	25.22	24.11	24.11	25.22	24.72	23.99	24.17	24.66	25.36	
10	25.14	25.20	24.96	25.12	24.01	24.39	25.03	24.42	24.04	24.65	24.76	25.36	
11	25.16	25.36	24.91	25.21	24.01	24.44	24.78	24.24	24.05	24.77	24.73	25.81	
12	25.23	25.43	24.90	25.04	23.99	24.51	24.63	24.18	23.90	24.17	24.85	25.88	
13	25.22	25.26	24.95	24.64	23.98	24.56	24.67	24.17	23.98	24.45	25.25	25.50	
14	25.11	25.05	24.89	24.88	24.10	24.24	24.72	24.11	23.98	24.21	25.01	25.78	
15	25.12	24.92	24.92	24.92	23.55	24.20	24.51	24.10	24.14	24.19	24.93	25.80	
16	25.31	24.96	25.02	24.81	24.08	24.23	24.56	24.55	24.09	24.46	25.01	25.98	
17	25.15	24.86	24.99	24.77	23.89	24.24	24.79	24.36	24.02	24.26	25.27	26.04	
18	25.39	24.87	25.00	24.37	23.93	24.33	25.35	24.26	24.08	24.56	24.94	25.88	
19	25.11	24.87	24.90	24.74	24.03	24.00	26.11	24.53	24.05	24.68	25.35	25.91	
20	25.16	24.81	24.99	24.61	23.94	24.38	27.12	24.39	23.98	24.80	25.43	25.38	
21	25.19	24.93	25.28	24.68	24.25	24.79	26.96	24.27	24.06	24.74	25.19	25.95	
22	25.10	24.90	25.27	23.96	24.03	24.83	26.11	24.31	24.01	24.35	25.22	25.98	
23	25.27	24.79	25.36	24.44	23.81	24.72	25.34	24.52	24.15	24.73	25.41	25.92	
24	25.27	24.92	25.27	24.09	24.15	25.45	24.95	24.43	23.88	24.80	25.41	25.91	
25	25.12	25.07	25.24	24.24	24.50	25.62	24.98	24.45	24.03	24.40	25.33	25.88	
26	25.26	25.08	25.27	24.31	24.39	25.55	25.12	24.41	24.03	24.74	25.19	25.99	
27	25.34	25.01	25.17	24.21	24.15	25.64	24.58	24.37	24.05	24.74	25.34	25.42	
28	25.14	25.06	25.24	23.92	24.45	25.53	24.27	24.35	23.91	24.53	25.33	25.92	
29	25.27	25.09	25.27	23.88	24.42	25.64	24.31	24.28	24.11	24.63		25.94	
30	25.51	25.08	25.22	23.75	24.50	25.74	24.22	24.14	23.99	24.80		25.94	
31		24.94		23.72	24.29		24.48		24.28	24.54		25.91	
Mean	25.23	25.04	25.01	24.71	24.11	24.63	25.07	24.43	24.03	24.48	25.00	25.68	
Max	25.51	25.43	25.36	25.50	24.54	25.74	27.12	24.79	24.28	24.80	25.43	26.04	27.12
Min	25.08	24.79	24.21	23.72	23.55	23.96	24.22	24.10	23.81	24.02	24.49	25.21	23.55
Annual Max Momentary Gage Height	27.24		m. (MSL.) ,				at 19.00 Hours ,						
Zero Gage at Bottom Elevation	21.50		m. (MSL.) ,				River Bed	22.40		m. (MSL.)			
Left Bank Elevation		31.13		m. (MSL.) ,									
Right Bank Elevation		30.84		m. (MSL.) ,		Drainage Are	14,458		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	180.20	181.50	141.10	191.86	42.74	58.55	177.61	99.47	59.85	80.60	107.43	178.91		
2	204.81	151.00	134.50	189.27	48.80	68.00	140.00	88.25	57.90	62.75	125.34	175.02		
3	152.10	178.91	129.32	181.50	59.20	51.40	127.33	121.36	63.50	93.50	117.38	182.79		
4	193.15	195.74	122.35	206.10	96.48	72.50	91.65	102.45	57.90	93.50	91.65	206.10		
5	165.96	127.33	128.32	175.02	82.30	74.00	100.46	111.41	55.30	74.00	118.37	168.55		
6	173.73	133.40	145.50	175.02	50.75	92.50	171.14	115.39	62.75	55.30	111.41	189.27		
7	177.61	141.10	68.75	180.20	54.65	74.00	210.14	112.40	50.75	76.35	111.41	171.14		
8	180.20	142.20	164.66	164.66	62.00	68.75	215.53	113.40	42.15	76.35	97.48	190.56		
9	162.07	145.50	98.47	169.84	61.25	61.25	169.84	114.39	53.35	65.75	108.42	187.97		
10	159.48	167.25	138.90	156.89	54.65	83.15	146.60	85.70	56.60	107.43	118.37	187.97		
11	162.07	187.97	133.40	168.55	54.65	87.40	120.36	71.00	57.25	119.37	115.39	247.87		
12	171.14	197.04	132.30	147.70	53.35	93.50	105.44	66.50	47.50	65.75	127.33	257.31		
13	169.84	175.02	137.80	106.43	52.70	98.47	109.42	65.75	52.70	88.25	173.73	206.10		
14	155.60	148.80	131.31	130.31	60.50	71.00	114.39	61.25	52.70	68.75	144.40	243.83		
15	156.89	134.50	134.50	134.50	28.05	68.00	93.50	60.50	63.50	67.25	135.60	246.53		
16	181.50	138.90	145.50	123.35	59.20	70.25	98.47	97.48	59.85	89.10	144.40	272.00		
17	160.78	128.32	142.20	119.37	46.91	71.00	121.36	80.60	55.30	72.50	176.32	281.00		
18	191.86	129.32	143.30	81.45	49.45	78.05	186.68	72.50	59.20	98.47	136.70	257.31		
19	155.60	129.32	132.30	116.38	55.95	54.00	291.50	95.49	57.25	110.41	186.68	261.50		
20	162.07	123.35	142.20	103.45	50.10	82.30	461.60	83.15	52.70	122.35	197.04	190.56		
21	165.96	135.60	177.61	110.41	71.75	121.36	432.80	73.25	57.90	116.38	165.96	267.50		
22	154.30	132.30	176.32	51.40	55.95	125.34	291.50	76.35	54.65	79.75	169.84	272.00		
23	176.32	121.36	187.97	87.40	42.15	114.39	185.38	94.49	64.25	115.39	194.45	263.00		
24	176.32	134.50	176.32	59.85	64.25	199.63	137.80	86.55	46.31	122.35	194.45	261.50		
25	156.89	151.00	172.43	71.00	92.50	222.27	141.10	88.25	55.95	84.00	184.09	257.31		
26	175.02	152.10	176.32	76.35	83.15	212.84	156.89	84.85	55.95	116.38	165.96	273.50		
27	185.38	144.40	163.37	68.75	64.25	224.97	100.46	81.45	57.25	116.38	185.38	195.74		
28	159.48	149.90	172.43	48.80	88.25	210.14	73.25	79.75	48.15	95.49	184.09	263.00		
29	176.32	153.20	176.32	46.31	85.70	224.97	76.35	74.00	61.25	105.44		266.00		
30	207.45	152.10	169.84	38.58	92.50	238.44	69.50	63.50	53.35	122.35		266.00		
31		136.7		36.79	74.75		90.80		74.00	96.48		261.50		
Total	5150.10	4619.63	4395.61	3717.49	1938.88	3372.42	5008.85	2620.88	1747.01	2858.12	4089.07	7149.34	46667.40	CMSDAY
Mean	171.67	149.02	146.52	119.92	62.54	112.41	161.58	87.36	56.36	92.20	146.04	230.62	127.86	CMS
Max	207.45	197.04	187.97	206.10	96.48	238.44	461.60	121.36	74.00	122.35	197.04	281.00	461.60	CMS
Min	152.10	121.36	68.75	36.79	28.05	51.40	69.50	60.50	42.15	55.30	91.65	168.55	28.05	CMS
Runoff	444.97	399.14	379.78	321.19	167.52	291.38	432.76	226.44	150.94	246.94	353.30	617.70	4032.06	MCM
Momentary Peak	483.20 CMS. at 27.24 m. (MSL.) at 19.00 Hours , on Oct 20, 2021													
Runoff Yield	8.84 Liters/Second/Square KM.			Momentary Peak Yield			33.42 Liters/Second/Square KM.							

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Khwae Noi River at Ban Wang Yen , Kanchanaburi (K.37)

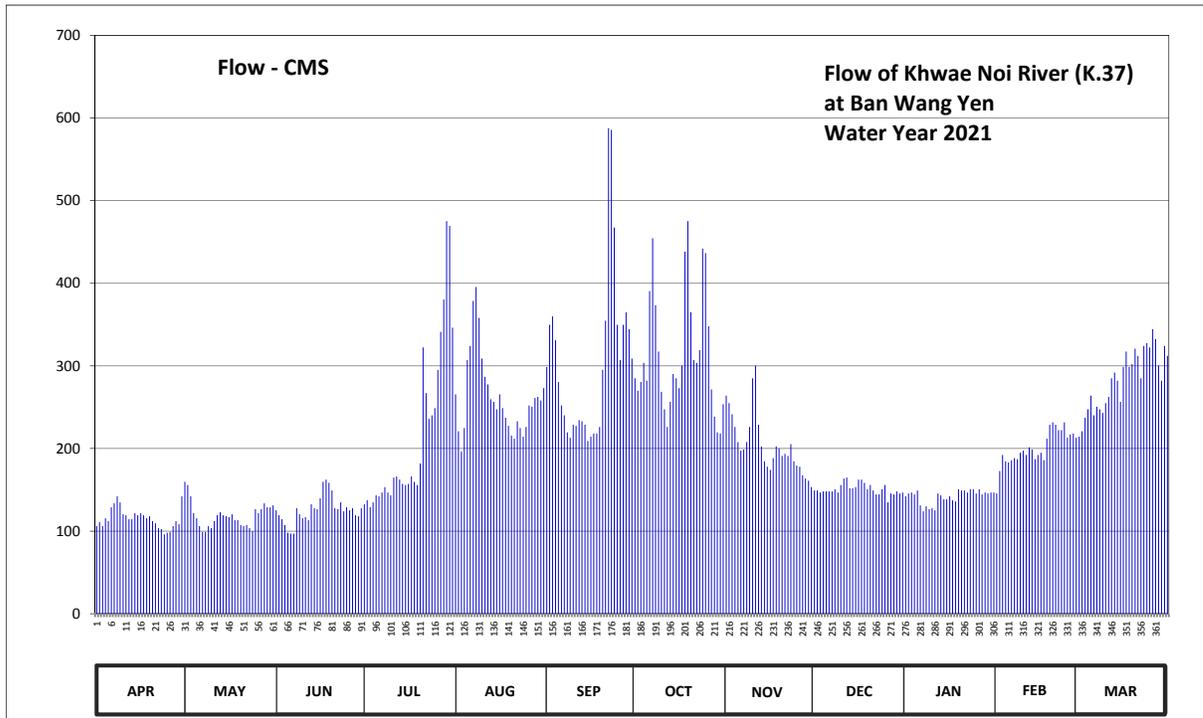
Lat 13 - 56 - 24 N Long 99 - 24 - 58 E

Location : on left bank at Ban Wang Yen.

	<b>Ban</b>	<b>Wang Yen</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	10,659	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+19.800	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 5 meters from the automatic gage building.				<b>Elevation</b>	+29.237 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.					
<b>Period of Available Gage Records</b>	1984 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 29 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.25	23.69	23.41	23.47	24.47	24.68	24.60	24.46	23.61	23.55	23.58	24.11	
2	23.29	23.66	23.36	23.51	24.16	24.98	24.50	24.40	23.61	23.58	23.79	24.16	
3	23.25	23.55	23.32	23.44	23.97	25.04	24.57	24.31	23.59	23.59	23.94	24.28	
4	23.33	23.38	23.26	23.49	24.19	24.87	24.71	24.20	23.60	23.57	23.88	24.35	
5	23.30	23.33	23.18	23.56	24.73	24.57	24.58	24.06	23.60	23.61	23.87	24.46	
6	23.44	23.25	23.17	23.55	24.83	24.38	25.22	23.98	23.60	23.46	23.89	24.30	
7	23.48	23.19	23.17	23.59	25.15	24.30	25.58	23.99	23.60	23.40	23.91	24.37	
8	23.55	23.19	23.43	23.64	25.25	24.15	25.12	24.06	23.62	23.45	23.90	24.35	
9	23.49	23.25	23.37	23.59	25.03	24.10	24.79	24.20	23.59	23.42	23.96	24.32	
10	23.37	23.23	23.33	23.56	24.74	24.22	24.49	24.60	23.66	23.43	23.98	24.40	
11	23.36	23.30	23.34	23.73	24.61	24.21	24.35	24.69	23.72	23.41	23.94	24.45	
12	23.32	23.36	23.31	23.74	24.55	24.26	24.20	24.22	23.73	23.58	24.01	24.60	
13	23.32	23.39	23.47	23.71	24.43	24.25	24.41	24.02	23.63	23.56	23.99	24.64	
14	23.38	23.36	23.43	23.67	24.41	24.22	24.63	23.88	23.63	23.52	23.90	24.58	
15	23.36	23.35	23.42	23.66	24.35	24.07	24.60	23.83	23.64	23.52	23.94	24.41	
16	23.38	23.34	23.53	23.67	24.47	24.11	24.52	23.80	23.71	23.55	23.96	24.68	
17	23.36	23.37	23.69	23.74	24.36	24.14	24.69	23.91	23.71	23.51	23.89	24.79	
18	23.33	23.31	23.71	23.69	24.28	24.14	25.49	24.02	23.68	23.50	24.09	24.68	
19	23.35	23.31	23.68	23.66	24.21	24.20	25.69	24.00	23.62	23.62	24.22	24.70	
20	23.30	23.26	23.61	23.86	24.12	24.66	25.07	23.93	23.66	23.61	24.24	24.81	
21	23.28	23.25	23.43	24.82	24.09	25.01	24.73	23.95	23.61	23.61	24.22	24.76	
22	23.23	23.26	23.42	24.48	24.25	26.26	24.71	23.93	23.57	23.59	24.17	24.60	
23	23.22	23.23	23.49	24.27	24.19	26.25	24.80	24.04	23.57	23.62	24.17	24.83	
24	23.16	23.20	23.40	24.30	24.11	25.65	25.51	23.88	23.62	23.62	24.24	24.85	
25	23.18	23.42	23.44	24.36	24.20	24.98	25.48	23.84	23.66	23.58	24.10	24.82	
26	23.19	23.38	23.41	24.66	24.38	24.73	24.97	23.83	23.49	23.62	24.13	24.95	
27	23.25	23.42	23.43	24.93	24.37	24.98	24.51	23.75	23.58	23.57	24.14	24.88	
28	23.30	23.48	23.36	25.16	24.44	25.07	24.29	23.72	23.57	23.59	24.10	24.69	
29	23.27	23.44	23.35	25.69	24.45	24.95	24.15	23.70	23.60	23.58		24.58	
30	23.55	23.44	23.43	25.66	24.42	24.74	24.14	23.64	23.58	23.59		24.83	
31		23.46		24.96	24.52		24.39		23.59	23.59		24.76	
Mean	23.33	23.36	23.41	24.06	24.44	24.67	24.76	24.03	23.62	23.55	24.01	24.58	
Max	23.55	23.69	23.71	25.69	25.25	26.26	25.69	24.69	23.73	23.62	24.24	24.95	26.26
Min	23.16	23.19	23.17	23.44	23.97	24.07	24.14	23.64	23.49	23.40	23.58	24.11	23.16
Annual Max Momentary Gage Height	26.41		m. (MSL.) ,				at 03.00 Hours , on Sep 23, 2021						
Zero Gage at Bottom Elevation	19.80		m. (MSL.) ,			River Bed	18.33	m. (MSL.)					
Left Bank Elevation		32.43		m. (MSL.) ,									
Right Bank Elevation		32.22		m. (MSL.) ,		Drainage Are	10,659	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	106.00	159.70	125.20	132.40	265.50	298.60	285.00	264.00	149.30	142.00	145.60	214.30		
2	110.80	155.80	119.20	137.20	220.80	349.60	270.00	255.00	149.30	145.60	172.70	220.80		
3	106.00	142.00	114.40	128.80	196.10	359.80	280.50	241.50	146.80	146.80	192.20	237.20		
4	115.60	121.60	107.20	134.80	224.70	330.90	303.70	226.00	148.00	144.40	184.40	247.50		
5	112.00	115.60	98.00	143.20	307.10	280.50	282.00	207.80	148.00	149.30	183.10	264.00		
6	128.80	106.00	97.00	142.00	324.10	252.00	390.40	197.40	148.00	131.20	185.70	240.00		
7	133.60	99.00	97.00	146.80	378.50	240.00	454.40	198.70	148.00	124.00	188.30	250.50		
8	142.00	99.00	127.60	153.20	395.50	219.50	373.40	207.80	150.60	130.00	187.00	247.50		
9	134.80	106.00	120.40	146.80	358.10	213.00	317.30	226.00	146.80	126.40	194.80	243.00		
10	120.40	103.60	115.60	143.20	308.80	228.80	268.50	285.00	155.80	127.60	197.40	255.00		
11	119.20	112.00	116.80	164.90	286.70	227.40	247.50	300.30	163.60	125.20	192.20	262.50		
12	114.40	119.20	113.20	166.20	277.50	234.40	226.00	228.80	164.90	145.60	201.30	285.00		
13	114.40	122.80	132.40	162.30	259.50	233.00	256.50	202.60	151.90	143.20	198.70	291.80		
14	121.60	119.20	127.60	157.10	256.50	228.80	290.10	184.40	151.90	138.40	187.00	282.00		
15	119.20	118.00	126.40	155.80	247.50	209.10	285.00	177.90	153.20	138.40	192.20	256.50		
16	121.60	116.80	139.60	157.10	265.50	214.30	273.00	174.00	162.30	142.00	194.80	298.60		
17	119.20	120.40	159.70	166.20	249.00	218.20	300.30	188.30	162.30	137.20	185.70	317.30		
18	115.60	113.20	162.30	159.70	237.20	218.20	438.20	202.60	158.40	136.00	211.70	298.60		
19	118.00	113.20	158.40	155.80	227.40	226.00	475.10	200.00	150.60	150.60	228.80	302.00		
20	112.00	107.20	149.30	181.80	215.60	295.20	364.90	190.90	155.80	149.30	231.60	320.70		
21	109.60	106.00	127.60	322.40	211.70	354.70	307.10	193.50	149.30	149.30	228.80	312.20		
22	103.60	107.20	126.40	267.00	233.00	587.60	303.70	190.90	144.40	146.80	222.10	285.00		
23	102.40	103.60	134.80	235.80	224.70	585.50	319.00	205.20	144.40	150.60	222.10	324.10		
24	96.00	100.00	124.00	240.00	214.30	467.50	441.80	184.40	150.60	150.60	231.60	327.50		
25	98.00	126.40	128.80	249.00	226.00	349.60	436.40	179.20	155.80	145.60	213.00	322.40		
26	99.00	121.60	125.20	295.20	252.00	307.10	347.90	177.90	134.80	150.60	216.90	344.50		
27	106.00	126.40	127.60	341.10	250.50	349.60	271.50	167.50	145.60	144.40	218.20	332.60		
28	112.00	133.60	119.20	380.20	261.00	364.90	238.60	163.60	144.40	146.80	213.00	300.30		
29	108.40	128.80	118.00	475.10	262.50	344.50	219.50	161.00	148.00	145.60		282.00		
30	142.00	128.80	127.60	469.40	258.00	308.80	218.20	153.20	145.60	146.80		324.10		
31		131.20		346.20	273.00		253.50		146.80	146.80		312.20		
Total	3462.20	3683.90	3766.50	6656.70	8168.30	9097.10	9739.00	6135.40	4675.20	4397.10	5620.90	8801.70	74204.00	CMSDAY
Mean	115.41	118.84	125.55	214.73	263.49	303.24	314.16	204.51	150.81	141.84	200.75	283.93	203.30	CMS
Max	142.00	159.70	162.30	475.10	395.50	587.60	475.10	300.30	164.90	150.60	231.60	344.50	587.60	CMS
Min	96.00	99.00	97.00	128.80	196.10	209.10	218.20	153.20	134.80	124.00	145.60	214.30	96.00	CMS
Runoff	299.13	318.29	325.43	575.14	705.74	785.99	841.45	530.10	403.94	379.91	485.65	760.47	6411.23	MCM
Momentary Peak	620.30 CMS. at 26.41 m. (MSL.) at 03.00 Hours , on Sep 23, 2021													
Runoff Yield	19.07 Liters/Second/Square KM.			Momentary Peak Yield				58.19 Liters/Second/Square KM.						

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

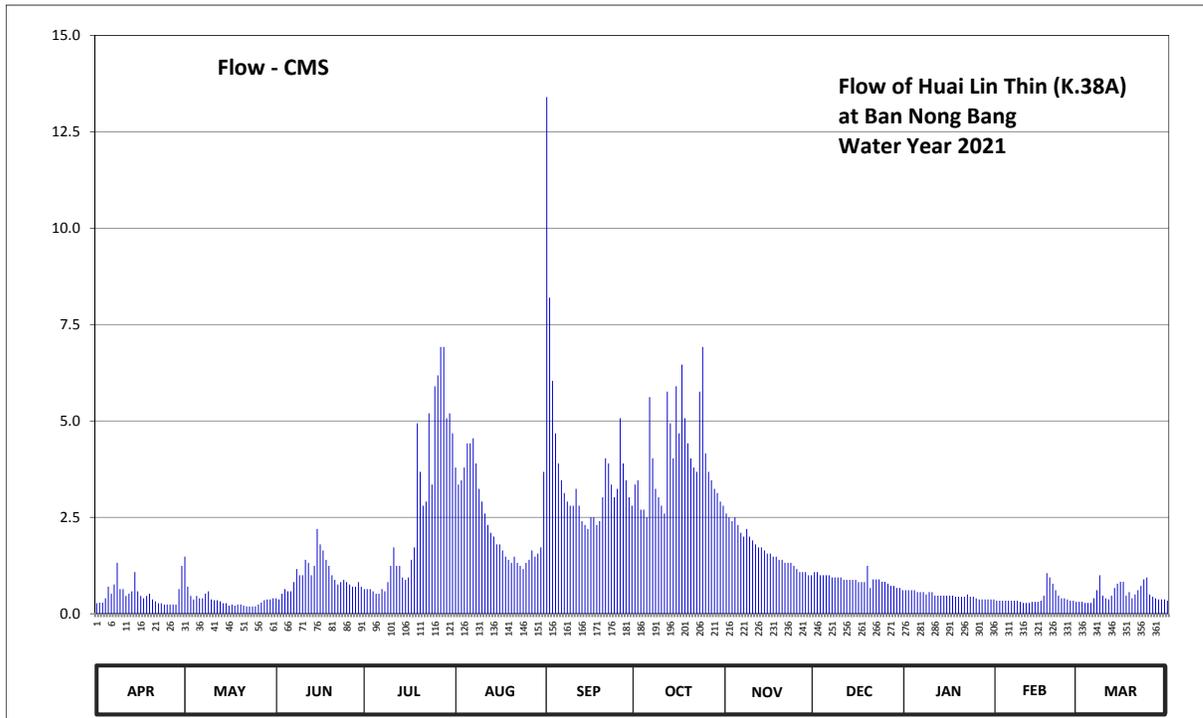
Lat 14 - 34 - 26 N Long 98 - 48 - 55 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	<b>Ban Nong Bang</b>	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	109 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+90.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+95.432 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.55	90.76	90.60	90.64	90.99	91.57	90.95	90.88	90.71	90.82	90.75	90.74	
2	90.56	90.65	90.59	90.64	90.95	91.30	90.96	90.87	90.71	90.82	90.75	90.74	
3	90.56	90.61	90.62	90.64	90.96	91.16	90.89	90.86	90.70	90.82	90.75	90.73	
4	90.60	90.59	90.64	90.63	90.99	91.06	90.89	90.87	90.70	90.82	90.75	90.73	
5	90.65	90.61	90.63	90.62	91.04	91.00	90.87	90.85	90.70	90.81	90.75	90.73	
6	90.62	90.60	90.63	90.62	91.04	90.96	91.13	90.83	90.70	90.81	90.75	90.77	
7	90.66	90.60	90.67	90.64	91.05	90.93	91.01	90.82	90.69	90.81	90.75	90.82	
8	90.74	90.62	90.72	90.63	91.00	90.91	90.94	90.84	90.69	90.80	90.75	90.89	
9	90.64	90.63	90.70	90.67	90.94	90.90	90.92	90.82	90.69	90.81	90.74	90.79	
10	90.64	90.59	90.70	90.73	90.91	90.90	90.90	90.81	90.69	90.81	90.73	90.77	
11	90.61	90.58	90.75	90.79	90.88	90.94	90.88	90.80	90.68	90.79	90.73	90.76	
12	90.62	90.58	90.74	90.73	90.85	90.90	91.14	90.79	90.68	90.79	90.73	90.79	
13	90.63	90.57	90.70	90.73	90.83	90.86	91.08	90.79	90.68	90.79	90.74	90.83	
14	90.71	90.55	90.73	90.69	90.82	90.85	91.01	90.78	90.68	90.79	90.74	90.85	
15	90.63	90.55	90.84	90.68	90.80	90.84	91.15	90.77	90.68	90.79	90.74	90.86	
16	90.61	90.53	90.80	90.69	90.80	90.87	91.06	90.77	90.67	90.79	90.75	90.86	
17	90.60	90.54	90.78	90.75	90.78	90.87	91.19	90.76	90.67	90.79	90.79	90.79	
18	90.61	90.53	90.75	90.79	90.76	90.85	91.09	90.76	90.67	90.78	90.90	90.81	
19	90.62	90.54	90.73	91.08	90.75	90.86	91.04	90.75	90.73	90.78	90.88	90.77	
20	90.59	90.54	90.70	90.98	90.74	90.92	91.01	90.75	90.83	90.78	90.85	90.80	
21	90.57	90.53	90.68	90.90	90.76	91.01	90.99	90.74	90.87	90.78	90.82	90.82	
22	90.55	90.52	90.66	90.91	90.74	91.00	90.98	90.74	90.87	90.80	90.79	90.84	
23	90.55	90.52	90.67	91.10	90.73	90.95	91.14	90.74	90.87	90.78	90.77	90.87	
24	90.54	90.52	90.68	90.95	90.72	90.92	91.22	90.73	90.86	90.78	90.77	90.88	
25	90.54	90.52	90.67	91.15	90.74	90.94	91.02	90.72	90.86	90.77	90.76	90.80	
26	90.54	90.54	90.66	91.17	90.75	91.09	90.98	90.71	90.85	90.76	90.75	90.78	
27	90.54	90.56	90.65	91.22	90.78	91.00	90.96	90.71	90.84	90.76	90.75	90.77	
28	90.54	90.58	90.65	91.22	90.76	90.96	90.94	90.71	90.84	90.76	90.74	90.76	
29	90.64	90.59	90.67	91.09	90.77	90.92	90.93	90.70	90.83	90.76		90.76	
30	90.73	90.59	90.65	91.10	90.79	90.90	90.91	90.70	90.83	90.76		90.76	
31		90.60		91.06	90.98		90.90		90.82	90.76		90.75	
Mean	90.61	90.58	90.69	90.85	90.85	90.97	91.00	90.78	90.75	90.79	90.77	90.79	
Max	90.74	90.76	90.84	91.22	91.05	91.57	91.22	90.88	90.87	90.82	90.90	90.89	91.57
Min	90.54	90.52	90.59	90.62	90.72	90.84	90.87	90.70	90.67	90.76	90.73	90.73	90.52
Annual Max Momentary Gage Height	92.19		m. (MSL.) ,			at 16.00 Hours ,	on Sep 1, 2021						
Zero Gage at Bottom Elevation	90.00		m. (MSL.) ,			River Bed	90.38	m. (MSL.)					
Left Bank Elevation		95.16		m. (MSL.) ,									
Right Bank Elevation		95.43		m. (MSL.) ,		Drainage Are	109	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	1.48	0.40	0.64	3.79	13.40	3.35	2.60	1.08	0.61	0.34	0.31	
2	0.29	0.70	0.37	0.64	3.35	8.20	3.46	2.50	1.08	0.61	0.34	0.31	
3	0.29	0.46	0.52	0.64	3.46	6.04	2.70	2.40	1.00	0.61	0.34	0.28	
4	0.40	0.37	0.64	0.58	3.79	4.68	2.70	2.50	1.00	0.61	0.34	0.28	
5	0.70	0.46	0.58	0.52	4.42	3.90	2.50	2.30	1.00	0.56	0.34	0.28	
6	0.52	0.40	0.58	0.52	4.42	3.46	5.62	2.10	1.00	0.56	0.34	0.40	
7	0.76	0.40	0.82	0.64	4.55	3.13	4.03	2.00	0.94	0.56	0.34	0.61	
8	1.32	0.52	1.16	0.58	3.90	2.91	3.24	2.20	0.94	0.50	0.34	1.00	
9	0.64	0.58	1.00	0.82	3.24	2.80	3.02	2.00	0.94	0.56	0.31	0.47	
10	0.64	0.37	1.00	1.24	2.91	2.80	2.80	1.90	0.94	0.56	0.28	0.40	
11	0.46	0.35	1.40	1.72	2.60	3.24	2.60	1.80	0.88	0.47	0.28	0.37	
12	0.52	0.35	1.32	1.24	2.30	2.80	5.76	1.72	0.88	0.47	0.28	0.47	
13	0.58	0.32	1.00	1.24	2.10	2.40	4.94	1.72	0.88	0.47	0.31	0.67	
14	1.08	0.27	1.24	0.94	2.00	2.30	4.03	1.64	0.88	0.47	0.31	0.78	
15	0.58	0.27	2.20	0.88	1.80	2.20	5.90	1.56	0.88	0.47	0.31	0.83	
16	0.46	0.21	1.80	0.94	1.80	2.50	4.68	1.56	0.82	0.47	0.34	0.83	
17	0.40	0.24	1.64	1.40	1.64	2.50	6.46	1.48	0.82	0.47	0.47	0.47	
18	0.46	0.21	1.40	1.72	1.48	2.30	5.07	1.48	0.82	0.44	1.05	0.56	
19	0.52	0.24	1.24	4.94	1.40	2.40	4.42	1.40	1.24	0.44	0.94	0.40	
20	0.37	0.24	1.00	3.68	1.32	3.02	4.03	1.40	0.67	0.44	0.78	0.50	
21	0.32	0.21	0.88	2.80	1.48	4.03	3.79	1.32	0.89	0.44	0.61	0.61	
22	0.27	0.19	0.76	2.91	1.32	3.90	3.68	1.32	0.89	0.50	0.47	0.72	
23	0.27	0.19	0.82	5.20	1.24	3.35	5.76	1.32	0.89	0.44	0.40	0.89	
24	0.24	0.19	0.88	3.35	1.16	3.02	6.92	1.24	0.83	0.44	0.40	0.94	
25	0.24	0.19	0.82	5.90	1.32	3.24	4.16	1.16	0.83	0.40	0.37	0.50	
26	0.24	0.24	0.76	6.18	1.40	5.07	3.68	1.08	0.78	0.37	0.34	0.44	
27	0.24	0.29	0.70	6.92	1.64	3.90	3.46	1.08	0.72	0.37	0.34	0.40	
28	0.24	0.35	0.70	6.92	1.48	3.46	3.24	1.08	0.72	0.37	0.31	0.37	
29	0.64	0.37	0.82	5.07	1.56	3.02	3.13	1.00	0.67	0.37		0.37	
30	1.24	0.37	0.70	5.20	1.72	2.80	2.91	1.00	0.67	0.37		0.37	
31		0.40		4.68	3.68		2.80		0.61	0.37		0.34	
<b>Total</b>	15.20	11.43	29.15	80.65	74.27	112.77	124.84	49.86	27.19	14.79	11.62	16.17	567.94 CMSDAY
<b>Mean</b>	0.51	0.37	0.97	2.60	2.40	3.76	4.03	1.66	0.88	0.48	0.41	0.52	1.56 CMS
<b>Max</b>	1.32	1.48	2.20	6.92	4.55	13.40	6.92	2.60	1.24	0.61	1.05	1.00	13.40 CMS
<b>Min</b>	0.24	0.19	0.37	0.52	1.16	2.20	2.50	1.00	0.61	0.37	0.28	0.28	0.19 CMS
<b>Runoff</b>	1.31	0.99	2.52	6.97	6.42	9.74	10.79	4.31	2.35	1.28	1.00	1.40	49.07 MCM
<b>Momentary Peak</b>	27.36	CMS.	at 92.19 m. (MSL.)	at 16.00 Hours	on Sep 1, 2021								
<b>Runoff Yield</b>	14.28	Liters/Second/Square KM.		Momentary Peak Yield	251.01	Liters/Second/Square KM.							

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)

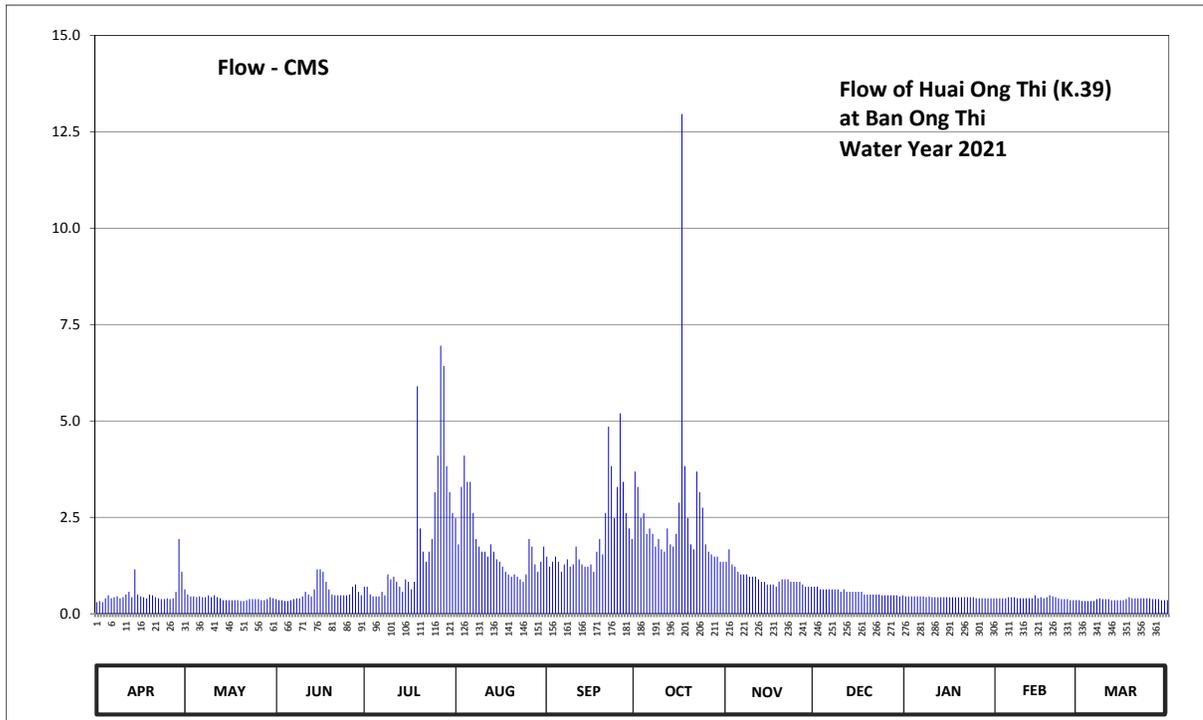
Lat 14 - 42 - 14 N Long 98 - 40 - 02 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	<b>Ban Ong Thi</b>	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	52 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+81.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 16 meters from the third staff gage.	<b>Elevation</b>	+90.228 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1985 - 1990 , 1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1985 - 1990 , 1996 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	81.92	82.02	81.95	82.03	82.25	82.15	82.34	82.13	82.03	81.98	81.96	81.94	
2	81.93	82.00	81.94	82.03	82.20	82.11	82.31	82.18	82.03	81.98	81.96	81.93	
3	81.92	81.98	81.94	82.00	82.31	82.13	82.25	82.12	82.02	81.98	81.96	81.93	
4	81.96	81.98	81.93	81.98	82.37	82.15	82.26	82.11	82.02	81.98	81.96	81.93	
5	81.99	81.97	81.93	81.98	82.32	82.13	82.22	82.09	82.02	81.98	81.97	81.93	
6	81.96	81.98	81.94	81.98	82.32	82.09	82.23	82.08	82.02	81.98	81.97	81.93	
7	81.97	81.97	81.95	82.01	82.26	82.12	82.22	82.08	82.02	81.98	81.97	81.95	
8	81.98	81.97	81.96	81.99	82.21	82.14	82.19	82.08	82.02	81.97	81.96	81.96	
9	81.96	81.99	81.96	82.08	82.19	82.11	82.21	82.07	82.02	81.98	81.96	81.95	
10	81.97	81.97	81.98	82.06	82.17	82.12	82.18	82.07	82.01	81.97	81.96	81.95	
11	82.00	81.99	82.01	82.07	82.17	82.19	82.17	82.07	82.02	81.97	81.96	81.95	
12	82.01	81.97	82.00	82.05	82.15	82.14	82.23	82.06	82.01	81.97	81.96	81.94	
13	81.97	81.96	81.98	82.03	82.20	82.12	82.20	82.05	82.01	81.97	81.96	81.94	
14	82.10	81.94	82.02	82.01	82.17	82.11	82.19	82.05	82.01	81.97	81.99	81.94	
15	82.00	81.94	82.10	82.06	82.14	82.11	82.22	82.04	82.01	81.97	81.96	81.94	
16	81.98	81.94	82.10	82.05	82.13	82.12	82.28	82.04	82.01	81.97	81.97	81.94	
17	81.97	81.94	82.09	82.02	82.11	82.09	82.84	82.04	82.01	81.97	81.96	81.95	
18	81.96	81.94	82.05	82.05	82.09	82.17	82.35	82.03	82.00	81.97	81.97	81.97	
19	82.00	81.94	82.02	82.48	82.08	82.21	82.25	82.05	82.00	81.97	81.99	81.96	
20	81.99	81.93	82.00	82.23	82.07	82.16	82.20	82.06	82.00	81.97	81.98	81.96	
21	81.97	81.93	81.99	82.17	82.08	82.26	82.18	82.06	82.00	81.97	81.97	81.96	
22	81.96	81.94	81.99	82.13	82.07	82.42	82.34	82.06	82.00	81.97	81.96	81.96	
23	81.95	81.95	81.99	82.17	82.06	82.35	82.30	82.05	82.00	81.97	81.95	81.96	
24	81.95	81.95	81.99	82.21	82.05	82.25	82.27	82.05	81.99	81.97	81.95	81.96	
25	81.96	81.95	81.99	82.30	82.08	82.31	82.20	82.05	81.99	81.96	81.95	81.96	
26	81.95	81.95	82.00	82.37	82.21	82.44	82.17	82.05	81.99	81.96	81.94	81.95	
27	81.96	81.94	82.03	82.54	82.19	82.32	82.16	82.04	81.99	81.96	81.94	81.95	
28	82.01	81.94	82.04	82.51	82.12	82.26	82.15	82.03	81.99	81.96	81.94	81.95	
29	82.21	81.95	82.01	82.35	82.09	82.23	82.15	82.03	81.99	81.96		81.94	
30	82.09	81.97	81.99	82.30	82.13	82.21	82.13	82.03	81.98	81.96		81.94	
31		81.96		82.26	82.19		82.13		81.99	81.96		81.94	
Mean	81.98	81.96	82.00	82.15	82.17	82.19	82.24	82.07	82.01	81.97	81.96	81.95	
Max	82.21	82.02	82.10	82.54	82.37	82.44	82.84	82.18	82.03	81.98	81.99	81.97	82.84
Min	81.92	81.93	81.93	81.98	82.05	82.09	82.13	82.03	81.98	81.96	81.94	81.93	81.92
Annual Max Momentary Gage Height	83.70		m. (MSL.) ,				at 05.00 Hours , on Oct 17, 2021						
Zero Gage at Bottom Elevation	81.80		m. (MSL.) ,			River Bed	81.78	m. (MSL.)					
Left Bank Elevation		90.25		m. (MSL.) ,									
Right Bank Elevation		90.22		m. (MSL.) ,		Drainage Are	52	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.63	0.38	0.70	2.48	1.48	3.69	1.35	0.70	0.45	0.40	0.35	
2	0.33	0.50	0.35	0.70	1.80	1.22	3.29	1.67	0.70	0.45	0.40	0.33	
3	0.30	0.45	0.35	0.50	3.29	1.35	2.48	1.28	0.63	0.45	0.40	0.33	
4	0.40	0.45	0.33	0.45	4.10	1.48	2.61	1.22	0.63	0.45	0.40	0.33	
5	0.48	0.43	0.33	0.45	3.42	1.35	2.07	1.09	0.63	0.45	0.43	0.33	
6	0.40	0.45	0.35	0.45	3.42	1.09	2.21	1.02	0.63	0.45	0.43	0.33	
7	0.43	0.43	0.38	0.57	2.61	1.28	2.07	1.02	0.63	0.45	0.43	0.38	
8	0.45	0.43	0.40	0.48	1.94	1.41	1.74	1.02	0.63	0.43	0.40	0.40	
9	0.40	0.48	0.40	1.02	1.74	1.22	1.94	0.96	0.63	0.45	0.40	0.38	
10	0.43	0.43	0.45	0.89	1.61	1.28	1.67	0.96	0.57	0.43	0.40	0.38	
11	0.50	0.48	0.57	0.96	1.61	1.74	1.61	0.96	0.63	0.43	0.40	0.38	
12	0.57	0.43	0.50	0.83	1.48	1.41	2.21	0.89	0.57	0.43	0.40	0.35	
13	0.43	0.40	0.45	0.70	1.80	1.28	1.80	0.83	0.57	0.43	0.40	0.35	
14	1.15	0.35	0.63	0.57	1.61	1.22	1.74	0.83	0.57	0.43	0.48	0.35	
15	0.50	0.35	1.15	0.89	1.41	1.22	2.07	0.76	0.57	0.43	0.40	0.35	
16	0.45	0.35	1.15	0.83	1.35	1.28	2.88	0.76	0.57	0.43	0.43	0.35	
17	0.43	0.35	1.09	0.63	1.22	1.09	12.96	0.76	0.57	0.43	0.40	0.38	
18	0.40	0.35	0.83	0.83	1.09	1.61	3.83	0.70	0.50	0.43	0.43	0.43	
19	0.50	0.35	0.63	5.90	1.02	1.94	2.48	0.83	0.50	0.43	0.48	0.40	
20	0.48	0.33	0.50	2.21	0.96	1.54	1.80	0.89	0.50	0.43	0.45	0.40	
21	0.43	0.33	0.48	1.61	1.02	2.61	1.67	0.89	0.50	0.43	0.43	0.40	
22	0.40	0.35	0.48	1.35	0.96	4.85	3.69	0.89	0.50	0.43	0.40	0.40	
23	0.38	0.38	0.48	1.61	0.89	3.83	3.15	0.83	0.50	0.43	0.38	0.40	
24	0.38	0.38	0.48	1.94	0.83	2.48	2.75	0.83	0.48	0.43	0.38	0.40	
25	0.40	0.38	0.48	3.15	1.02	3.29	1.80	0.83	0.48	0.40	0.38	0.40	
26	0.38	0.38	0.50	4.10	1.94	5.20	1.61	0.83	0.48	0.40	0.35	0.38	
27	0.40	0.35	0.70	6.95	1.74	3.42	1.54	0.76	0.48	0.40	0.35	0.38	
28	0.57	0.35	0.76	6.43	1.28	2.61	1.48	0.70	0.48	0.40	0.35	0.38	
29	1.94	0.38	0.57	3.83	1.09	2.21	1.48	0.70	0.48	0.40		0.35	
30	1.09	0.43	0.48	3.15	1.35	1.94	1.35	0.70	0.45	0.40		0.35	
31		0.40		2.61	1.74		1.35		0.48	0.40		0.35	
<b>Total</b>	15.70	12.53	16.63	57.29	53.82	59.93	79.02	27.76	17.24	13.28	11.38	11.47	376.05 CMSDAY
<b>Mean</b>	0.52	0.40	0.55	1.85	1.74	2.00	2.55	0.93	0.56	0.43	0.41	0.37	1.03 CMS
<b>Max</b>	1.94	0.63	1.15	6.95	4.10	5.20	12.96	1.67	0.70	0.45	0.48	0.43	12.96 CMS
<b>Min</b>	0.30	0.33	0.33	0.45	0.83	1.09	1.35	0.70	0.45	0.40	0.35	0.33	0.30 CMS
<b>Runoff</b>	1.36	1.08	1.44	4.95	4.65	5.18	6.83	2.40	1.49	1.15	0.98	0.99	32.49 MCM
<b>Momentary Peak</b>	38.00 CMS. at 83.70 m. (MSL.) at 05.00 Hours , on Oct 17, 2021												
<b>Runoff Yield</b>	19.81 Liters/Second/Square KM.			Momentary Peak Yield 730.77 Liters/Second/Square KM.									

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Dinso at Ban Sahakorn Nikom , Kanchanaburi (K.50A)

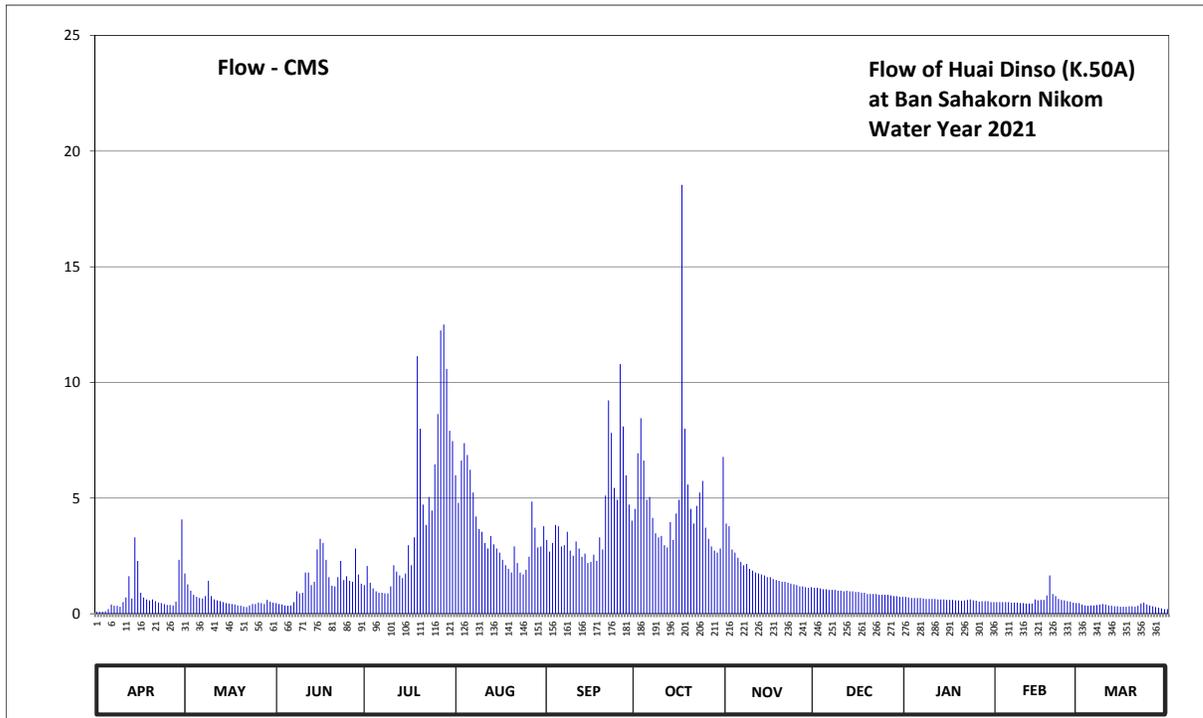
Lat 14 - 40 - 37 N Long 98 - 42 - 53 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway.

	<b>Ban</b> Sahakorn Nikom	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	121 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+125.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+129.409 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1992 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1992-2014 , 2020 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1992-2014 , 2020 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.26	125.91	125.48	125.78	126.66	126.23	126.45	126.35	125.74	125.61	125.50	125.48	
2	125.26	125.79	125.46	125.99	126.49	126.13	126.78	126.33	125.74	125.60	125.50	125.45	
3	125.26	125.70	125.45	125.81	126.74	126.21	126.95	126.15	125.73	125.59	125.50	125.43	
4	125.27	125.64	125.43	125.73	126.83	126.34	126.74	126.12	125.72	125.59	125.50	125.42	
5	125.33	125.61	125.42	125.69	126.77	126.33	126.51	126.07	125.72	125.59	125.50	125.43	
6	125.45	125.59	125.43	125.67	126.69	126.18	126.53	126.03	125.71	125.59	125.49	125.43	
7	125.42	125.58	125.50	125.67	126.56	126.19	126.39	126.00	125.71	125.58	125.49	125.44	
8	125.42	125.62	125.69	125.66	126.40	126.29	126.28	126.01	125.71	125.57	125.49	125.45	
9	125.40	125.83	125.66	125.66	126.31	126.14	126.25	125.96	125.70	125.57	125.48	125.46	
10	125.50	125.62	125.67	125.76	126.29	126.09	126.26	125.94	125.70	125.57	125.48	125.45	
11	125.60	125.56	125.92	126.00	126.21	126.22	126.19	125.92	125.69	125.57	125.47	125.43	
12	125.88	125.54	125.92	125.93	126.16	126.16	126.17	125.91	125.70	125.56	125.47	125.42	
13	125.58	125.52	125.78	125.89	126.26	126.08	126.36	125.90	125.69	125.56	125.47	125.41	
14	126.25	125.50	125.82	125.86	126.20	126.11	126.23	125.89	125.69	125.56	125.56	125.41	
15	126.04	125.48	126.15	125.91	126.16	126.02	126.42	125.87	125.68	125.55	125.54	125.40	
16	125.67	125.47	126.24	126.19	126.12	126.03	126.51	125.87	125.68	125.55	125.55	125.40	
17	125.60	125.46	126.21	126.00	126.05	126.10	127.71	125.85	125.67	125.55	125.55	125.40	
18	125.56	125.45	126.05	126.25	126.00	126.04	126.90	125.84	125.67	125.54	125.63	125.41	
19	125.54	125.43	125.87	127.21	125.96	126.25	126.61	125.83	125.65	125.54	125.89	125.41	
20	125.56	125.42	125.77	126.90	125.92	126.15	126.45	125.82	125.65	125.53	125.65	125.40	
21	125.52	125.40	125.76	126.48	126.18	126.54	126.35	125.82	125.65	125.54	125.62	125.42	
22	125.49	125.39	125.87	126.34	126.02	127.03	126.47	125.81	125.65	125.55	125.57	125.47	
23	125.48	125.43	126.04	126.53	125.92	126.88	126.56	125.80	125.64	125.56	125.55	125.49	
24	125.46	125.46	125.84	126.44	125.90	126.59	126.63	125.79	125.64	125.54	125.54	125.45	
25	125.44	125.46	125.88	126.72	125.95	126.51	126.32	125.78	125.64	125.53	125.52	125.43	
26	125.44	125.49	125.83	126.97	126.08	127.18	126.24	125.76	125.64	125.51	125.51	125.41	
27	125.43	125.48	125.82	127.30	126.50	126.91	126.18	125.76	125.63	125.52	125.49	125.39	
28	125.51	125.46	126.16	127.32	126.32	126.66	126.14	125.75	125.62	125.52	125.48	125.37	
29	126.05	125.55	125.90	127.16	126.17	126.48	126.12	125.74	125.62	125.52		125.35	
30	126.38	125.51	125.80	126.89	126.18	126.37	126.16	125.75	125.61	125.50		125.33	
31		125.49		126.84	126.33		126.76		125.61	125.50		125.33	
Mean	125.57	125.54	125.79	126.28	126.27	126.35	126.47	125.91	125.67	125.55	125.54	125.42	
Max	126.38	125.91	126.24	127.32	126.83	127.18	127.71	126.35	125.74	125.61	125.89	125.49	127.71
Min	125.26	125.39	125.42	125.66	125.90	126.02	126.12	125.74	125.61	125.50	125.47	125.33	125.26
Annual Max Momentary Gage Height	128.28		m. (MSL.) ,				at 07.00 Hours ,						on Oct 17, 2021
Zero Gage at Bottom Elevation	125.00		m. (MSL.) ,			River Bed	125.16	m. (MSL.)					
Left Bank Elevation		128.32		m. (MSL.) ,									
Right Bank Elevation		128.41		m. (MSL.) ,		Drainage Are	121	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	1.74	0.46	1.24	5.98	3.18	4.53	3.90	1.12	0.73	0.50	0.46	
2	0.09	1.27	0.42	2.06	4.79	2.69	6.94	3.78	1.12	0.70	0.50	0.40	
3	0.09	1.00	0.40	1.34	6.62	3.06	8.45	2.78	1.09	0.68	0.50	0.36	
4	0.11	0.82	0.36	1.09	7.37	3.84	6.62	2.64	1.06	0.68	0.50	0.34	
5	0.20	0.73	0.34	0.97	6.86	3.78	4.92	2.42	1.06	0.68	0.50	0.36	
6	0.40	0.68	0.36	0.91	6.22	2.91	5.05	2.24	1.03	0.68	0.48	0.36	
7	0.34	0.66	0.50	0.91	5.24	2.96	4.14	2.10	1.03	0.66	0.48	0.38	
8	0.34	0.76	0.97	0.88	4.20	3.54	3.48	2.15	1.03	0.64	0.48	0.40	
9	0.30	1.42	0.88	0.88	3.66	2.73	3.30	1.94	1.00	0.64	0.46	0.42	
10	0.50	0.76	0.91	1.18	3.54	2.51	3.36	1.86	1.00	0.64	0.46	0.40	
11	0.70	0.62	1.78	2.10	3.06	3.12	2.96	1.78	0.97	0.64	0.44	0.36	
12	1.62	0.58	1.78	1.82	2.82	2.82	2.87	1.74	1.00	0.62	0.44	0.34	
13	0.66	0.54	1.24	1.66	3.36	2.46	3.96	1.70	0.97	0.62	0.44	0.32	
14	3.30	0.50	1.38	1.54	3.00	2.60	3.18	1.66	0.97	0.62	0.62	0.32	
15	2.28	0.46	2.78	1.74	2.82	2.19	4.33	1.58	0.94	0.60	0.58	0.30	
16	0.91	0.44	3.24	2.96	2.64	2.24	4.92	1.58	0.94	0.60	0.60	0.30	
17	0.70	0.42	3.06	2.10	2.33	2.55	18.54	1.50	0.91	0.60	0.60	0.30	
18	0.62	0.40	2.33	3.30	2.10	2.28	8.00	1.46	0.91	0.58	0.79	0.32	
19	0.58	0.36	1.58	11.13	1.94	3.30	5.58	1.42	0.85	0.58	1.66	0.32	
20	0.62	0.34	1.21	8.00	1.78	2.78	4.53	1.38	0.85	0.56	0.85	0.30	
21	0.54	0.30	1.18	4.72	2.91	5.11	3.90	1.38	0.85	0.58	0.76	0.34	
22	0.48	0.29	1.58	3.84	2.19	9.22	4.66	1.34	0.85	0.60	0.64	0.44	
23	0.46	0.36	2.28	5.05	1.78	7.82	5.24	1.30	0.82	0.62	0.60	0.48	
24	0.42	0.42	1.46	4.46	1.70	5.44	5.74	1.27	0.82	0.58	0.58	0.40	
25	0.38	0.42	1.62	6.46	1.90	4.92	3.72	1.24	0.82	0.56	0.54	0.36	
26	0.38	0.48	1.42	8.63	2.46	10.79	3.24	1.18	0.82	0.52	0.52	0.32	
27	0.36	0.46	1.38	12.25	4.85	8.09	2.91	1.18	0.79	0.54	0.48	0.29	
28	0.52	0.42	2.82	12.50	3.72	5.98	2.73	1.15	0.76	0.54	0.46	0.26	
29	2.33	0.60	1.70	10.58	2.87	4.72	2.64	1.12	0.76	0.54		0.23	
30	4.08	0.52	1.30	7.91	2.91	4.02	2.82	1.15	0.73	0.50		0.20	
31		0.48		7.46	3.78		6.78		0.73	0.50		0.20	
<b>Total</b>	24.40	19.25	42.72	131.67	111.40	123.65	154.04	53.92	28.60	18.83	16.46	10.58	735.52 CMSDAY
<b>Mean</b>	0.81	0.62	1.42	4.25	3.59	4.12	4.97	1.80	0.92	0.61	0.59	0.34	2.02 CMS
<b>Max</b>	4.08	1.74	3.24	12.50	7.37	10.79	18.54	3.90	1.12	0.73	1.66	0.48	18.54 CMS
<b>Min</b>	0.09	0.29	0.34	0.88	1.70	2.19	2.64	1.12	0.73	0.50	0.44	0.20	0.09 CMS
<b>Runoff</b>	2.11	1.66	3.69	11.38	9.62	10.68	13.31	4.66	2.47	1.63	1.42	0.91	63.55 MCM
<b>Momentary Peak</b>	34.10	CMS. at 128.28 m. (MSL.) at 07.00 Hours , on Oct 17, 2021											
<b>Runoff Yield</b>	16.65	Liters/Second/Square KM. Momentary Peak Yield 281.82 Liters/Second/Square KM.											

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Khwaee Noi River at Ban Lin Thin , Kanchanaburi (K.54)

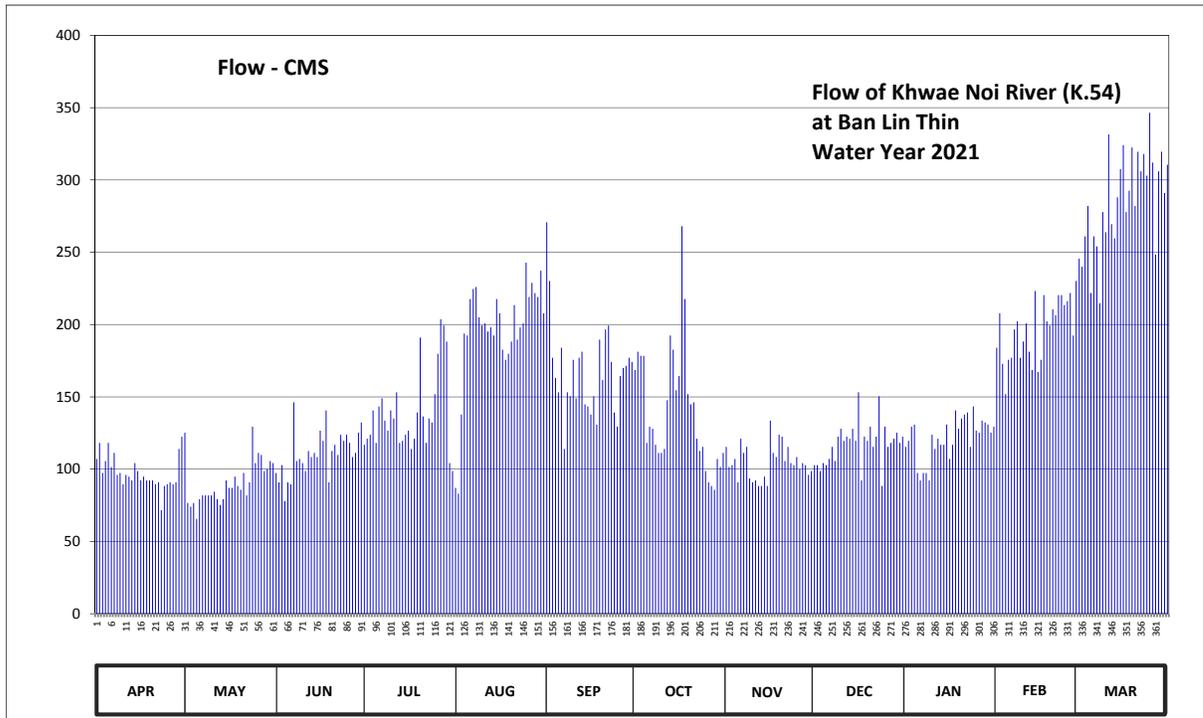
Lat 14 - 32 - 09 N Long 98 - 47 - 16 E

Location : on right bank at the bridge on road.

	<b>Ban Lin Thin</b>	<b>Amphoe</b>	<b>Thong Pha Phum</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	4,785 sq.km.				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+60.600 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank about 40 meters from the gage observer's house.	<b>Elevation</b>	+74.394 m. (MSL.)		
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1996 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1996 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	1996 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 24 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

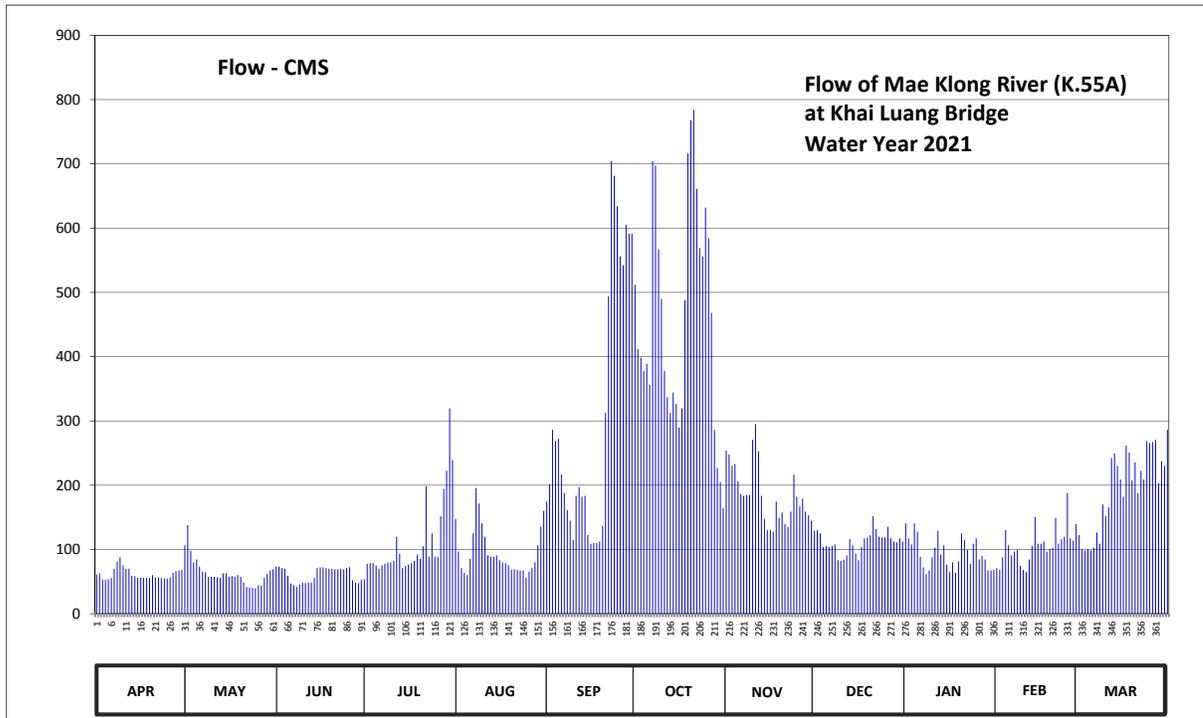
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	62.65	62.78	62.58	62.72	62.50	63.82	63.09	62.71	62.62	62.71	63.20	63.64	
2	62.73	62.42	62.53	62.75	62.47	63.53	63.18	62.61	62.62	62.74	63.37	63.60	
3	62.58	62.40	62.62	62.77	62.87	63.15	63.16	62.62	62.59	62.81	63.12	63.75	
4	62.64	62.42	62.43	62.89	63.27	63.05	63.16	62.65	62.63	62.82	62.97	63.90	
5	62.73	62.33	62.53	62.73	63.26	62.98	62.73	62.53	62.62	62.58	63.14	63.47	
6	62.61	62.44	62.52	62.91	63.44	63.20	62.81	62.75	62.65	62.54	63.15	63.75	
7	62.68	62.46	62.93	62.95	63.49	62.70	62.80	62.68	62.71	62.58	63.29	63.70	
8	62.57	62.46	62.64	62.84	63.50	62.98	62.72	62.71	62.64	62.58	63.33	63.42	
9	62.58	62.46	62.65	62.79	63.35	62.96	62.68	62.55	62.76	62.54	63.15	63.87	
10	62.52	62.46	62.63	62.89	63.31	63.14	62.68	62.53	62.80	62.77	63.23	63.77	
11	62.57	62.48	62.59	62.85	63.32	62.95	62.70	62.54	62.74	62.70	63.32	64.23	
12	62.56	62.44	62.69	62.98	63.28	63.15	62.94	62.51	62.76	62.75	63.18	63.81	
13	62.54	62.41	62.66	62.73	63.30	63.18	63.26	62.51	62.75	62.72	63.09	63.74	
14	62.63	62.44	62.68	62.74	63.26	62.92	63.19	62.56	62.80	62.72	63.48	63.94	
15	62.59	62.54	62.66	62.77	63.44	62.91	62.99	62.51	62.74	62.82	63.08	64.07	
16	62.54	62.50	62.79	62.79	63.37	62.87	63.06	62.84	62.98	62.65	63.14	64.18	
17	62.56	62.50	62.74	62.70	63.19	62.96	63.80	62.68	62.54	62.72	63.46	63.87	
18	62.54	62.56	62.89	62.75	63.14	62.82	63.44	62.66	62.76	62.89	63.33	63.97	
19	62.54	62.51	62.53	62.88	63.17	63.24	62.97	62.77	62.74	62.80	63.31	64.17	
20	62.54	62.49	62.69	63.25	63.23	63.04	62.92	62.76	62.81	62.85	63.39	63.90	
21	62.52	62.58	62.72	62.86	63.41	63.29	62.93	62.64	62.71	62.87	63.36	64.15	
22	62.53	62.46	62.67	62.73	63.24	63.31	62.75	62.71	62.76	62.88	63.46	64.06	
23	62.38	62.53	62.77	62.85	63.30	63.13	62.69	62.63	62.96	62.71	63.46	64.14	
24	62.51	62.81	62.74	62.83	63.32	62.88	62.71	62.62	62.51	62.91	63.41	64.04	
25	62.52	62.63	62.77	62.97	63.62	62.81	62.59	62.66	62.81	62.79	63.43	64.33	
26	62.53	62.68	62.73	63.17	63.45	63.06	62.53	62.60	62.71	62.78	63.47	64.10	
27	62.52	62.67	62.66	63.34	63.52	63.10	62.51	62.63	62.73	62.84	63.26	63.66	
28	62.53	62.59	62.68	63.31	63.47	63.11	62.49	62.62	62.75	62.83	63.53	64.06	
29	62.70	62.60	62.78	63.23	63.45	63.15	62.65	62.57	62.78	62.82	64.15	64.15	
30	62.76	62.64	62.83	62.63	63.58	63.13	62.61	62.59	62.73	62.78	63.96	63.96	
31		62.63		62.59	63.37		62.68		62.76	62.81	64.09	64.09	
Mean	62.58	62.53	62.68	62.88	63.29	63.08	62.88	62.63	62.72	62.75	63.29	63.92	
Max	62.76	62.81	62.93	63.34	63.62	63.82	63.80	62.84	62.98	62.91	63.53	64.33	64.33
Min	62.38	62.33	62.43	62.59	62.47	62.70	62.49	62.51	62.51	62.54	62.97	63.42	62.33
Annual Max Momentary Gage Height	65.20		m. (MSL.) ,				at 04.00 Hours ,						
Zero Gage at Bottom Elevation	60.60		m. (MSL.) ,			River Bed	60.25		m. (MSL.)				
Left Bank Elevation		68.54		m. (MSL.) ,									
Right Bank Elevation		75.56		m. (MSL.) ,		Drainage Are	4,785		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	107.00	125.20	97.40	116.80	87.00	270.80	168.60	115.40	102.80	115.40	184.00	245.60		
2	118.20	76.60	90.90	121.00	83.10	230.20	181.20	101.40	102.80	119.60	207.80	240.00		
3	97.40	74.00	102.80	123.80	137.80	177.00	178.40	102.80	98.70	129.40	172.80	261.00		
4	105.60	76.60	77.90	140.60	193.80	163.00	178.40	107.00	104.20	130.80	151.80	282.00		
5	118.20	65.60	90.90	118.20	192.40	153.20	118.20	90.90	102.80	97.40	175.60	221.80		
6	101.40	79.20	89.60	143.40	217.60	184.00	129.40	121.00	107.00	92.20	177.00	261.00		
7	111.20	81.80	146.20	149.00	224.60	114.00	128.00	111.20	115.40	97.40	196.60	254.00		
8	96.10	81.80	105.60	133.60	226.00	153.20	116.80	115.40	105.60	97.40	202.20	214.80		
9	97.40	81.80	107.00	126.60	205.00	150.40	111.20	93.50	122.40	92.20	177.00	277.80		
10	89.60	81.80	104.20	140.60	199.40	175.60	111.20	90.90	128.00	123.80	188.20	263.80		
11	96.10	84.40	98.70	135.00	200.80	149.00	114.00	92.20	119.60	114.00	200.80	331.50		
12	94.80	79.20	112.60	153.20	195.20	177.00	147.60	88.30	122.40	121.00	181.20	269.40		
13	92.20	75.30	108.40	118.20	198.00	181.20	192.40	88.30	121.00	116.80	168.60	259.60		
14	104.20	79.20	111.20	119.60	192.40	144.80	182.60	94.80	128.00	116.80	223.20	288.00		
15	98.70	92.20	108.40	123.80	217.60	143.40	154.60	88.30	119.60	130.80	167.20	307.50		
16	92.20	87.00	126.60	126.60	207.80	137.80	164.40	133.60	153.20	107.00	175.60	324.00		
17	94.80	87.00	119.60	114.00	182.60	150.40	268.00	111.20	92.20	116.80	220.40	277.80		
18	92.20	94.80	140.60	121.00	175.60	130.80	217.60	108.40	122.40	140.60	202.20	292.50		
19	92.20	88.30	90.90	139.20	179.80	189.60	151.80	123.80	119.60	199.40	199.40	322.50		
20	92.20	85.70	112.60	191.00	188.20	161.60	144.80	122.40	129.40	135.00	210.60	282.00		
21	89.60	97.40	116.80	136.40	213.40	196.60	146.20	105.60	115.40	137.80	206.40	319.50		
22	90.90	81.80	109.80	118.20	189.60	199.40	121.00	115.40	122.40	139.20	220.40	306.00		
23	71.60	90.90	123.80	135.00	198.00	174.20	112.60	104.20	150.40	115.40	220.40	318.00		
24	88.30	129.40	119.60	132.20	200.80	139.20	115.40	102.80	88.30	143.40	213.40	303.00		
25	89.60	104.20	123.80	151.80	242.80	129.40	98.70	108.40	129.40	126.60	216.20	346.50		
26	90.90	111.20	118.20	179.80	219.00	164.40	90.90	100.00	115.40	125.20	221.80	312.00		
27	89.60	109.80	108.40	203.60	228.80	170.00	88.30	104.20	118.20	133.60	192.40	248.40		
28	90.90	98.70	111.20	199.40	221.80	171.40	85.70	102.80	121.00	132.20	230.20	306.00		
29	114.00	100.00	125.20	188.20	219.00	177.00	107.00	96.10	125.20	130.80		319.50		
30	122.40	105.60	132.20	104.20	237.20	174.20	101.40	98.70	118.20	125.20		291.00		
31		104.20		98.70	207.80		111.20		122.40	129.40		310.50		
<b>Total</b>	<b>2929.50</b>	<b>2810.70</b>	<b>3331.10</b>	<b>4302.70</b>	<b>6082.90</b>	<b>5032.80</b>	<b>4337.60</b>	<b>3139.00</b>	<b>3643.40</b>	<b>3761.20</b>	<b>5503.40</b>	<b>8857.00</b>	<b>53731.30</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>97.65</b>	<b>90.67</b>	<b>111.04</b>	<b>138.80</b>	<b>196.22</b>	<b>167.76</b>	<b>139.92</b>	<b>104.63</b>	<b>117.53</b>	<b>121.33</b>	<b>196.55</b>	<b>285.71</b>	<b>147.21</b>	<b>CMS</b>
<b>Max</b>	<b>122.40</b>	<b>129.40</b>	<b>146.20</b>	<b>203.60</b>	<b>242.80</b>	<b>270.80</b>	<b>268.00</b>	<b>133.60</b>	<b>153.20</b>	<b>143.40</b>	<b>230.20</b>	<b>346.50</b>	<b>346.50</b>	<b>CMS</b>
<b>Min</b>	<b>71.60</b>	<b>65.60</b>	<b>77.90</b>	<b>98.70</b>	<b>83.10</b>	<b>114.00</b>	<b>85.70</b>	<b>88.30</b>	<b>88.30</b>	<b>92.20</b>	<b>151.80</b>	<b>214.80</b>	<b>65.60</b>	<b>CMS</b>
<b>Runoff</b>	<b>253.11</b>	<b>242.84</b>	<b>287.81</b>	<b>371.75</b>	<b>525.56</b>	<b>434.83</b>	<b>374.77</b>	<b>271.21</b>	<b>314.79</b>	<b>324.97</b>	<b>475.49</b>	<b>765.24</b>	<b>4642.38</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>482.00</b>	<b>CMS.</b>	<b>at 65.20 m. (MSL.)</b>	<b>at 04.00 Hours</b>	<b>on Mar 16, 2021</b>								
<b>Runoff Yield</b>		<b>30.76</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>100.73</b>	<b>Liters/Second/Square KM.</b>							





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	61.00	106.40	73.30	53.80	147.60	174.50	512.00	254.00	129.00	140.70	71.10	122.50		
2	62.80	138.10	73.30	77.70	96.80	201.50	411.50	248.00	130.30	117.30	68.20	100.40		
3	52.90	98.00	71.10	78.80	71.10	286.25	398.30	230.00	125.10	107.60	87.60	98.00		
4	52.90	79.90	70.00	78.80	63.70	268.75	377.95	233.00	104.00	140.70	130.30	100.40		
5	53.80	84.30	59.20	75.50	60.10	272.25	389.05	206.00	105.20	127.70	106.40	98.00		
6	55.60	73.30	46.90	70.00	85.40	216.50	356.25	186.50	104.00	88.70	90.90	102.80		
7	70.00	65.50	44.35	75.50	125.10	188.00	704.40	183.50	105.20	72.20	96.80	126.40		
8	81.00	64.60	41.80	77.70	195.50	161.60	697.35	185.00	107.60	61.90	99.20	108.80		
9	87.60	57.40	45.20	79.90	171.50	144.80	566.75	185.00	83.20	67.30	74.40	170.00		
10	75.50	57.40	48.60	79.90	140.70	114.80	490.00	270.50	82.10	87.60	68.20	151.80		
11	70.00	57.40	47.75	82.10	119.90	183.50	377.95	295.00	84.30	102.80	64.60	165.80		
12	70.00	56.50	48.60	119.90	90.90	197.00	337.00	252.50	90.90	129.00	84.30	242.00		
13	59.20	55.60	48.60	93.20	88.70	182.00	312.50	183.50	116.00	92.00	105.20	249.50		
14	58.30	62.80	55.60	71.10	88.70	183.50	344.00	147.60	106.40	106.40	150.40	230.00		
15	55.60	62.80	71.10	74.40	90.90	122.50	326.50	130.30	93.20	76.60	108.80	209.00		
16	56.50	57.40	72.20	76.60	83.20	108.80	289.75	130.30	83.20	64.60	108.80	182.00		
17	55.60	58.30	72.20	78.80	79.90	110.00	319.50	127.70	104.00	79.90	112.40	261.75		
18	55.60	57.40	71.10	82.10	78.80	110.00	488.00	174.50	117.30	63.70	96.80	251.00		
19	55.60	60.10	70.00	92.00	75.50	112.40	716.15	149.00	118.60	81.00	100.40	207.50		
20	60.10	57.40	70.00	85.40	68.20	136.80	767.85	157.40	122.50	125.10	102.80	236.00		
21	56.50	48.60	69.10	105.20	69.10	312.50	784.30	139.40	151.80	114.80	149.00	188.00		
22	56.50	41.80	69.10	198.50	68.20	494.00	661.25	135.50	131.60	99.20	108.80	222.50		
23	55.60	40.95	70.00	88.70	67.30	704.40	569.00	158.80	119.90	77.70	116.00	209.00		
24	54.70	40.10	69.10	125.10	67.30	681.50	556.00	216.50	118.60	108.80	119.90	268.75		
25	54.70	39.25	71.10	88.70	56.50	634.25	632.00	182.00	118.60	117.30	188.00	265.25		
26	56.50	44.35	72.20	88.70	65.50	556.00	584.75	167.20	135.50	84.30	117.30	267.00		
27	63.70	43.50	52.00	151.80	71.10	542.00	468.00	179.00	117.30	89.80	113.60	270.50		
28	66.40	55.60	48.60	194.00	79.90	605.00	286.25	158.80	112.40	84.30	139.40	203.00		
29	67.30	61.90	47.75	222.50	106.40	591.50	227.00	153.20	111.20	67.30		237.50		
30	68.20	67.30	52.90	319.50	135.50	591.50	204.50	144.80	117.30	67.30		230.00		
31		69.10		239.00	160.20		164.40		112.40	68.20		286.25		
Total	1849.70	1963.05	1822.75	3424.90	2969.20	9188.10	14320.20	5564.50	3458.70	2911.80	2979.60	6061.40	56513.90	CMSDAY
Mean	61.66	63.32	60.76	110.48	95.78	306.27	461.94	185.48	111.57	93.93	106.41	195.53	154.83	CMS
Max	87.60	138.10	73.30	319.50	195.50	704.40	784.30	295.00	151.80	140.70	188.00	286.25	784.30	CMS
Min	52.90	39.25	41.80	53.80	56.50	108.80	164.40	127.70	82.10	61.90	64.60	98.00	39.25	CMS
Runoff	159.81	169.61	157.49	295.91	256.54	793.85	1237.27	480.77	298.83	251.58	257.44	523.70	4882.80	MCM
Momentary Peak		814.85	CMS. at 5.91 m. (MSL.)				at 08.00 Hours , on Oct 21, 2021							
Runoff Yield		5.99	Liters/Second/Square KM.			Momentary Peak Yield	31.53	Liters/Second/Square KM.						

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Khwaee Noi River at Ban Tha Sao , Kanchanaburi (K.58)

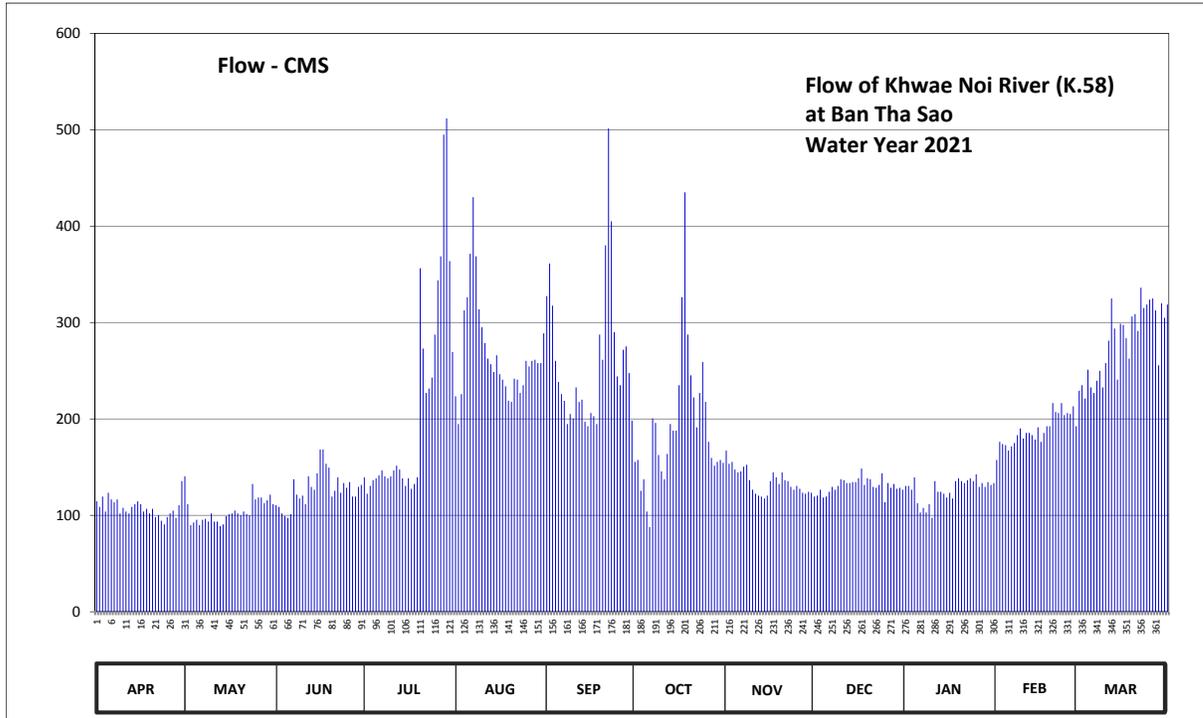
Lat 14 - 12 - 55 N Long 99 - 03 - 30 E

Location : on left bank at Ban Tha Sao.

	Ban Tha Sao	Amphoe Sai Yok	Changwat Kanchanaburi
<b>Drainage Area</b>	6,727 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+39.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 40 meters from the gage observer's house.	<b>Elevation</b>	+57.998 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1998 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

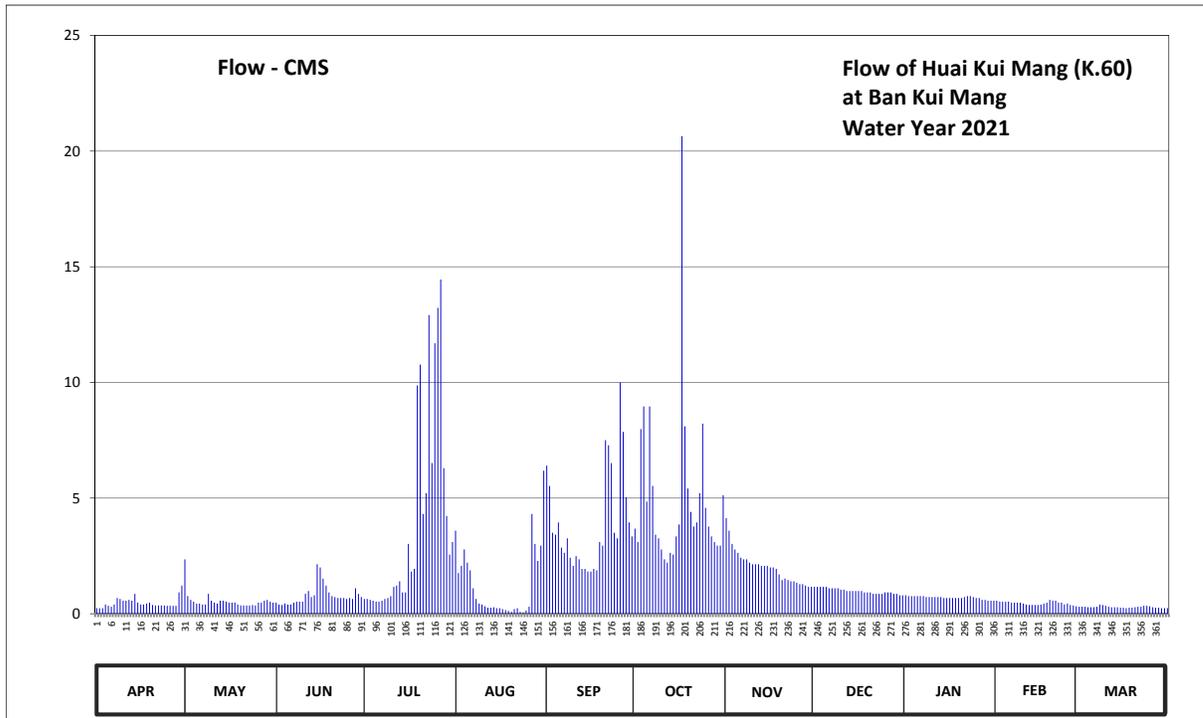
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.52	41.78	41.48	41.77	42.53	43.40	41.93	42.04	41.57	41.68	41.95	42.58	
2	41.46	41.49	41.46	41.60	42.28	43.67	41.95	41.91	41.58	41.68	42.12	42.63	
3	41.57	41.26	41.39	41.68	42.55	43.32	41.63	41.93	41.64	41.64	42.10	42.51	
4	41.41	41.29	41.36	41.74	43.28	42.85	41.75	41.85	41.56	41.77	42.09	42.77	
5	41.61	41.32	41.34	41.76	43.39	42.66	41.41	41.82	41.57	41.50	42.04	42.61	
6	41.54	41.26	41.38	41.79	43.75	42.55	41.24	41.83	41.62	41.40	42.08	42.56	
7	41.51	41.32	41.75	41.84	44.22	42.49	42.33	41.88	41.67	41.45	42.11	42.67	
8	41.54	41.33	41.59	41.78	43.73	42.28	42.29	41.90	41.64	41.40	42.18	42.76	
9	41.39	41.30	41.55	41.76	43.29	42.37	42.00	41.74	41.68	41.49	42.24	42.61	
10	41.45	41.39	41.58	41.78	43.14	42.33	41.83	41.64	41.75	41.34	42.15	42.83	
11	41.41	41.30	41.49	41.84	43.01	42.61	41.75	41.60	41.74	41.73	42.20	43.03	
12	41.39	41.30	41.78	41.89	42.87	42.48	42.01	41.58	41.71	41.62	42.20	43.38	
13	41.46	41.25	41.67	41.85	42.82	42.50	42.28	41.57	41.71	41.62	42.18	43.13	
14	41.49	41.27	41.64	41.76	42.75	42.30	42.22	41.55	41.72	41.60	42.14	42.68	
15	41.52	41.36	41.81	41.68	42.90	42.26	42.22	41.58	41.72	41.56	42.25	43.17	
16	41.49	41.38	42.05	41.76	42.73	42.38	42.63	41.73	41.76	41.61	42.12	43.16	
17	41.41	41.39	42.05	41.65	42.68	42.35	43.39	41.82	41.86	41.55	42.20	43.05	
18	41.44	41.42	41.91	41.70	42.62	42.28	44.26	41.77	41.69	41.73	42.26	42.87	
19	41.39	41.39	41.87	41.77	42.49	43.08	43.08	41.70	41.76	41.76	42.26	43.23	
20	41.44	41.37	41.57	43.63	42.48	42.86	42.72	41.82	41.75	41.73	42.47	43.25	
21	41.35	41.41	41.63	42.96	42.69	43.82	42.52	41.74	41.67	41.71	42.39	43.11	
22	41.37	41.38	41.77	42.56	42.68	44.78	42.25	41.73	41.66	41.74	42.38	43.47	
23	41.31	41.37	41.61	42.60	42.56	44.02	42.56	41.67	41.69	41.76	42.47	43.30	
24	41.27	41.70	41.71	42.70	42.63	43.10	42.84	41.64	41.81	41.73	42.36	43.33	
25	41.35	41.54	41.66	43.08	42.85	42.71	42.48	41.68	41.51	41.80	42.38	43.37	
26	41.39	41.56	41.72	43.53	42.80	42.63	42.12	41.65	41.71	41.67	42.37	43.38	
27	41.42	41.56	41.57	43.73	42.85	42.95	41.97	41.61	41.66	41.71	42.44	43.28	
28	41.34	41.50	41.57	44.73	42.86	42.98	41.89	41.60	41.70	41.67	42.26	42.81	
29	41.48	41.53	41.67	44.86	42.83	42.74	41.93	41.62	41.65	41.72		43.34	
30	41.73	41.59	41.69	43.69	42.83	42.31	41.95	41.61	41.66	41.69		43.22	
31		41.49		42.93	43.09		41.92		41.64	41.71		43.33	
Mean	41.45	41.41	41.64	42.40	42.91	42.84	42.24	41.73	41.68	41.64	42.23	43.01	
Max	41.73	41.78	42.05	44.86	44.22	44.78	44.26	42.04	41.86	41.80	42.47	43.47	44.86
Min	41.27	41.25	41.34	41.60	42.28	42.26	41.24	41.55	41.51	41.34	41.95	42.51	41.24
Annual Max Momentary Gage Height	45.34		m. (MSL.) ,				at 20.00 Hours , on Jul 28, 2021						
Zero Gage at Bottom Elevation	39.50		m. (MSL.) ,			River Bed	36.66	m. (MSL)					
Left Bank Elevation	57.55		m. (MSL.) ,										
Right Bank Elevation	55.85		m. (MSL.) ,			Drainage Are	6,727	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	114.50	140.50	110.60	139.50	223.45	327.50	155.50	167.10	119.50	130.50	157.50	229.20		
2	108.70	111.55	108.70	122.50	194.70	361.25	157.50	153.50	120.50	130.50	176.30	234.95		
3	119.50	89.70	102.05	130.50	225.75	317.50	125.50	155.50	126.50	126.50	174.00	221.15		
4	103.95	92.55	99.20	136.50	312.50	260.25	137.50	147.50	118.50	139.50	172.85	251.05		
5	123.50	95.40	97.30	138.50	326.25	238.40	103.95	144.50	119.50	112.50	167.10	232.65		
6	116.50	89.70	101.10	141.50	371.25	225.75	87.80	145.50	124.50	103.00	171.70	226.90		
7	113.50	95.40	137.50	146.50	430.00	218.85	200.45	150.50	129.50	107.75	175.15	239.55		
8	116.50	96.35	121.50	140.50	368.75	194.70	195.85	152.50	126.50	103.00	183.20	249.90		
9	102.05	93.50	117.50	138.50	313.75	205.05	162.50	136.50	130.50	111.55	190.10	232.65		
10	107.75	102.05	120.50	140.50	295.00	200.45	145.50	126.50	137.50	97.30	179.75	257.95		
11	103.95	93.50	111.55	146.50	278.75	232.65	137.50	122.50	136.50	135.50	185.50	281.25		
12	102.05	93.50	140.50	151.50	262.55	217.70	163.65	120.50	133.50	124.50	185.50	325.00		
13	108.70	88.75	129.50	147.50	256.80	220.00	194.70	119.50	133.50	124.50	183.20	293.75		
14	111.55	90.65	126.50	138.50	248.75	197.00	187.80	117.50	134.50	122.50	178.60	240.70		
15	114.50	99.20	143.50	130.50	266.00	192.40	187.80	120.50	134.50	118.50	191.25	298.75		
16	111.55	101.10	168.25	138.50	246.45	206.20	234.95	135.50	138.50	123.50	176.30	297.50		
17	103.95	102.05	168.25	127.50	240.70	202.75	326.25	144.50	148.50	117.50	185.50	283.75		
18	106.80	104.90	153.50	132.50	233.80	194.70	435.00	139.50	131.50	135.50	192.40	262.55		
19	102.05	102.05	149.50	139.50	218.85	287.50	287.50	132.50	138.50	138.50	192.40	306.25		
20	106.80	100.15	119.50	356.25	217.70	261.40	245.30	144.50	137.50	135.50	216.55	308.75		
21	98.25	103.95	125.50	272.90	241.85	380.00	222.30	136.50	129.50	133.50	207.35	291.25		
22	100.15	101.10	139.50	226.90	240.70	501.40	191.25	135.50	128.50	136.50	206.20	336.25		
23	94.45	100.15	123.50	231.50	226.90	405.00	226.90	129.50	131.50	138.50	216.55	315.00		
24	90.65	132.50	133.50	243.00	234.95	290.00	259.10	126.50	143.50	135.50	203.90	318.75		
25	98.25	116.50	128.50	287.50	260.25	244.15	217.70	130.50	113.50	142.50	206.20	323.75		
26	102.05	118.50	134.50	343.75	254.50	234.95	176.30	127.50	133.50	129.50	205.05	325.00		
27	104.90	118.50	119.50	368.75	260.25	271.75	159.50	123.50	128.50	133.50	213.10	312.50		
28	97.30	112.50	119.50	494.90	261.40	275.20	151.50	122.50	132.50	129.50	192.40	255.65		
29	110.60	115.50	129.50	511.80	257.95	247.60	155.50	124.50	127.50	134.50		320.00		
30	135.50	121.50	131.50	363.75	257.95	198.15	157.50	123.50	128.50	131.50		305.00		
31	111.55			269.45	288.75		154.50		126.50	133.50		318.75		
Total	3230.45	3234.80	3811.50	6597.95	8317.20	7810.20	5944.55	4056.60	4043.50	3916.60	5285.60	8696.10	64945.05	CMSDAY
Mean	107.68	104.35	127.05	212.84	268.30	260.34	191.76	135.22	130.44	126.34	188.77	280.52	177.93	CMS
Max	135.50	140.50	168.25	511.80	430.00	501.40	435.00	167.10	148.50	142.50	216.55	336.25	511.80	CMS
Min	90.65	88.75	97.30	122.50	194.70	192.40	87.80	117.50	113.50	97.30	157.50	221.15	87.80	CMS
Runoff	279.11	279.49	329.31	570.06	718.61	674.80	513.61	350.49	349.36	338.39	456.68	751.34	5611.25	MCM
Momentary Peak		574.20	CMS. at 45.34 m. (MSL.)											at 20.00 Hours , on Jul 28, 2021
Runoff Yield		26.45	Liters/Second/Square KM.					85.36						Liters/Second/Square KM.





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	2.35	0.48	0.64	3.59	6.40	3.68	4.13	1.16	0.80	0.56	0.30	
2	0.24	0.76	0.40	0.64	1.76	5.52	3.10	3.59	1.16	0.76	0.52	0.30	
3	0.24	0.60	0.38	0.60	2.07	3.50	7.98	3.02	1.16	0.76	0.52	0.30	
4	0.40	0.52	0.44	0.56	2.78	3.42	8.96	2.78	1.16	0.76	0.52	0.28	
5	0.34	0.44	0.40	0.52	2.21	3.95	4.85	2.63	1.16	0.76	0.52	0.28	
6	0.30	0.44	0.40	0.52	1.88	2.86	8.96	2.42	1.10	0.76	0.48	0.28	
7	0.40	0.40	0.48	0.56	1.10	2.63	5.52	2.35	1.10	0.76	0.48	0.30	
8	0.68	0.40	0.52	0.64	0.64	3.26	3.42	2.35	1.10	0.72	0.48	0.40	
9	0.64	0.86	0.52	0.68	0.44	2.42	3.26	2.21	1.10	0.72	0.48	0.38	
10	0.56	0.56	0.52	0.76	0.40	2.07	2.78	2.14	1.04	0.72	0.44	0.34	
11	0.56	0.48	0.86	1.16	0.32	2.49	2.35	2.14	1.04	0.72	0.40	0.30	
12	0.60	0.44	0.98	1.22	0.26	2.35	2.21	2.14	0.98	0.72	0.38	0.28	
13	0.56	0.56	0.72	1.40	0.26	1.94	2.63	2.07	0.98	0.72	0.38	0.28	
14	0.86	0.56	0.80	0.92	0.28	1.94	2.56	2.07	0.98	0.68	0.38	0.28	
15	0.48	0.52	2.14	0.92	0.24	1.82	3.34	2.07	0.98	0.68	0.38	0.26	
16	0.40	0.48	2.00	3.02	0.24	1.82	3.86	2.00	0.98	0.68	0.40	0.26	
17	0.40	0.48	1.52	1.82	0.20	1.94	20.64	2.00	0.98	0.68	0.44	0.24	
18	0.44	0.48	1.22	1.94	0.16	1.88	8.10	1.94	0.92	0.68	0.48	0.26	
19	0.48	0.40	0.92	9.87	0.12	3.10	5.41	1.70	0.92	0.68	0.60	0.26	
20	0.38	0.36	0.76	10.77	0.08	2.94	4.40	1.46	0.92	0.68	0.56	0.28	
21	0.36	0.36	0.72	4.31	0.20	7.50	3.77	1.52	0.86	0.72	0.56	0.30	
22	0.36	0.36	0.68	5.21	0.24	7.28	3.95	1.46	0.86	0.76	0.48	0.30	
23	0.36	0.36	0.68	12.91	0.08	6.51	5.21	1.40	0.86	0.76	0.48	0.34	
24	0.36	0.38	0.68	6.51	0.06	3.50	8.22	1.40	0.86	0.72	0.40	0.34	
25	0.34	0.36	0.64	11.69	0.14	3.26	4.58	1.34	0.92	0.68	0.44	0.32	
26	0.34	0.48	0.68	13.22	0.30	10.00	3.77	1.28	0.92	0.68	0.38	0.28	
27	0.34	0.48	0.64	14.45	4.31	7.86	3.34	1.28	0.92	0.60	0.36	0.26	
28	0.34	0.56	1.10	6.29	3.02	5.03	3.10	1.22	0.86	0.60	0.32	0.26	
29	0.92	0.60	0.86	4.22	2.28	3.95	2.94	1.16	0.86	0.56	0.32	0.24	
30	1.22	0.52	0.72	2.56	2.94	3.34	2.94	1.16	0.80	0.56	0.32	0.24	
31		0.48		3.10	6.18		5.12		0.80	0.56		0.24	
<b>Total</b>	14.14	17.03	23.86	123.63	38.78	116.48	154.95	60.43	30.44	21.64	12.82	8.98	623.18 CMSDAY
<b>Mean</b>	0.47	0.55	0.80	3.99	1.25	3.88	5.00	2.01	0.98	0.70	0.46	0.29	1.71 CMS
<b>Max</b>	1.22	2.35	2.14	14.45	6.18	10.00	20.64	4.13	1.16	0.80	0.60	0.40	20.64 CMS
<b>Min</b>	0.24	0.36	0.38	0.52	0.06	1.82	2.21	1.16	0.80	0.56	0.32	0.24	0.06 CMS
<b>Runoff</b>	1.22	1.47	2.06	10.68	3.35	10.06	13.39	5.22	2.63	1.87	1.11	0.78	53.84 MCM
<b>Momentary Peak</b>	36.86 CMS. at 76.88 m. (MSL.) at 22.00 Hours , on Jul 19, 2021												
<b>Runoff Yield</b>	12.93 Liters/Second/Square KM.			Momentary Peak Yield			279.24 Liters/Second/Square KM.						

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

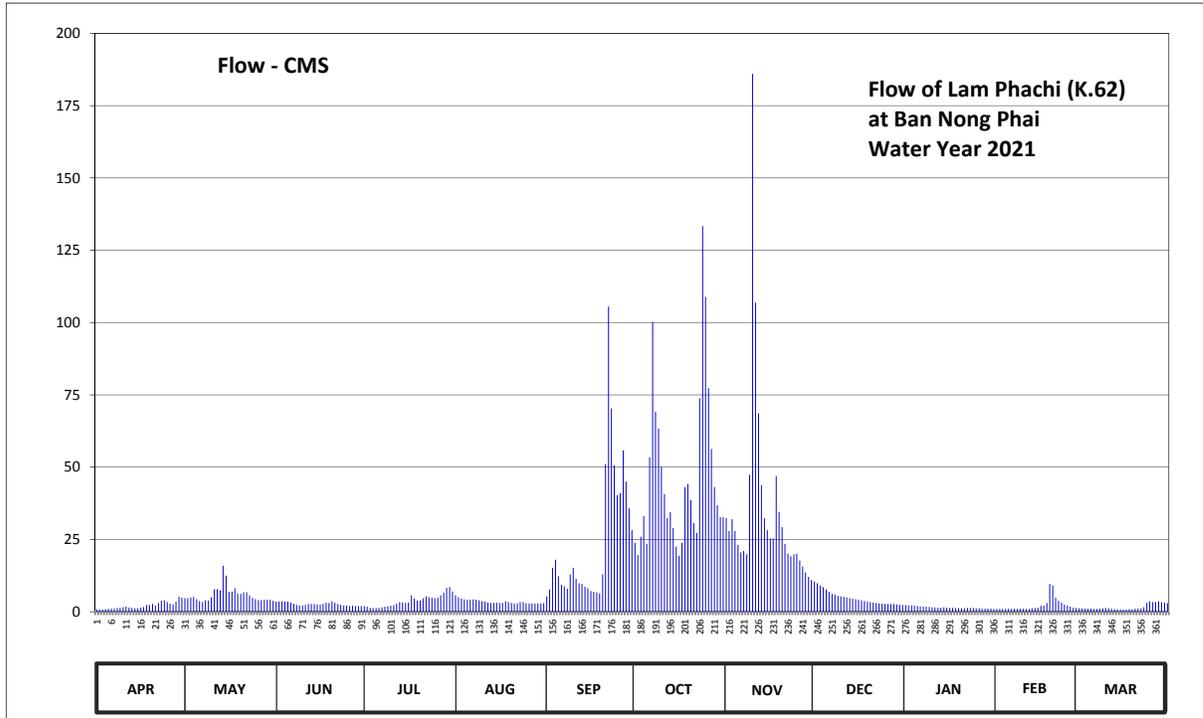
Lat 13 - 46 - 52 N Long 99 - 25 - 16 E

Location : on left bank at Ban Nong Phai.

	<b>Ban Nong Phai</b>	<b>Amphoe</b> Dan Makham Tia	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	2,234 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+49.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+55.243 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.85	49.40	49.26	49.07	49.51	49.47	50.39	50.65	49.84	49.11	48.88	48.95	
2	48.85	49.40	49.26	49.04	49.44	49.66	50.24	50.52	49.81	49.10	48.88	48.93	
3	48.84	49.43	49.27	48.99	49.38	50.05	50.46	50.64	49.76	49.10	48.88	48.92	
4	48.86	49.45	49.26	48.96	49.35	50.17	50.67	50.52	49.72	49.08	48.89	48.90	
5	48.90	49.36	49.26	48.96	49.34	49.92	50.38	50.37	49.66	49.07	48.89	48.89	
6	48.91	49.28	49.21	48.98	49.34	49.78	51.19	50.28	49.60	49.06	48.90	48.87	
7	48.93	49.24	49.16	49.02	49.35	49.74	52.05	50.30	49.55	49.05	48.92	48.87	
8	48.97	49.31	49.12	49.04	49.34	49.68	51.52	50.25	49.53	49.04	48.90	48.90	
9	48.99	49.30	49.10	49.06	49.31	49.95	51.40	51.06	49.49	49.03	48.89	48.93	
10	49.02	49.44	49.09	49.08	49.27	50.05	51.12	53.14	49.47	49.02	48.88	48.97	
11	49.04	49.67	49.12	49.11	49.26	49.88	50.89	52.15	49.45	49.01	48.87	48.95	
12	49.01	49.67	49.16	49.17	49.22	49.81	50.65	51.51	49.43	48.99	48.87	48.90	
13	48.98	49.64	49.16	49.24	49.20	49.80	50.71	50.98	49.40	48.99	48.95	48.87	
14	48.95	50.08	49.16	49.22	49.20	49.73	50.55	50.65	49.38	49.02	48.96	48.85	
15	48.95	49.93	49.13	49.20	49.21	49.69	50.35	50.53	49.36	48.99	48.99	48.84	
16	49.00	49.60	49.13	49.22	49.19	49.62	50.23	50.44	49.33	48.98	49.08	48.83	
17	49.03	49.61	49.16	49.51	49.20	49.60	50.39	50.44	49.31	48.97	49.09	48.82	
18	49.12	49.69	49.21	49.39	49.27	49.59	50.96	51.05	49.28	48.96	49.20	48.87	
19	49.11	49.56	49.20	49.30	49.24	49.56	50.99	50.71	49.26	48.96	49.80	48.85	
20	49.16	49.55	49.27	49.30	49.20	49.95	50.83	50.56	49.24	48.94	49.76	48.89	
21	49.09	49.59	49.21	49.40	49.18	51.14	50.60	50.38	49.22	48.94	49.42	48.92	
22	49.20	49.59	49.16	49.48	49.18	52.13	50.50	50.26	49.20	48.98	49.29	48.93	
23	49.30	49.51	49.12	49.44	49.24	51.54	51.60	50.22	49.18	48.99	49.21	49.02	
24	49.31	49.41	49.09	49.41	49.24	51.13	52.54	50.25	49.17	48.97	49.13	49.21	
25	49.24	49.36	49.08	49.39	49.19	50.88	52.18	50.26	49.16	48.95	49.09	49.27	
26	49.17	49.32	49.07	49.42	49.18	50.90	51.66	50.16	49.16	48.94	49.04	49.24	
27	49.14	49.32	49.08	49.51	49.18	51.24	51.25	50.07	49.15	48.92	49.00	49.24	
28	49.25	49.34	49.07	49.58	49.17	51.01	50.96	49.98	49.15	48.92	48.98	49.27	
29	49.46	49.34	49.07	49.70	49.17	50.75	50.78	49.91	49.14	48.92		49.23	
30	49.42	49.33	49.07	49.72	49.18	50.53	50.66	49.86	49.12	48.91		49.22	
31		49.29		49.61	49.19		50.66		49.11	48.87		49.19	
Mean	49.07	49.48	49.16	49.27	49.26	50.23	50.95	50.60	49.38	48.99	49.06	48.99	
Max	49.46	50.08	49.27	49.72	49.51	52.13	52.54	53.14	49.84	49.11	49.80	49.27	53.14
Min	48.84	49.24	49.07	48.96	49.17	49.47	50.23	49.86	49.11	48.87	48.87	48.82	48.82
Annual Max Momentary Gage Height	53.41		m. (MSL.) ,				at 05.00 Hours ,						on Nov 10, 2021
Zero Gage at Bottom Elevation	49.00		m. (MSL.) ,			River Bed	48.65	m. (MSL.)					
Left Bank Elevation		55.03		m. (MSL.) ,									
Right Bank Elevation		55.03		m. (MSL.) ,		Drainage Are	2,234	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.88	4.68	3.53	1.97	5.64	5.25	23.79	32.35	10.48	2.30	0.98	1.23	
2	0.88	4.68	3.53	1.73	5.01	7.69	19.60	27.89	9.82	2.22	0.98	1.16	
3	0.84	4.93	3.61	1.37	4.52	15.17	25.96	32.01	9.05	2.22	0.98	1.12	
4	0.91	5.09	3.53	1.26	4.27	17.97	33.04	27.89	8.51	2.06	1.02	1.05	
5	1.05	4.35	3.53	1.26	4.19	12.24	23.48	23.17	7.69	1.97	1.02	1.02	
6	1.09	3.70	3.12	1.33	4.19	9.33	53.43	20.53	6.87	1.89	1.05	0.95	
7	1.16	3.37	2.71	1.56	4.27	8.78	100.30	21.00	6.18	1.81	1.12	0.95	
8	1.30	3.94	2.38	1.73	4.19	7.96	69.16	19.83	5.91	1.73	1.05	1.05	
9	1.37	3.86	2.22	1.89	3.94	12.90	63.30	47.32	5.42	1.65	1.02	1.16	
10	1.56	5.01	2.14	2.06	3.61	15.17	50.14	186.00	5.25	1.56	0.98	1.30	
11	1.73	7.82	2.38	2.30	3.53	11.36	40.65	106.90	5.09	1.48	0.95	1.23	
12	1.48	7.82	2.71	2.79	3.20	9.82	32.35	68.58	4.93	1.37	0.95	1.05	
13	1.33	7.41	2.71	3.37	3.04	9.60	34.41	43.80	4.68	1.37	1.23	0.95	
14	1.23	15.87	2.71	3.20	3.04	8.64	28.92	32.35	4.52	1.56	1.26	0.88	
15	1.23	12.46	2.47	3.04	3.12	8.10	22.55	28.23	4.35	1.37	1.37	0.84	
16	1.40	6.87	2.47	3.20	2.96	7.14	19.37	25.34	4.11	1.33	2.06	0.81	
17	1.65	7.00	2.71	5.64	3.04	6.87	23.79	25.34	3.94	1.30	2.14	0.77	
18	2.38	8.10	3.12	4.60	3.61	6.73	43.10	46.85	3.70	1.26	3.04	0.95	
19	2.30	6.32	3.04	3.86	3.37	6.32	44.15	34.41	3.53	1.26	9.60	0.88	
20	2.71	6.18	3.61	3.86	3.04	12.90	38.55	29.26	3.37	1.19	9.05	1.02	
21	2.14	6.73	3.12	4.68	2.88	51.08	30.63	23.48	3.20	1.19	4.84	1.12	
22	3.04	6.73	2.71	5.34	2.88	105.58	27.20	20.07	3.04	1.33	3.78	1.16	
23	3.86	5.64	2.38	5.01	3.37	70.32	73.80	19.13	2.88	1.37	3.12	1.56	
24	3.94	4.76	2.14	4.76	3.37	50.61	133.36	19.83	2.79	1.30	2.47	3.12	
25	3.37	4.35	2.06	4.60	2.96	40.30	108.88	20.07	2.71	1.23	2.14	3.61	
26	2.79	4.02	1.97	4.84	2.88	41.00	77.28	17.73	2.71	1.19	1.73	3.37	
27	2.55	4.02	2.06	5.64	2.88	55.78	56.25	15.63	2.63	1.12	1.40	3.37	
28	3.45	4.19	1.97	6.59	2.79	44.97	43.10	13.56	2.63	1.12	1.33	3.61	
29	5.17	4.19	1.97	8.23	2.79	35.78	36.81	12.02	2.55	1.12		3.29	
30	4.84	4.11	1.97	8.51	2.88	28.23	32.69	10.92	2.38	1.09		3.20	
31		3.78		7.00	2.96		32.69		2.30	0.95		2.96	
<b>Total</b>	63.63	181.98	80.58	117.22	108.42	723.59	1442.73	1051.49	147.22	45.91	62.66	50.74	4076.17 CMSDAY
<b>Mean</b>	2.12	5.87	2.69	3.78	3.50	24.12	46.54	35.05	4.75	1.48	2.24	1.64	11.17 CMS
<b>Max</b>	5.17	15.87	3.61	8.51	5.64	105.58	133.36	186.00	10.48	2.30	9.60	3.61	186.00 CMS
<b>Min</b>	0.84	3.37	1.97	1.26	2.79	5.25	19.37	10.92	2.30	0.95	0.95	0.77	0.77 CMS
<b>Runoff</b>	5.50	15.72	6.96	10.13	9.37	62.52	124.65	90.85	12.72	3.97	5.41	4.38	352.18 MCM
<b>Momentary Peak</b>	213.00 CMS. at 53.41 m. (MSL.) at 05.00 Hours , on Nov 10, 2021												
<b>Runoff Yield</b>	5.00 Liters/Second/Square KM.			Momentary Peak Yield			95.34 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Prachin Buri River at Ban Kabin Buri , Prachin Buri (Kgt.3)

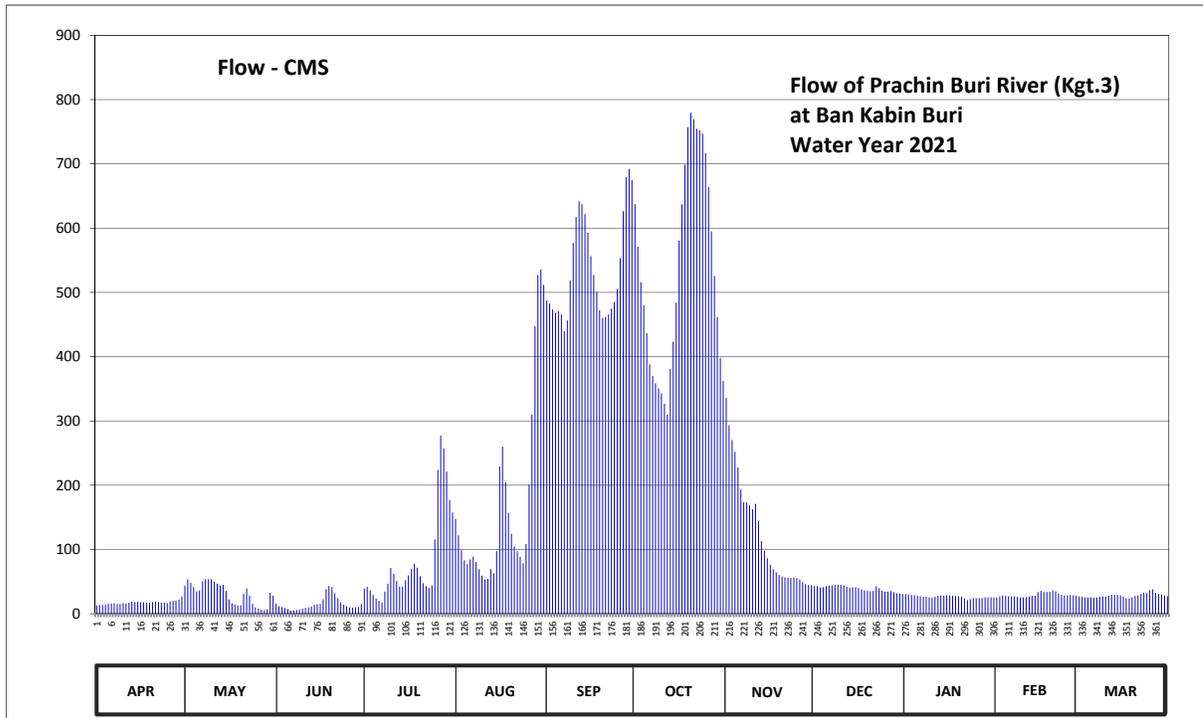
Lat 13 - 59 - 12 N Long 101 - 42 - 19 E

Location : on left bank in front of Amphoe Kabin Buri Office and about 500 meters downstream from the confluence of Lam Phra Prong.

	<b>Ban Kabin Buri</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	7,434 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5 meters from the top staff gage.	<b>Elevation</b>	+11.410 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00,12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1941 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1941 - 1943 , 1945, 1964 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1941 - 1943 , 1945, 1964 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 9.66 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 55 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.64	1.66	0.73	1.50	4.23	8.76	9.66	7.27	1.64	1.22	1.04	1.10	
2	0.65	2.00	0.58	1.60	3.72	8.72	9.33	6.72	1.63	1.20	1.10	1.07	
3	0.66	1.81	0.52	1.41	3.17	8.65	8.97	6.39	1.56	1.17	1.15	1.05	
4	0.68	1.59	0.45	1.18	2.78	8.61	8.70	6.10	1.58	1.16	1.13	1.04	
5	0.71	1.36	0.36	0.98	2.63	8.63	8.34	5.69	1.63	1.13	1.11	1.05	
6	0.73	1.41	0.25	0.88	2.81	8.59	7.88	5.12	1.66	1.11	1.11	1.03	
7	0.74	1.89	0.26	0.79	2.92	8.37	7.68	4.75	1.67	1.08	1.10	1.04	
8	0.71	1.99	0.29	1.35	2.71	8.52	7.55	4.74	1.71	1.08	1.07	1.08	
9	0.70	1.99	0.33	1.76	2.43	8.99	7.46	4.65	1.70	1.05	1.04	1.11	
10	0.75	1.99	0.39	2.48	2.18	9.36	7.36	4.53	1.69	1.04	1.05	1.09	
11	0.73	1.86	0.46	2.25	1.97	9.57	7.16	4.70	1.67	1.07	1.06	1.13	
12	0.77	1.76	0.50	1.90	2.01	9.68	6.95	4.16	1.60	1.13	1.08	1.18	
13	0.83	1.67	0.55	1.61	2.43	9.66	7.80	3.53	1.55	1.15	1.13	1.19	
14	0.80	1.70	0.66	1.60	2.28	9.59	8.22	3.15	1.57	1.14	1.14	1.18	
15	0.82	1.39	0.69	1.94	3.13	9.45	8.73	2.86	1.58	1.16	1.32	1.15	
16	0.80	0.94	0.70	2.19	5.72	9.24	9.38	2.60	1.54	1.14	1.39	1.08	
17	0.79	0.73	0.95	2.44	6.23	9.05	9.66	2.43	1.46	1.14	1.33	1.01	
18	0.78	0.68	1.47	2.65	5.31	8.86	9.94	2.30	1.41	1.12	1.33	1.00	
19	0.78	0.63	1.64	2.49	4.42	8.64	10.18	2.21	1.40	1.11	1.35	1.05	
20	0.80	0.64	1.58	2.15	3.77	8.55	10.27	2.13	1.37	1.09	1.42	1.12	
21	0.83	1.22	1.25	1.78	3.32	8.56	10.23	2.09	1.39	1.00	1.36	1.15	
22	0.81	1.52	1.01	1.63	3.13	8.59	10.17	2.07	1.63	0.91	1.25	1.22	
23	0.78	1.14	0.79	1.54	2.92	8.66	10.16	2.06	1.52	0.96	1.18	1.30	
24	0.77	0.71	0.67	1.67	2.66	8.74	10.14	2.08	1.40	1.01	1.14	1.27	
25	0.75	0.50	0.58	3.59	3.41	8.89	10.02	2.05	1.35	1.01	1.15	1.42	
26	0.84	0.40	0.49	5.63	5.25	9.22	9.78	1.98	1.35	1.01	1.17	1.47	
27	0.88	0.32	0.48	6.49	6.95	9.61	9.46	1.84	1.38	1.02	1.16	1.29	
28	0.89	0.29	0.51	6.19	8.44	9.85	9.04	1.74	1.32	1.05	1.14	1.22	
29	0.93	0.34	0.52	5.59	9.05	9.91	8.56	1.69	1.26	1.06		1.19	
30	1.10	1.29	0.71	4.82	9.11	9.83	7.98	1.68	1.24	1.06		1.15	
31		1.14		4.43	8.94		7.59		1.22	1.04		1.11	
Mean	0.78	1.24	0.68	2.53	4.19	9.04	8.85	3.51	1.51	1.08	1.18	1.15	
Max	1.10	2.00	1.64	6.49	9.11	9.91	10.27	7.27	1.71	1.22	1.42	1.47	10.27
Min	0.64	0.29	0.25	0.79	1.97	8.37	6.95	1.68	1.22	0.91	1.04	1.00	0.25
Annual Max Momentary Gage Height	10.29		m. (MSL.) ,				at 09.00 Hours, on Oct 20, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-1.25	m. (MSL.)					
Left Bank Elevation	10.30		m. (MSL.) ,										
Right Bank Elevation	9.65		m. (MSL.) ,			Drainage Are	7,434	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.20	43.80	15.90	39.00	147.50	487.80	637.20	335.60	43.20	30.60	25.20	27.00	
2	13.50	54.00	11.60	42.00	122.00	482.60	571.40	293.40	42.90	30.00	27.00	26.10	
3	13.80	48.30	10.40	36.30	98.80	473.50	515.80	270.30	40.80	29.10	28.50	25.50	
4	14.40	41.70	9.00	29.40	83.20	468.30	480.00	252.00	41.40	28.80	27.90	25.20	
5	15.30	34.80	7.20	23.40	77.20	470.90	436.40	227.40	42.90	27.90	27.30	25.50	
6	15.90	36.30	5.00	20.40	84.40	465.70	388.20	193.20	43.80	27.30	27.30	24.90	
7	16.20	50.70	5.20	17.70	88.80	439.70	370.20	173.50	44.10	26.40	27.00	25.20	
8	15.30	53.70	5.80	34.50	80.40	456.60	358.50	173.00	45.30	26.40	26.10	26.40	
9	15.00	53.70	6.60	46.80	69.20	518.60	350.80	168.50	45.00	25.50	25.20	27.30	
10	16.50	53.70	7.80	71.20	59.40	576.80	342.80	162.50	44.70	25.20	25.50	26.70	
11	15.90	49.80	9.20	62.00	53.10	617.40	326.80	171.00	44.10	26.10	25.80	27.90	
12	17.10	46.80	10.00	51.00	54.30	641.60	310.00	144.00	42.00	27.90	26.40	29.40	
13	18.90	44.10	11.00	42.30	69.20	637.20	381.00	113.20	40.50	28.50	27.90	29.70	
14	18.00	45.00	13.80	42.00	63.20	621.80	423.20	98.00	41.10	28.20	28.20	29.40	
15	18.60	35.70	14.70	52.20	97.20	593.00	483.90	86.40	41.40	28.80	33.60	28.50	
16	18.00	22.20	15.00	59.70	229.20	556.40	580.40	76.00	40.20	28.20	35.70	26.40	
17	17.70	15.90	22.50	69.60	259.80	527.00	637.20	69.20	37.80	28.20	33.90	24.30	
18	17.40	14.40	38.10	78.00	204.60	500.80	698.80	64.00	36.30	27.60	33.90	24.00	
19	17.40	12.90	43.20	71.60	157.00	472.20	757.00	60.40	36.00	27.30	34.50	25.50	
20	18.00	13.20	41.40	58.50	124.50	460.50	779.50	57.90	35.10	26.70	36.60	27.60	
21	18.90	30.60	31.50	47.40	104.80	461.80	769.50	56.70	35.70	24.00	34.80	28.50	
22	18.30	39.60	24.30	42.90	97.20	465.70	754.50	56.10	42.90	21.30	31.50	30.60	
23	17.40	28.20	17.70	40.20	88.80	474.80	752.00	55.80	39.60	22.80	29.40	33.00	
24	17.10	15.30	14.10	44.10	78.40	485.20	747.00	56.40	36.00	24.30	28.20	32.10	
25	16.50	10.00	11.60	115.60	108.40	504.70	717.00	55.50	34.50	24.30	28.50	36.60	
26	19.20	8.00	9.80	223.80	201.00	553.20	663.60	53.40	34.50	24.30	29.10	38.10	
27	20.40	6.40	9.60	277.30	310.00	626.20	594.80	49.20	35.40	24.60	28.80	32.70	
28	20.70	5.80	10.20	257.40	447.40	679.00	525.60	46.20	33.60	25.50	28.20	30.60	
29	21.90	6.80	10.40	221.40	527.00	692.20	461.80	44.70	31.80	25.80		29.70	
30	27.00	32.70	15.30	177.00	535.60	674.60	398.00	44.40	31.20	25.80		28.50	
31		28.20		157.50	511.60		362.10		30.60	25.20		27.30	
<b>Total</b>	<b>523.50</b>	<b>982.30</b>	<b>457.90</b>	<b>2552.20</b>	<b>5233.20</b>	<b>16085.80</b>	<b>16575.00</b>	<b>3707.90</b>	<b>1214.40</b>	<b>822.60</b>	<b>822.00</b>	<b>880.20</b>	<b>49857.00</b> CMSDAY
<b>Mean</b>	<b>17.45</b>	<b>31.69</b>	<b>15.26</b>	<b>82.33</b>	<b>168.81</b>	<b>536.19</b>	<b>534.68</b>	<b>123.60</b>	<b>39.17</b>	<b>26.54</b>	<b>29.36</b>	<b>28.39</b>	<b>136.59</b> CMS
<b>Max</b>	<b>27.00</b>	<b>54.00</b>	<b>43.20</b>	<b>277.30</b>	<b>535.60</b>	<b>692.20</b>	<b>779.50</b>	<b>335.60</b>	<b>45.30</b>	<b>30.60</b>	<b>36.60</b>	<b>38.10</b>	<b>779.50</b> CMS
<b>Min</b>	<b>13.20</b>	<b>5.80</b>	<b>5.00</b>	<b>17.70</b>	<b>53.10</b>	<b>439.70</b>	<b>310.00</b>	<b>44.40</b>	<b>30.60</b>	<b>21.30</b>	<b>25.20</b>	<b>24.00</b>	<b>5.00</b> CMS
<b>Runoff</b>	<b>45.23</b>	<b>84.87</b>	<b>39.56</b>	<b>220.51</b>	<b>452.15</b>	<b>1389.81</b>	<b>1432.08</b>	<b>320.36</b>	<b>104.92</b>	<b>71.07</b>	<b>71.02</b>	<b>76.05</b>	<b>4307.64</b> MCM
<b>Momentary Peak</b>	<b>784.50</b>	<b>CMS, at 10.29 m. (MSL.), at 09.00 Hours, on Oct 20, 2021</b>											
<b>Runoff Yield</b>	<b>18.37</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>105.53</b>	<b>Liters/Second/Square KM.</b>						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Khao Chakan , Sa Kao (Kgt.9)

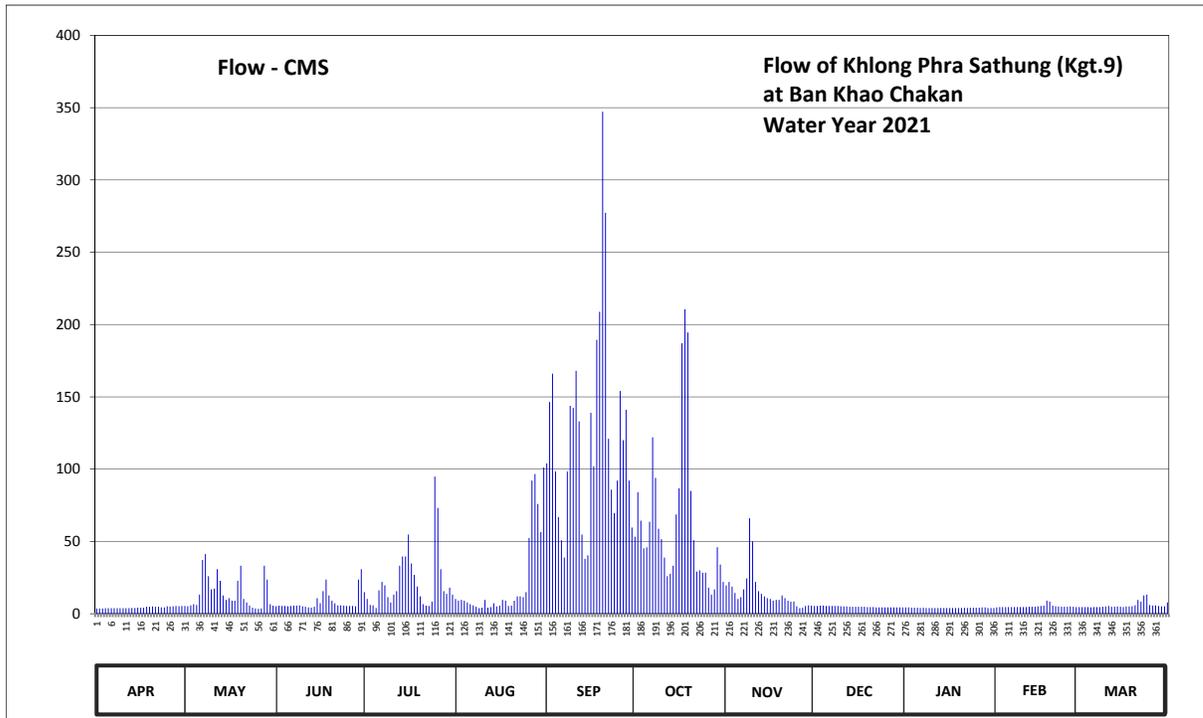
Lat 13 - 40 - 10 N Long 102 - 04 - 29 E

Location : on right bank near Wat Khao Chakan.

	<b>Ban</b>	<b>Khao Chakan</b>	<b>Amphoe</b>	<b>Khao Chakan</b>	<b>Changwat</b>	<b>Sa Kao</b>
<b>Drainage Area</b>	2,273	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+39.566	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 10 meters from the automatic gage building.				<b>Elevation</b>	+50.745 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1972 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1972 - 1987 , 1989 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1972 - 1987 , 1989 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 53 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.28	43.37	43.36	43.55	43.47	44.62	44.04	43.62	43.37	43.32	43.32	43.33	
2	43.28	43.36	43.38	43.47	43.45	45.16	44.40	43.65	43.37	43.32	43.33	43.33	
3	43.28	43.39	43.37	43.40	43.46	45.56	44.18	43.61	43.38	43.31	43.33	43.33	
4	43.29	43.41	43.37	43.39	43.45	44.56	43.94	43.54	43.38	43.31	43.33	43.33	
5	43.29	43.40	43.36	43.30	43.43	44.21	43.95	43.47	43.37	43.31	43.33	43.32	
6	43.29	43.52	43.37	43.57	43.41	44.01	44.17	43.49	43.37	43.30	43.33	43.33	
7	43.29	43.84	43.38	43.65	43.39	43.86	44.80	43.58	43.37	43.31	43.33	43.33	
8	43.29	43.89	43.38	43.62	43.34	44.56	44.51	43.68	43.37	43.30	43.33	43.33	
9	43.29	43.70	43.39	43.49	43.29	45.09	44.11	44.20	43.37	43.30	43.33	43.34	
10	43.29	43.58	43.36	43.43	43.31	45.02	44.02	44.00	43.36	43.30	43.33	43.35	
11	43.29	43.59	43.34	43.52	43.46	45.60	43.86	43.65	43.35	43.30	43.33	43.37	
12	43.29	43.76	43.32	43.56	43.31	44.91	43.70	43.56	43.35	43.30	43.34	43.34	
13	43.30	43.66	43.31	43.79	43.33	44.06	43.72	43.53	43.34	43.30	43.34	43.34	
14	43.30	43.51	43.34	43.87	43.42	43.85	43.79	43.50	43.34	43.30	43.34	43.35	
15	43.31	43.46	43.48	43.87	43.35	43.88	44.23	43.48	43.34	43.30	43.36	43.34	
16	43.31	43.48	43.42	44.06	43.38	44.97	44.43	43.47	43.34	43.30	43.37	43.33	
17	43.31	43.45	43.56	43.81	43.46	44.60	45.98	43.45	43.34	43.30	43.38	43.35	
18	43.34	43.45	43.67	43.71	43.45	46.03	46.41	43.46	43.34	43.30	43.45	43.35	
19	43.34	43.66	43.51	43.61	43.37	46.38	46.13	43.46	43.33	43.30	43.44	43.36	
20	43.35	43.79	43.45	43.50	43.38	48.39	44.41	43.51	43.33	43.30	43.38	43.39	
21	43.34	43.47	43.42	43.41	43.45	47.49	44.01	43.48	43.33	43.31	43.36	43.46	
22	43.34	43.43	43.39	43.38	43.50	44.79	43.74	43.45	43.32	43.30	43.35	43.44	
23	43.32	43.38	43.39	43.37	43.50	44.42	43.75	43.44	43.32	43.31	43.34	43.51	
24	43.32	43.31	43.38	43.44	43.49	44.24	43.73	43.44	43.32	43.31	43.34	43.52	
25	43.36	43.28	43.37	44.52	43.55	44.49	43.73	43.36	43.32	43.31	43.34	43.40	
26	43.35	43.27	43.37	44.28	44.03	45.32	43.60	43.29	43.32	43.31	43.35	43.38	
27	43.36	43.28	43.37	43.76	44.49	44.78	43.52	43.31	43.32	43.32	43.34	43.39	
28	43.37	43.79	43.36	43.56	44.54	44.99	43.58	43.37	43.32	43.32	43.33	43.37	
29	43.36	43.67	43.67	43.53	44.31	44.49	43.95	43.39	43.32	43.30		43.36	
30	43.37	43.41	43.76	43.60	44.08	44.12	43.80	43.38	43.32	43.30		43.36	
31		43.38		43.52	44.59		43.65		43.32	43.30		43.43	
Mean	43.32	43.51	43.42	43.63	43.59	44.95	44.19	43.53	43.34	43.31	43.35	43.37	
Max	43.37	43.89	43.76	44.52	44.59	48.39	46.41	44.20	43.38	43.32	43.45	43.52	48.39
Min	43.28	43.27	43.31	43.30	43.29	43.85	43.52	43.29	43.32	43.30	43.32	43.32	43.27
Annual Max Momentary Gage Height	48.57		m. (MSL.) ,				at 15.00 Hours, on Sep 20, 2021						
Zero Gage at Bottom Elevation	39.57		m. (MSL.) ,			River Bed	39.26	m. (MSL.)					
Left Bank Elevation	50.19		m. (MSL.) ,										
Right Bank Elevation	50.58		m. (MSL.) ,			Drainage Are	2,273	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.60	5.40	5.20	15.00	10.20	104.00	53.20	19.60	5.40	4.40	4.40	4.60	
2	3.60	5.20	5.60	10.20	9.00	146.40	84.00	22.00	5.40	4.40	4.60	4.60	
3	3.60	5.80	5.40	6.00	9.60	166.00	64.40	18.80	5.60	4.20	4.60	4.60	
4	3.80	6.60	5.40	5.80	9.00	98.40	45.20	14.40	5.60	4.20	4.60	4.60	
5	3.80	6.00	5.20	4.00	7.80	66.90	46.00	10.20	5.40	4.20	4.60	4.40	
6	3.80	13.20	5.40	16.20	6.60	50.80	63.60	11.40	5.40	4.00	4.60	4.60	
7	3.80	37.20	5.60	22.00	5.80	38.80	122.00	16.80	5.40	4.20	4.60	4.60	
8	3.80	41.20	5.60	19.60	4.80	98.40	93.90	24.40	5.40	4.00	4.60	4.60	
9	3.80	26.00	5.80	11.40	3.80	143.80	58.80	66.00	5.40	4.00	4.60	4.80	
10	3.80	16.80	5.20	7.80	4.20	142.40	51.60	50.00	5.20	4.00	4.60	5.00	
11	3.80	17.40	4.80	13.20	9.60	168.00	38.80	22.00	5.00	4.00	4.60	5.40	
12	3.80	30.80	4.40	15.60	4.20	133.00	26.00	15.60	5.00	4.00	4.80	4.80	
13	4.00	22.80	4.20	33.20	4.60	54.80	27.60	13.80	4.80	4.00	4.80	4.80	
14	4.00	12.60	4.80	39.60	7.20	38.00	33.20	12.00	4.80	4.00	4.80	5.00	
15	4.20	9.60	10.80	39.60	5.00	40.40	68.70	10.80	4.80	4.00	5.20	4.80	
16	4.20	10.80	7.20	54.80	5.60	139.00	86.70	10.20	4.80	4.00	5.40	4.60	
17	4.20	9.00	15.60	34.80	9.60	102.00	187.00	9.00	4.80	4.00	5.60	5.00	
18	4.80	9.00	23.60	26.80	9.00	189.50	210.60	9.60	4.80	4.00	9.00	5.00	
19	4.80	22.80	12.60	18.80	5.40	208.80	194.50	9.60	4.60	4.00	8.40	5.20	
20	5.00	33.20	9.00	12.00	5.60	347.20	84.90	12.60	4.60	4.00	5.60	5.80	
21	4.80	10.20	7.20	6.60	9.00	277.30	50.80	10.80	4.60	4.20	5.20	9.60	
22	4.80	7.80	5.80	5.60	12.00	121.00	29.20	9.00	4.40	4.00	5.00	8.40	
23	4.40	5.60	5.80	5.40	12.00	85.80	30.00	8.40	4.40	4.20	4.80	12.60	
24	4.40	4.20	5.60	8.40	11.40	69.60	28.40	8.40	4.40	4.20	4.80	13.20	
25	5.20	3.60	5.40	94.80	15.00	92.10	28.40	5.20	4.40	4.20	4.80	6.00	
26	5.00	3.40	5.40	73.20	52.40	154.00	18.00	3.80	4.40	4.20	5.00	5.60	
27	5.20	3.60	5.40	30.80	92.10	120.00	13.20	4.20	4.40	4.40	4.80	5.80	
28	5.40	33.20	5.20	15.60	96.60	141.00	16.80	5.40	4.40	4.40	4.60	5.40	
29	5.20	23.60	23.60	13.80	75.90	92.10	46.00	5.80	4.40	4.00	4.40	5.20	
30	5.40	6.60	30.80	18.00	56.40	59.60	34.00	5.60	4.40	4.00	4.40	5.20	
31		5.60		13.20	101.10		22.00		4.40	4.00		7.80	
Total	130.00	448.80	251.60	691.80	670.50	3689.10	1957.50	445.40	150.80	127.40	143.00	181.60	8887.50 CMSDAY
Mean	4.33	14.48	8.39	22.32	21.63	122.97	63.15	14.85	4.86	4.11	5.11	5.86	24.35 CMS
Max	5.40	41.20	30.80	94.80	101.10	347.20	210.60	66.00	5.60	4.40	9.00	13.20	347.20 CMS
Min	3.60	3.40	4.20	4.00	3.80	38.00	13.20	3.80	4.40	4.00	4.40	4.40	3.40 CMS
Runoff	11.23	38.78	21.74	59.77	57.93	318.74	169.13	38.48	13.03	11.01	12.36	15.69	767.88 MCM
Momentary Peak	361.60	CMS, at 48.57 m. (MSL), at 15.00 Hours, on Sep 20, 2021											
Runoff Yield	10.71	Liters/Second/Square KM.			Momentary Peak Yield	159.08	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlong Phra Prong at Ban Kaeng , Sa Kao (Kgt.12)

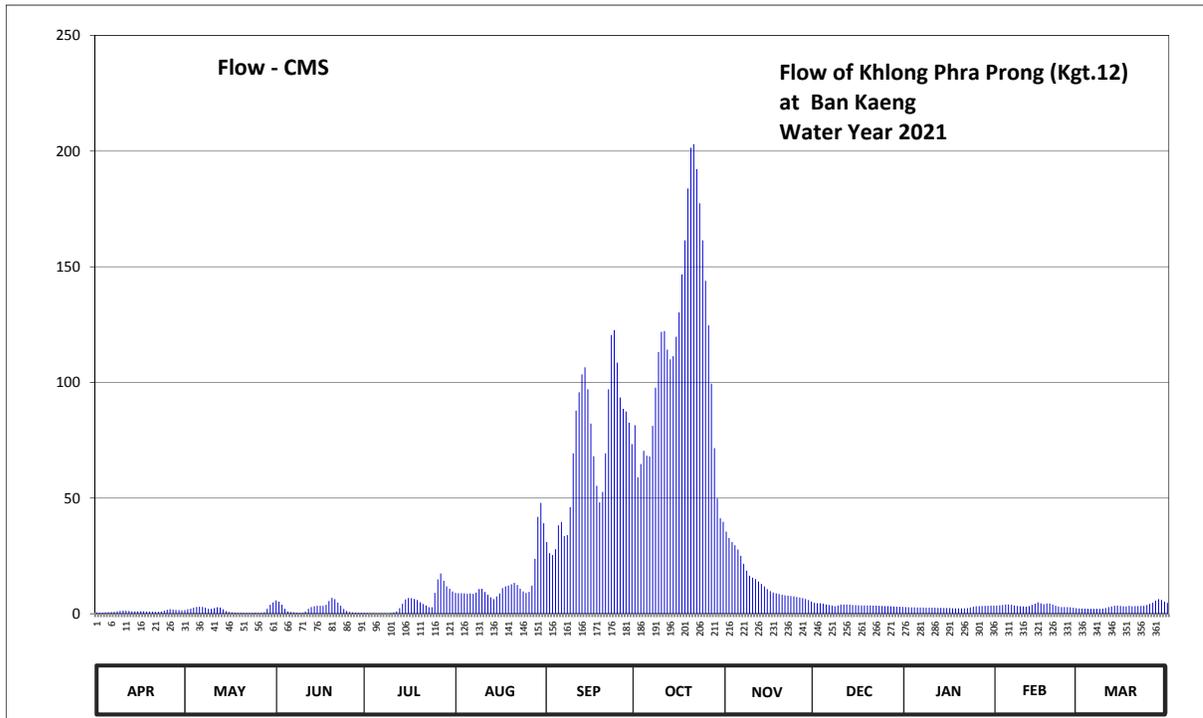
Lat 13 - 56 - 11 N Long 101 - 58 - 20 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	<b>Ban Kaeng</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	1,474 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+13.835 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank in front of the gage observer's house.	<b>Elevation</b>	+24.808 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1966 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1966 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1966 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. The concrete weir situated about 7 kilometers downstream from the gage site. Stage-discharge relation defined by 66 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.01	15.32	16.08	14.97	16.40	18.10	19.50	17.80	15.95	15.58	15.70	15.45	
2	15.00	15.38	16.02	14.94	16.39	17.72	18.74	17.69	15.91	15.56	15.73	15.44	
3	15.00	15.44	15.78	14.92	16.39	17.64	18.94	17.60	15.90	15.55	15.76	15.44	
4	15.03	15.52	15.43	14.90	16.38	17.89	19.13	17.53	15.87	15.55	15.79	15.43	
5	15.06	15.59	15.17	14.89	16.36	18.58	19.06	17.44	15.80	15.54	15.80	15.43	
6	15.09	15.61	15.11	14.89	16.38	18.66	19.05	17.30	15.75	15.54	15.77	15.42	
7	15.13	15.59	15.03	14.88	16.36	18.27	19.49	17.13	15.70	15.54	15.72	15.42	
8	15.20	15.52	14.98	14.89	16.41	18.30	20.02	16.98	15.65	15.52	15.67	15.42	
9	15.25	15.42	14.95	14.83	16.51	18.98	20.46	16.87	15.72	15.52	15.64	15.44	
10	15.27	15.42	14.96	14.91	16.52	19.96	20.71	16.83	15.79	15.52	15.63	15.50	
11	15.26	15.49	15.18	15.05	16.43	20.47	20.72	16.80	15.80	15.52	15.61	15.57	
12	15.24	15.56	15.43	15.21	16.32	20.66	20.49	16.73	15.79	15.51	15.66	15.63	
13	15.21	15.53	15.57	15.48	16.21	20.83	20.37	16.66	15.78	15.51	15.77	15.68	
14	15.21	15.39	15.64	15.87	16.13	20.89	20.41	16.59	15.76	15.50	15.87	15.70	
15	15.21	15.22	15.68	16.12	16.25	20.69	20.65	16.51	15.74	15.50	15.99	15.67	
16	15.22	15.09	15.69	16.18	16.38	20.33	20.95	16.45	15.73	15.49	15.89	15.64	
17	15.20	15.05	15.68	16.17	16.54	19.92	21.42	16.41	15.72	15.47	15.83	15.63	
18	15.19	14.98	15.77	16.14	16.59	19.43	21.81	16.38	15.71	15.46	15.88	15.68	
19	15.19	14.95	16.05	16.09	16.61	19.08	22.37	16.35	15.71	15.47	15.88	15.65	
20	15.16	14.96	16.19	15.99	16.65	19.31	22.81	16.32	15.71	15.47	15.78	15.66	
21	15.12	14.96	16.13	15.84	16.69	19.96	22.85	16.30	15.70	15.47	15.69	15.66	
22	15.13	14.94	15.96	15.72	16.63	20.69	22.58	16.28	15.70	15.48	15.62	15.67	
23	15.18	14.94	15.68	15.56	16.52	21.17	22.21	16.26	15.69	15.55	15.58	15.69	
24	15.26	14.97	15.41	15.56	16.44	21.21	21.81	16.25	15.67	15.61	15.58	15.75	
25	15.34	14.99	15.23	16.40	16.40	20.93	21.34	16.22	15.66	15.64	15.58	15.85	
26	15.40	14.97	15.11	16.79	16.43	20.61	20.79	16.20	15.66	15.66	15.56	15.95	
27	15.35	14.93	15.03	16.92	16.61	20.49	20.07	16.17	15.64	15.67	15.52	16.06	
28	15.33	15.03	14.98	16.75	17.47	20.46	19.17	16.14	15.62	15.68	15.48	16.13	
29	15.31	15.43	14.95	16.59	18.77	20.34	18.37	16.09	15.61	15.69		16.10	
30	15.29	15.77	14.95	16.52	19.07	20.08	18.03	16.02	15.60	15.70		16.02	
31		15.97		16.44	18.63		17.97		15.59	15.70		15.94	
Mean	15.19	15.29	15.46	15.69	16.71	19.72	20.40	16.68	15.73	15.55	15.71	15.67	
Max	15.40	15.97	16.19	16.92	19.07	21.21	22.85	17.80	15.95	15.70	15.99	16.13	22.85
Min	15.00	14.93	14.95	14.83	16.13	17.64	17.97	16.02	15.59	15.46	15.48	15.42	14.83
Annual Max Momentary Gage Height	22.90		m. (MSL.) ,				at 23.00 Hours, on Oct 20, 2021						
Zero Gage at Bottom Elevation	13.84		m. (MSL.) ,			River Bed	12.62	m. (MSL.)					
Left Bank Elevation		23.30		m. (MSL.) ,									
Right Bank Elevation		23.38		m. (MSL.) ,		Drainage Area	1,474	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual		
1	0.53	1.60	5.80	0.43	9.00	31.00	81.50	35.50	4.75	2.90	3.50	2.25			
2	0.50	1.90	5.20	0.35	8.90	26.20	59.00	32.80	4.55	2.80	3.65	2.20			
3	0.50	2.20	3.90	0.30	8.90	25.40	64.70	31.00	4.50	2.75	3.80	2.20			
4	0.58	2.60	2.15	0.25	8.80	27.90	70.40	29.60	4.35	2.75	3.95	2.15			
5	0.65	2.95	0.93	0.23	8.60	38.20	68.30	27.80	4.00	2.70	4.00	2.15			
6	0.73	3.05	0.78	0.23	8.80	39.70	68.00	25.00	3.75	2.70	3.85	2.10			
7	0.83	2.95	0.58	0.20	8.60	33.55	81.20	21.60	3.50	2.70	3.60	2.10			
8	1.00	2.60	0.45	0.23	9.15	34.00	97.70	18.60	3.25	2.60	3.35	2.10			
9	1.25	2.10	0.38	0.08	10.65	46.10	113.10	16.40	3.60	2.60	3.20	2.20			
10	1.35	2.10	0.40	0.28	10.80	69.30	121.85	15.60	3.95	2.60	3.15	2.50			
11	1.30	2.45	0.95	0.63	9.45	87.80	122.20	15.00	4.00	2.60	3.05	2.85			
12	1.20	2.80	2.15	1.05	8.20	95.70	114.15	13.95	3.95	2.55	3.30	3.15			
13	1.05	2.65	2.85	2.40	7.10	103.50	109.95	12.90	3.90	2.55	3.85	3.40			
14	1.05	1.95	3.20	4.35	6.30	106.50	111.35	11.85	3.80	2.50	4.35	3.50			
15	1.05	1.10	3.40	6.20	7.50	97.05	119.75	10.65	3.70	2.50	4.95	3.35			
16	1.10	0.73	3.45	6.80	8.80	82.20	130.25	9.75	3.65	2.45	4.45	3.20			
17	1.00	0.63	3.40	6.70	11.10	68.10	146.70	9.15	3.60	2.35	4.15	3.15			
18	0.98	0.45	3.85	6.40	11.85	55.25	161.40	8.80	3.55	2.30	4.40	3.40			
19	0.98	0.38	5.50	5.90	12.15	48.10	183.80	8.50	3.55	2.35	4.40	3.25			
20	0.90	0.40	6.90	4.95	12.75	52.70	201.40	8.20	3.55	2.35	3.90	3.30			
21	0.80	0.40	6.30	4.20	13.35	69.30	203.00	8.00	3.50	2.35	3.45	3.30			
22	0.83	0.35	4.80	3.60	12.45	97.05	192.20	7.80	3.50	2.40	3.10	3.35			
23	0.95	0.35	3.40	2.80	10.80	120.50	177.40	7.60	3.45	2.75	2.90	3.45			
24	1.30	0.43	2.05	2.80	9.60	122.60	161.40	7.50	3.35	3.05	2.90	3.75			
25	1.70	0.48	1.15	9.00	9.00	108.50	143.90	7.20	3.30	3.20	2.90	4.25			
26	2.00	0.43	0.78	14.85	9.45	93.45	124.65	7.00	3.30	3.30	2.80	4.75			
27	1.75	0.33	0.58	17.40	12.15	88.60	99.45	6.70	3.20	3.35	2.60	5.60			
28	1.65	0.58	0.45	14.25	23.70	87.40	71.60	6.40	3.10	3.40	2.40	6.30			
29	1.55	2.15	0.38	11.85	41.90	82.60	49.75	5.90	3.05	3.45		6.00			
30	1.45	3.85	0.38	10.80	47.90	73.30	41.25	5.20	3.00	3.50		5.20			
31		4.85		9.60	39.10		39.75		2.95	3.50		4.70			
<b>Total</b>	<b>32.51</b>	<b>51.79</b>	<b>76.49</b>	<b>149.11</b>	<b>416.80</b>	<b>2111.55</b>	<b>3531.05</b>	<b>431.95</b>	<b>113.15</b>	<b>85.85</b>	<b>99.90</b>	<b>105.15</b>	<b>7205.30</b>	<b>CMSDAY</b>	
<b>Mean</b>	<b>1.08</b>	<b>1.67</b>	<b>2.55</b>	<b>4.81</b>	<b>13.45</b>	<b>70.38</b>	<b>113.90</b>	<b>14.40</b>	<b>3.65</b>	<b>2.77</b>	<b>3.57</b>	<b>3.39</b>	<b>19.74</b>	<b>CMS</b>	
<b>Max</b>	<b>2.00</b>	<b>4.85</b>	<b>6.90</b>	<b>17.40</b>	<b>47.90</b>	<b>122.60</b>	<b>203.00</b>	<b>35.50</b>	<b>4.75</b>	<b>3.50</b>	<b>4.95</b>	<b>6.30</b>	<b>203.00</b>	<b>CMS</b>	
<b>Min</b>	<b>0.50</b>	<b>0.33</b>	<b>0.38</b>	<b>0.08</b>	<b>6.30</b>	<b>25.40</b>	<b>39.75</b>	<b>5.20</b>	<b>2.95</b>	<b>2.30</b>	<b>2.40</b>	<b>2.10</b>	<b>0.08</b>	<b>CMS</b>	
<b>Runoff</b>	<b>2.81</b>	<b>4.47</b>	<b>6.61</b>	<b>12.88</b>	<b>36.01</b>	<b>182.44</b>	<b>305.08</b>	<b>37.32</b>	<b>9.78</b>	<b>7.42</b>	<b>8.63</b>	<b>9.08</b>	<b>622.54</b>	<b>MCM</b>	
<b>Momentary Peak</b>	205.00 CMS, at 22.90 m. (MSL), at 23.00 Hours, on Oct 20, 2021														
<b>Runoff Yield</b>	13.39 Liters/Second/Square KM.			Momentary Peak Yield			139.08 Liters/Second/Square KM.								

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

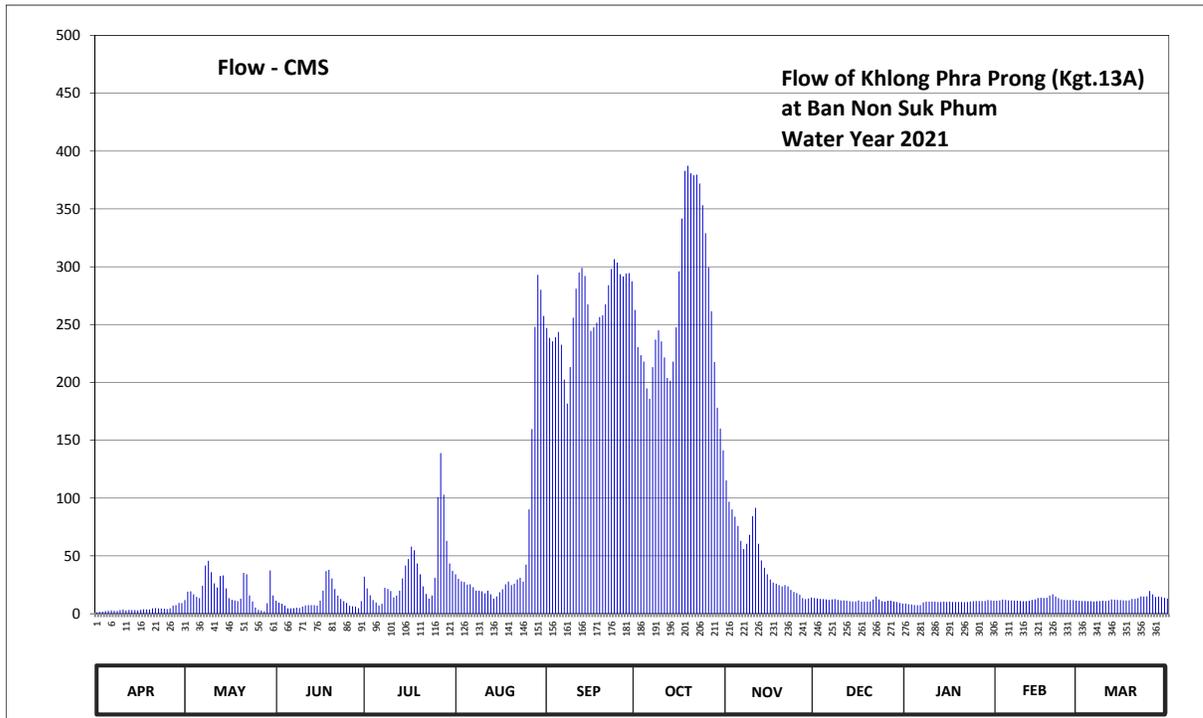
Lat 13 - 54 - 36 N Long 101 - 50 - 18 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

	<b>Ban Non Suk Phum</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	4,890 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the top staff gage.	<b>Elevation</b>	+17.571 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 49 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.52	7.24	7.21	8.00	8.07	13.24	13.55	10.38	7.33	7.09	7.21	7.21	
2	6.56	7.57	7.13	7.66	7.94	13.07	12.91	9.92	7.31	7.06	7.23	7.20	
3	6.58	7.58	7.08	7.45	7.87	13.01	12.77	9.75	7.29	7.05	7.26	7.20	
4	6.63	7.49	7.00	7.24	7.85	13.08	12.66	9.57	7.28	7.03	7.25	7.19	
5	6.66	7.38	6.87	7.14	7.77	13.17	12.15	9.34	7.27	7.02	7.23	7.19	
6	6.69	7.32	6.86	7.01	7.78	12.95	11.95	8.97	7.25	7.02	7.23	7.18	
7	6.66	7.74	6.88	7.08	7.70	12.32	12.56	8.77	7.27	7.14	7.22	7.19	
8	6.64	8.32	6.91	7.68	7.60	11.86	13.04	8.90	7.28	7.17	7.21	7.20	
9	6.72	8.46	6.89	7.65	7.60	12.56	13.20	9.12	7.25	7.17	7.20	7.21	
10	6.75	8.13	6.96	7.59	7.58	13.42	13.01	9.58	7.23	7.17	7.19	7.20	
11	6.69	7.81	7.01	7.36	7.52	13.92	12.73	9.79	7.23	7.17	7.19	7.22	
12	6.73	7.69	7.02	7.43	7.60	14.20	12.35	8.90	7.21	7.16	7.21	7.27	
13	6.72	8.02	7.02	7.60	7.49	14.28	12.30	8.47	7.19	7.16	7.25	7.26	
14	6.71	8.04	7.02	7.95	7.30	14.14	12.66	8.26	7.18	7.17	7.27	7.25	
15	6.69	7.66	7.00	8.32	7.40	13.65	13.25	8.07	7.18	7.16	7.33	7.24	
16	6.74	7.32	7.21	8.51	7.55	13.19	14.22	7.92	7.23	7.17	7.34	7.23	
17	6.79	7.25	7.60	8.83	7.64	13.25	15.12	7.83	7.17	7.16	7.33	7.22	
18	6.77	7.22	8.16	8.74	7.78	13.33	15.87	7.80	7.17	7.16	7.34	7.23	
19	6.77	7.19	8.20	8.38	7.86	13.43	15.95	7.76	7.18	7.16	7.43	7.29	
20	6.86	7.30	7.95	8.07	7.76	13.46	15.83	7.72	7.18	7.16	7.49	7.29	
21	6.89	8.11	7.65	7.72	7.80	13.65	15.80	7.76	7.26	7.15	7.39	7.32	
22	6.87	8.07	7.43	7.50	7.92	13.98	15.81	7.72	7.39	7.16	7.32	7.40	
23	6.85	7.44	7.29	7.30	7.97	14.26	15.67	7.62	7.27	7.18	7.27	7.39	
24	6.84	7.18	7.19	7.44	7.86	14.43	15.33	7.56	7.19	7.19	7.25	7.40	
25	6.80	6.92	7.12	7.97	8.35	14.37	14.88	7.53	7.17	7.20	7.25	7.59	
26	6.86	6.73	6.99	10.02	9.75	14.17	14.29	7.47	7.21	7.20	7.24	7.49	
27	7.00	6.67	6.97	10.91	11.37	14.13	13.53	7.32	7.21	7.20	7.24	7.37	
28	7.02	6.60	6.96	10.07	13.26	14.18	12.65	7.28	7.18	7.20	7.22	7.39	
29	7.12	7.10	6.88	8.97	14.16	14.19	11.78	7.31	7.16	7.24		7.37	
30	7.11	8.18	7.19	8.38	13.90	14.05	11.38	7.35	7.12	7.23		7.34	
31		7.44		8.17	13.45		10.96		7.09	7.21		7.31	
Mean	6.77	7.52	7.19	8.07	8.69	13.56	13.55	8.39	7.22	7.15	7.27	7.29	
Max	7.12	8.46	8.20	10.91	14.16	14.43	15.95	10.38	7.39	7.24	7.49	7.59	15.95
Min	6.52	6.60	6.86	7.01	7.30	11.86	10.96	7.28	7.09	7.02	7.19	7.18	6.52
Annual Max Momentary Gage Height	15.98		m. (MSL.) ,				at 20.00 Hours, on Oct 18, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	5.25	m. (MSL.)					
Left Bank Elevation	17.73		m. (MSL.) ,										
Right Bank Elevation	16.88		m. (MSL.) ,			Drainage Are	4,890	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	11.80	11.20	32.00	34.10	247.00	262.50	115.20	13.60	8.80	11.20	11.20		
2	1.60	19.10	9.60	21.80	30.20	238.50	230.50	96.80	13.20	8.20	11.60	11.00		
3	1.80	19.40	8.60	16.00	28.10	235.50	223.50	90.25	12.80	8.00	12.20	11.00		
4	2.30	16.80	7.00	11.80	27.50	239.00	218.00	83.95	12.60	7.60	12.00	10.80		
5	2.60	14.60	4.70	9.80	25.10	243.50	194.75	75.90	12.40	7.40	11.60	10.80		
6	2.90	13.40	4.60	7.20	25.40	232.50	185.75	62.95	12.00	7.40	11.60	10.60		
7	2.60	24.20	4.80	8.60	23.00	202.40	213.20	55.95	12.40	9.80	11.40	10.80		
8	2.40	41.60	5.20	22.40	20.00	181.70	237.00	60.50	12.60	10.40	11.20	11.00		
9	3.20	45.80	4.90	21.50	20.00	213.20	245.00	68.20	12.00	10.40	11.00	11.20		
10	3.50	35.90	6.20	19.70	19.40	256.00	235.50	84.30	11.60	10.40	10.80	11.00		
11	2.90	26.30	7.20	14.20	17.60	281.00	221.50	91.65	11.60	10.40	10.80	11.40		
12	3.30	22.70	7.40	15.60	20.00	295.00	203.75	60.50	11.20	10.20	11.20	12.40		
13	3.20	32.60	7.40	20.00	16.80	299.00	201.50	46.10	10.80	10.20	12.00	12.20		
14	3.10	33.20	7.40	30.50	13.00	292.00	218.00	39.80	10.60	10.40	12.40	12.00		
15	2.90	21.80	7.00	41.60	15.00	267.50	247.50	34.10	10.60	10.20	13.60	11.80		
16	3.40	13.40	11.20	47.30	18.50	244.50	296.00	29.60	11.60	10.40	13.80	11.60		
17	3.90	12.00	20.00	58.05	21.20	247.50	341.60	26.90	10.40	10.20	13.60	11.40		
18	3.70	11.40	36.80	54.90	25.40	251.50	382.85	26.00	10.40	10.20	13.80	11.60		
19	3.70	10.80	38.00	43.40	27.80	256.50	387.25	24.80	10.60	10.20	15.60	12.80		
20	4.60	13.00	30.50	34.10	24.80	258.00	380.65	23.60	10.60	10.20	16.80	12.80		
21	4.90	35.30	21.50	23.60	26.00	267.50	379.00	24.80	12.20	10.00	14.80	13.40		
22	4.70	34.10	15.60	17.00	29.60	284.00	379.55	23.60	14.80	10.20	13.40	15.00		
23	4.50	15.80	12.80	13.00	31.10	298.00	371.85	20.60	12.40	10.60	12.40	14.80		
24	4.40	10.60	10.80	15.80	27.80	306.50	353.15	18.80	10.80	10.80	12.00	15.00		
25	4.00	5.40	9.40	31.10	42.50	303.50	329.00	17.90	10.40	11.00	12.00	19.70		
26	4.60	3.30	6.80	100.80	90.25	293.50	299.50	16.40	11.20	11.00	11.80	16.80		
27	7.00	2.70	6.40	138.95	159.65	291.50	261.50	13.40	11.20	11.00	11.80	14.40		
28	7.40	2.00	6.20	102.80	248.00	294.00	217.50	12.60	10.60	11.00	11.40	14.80		
29	9.40	9.00	4.80	62.95	293.00	294.50	178.10	13.20	10.20	11.80		14.40		
30	9.20	37.40	10.80	43.40	280.00	287.50	160.10	14.00	9.40	11.60		13.80		
31		15.80		37.10	257.50		141.20		8.80	11.20		13.20		
<b>Total</b>	118.90	611.20	344.80	1116.95	1938.30	7902.30	8196.75	1372.35	355.60	311.20	347.80	394.70	23010.85	CMSDAY
<b>Mean</b>	3.96	19.72	11.49	36.03	62.53	263.41	264.41	45.74	11.47	10.04	12.42	12.73	63.04	CMS
<b>Max</b>	9.40	45.80	38.00	138.95	293.00	306.50	387.25	115.20	14.80	11.80	16.80	19.70	387.25	CMS
<b>Min</b>	1.20	2.00	4.60	7.20	13.00	181.70	141.20	12.60	8.80	7.40	10.80	10.60	1.20	CMS
<b>Runoff</b>	10.27	52.81	29.79	96.50	167.47	682.76	708.20	118.57	30.72	26.89	30.05	34.10	1988.14	MCM
<b>Momentary Peak</b>		388.90		CMS, at 15.98 m. (MSL),		at 20.00 Hours, on Oct 18, 2021								
<b>Runoff Yield</b>		12.89		Liters/Second/Square KM.		Momentary Peak Yield	79.53							Liters/Second/Square KM.

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khleng Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

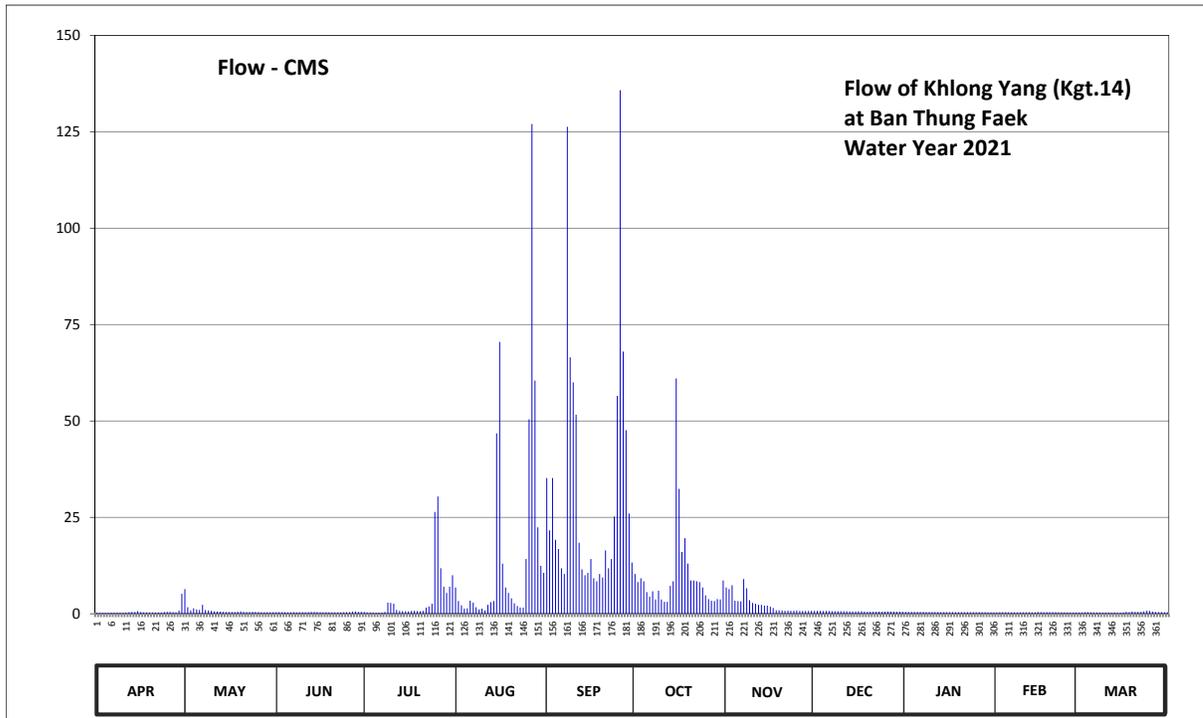
Lat 14 - 09 - 41 N Long 101 - 52 - 59 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

	<b>Ban Thung Faek</b>	<b>Amphoe Na Di</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	353 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+34.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	+42.721 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1966 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1966 - 1981 , 1986 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1966 - 1981 , 1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 39.660 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.45	36.52	35.60	35.64	36.54	37.38	36.71	36.54	35.93	35.71	35.57	35.53	
2	35.44	36.17	35.60	35.56	36.33	37.04	36.61	36.52	35.92	35.70	35.59	35.53	
3	35.43	36.03	35.59	35.53	36.22	37.38	36.66	36.57	35.92	35.70	35.61	35.62	
4	35.43	36.14	35.59	35.51	36.13	36.98	36.62	36.34	35.88	35.70	35.60	35.60	
5	35.45	36.11	35.57	35.49	36.14	36.92	36.48	36.33	35.88	35.69	35.58	35.56	
6	35.47	36.10	35.58	35.49	36.34	36.76	36.42	36.32	35.88	35.70	35.57	35.54	
7	35.47	36.23	35.59	35.51	36.29	36.71	36.49	36.65	35.86	35.68	35.56	35.54	
8	35.47	36.08	35.58	35.69	36.17	39.09	36.37	36.53	35.87	35.66	35.56	35.54	
9	35.46	36.04	35.60	36.29	36.11	38.09	36.50	36.35	35.85	35.66	35.56	35.49	
10	35.46	35.93	35.63	36.28	36.13	37.96	36.37	36.28	35.86	35.65	35.56	35.51	
11	35.54	35.83	35.63	36.26	36.03	37.79	36.31	36.26	35.85	35.65	35.56	35.53	
12	35.62	35.77	35.61	36.10	36.23	36.96	36.31	36.23	35.84	35.64	35.57	35.50	
13	35.65	35.72	35.68	35.96	36.30	36.75	36.56	36.23	35.82	35.63	35.58	35.51	
14	35.64	35.69	35.70	35.88	36.33	36.70	36.62	36.21	35.83	35.64	35.58	35.46	
15	35.89	35.66	35.65	35.84	37.67	36.72	37.98	36.21	35.82	35.63	35.64	35.45	
16	35.66	35.65	35.61	35.83	38.17	36.84	37.31	36.18	35.85	35.63	35.62	35.56	
17	35.58	35.66	35.60	35.92	36.80	36.66	36.90	36.15	35.84	35.62	35.62	35.69	
18	35.55	35.66	35.60	35.95	36.54	36.62	36.99	36.06	35.77	35.62	35.62	35.63	
19	35.52	35.73	35.58	35.90	36.47	36.71	36.80	36.05	35.75	35.61	35.62	35.76	
20	35.52	35.83	35.57	35.86	36.40	36.67	36.63	36.04	35.75	35.61	35.61	35.69	
21	35.52	35.71	35.58	35.95	36.27	36.91	36.63	36.00	35.75	35.60	35.59	35.70	
22	35.52	35.66	35.58	36.16	36.20	36.76	36.62	36.01	35.74	35.61	35.57	35.69	
23	35.54	35.64	35.58	36.19	36.16	36.84	36.61	36.00	35.74	35.62	35.56	35.83	
24	35.67	35.73	35.61	36.26	36.16	37.13	36.54	36.00	35.74	35.61	35.57	35.99	
25	35.70	35.70	35.61	37.16	36.84	37.89	36.44	36.03	35.74	35.61	35.55	35.92	
26	35.69	35.65	35.59	37.26	37.76	39.21	36.38	35.94	35.76	35.60	35.54	35.75	
27	35.60	35.62	35.72	36.76	39.10	38.12	36.34	35.93	35.76	35.60	35.53	35.67	
28	35.57	35.61	35.76	36.55	37.97	37.69	36.33	35.93	35.74	35.59	35.53	35.62	
29	36.02	35.62	35.65	36.47	37.06	37.15	36.38	35.92	35.73	35.58		35.61	
30	36.46	35.63	35.68	36.55	36.78	36.81	36.37	35.92	35.73	35.58		35.58	
31		35.62		36.70	36.72		36.63		35.72	35.57		35.55	
Mean	35.60	35.83	35.62	36.08	36.66	37.24	36.61	36.19	35.81	35.64	35.58	35.62	
Max	36.46	36.52	35.76	37.26	39.10	39.21	37.98	36.65	35.93	35.71	35.64	35.99	39.21
Min	35.43	35.61	35.57	35.49	36.03	36.62	36.31	35.92	35.72	35.57	35.53	35.45	35.43
Annual Max Momentary Gage Height	40.41		m. (MSL.) ,			at 14.00 Hours, on Sep 8, 2021							
Zero Gage at Bottom Elevation	34.60		m. (MSL.) ,			River Bed	34.33	m. (MSL.)					
Left Bank Elevation		39.70		m. (MSL.) ,									
Right Bank Elevation		39.65		m. (MSL.) ,		Drainage Are	353	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	6.40	0.40	0.44	6.80	35.20	10.30	6.80	0.73	0.51	0.37	0.33	
2	0.24	1.70	0.40	0.36	3.30	21.60	8.20	6.40	0.72	0.50	0.39	0.33	
3	0.23	0.86	0.39	0.33	2.20	35.20	9.20	7.40	0.72	0.50	0.41	0.42	
4	0.23	1.40	0.39	0.31	1.30	19.20	8.40	3.40	0.68	0.50	0.40	0.40	
5	0.25	1.10	0.37	0.29	1.40	16.80	5.60	3.30	0.68	0.49	0.38	0.36	
6	0.27	1.00	0.38	0.29	3.40	11.80	4.40	3.20	0.68	0.50	0.37	0.34	
7	0.27	2.30	0.39	0.31	2.90	10.30	5.80	9.00	0.66	0.48	0.36	0.34	
8	0.27	0.96	0.38	0.49	1.70	126.30	3.70	6.60	0.67	0.46	0.36	0.34	
9	0.26	0.88	0.40	2.90	1.10	66.50	6.00	3.50	0.65	0.46	0.36	0.29	
10	0.26	0.73	0.43	2.80	1.30	60.00	3.70	2.80	0.66	0.45	0.36	0.31	
11	0.34	0.63	0.43	2.60	0.86	51.60	3.10	2.60	0.65	0.45	0.36	0.33	
12	0.42	0.57	0.41	1.00	2.30	18.40	3.10	2.30	0.64	0.44	0.37	0.30	
13	0.45	0.52	0.48	0.76	3.00	11.50	7.20	2.30	0.62	0.43	0.38	0.31	
14	0.44	0.49	0.50	0.68	3.30	10.00	8.40	2.10	0.63	0.44	0.38	0.26	
15	0.69	0.46	0.45	0.64	46.80	10.60	61.00	2.10	0.62	0.43	0.44	0.25	
16	0.46	0.45	0.41	0.63	70.50	14.20	32.40	1.80	0.65	0.43	0.42	0.36	
17	0.38	0.46	0.40	0.72	13.00	9.20	16.00	1.50	0.64	0.42	0.42	0.49	
18	0.35	0.46	0.40	0.75	6.80	8.40	19.60	0.92	0.57	0.42	0.42	0.43	
19	0.32	0.53	0.38	0.70	5.40	10.30	13.00	0.90	0.55	0.41	0.42	0.56	
20	0.32	0.63	0.37	0.66	4.00	9.40	8.60	0.88	0.55	0.41	0.41	0.49	
21	0.32	0.51	0.38	0.75	2.70	16.40	8.60	0.80	0.55	0.40	0.39	0.50	
22	0.32	0.46	0.38	1.60	2.00	11.80	8.40	0.82	0.54	0.41	0.37	0.49	
23	0.34	0.44	0.38	1.90	1.60	14.20	8.20	0.80	0.54	0.42	0.36	0.63	
24	0.47	0.53	0.41	2.60	1.60	25.20	6.80	0.80	0.54	0.41	0.37	0.79	
25	0.50	0.50	0.41	26.40	14.20	56.50	4.80	0.86	0.54	0.41	0.35	0.72	
26	0.49	0.45	0.39	30.40	50.40	135.80	3.80	0.74	0.56	0.40	0.34	0.55	
27	0.40	0.42	0.52	11.80	127.00	68.00	3.40	0.73	0.56	0.40	0.33	0.47	
28	0.37	0.41	0.56	7.00	60.50	47.60	3.30	0.73	0.54	0.39	0.33	0.42	
29	0.84	0.42	0.45	5.40	22.40	26.00	3.80	0.72	0.53	0.38		0.41	
30	5.20	0.43	0.48	7.00	12.40	13.30	3.70	0.72	0.53	0.38		0.38	
31		0.42		10.00	10.60		8.60		0.52	0.37		0.35	
<b>Total</b>	15.95	27.52	12.52	122.51	486.76	971.30	301.10	77.52	18.92	13.50	10.62	12.95	2071.17 CMSDAY
<b>Mean</b>	0.53	0.89	0.42	3.95	15.70	32.38	9.71	2.58	0.61	0.44	0.38	0.42	5.67 CMS
<b>Max</b>	5.20	6.40	0.56	30.40	127.00	135.80	61.00	9.00	0.73	0.51	0.44	0.79	135.80 CMS
<b>Min</b>	0.23	0.41	0.37	0.29	0.86	8.40	3.10	0.72	0.52	0.37	0.33	0.25	0.23 CMS
<b>Runoff</b>	1.38	2.38	1.08	10.58	42.06	83.92	26.02	6.70	1.63	1.17	0.92	1.12	178.95 MCM
<b>Momentary Peak</b>	240.00	CMS, at 40.41 m. (MSL), at 14.00 Hours, on Sep 8, 2021											
<b>Runoff Yield</b>	16.07	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		679.89	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

Huai Samong at Ban Kaeng Din So , Prachin Buri (Kgt.15A)

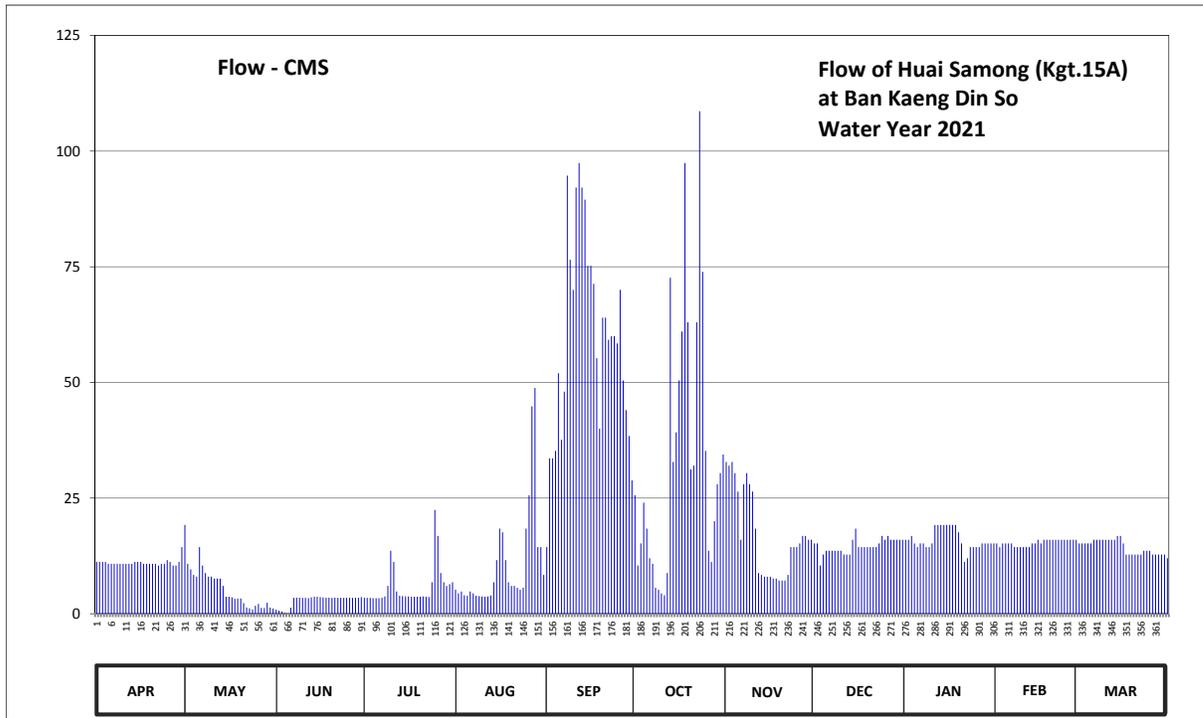
Lat 14 - 03 - 53 N Long 101 - 55 - 25 E

Location : on right bank at Ban Kaeng Din So about 1 kilometer upstream from the Kgt.15 Station.

	Ban Kaeng Din So	Amphoe Na Di	Changwat Prachin Buri
<b>Drainage Area</b>	562 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+12.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the station office and near the rain gage.	<b>Elevation</b>	+22.396 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1968 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1968 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1968 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Flow effected by the local weir. Stage-discharge relation defined by 46 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.78	15.89	14.67	15.52	15.63	15.83	15.97	16.06	15.84	15.85	15.84	15.84	
2	15.78	15.77	14.48	15.51	15.61	16.07	15.76	16.05	15.84	15.85	15.83	15.84	
3	15.78	15.74	14.27	15.51	15.62	16.07	15.84	16.06	15.76	15.86	15.84	15.84	
4	15.78	15.71	13.96	15.50	15.60	16.09	15.95	16.03	15.81	15.84	15.84	15.84	
5	15.77	15.70	13.71	15.50	15.58	16.30	15.88	15.98	15.82	15.83	15.84	15.84	
6	15.77	15.83	15.11	15.50	15.62	16.12	15.80	15.85	15.82	15.84	15.84	15.85	
7	15.77	15.76	15.51	15.52	15.61	16.25	15.77	16.00	15.82	15.84	15.83	15.85	
8	15.77	15.72	15.52	15.56	15.58	16.69	15.64	16.03	15.82	15.83	15.83	15.85	
9	15.77	15.70	15.52	15.65	15.57	16.55	15.63	16.00	15.82	15.83	15.83	15.85	
10	15.77	15.70	15.51	15.82	15.56	16.50	15.61	15.98	15.82	15.84	15.83	15.85	
11	15.77	15.69	15.51	15.78	15.55	16.67	15.60	15.88	15.81	15.89	15.83	15.85	
12	15.77	15.69	15.50	15.62	15.56	16.71	15.72	15.72	15.81	15.89	15.83	15.85	
13	15.77	15.69	15.53	15.58	15.59	16.67	16.52	15.71	15.81	15.89	15.84	15.85	
14	15.78	15.65	15.55	15.57	15.67	16.65	16.06	15.70	15.85	15.89	15.84	15.86	
15	15.78	15.55	15.55	15.56	15.79	16.54	16.14	15.70	15.88	15.89	15.85	15.86	
16	15.78	15.55	15.54	15.56	15.88	16.54	16.28	15.70	15.83	15.89	15.84	15.84	
17	15.77	15.53	15.53	15.55	15.87	16.51	16.41	15.69	15.83	15.89	15.85	15.81	
18	15.77	15.48	15.52	15.55	15.79	16.34	16.71	15.69	15.83	15.89	15.85	15.81	
19	15.77	15.49	15.52	15.55	15.67	16.15	16.43	15.68	15.83	15.87	15.85	15.81	
20	15.77	15.49	15.51	15.55	15.65	16.44	16.04	15.68	15.83	15.84	15.85	15.81	
21	15.77	15.34	15.52	15.56	15.65	16.44	16.05	15.68	15.83	15.78	15.85	15.81	
22	15.76	15.14	15.51	15.55	15.64	16.39	16.43	15.71	15.83	15.80	15.85	15.81	
23	15.77	14.95	15.51	15.54	15.63	16.40	16.79	15.83	15.84	15.83	15.85	15.82	
24	15.77	14.73	15.51	15.67	15.64	16.40	16.53	15.83	15.86	15.83	15.85	15.82	
25	15.79	15.25	15.51	15.93	15.88	16.38	16.09	15.83	15.85	15.83	15.85	15.82	
26	15.78	15.31	15.52	15.86	15.97	16.50	15.82	15.84	15.86	15.83	15.85	15.81	
27	15.76	15.08	15.51	15.72	16.21	16.28	15.78	15.86	15.85	15.84	15.85	15.81	
28	15.76	15.03	15.51	15.67	16.26	16.20	15.90	15.86	15.85	15.84	15.85	15.81	
29	15.78	15.35	15.52	15.65	15.83	16.13	16.00	15.85	15.85	15.84		15.81	
30	15.83	15.13	15.54	15.66	15.83	16.01	16.03	15.85	15.85	15.84		15.81	
31		14.92		15.67	15.71		16.08		15.85	15.84		15.80	
Mean	15.77	15.47	15.29	15.61	15.72	16.36	16.04	15.84	15.83	15.85	15.84	15.83	
Max	15.83	15.89	15.55	15.93	16.26	16.71	16.79	16.06	15.88	15.89	15.85	15.86	16.79
Min	15.76	14.73	13.71	15.50	15.55	15.83	15.60	15.68	15.76	15.78	15.83	15.80	13.71
Annual Max Momentary Gage Height	17.11		m. (MSL.) ,				at 22.00 Hours, on Sep 8, 2021						
Zero Gage at Bottom Elevation	12.80		m. (MSL.) ,			River Bed	12.26	m. (MSL.)					
Left Bank Elevation		20.18		m. (MSL.) ,									
Right Bank Elevation		21.26		m. (MSL.) ,		Drainage Are	562	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.20	19.20	0.87	3.48	5.20	14.40	25.60	32.80	15.20	16.00	15.20	15.20	
2	11.20	10.80	0.68	3.42	4.40	33.60	10.40	32.00	15.20	16.00	14.40	15.20	
3	11.20	9.60	0.47	3.42	4.80	33.60	15.20	32.80	10.40	16.80	15.20	15.20	
4	11.20	8.40	0.16	3.35	4.00	35.20	24.00	30.40	12.80	15.20	15.20	15.20	
5	10.80	8.00	0.00	3.35	3.87	52.00	18.40	26.40	13.60	14.40	15.20	15.20	
6	10.80	14.40	1.31	3.35	4.80	37.60	12.00	16.00	13.60	15.20	15.20	16.00	
7	10.80	10.40	3.42	3.48	4.40	48.00	10.80	28.00	13.60	15.20	14.40	16.00	
8	10.80	8.80	3.48	3.74	3.87	94.70	5.60	30.40	13.60	14.40	14.40	16.00	
9	10.80	8.00	3.48	6.00	3.81	76.50	5.20	28.00	13.60	14.40	14.40	16.00	
10	10.80	8.00	3.42	13.60	3.74	70.00	4.40	26.40	13.60	15.20	14.40	16.00	
11	10.80	7.60	3.42	11.20	3.68	92.10	4.00	18.40	12.80	19.20	14.40	16.00	
12	10.80	7.60	3.35	4.80	3.74	97.40	8.80	8.80	12.80	19.20	14.40	16.00	
13	10.80	7.60	3.55	3.87	3.94	92.10	72.60	8.40	12.80	19.20	15.20	16.00	
14	11.20	6.00	3.68	3.81	6.80	89.50	32.80	8.00	16.00	19.20	15.20	16.80	
15	11.20	3.68	3.68	3.74	11.60	75.20	39.20	8.00	18.40	19.20	16.00	16.80	
16	11.20	3.68	3.61	3.74	18.40	75.20	50.40	8.00	14.40	19.20	15.20	15.20	
17	10.80	3.55	3.55	3.68	17.60	71.30	61.00	7.60	14.40	19.20	16.00	12.80	
18	10.80	3.22	3.48	3.68	11.60	55.20	97.40	7.60	14.40	19.20	16.00	12.80	
19	10.80	3.29	3.48	3.68	6.80	40.00	63.00	7.20	14.40	17.60	16.00	12.80	
20	10.80	3.29	3.42	3.68	6.00	64.00	31.20	7.20	14.40	15.20	16.00	12.80	
21	10.80	2.31	3.48	3.74	6.00	64.00	32.00	7.20	14.40	11.20	16.00	12.80	
22	10.40	1.34	3.42	3.68	5.60	59.20	63.00	8.40	14.40	12.00	16.00	12.80	
23	10.80	1.15	3.42	3.61	5.20	60.00	108.60	14.40	15.20	14.40	16.00	13.60	
24	10.80	0.93	3.42	6.80	5.60	60.00	73.90	14.40	16.80	14.40	16.00	13.60	
25	11.60	1.73	3.42	22.40	18.40	58.40	35.20	14.40	16.00	14.40	16.00	13.60	
26	11.20	2.12	3.48	16.80	25.60	70.00	13.60	15.20	16.80	14.40	16.00	12.80	
27	10.40	1.28	3.42	8.80	44.80	50.40	11.20	16.80	16.00	15.20	16.00	12.80	
28	10.40	1.23	3.42	6.80	48.80	44.00	20.00	16.80	16.00	15.20	16.00	12.80	
29	11.20	2.38	3.48	6.00	14.40	38.40	28.00	16.00	16.00	15.20		12.80	
30	14.40	1.33	3.61	6.40	14.40	28.80	30.40	16.00	16.00	15.20		12.80	
31		1.12		6.80	8.40		34.40		16.00	15.20		12.00	
Total	330.80	172.03	87.08	184.90	330.25	1780.80	1042.30	512.00	453.60	496.00	430.40	446.40	6266.56
Mean	11.03	5.55	2.90	5.96	10.65	59.36	33.62	17.07	14.63	16.00	15.37	14.40	17.17
Max	14.40	19.20	3.68	22.40	48.80	97.40	108.60	32.80	18.40	19.20	16.00	16.80	108.60
Min	10.40	0.93	0.00	3.35	3.68	14.40	4.00	7.20	10.40	11.20	14.40	12.00	0.00
Runoff	28.58	14.86	7.52	15.98	28.53	153.86	90.05	44.24	39.19	42.85	37.19	38.57	541.43
Momentary Peak	170.00	CMS, at 17.11 m. (MSL), at 22.00 Hours, on Sep 8, 2021											
Runoff Yield	30.55	Liters/Second/Square KM.			Momentary Peak Yield			302.49	Liters/Second/Square KM.				

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

Khwaeng Nam Sai at Ban Saphan Hin , Prachin Buri (Kgt.33)

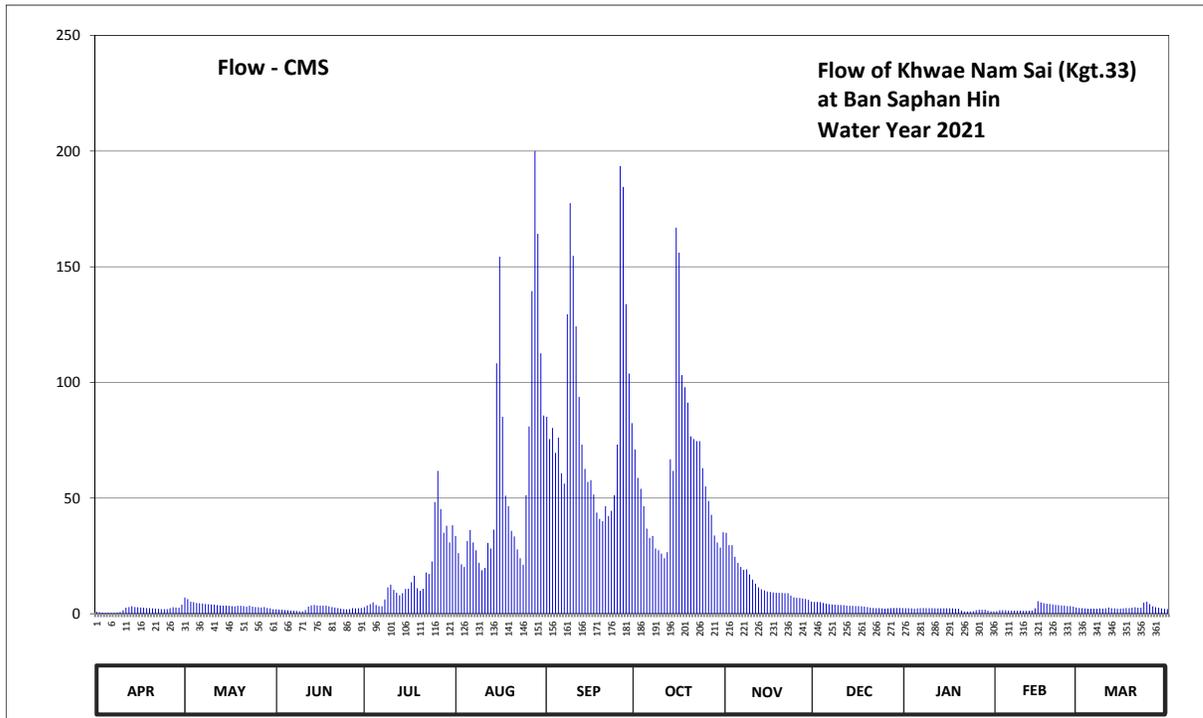
Lat 14 - 08 - 01 N Long 101 - 43 - 40 E

Location : on left bank at Ban Saphan Hin.

	<b>Ban</b> Saphan Hin	<b>Amphoe</b> Na Di	<b>Changwat</b> Prachin Buri
<b>Drainage Area</b>	616 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+3.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+14.019 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.33	5.00	4.49	4.58	6.53	8.47	8.00	6.60	4.81	4.54	4.41	4.55	
2	4.24	4.93	4.48	4.66	6.16	8.15	7.57	6.33	4.81	4.54	4.45	4.54	
3	4.20	4.82	4.47	4.71	5.92	8.31	7.38	6.33	4.80	4.53	4.45	4.53	
4	4.16	4.80	4.46	4.79	5.86	7.95	7.08	6.08	4.77	4.52	4.45	4.52	
5	4.19	4.77	4.45	4.68	6.42	8.17	6.69	5.95	4.73	4.53	4.44	4.52	
6	4.17	4.75	4.44	4.63	6.66	7.65	6.49	5.86	4.71	4.54	4.44	4.52	
7	4.17	4.74	4.43	4.62	6.39	7.47	6.53	5.80	4.70	4.55	4.44	4.51	
8	4.22	4.72	4.42	4.92	6.22	9.66	6.26	5.81	4.69	4.54	4.43	4.53	
9	4.27	4.71	4.41	5.42	5.95	10.75	6.22	5.70	4.68	4.54	4.43	4.52	
10	4.45	4.70	4.40	5.48	5.79	10.25	6.15	5.59	4.68	4.54	4.42	4.53	
11	4.56	4.69	4.46	5.33	5.84	9.53	6.05	5.50	4.67	4.53	4.42	4.57	
12	4.59	4.67	4.61	5.21	6.38	8.72	6.18	5.42	4.65	4.53	4.43	4.54	
13	4.62	4.66	4.66	5.10	6.26	8.07	7.86	5.36	4.64	4.53	4.44	4.53	
14	4.59	4.65	4.68	5.19	6.67	7.72	7.69	5.31	4.64	4.53	4.53	4.52	
15	4.58	4.65	4.66	5.37	9.13	7.50	10.52	5.26	4.63	4.53	4.84	4.52	
16	4.57	4.64	4.65	5.38	10.24	7.53	10.28	5.24	4.63	4.53	4.79	4.53	
17	4.56	4.63	4.65	5.53	8.47	7.28	8.99	5.22	4.62	4.53	4.75	4.55	
18	4.55	4.62	4.65	5.67	7.26	6.97	8.84	5.21	4.61	4.52	4.73	4.54	
19	4.54	4.64	4.62	5.40	7.08	6.86	8.65	5.20	4.59	4.52	4.72	4.56	
20	4.53	4.64	4.59	5.29	6.64	6.82	8.19	5.20	4.56	4.44	4.70	4.58	
21	4.52	4.63	4.57	5.38	6.52	7.08	8.15	5.19	4.55	4.38	4.68	4.56	
22	4.51	4.60	4.55	5.74	6.24	6.91	8.12	5.19	4.54	4.38	4.67	4.56	
23	4.50	4.64	4.52	5.71	6.05	7.00	8.12	5.08	4.54	4.37	4.66	4.78	
24	4.50	4.61	4.50	5.98	5.91	7.27	7.73	5.01	4.53	4.41	4.65	4.82	
25	4.50	4.59	4.49	7.15	7.27	8.07	7.42	4.99	4.52	4.45	4.63	4.72	
26	4.54	4.58	4.50	7.69	8.33	11.07	7.17	4.98	4.53	4.47	4.63	4.62	
27	4.58	4.57	4.54	7.03	9.91	10.89	6.93	4.96	4.54	4.47	4.61	4.58	
28	4.57	4.59	4.53	6.60	11.20	9.77	6.54	4.94	4.55	4.47	4.57	4.56	
29	4.56	4.55	4.54	6.74	10.46	9.01	6.39	4.90	4.55	4.43		4.53	
30	4.69	4.53	4.55	6.39	9.24	8.38	6.28	4.82	4.55	4.40		4.51	
31		4.49		6.75	8.49		6.61		4.54	4.40		4.50	
Mean	4.45	4.67	4.53	5.58	7.27	8.31	7.45	5.43	4.63	4.49	4.56	4.56	
Max	4.69	5.00	4.68	7.69	11.20	11.07	10.52	6.60	4.81	4.55	4.84	4.82	11.20
Min	4.16	4.49	4.40	4.58	5.79	6.82	6.05	4.82	4.52	4.37	4.41	4.50	4.16
Annual Max Momentary Gage Height	11.57		m. (MSL.),			at 07.00 Hours, on Sep 26, 2021							
Zero Gage at Bottom Elevation	3.40		m. (MSL.),			River Bed	2.68	m. (MSL.)					
Left Bank Elevation	12.97		m. (MSL.),										
Right Bank Elevation	13.55		m. (MSL.),			Drainage Area	616	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.83	7.00	1.90	2.80	33.60	85.10	71.00	35.00	5.10	2.40	1.10	2.50	
2	0.60	6.30	1.80	3.60	26.20	75.50	58.75	29.60	5.10	2.40	1.50	2.40	
3	0.50	5.20	1.70	4.10	21.40	80.30	54.00	29.60	5.00	2.30	1.50	2.30	
4	0.40	5.00	1.60	4.90	20.20	69.50	46.50	24.60	4.70	2.20	1.50	2.20	
5	0.48	4.70	1.50	3.80	31.40	76.10	36.80	22.00	4.30	2.30	1.40	2.20	
6	0.43	4.50	1.40	3.30	36.20	60.75	32.80	20.20	4.10	2.40	1.40	2.20	
7	0.43	4.40	1.30	3.20	30.80	56.25	33.60	19.00	4.00	2.50	1.40	2.10	
8	0.55	4.20	1.20	6.20	27.40	129.40	28.20	19.20	3.90	2.40	1.30	2.30	
9	0.68	4.10	1.10	11.40	22.00	177.50	27.40	17.00	3.80	2.40	1.30	2.20	
10	1.50	4.00	1.00	12.60	18.80	154.75	26.00	14.80	3.80	2.40	1.20	2.30	
11	2.60	3.90	1.60	10.30	19.80	124.20	24.00	13.00	3.70	2.30	1.20	2.70	
12	2.90	3.70	3.10	9.10	30.60	93.70	26.60	11.40	3.50	2.30	1.30	2.40	
13	3.20	3.60	3.60	8.00	28.20	73.10	66.80	10.60	3.40	2.30	1.40	2.30	
14	2.90	3.50	3.80	8.90	36.40	62.60	61.75	10.10	3.40	2.30	2.30	2.20	
15	2.80	3.50	3.60	10.70	108.20	57.00	166.90	9.60	3.30	2.30	5.40	2.20	
16	2.70	3.40	3.50	10.80	154.30	57.75	156.10	9.40	3.30	2.30	4.90	2.30	
17	2.60	3.30	3.50	13.60	85.10	51.50	103.15	9.20	3.20	2.30	4.50	2.50	
18	2.50	3.20	3.50	16.40	51.00	43.75	97.90	9.10	3.10	2.20	4.30	2.40	
19	2.40	3.40	3.20	11.00	46.50	41.00	91.25	9.00	2.90	2.20	4.20	2.60	
20	2.30	3.40	2.90	9.90	35.80	40.00	76.70	9.00	2.60	1.40	4.00	2.80	
21	2.20	3.30	2.70	10.80	33.40	46.50	75.50	8.90	2.50	0.95	3.80	2.60	
22	2.10	3.00	2.50	17.80	27.80	42.25	74.60	8.90	2.40	0.95	3.70	2.60	
23	2.00	3.40	2.20	17.20	24.00	44.50	74.60	7.80	2.40	0.93	3.60	4.80	
24	2.00	3.10	2.00	22.60	21.20	51.25	62.90	7.10	2.30	1.10	3.50	5.20	
25	2.00	2.90	1.90	48.25	51.25	73.10	55.00	6.90	2.20	1.50	3.30	4.20	
26	2.40	2.80	2.00	61.75	80.90	193.50	48.75	6.80	2.30	1.70	3.30	3.20	
27	2.80	2.70	2.40	45.25	139.45	184.50	42.75	6.60	2.40	1.70	3.10	2.80	
28	2.70	2.90	2.30	35.00	200.00	133.80	33.80	6.40	2.50	1.70	2.70	2.60	
29	2.60	2.50	2.40	38.00	164.20	103.85	30.80	6.00	2.50	1.30		2.30	
30	3.90	2.30	2.50	30.80	112.60	82.40	28.60	5.20	2.50	1.00		2.10	
31		1.90		38.25	85.70		35.20		2.40	1.00		2.00	
Total	58.00	115.10	69.70	530.30	1804.40	2565.40	1848.70	402.00	102.60	59.43	74.10	81.50	7711.23 CMSDAY
Mean	1.93	3.71	2.32	17.11	58.21	85.51	59.64	13.40	3.31	1.92	2.65	2.63	21.13 CMS
Max	3.90	7.00	3.80	61.75	200.00	193.50	166.90	35.00	5.10	2.50	5.40	5.20	200.00 CMS
Min	0.40	1.90	1.00	2.80	18.80	40.00	24.00	5.20	2.20	0.93	1.10	2.00	0.40 CMS
Runoff	5.01	9.94	6.02	45.82	155.90	221.65	159.73	34.73	8.86	5.13	6.40	7.04	666.25 MCM
Momentary Peak	218.50	CMS, at 11.57 m. (MSL.), at 07.00 Hours, on Sep 26, 2021											
Runoff Yield	34.30	Liters/Second/Square KM.			Momentary Peak Yield	354.71	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

Khwae Hanuman at Ban Wang Man , Prachin Buri (Kgt.34)

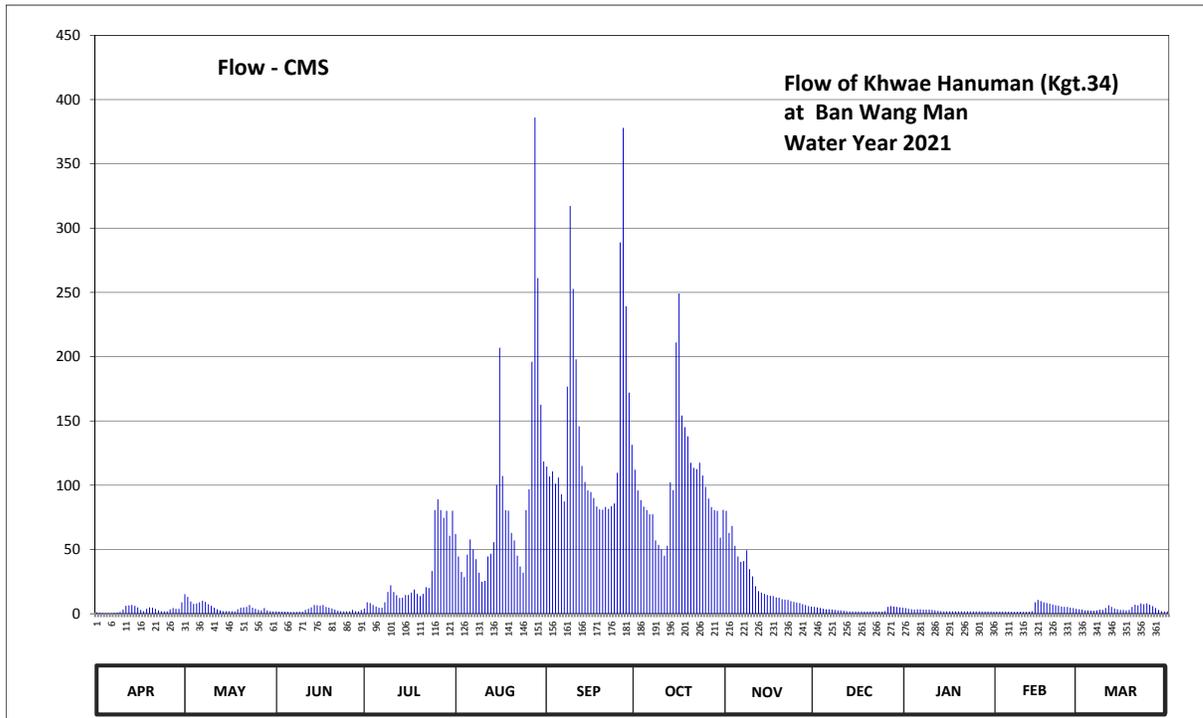
Lat 14 - 06 - 17 N Long 101 - 44 - 39 E

Location : on left bank at the bridge.

	Ban Wang Man	Amphoe Na Di	Changwat Prachin Buri
<b>Drainage Area</b>	1,207 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+3.560 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+12.474 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

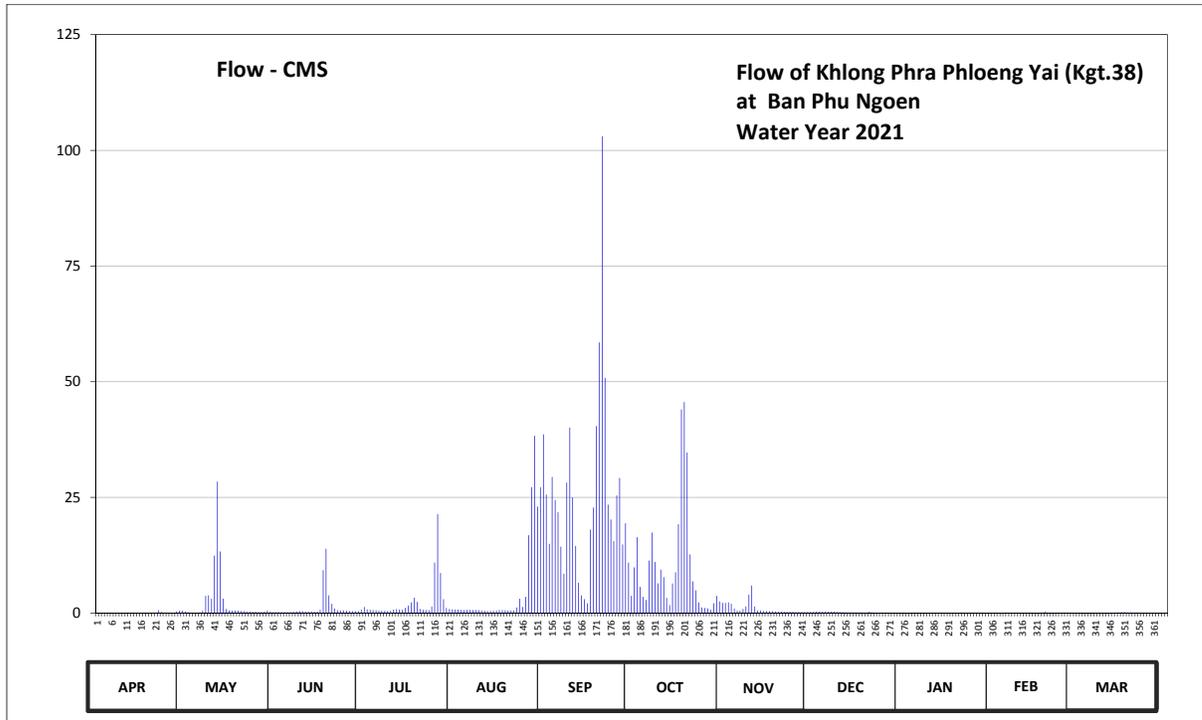
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.81	5.44	4.96	5.07	6.20	8.15	8.10	6.45	5.11	5.08	4.94	5.05	
2	4.75	5.37	4.94	5.23	5.95	7.97	7.63	6.21	5.10	5.06	4.94	5.04	
3	4.70	5.25	4.93	5.21	5.78	8.07	7.32	6.27	5.08	5.05	4.94	5.02	
4	4.67	5.19	4.92	5.16	5.72	7.81	7.05	6.07	5.06	5.04	4.94	5.02	
5	4.67	5.20	4.90	5.12	5.97	7.95	6.67	5.95	5.05	5.05	4.92	5.01	
6	4.67	5.23	4.88	5.09	6.14	7.53	6.37	5.89	5.05	5.05	4.91	5.01	
7	4.71	5.27	4.88	5.09	6.03	7.27	6.37	5.90	5.04	5.04	4.90	5.02	
8	4.77	5.24	4.90	5.23	5.92	9.16	6.13	6.02	5.03	5.04	4.91	5.04	
9	4.87	5.18	4.91	5.50	5.77	10.42	6.08	5.81	5.02	5.04	4.92	5.03	
10	5.04	5.14	4.92	5.63	5.67	9.94	6.03	5.73	5.02	5.03	4.89	5.08	
11	5.14	5.09	5.03	5.50	5.68	9.41	5.96	5.62	5.01	5.02	4.90	5.15	
12	5.15	5.05	5.06	5.41	5.95	8.73	6.07	5.52	5.00	5.01	4.91	5.11	
13	5.16	5.02	5.10	5.34	5.98	8.16	7.84	5.48	4.98	4.99	4.99	5.07	
14	5.14	4.99	5.16	5.35	6.11	7.85	7.64	5.45	4.98	4.98	5.23	5.05	
15	5.10	5.00	5.15	5.42	7.77	7.63	9.55	5.42	4.97	4.98	5.29	5.03	
16	5.03	5.00	5.14	5.42	9.51	7.59	9.91	5.40	4.97	4.97	5.26	5.03	
17	5.00	4.99	5.16	5.48	7.98	7.40	8.86	5.39	4.96	4.98	5.23	5.02	
18	5.06	4.98	5.11	5.56	6.70	7.06	8.72	5.36	4.95	4.98	5.21	5.03	
19	5.10	5.05	5.09	5.45	6.47	6.91	8.60	5.35	4.94	4.97	5.19	5.11	
20	5.09	5.09	5.07	5.39	6.21	6.86	8.21	5.31	4.94	4.97	5.17	5.17	
21	5.06	5.10	5.04	5.45	6.13	7.04	8.13	5.30	4.94	4.97	5.15	5.15	
22	5.02	5.11	5.01	5.61	5.96	6.94	8.11	5.29	4.94	4.97	5.14	5.20	
23	4.99	5.16	4.99	5.60	5.84	7.08	8.21	5.26	4.93	4.97	5.12	5.18	
24	4.98	5.09	4.97	5.79	5.77	7.19	7.99	5.24	4.93	4.98	5.11	5.20	
25	4.98	5.06	4.96	6.67	6.70	8.04	7.72	5.22	4.99	4.97	5.11	5.17	
26	5.05	5.03	4.98	7.35	7.66	10.23	7.38	5.21	5.11	4.96	5.09	5.13	
27	5.08	5.02	5.03	6.69	9.39	10.76	7.03	5.18	5.13	4.94	5.08	5.08	
28	5.06	5.08	5.00	6.34	10.80	9.82	6.71	5.16	5.12	4.95	5.06	5.03	
29	5.06	5.02	4.98	6.43	10.01	9.10	6.46	5.13	5.11	4.95		4.99	
30	5.23	5.00	5.03	6.18	8.98	8.49	6.16	5.12	5.10	4.94		4.95	
31		4.98		6.42	8.23		6.78		5.09	4.93		4.95	
Mean	4.97	5.11	5.01	5.65	6.87	8.22	7.41	5.56	5.02	5.00	5.05	5.07	
Max	5.23	5.44	5.16	7.35	10.80	10.76	9.91	6.45	5.13	5.08	5.29	5.20	10.80
Min	4.67	4.98	4.88	5.07	5.67	6.86	5.96	5.12	4.93	4.93	4.89	4.95	4.67
Annual Max Momentary Gage Height	11.05		m. (MSL.) ,				at 03.00 Hours, on Sep 27, 2021						
Zero Gage at Bottom Elevation	3.56		m. (MSL.) ,			River Bed	1.48	m. (MSL.)					
Left Bank Elevation	11.22		m. (MSL.) ,										
Right Bank Elevation	11.32		m. (MSL.) ,			Drainage Are	1,207	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	15.20	1.80	4.10	62.00	114.50	112.00	80.10	5.30	4.40	1.70	3.50	
2	0.75	13.10	1.70	8.90	44.50	106.80	95.90	62.90	5.00	3.80	1.70	3.20	
3	0.50	9.50	1.65	8.30	32.60	110.80	88.40	68.30	4.40	3.50	1.70	2.60	
4	0.35	7.70	1.60	6.80	28.40	101.30	83.25	52.90	3.80	3.20	1.70	2.60	
5	0.35	8.00	1.50	5.60	45.90	106.00	80.54	44.50	3.50	3.50	1.60	2.30	
6	0.35	8.90	1.40	4.70	57.80	92.90	77.30	40.30	3.50	3.50	1.55	2.30	
7	0.55	10.10	1.40	4.70	50.10	87.40	77.30	41.00	3.20	3.20	1.50	2.60	
8	0.85	9.20	1.50	8.90	42.40	176.80	57.10	49.40	2.90	3.20	1.55	3.20	
9	1.35	7.40	1.55	17.00	31.90	317.20	53.60	34.70	2.60	3.20	1.60	2.90	
10	3.20	6.20	1.60	22.10	24.90	252.80	50.10	29.10	2.60	2.90	1.45	4.40	
11	6.20	4.70	2.90	17.00	25.60	197.90	45.20	21.40	2.30	2.60	1.50	6.50	
12	6.50	3.50	3.80	14.30	44.50	145.80	52.90	17.60	2.00	2.30	1.55	5.30	
13	6.80	2.60	5.00	12.20	46.60	115.00	102.20	16.40	1.90	1.95	1.95	4.10	
14	6.20	1.95	6.80	12.50	55.70	102.50	96.20	15.50	1.90	1.90	8.90	3.50	
15	5.00	2.00	6.50	14.60	100.10	95.90	211.00	14.60	1.85	1.90	10.70	2.90	
16	2.90	2.00	6.20	14.60	207.00	94.70	249.20	14.00	1.85	1.85	9.80	2.90	
17	2.00	1.95	6.80	16.40	107.20	90.00	154.20	13.70	1.80	1.90	8.90	2.60	
18	3.80	1.90	5.30	18.80	80.60	83.40	145.20	12.80	1.75	1.90	8.30	2.90	
19	5.00	3.50	4.70	15.50	80.14	81.15	138.00	12.50	1.70	1.85	7.70	5.30	
20	4.70	4.70	4.10	13.70	62.90	80.92	117.50	11.30	1.70	1.85	7.10	7.10	
21	3.80	5.00	3.20	15.50	57.10	83.10	113.50	11.00	1.70	1.85	6.50	6.50	
22	2.60	5.30	2.30	20.70	45.20	81.60	112.50	10.70	1.70	1.85	6.20	8.00	
23	1.95	6.80	1.95	20.00	36.80	83.70	117.50	9.80	1.65	1.85	5.60	7.40	
24	1.90	4.70	1.85	33.30	31.90	85.80	107.60	9.20	1.65	1.90	5.30	8.00	
25	1.90	3.80	1.80	80.54	80.60	109.60	98.60	8.60	1.95	1.85	5.30	7.10	
26	3.50	2.90	1.90	89.00	96.80	288.90	89.60	8.30	5.30	1.80	4.70	5.90	
27	4.40	2.60	2.90	80.58	196.10	378.00	82.95	7.40	5.90	1.70	4.40	4.40	
28	3.80	4.40	2.00	74.60	386.00	239.20	80.62	6.80	5.60	1.75	3.80	2.90	
29	3.80	2.60	1.90	80.06	261.20	172.00	80.12	5.90	5.30	1.75		1.95	
30	8.90	2.00	2.90	60.60	162.60	131.50	59.20	5.60	5.00	1.70		1.75	
31		1.90		80.04	118.50		80.76		4.70	1.65		1.75	
Total	94.95	166.10	90.50	875.62	2703.64	4207.17	3110.04	736.30	96.00	74.05	124.25	128.35	12406.97 CMSDAY
Mean	3.17	5.36	3.02	28.25	87.21	140.24	100.32	24.54	3.10	2.39	4.44	4.14	33.99 CMS
Max	8.90	15.20	6.80	89.00	386.00	378.00	249.20	80.10	5.90	4.40	10.70	8.00	386.00 CMS
Min	0.35	1.90	1.40	4.10	24.90	80.92	45.20	5.60	1.65	1.65	1.45	1.75	0.35 CMS
Runoff	8.20	14.35	7.82	75.65	233.59	363.50	268.71	63.62	8.29	6.40	10.74	11.09	1071.96 MCM
Momentary Peak		437.50		CMS, at 11.05 m. (MSL.), at 03.00 Hours, on Sep 27, 2021									
Runoff Yield		28.16		Liters/Second/Square KM.		Momentary Peak Yield	362.47						Liters/Second/Square KM.

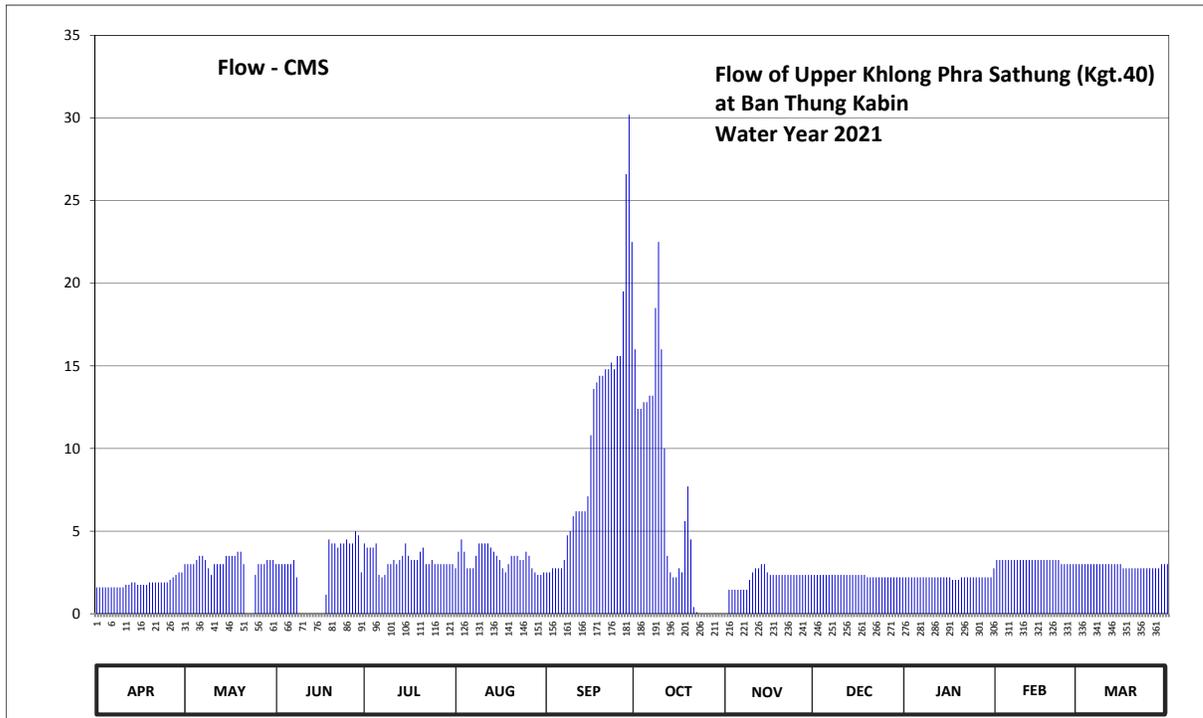




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.35	0.20	1.30	0.75	25.60	9.85	2.20	0.25	0.00	0.00	0.00	
2	0.00	0.20	0.20	0.80	0.75	14.95	16.40	2.30	0.35	0.00	0.00	0.00	
3	0.00	0.00	0.20	0.70	0.70	29.40	5.65	2.00	0.35	0.00	0.00	0.00	
4	0.00	0.00	0.20	0.65	0.65	24.40	3.50	0.95	0.35	0.00	0.00	0.00	
5	0.00	0.00	0.20	0.60	0.70	21.80	2.80	0.55	0.35	0.00	0.00	0.00	
6	0.00	0.15	0.20	0.55	0.70	14.35	11.35	0.50	0.30	0.00	0.00	0.05	
7	0.00	0.55	0.25	0.50	0.65	8.50	17.40	0.90	0.30	0.00	0.00	0.05	
8	0.00	3.70	0.35	0.50	0.65	28.20	11.05	1.40	0.30	0.00	0.00	0.05	
9	0.00	3.80	0.40	0.45	0.60	40.10	6.40	4.00	0.25	0.00	0.00	0.10	
10	0.00	3.10	0.40	0.50	0.55	25.00	9.40	5.95	0.25	0.00	0.00	0.05	
11	0.00	12.40	0.35	0.75	0.50	14.50	7.75	1.40	0.20	0.00	0.00	0.00	
12	0.00	28.40	0.35	0.85	0.45	6.55	3.30	0.55	0.20	0.00	0.00	0.05	
13	0.00	13.30	0.35	0.75	0.45	3.80	1.70	0.55	0.15	0.00	0.00	0.05	
14	0.00	3.10	0.30	0.70	0.50	3.00	6.40	0.45	0.15	0.00	0.00	0.10	
15	0.00	0.85	0.30	1.10	0.55	2.10	8.80	0.45	0.15	0.00	0.00	0.15	
16	0.00	0.55	0.70	1.60	0.65	18.00	19.20	0.40	0.15	0.00	0.00	0.20	
17	0.00	0.50	9.25	2.30	0.65	22.80	44.00	0.40	0.15	0.00	0.10	0.20	
18	0.00	0.50	13.90	3.30	0.60	40.40	45.60	0.35	0.10	0.00	0.35	0.15	
19	0.00	0.50	3.80	2.40	0.55	58.50	34.70	0.30	0.10	0.00	0.10	0.15	
20	0.00	0.45	2.00	0.85	0.55	103.00	12.70	0.30	0.30	0.00	0.00	0.10	
21	0.00	0.40	1.00	0.70	0.55	50.80	6.85	0.30	0.15	0.00	0.00	0.15	
22	0.60	0.35	0.60	0.65	1.20	23.40	4.90	0.30	0.00	0.00	0.00	0.05	
23	0.25	0.35	0.55	0.60	3.10	20.20	2.30	0.30	0.00	0.00	0.00	0.00	
24	0.00	0.30	0.55	1.40	1.30	15.55	1.20	0.30	0.00	0.00	0.00	0.00	
25	0.00	0.30	0.50	10.90	3.50	25.40	1.10	0.25	0.00	0.00	0.00	0.05	
26	0.00	0.25	0.45	21.40	16.80	29.20	1.00	0.25	0.00	0.00	0.00	0.05	
27	0.05	0.25	0.40	8.65	27.20	14.80	0.70	0.25	0.00	0.00	0.00	0.05	
28	0.35	0.30	0.40	3.00	38.30	19.40	2.10	0.25	0.00	0.00	0.00	0.00	
29	0.50	0.50	0.40	1.10	23.00	10.90	3.70	0.25	0.00	0.00	0.00	0.00	
30	0.50	0.35	0.75	0.90	27.20	3.70	2.50	0.25	0.00	0.00	0.00	0.00	
31		0.20		0.80	38.60		2.20		0.00	0.00		0.00	
Total	2.25	75.95	39.50	71.25	192.90	718.30	306.50	28.60	4.85	0.00	0.55	1.80	1442.45 CMSDAY
Mean	0.07	2.45	1.32	2.30	6.22	23.94	9.89	0.95	0.16	0.00	0.02	0.06	3.95 CMS
Max	0.60	28.40	13.90	21.40	38.60	103.00	45.60	5.95	0.35	0.00	0.35	0.20	103.00 CMS
Min	0.00	0.00	0.20	0.45	0.45	2.10	0.70	0.25	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.19	6.56	3.41	6.16	16.67	62.06	26.48	2.47	0.42	0.00	0.05	0.16	124.63 MCM
Momentary Peak		115.00		CMS, at 5.08 m. (A.D),		at 12.00 Hours, on Sep 20, 2021							
Runoff Yield		13.72		Liters/Second/Square KM.		Momentary Peak Yield	399.31		Liters/Second/Square KM.				





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	3.00	3.00	4.25	2.75	2.50	16.00	0.00	2.35	2.20	3.25	3.00	
2	1.60	3.00	3.00	4.00	3.75	2.50	12.40	1.45	2.35	2.20	3.25	3.00	
3	1.60	3.00	3.00	4.00	4.50	2.75	12.40	1.45	2.35	2.20	3.25	3.00	
4	1.60	3.00	3.00	4.00	3.75	2.75	12.80	1.45	2.35	2.20	3.25	3.00	
5	1.60	3.25	3.00	4.25	2.75	2.75	12.80	1.45	2.35	2.20	3.25	3.00	
6	1.60	3.50	3.00	2.35	2.75	2.75	13.20	1.45	2.35	2.20	3.25	3.00	
7	1.60	3.50	3.25	2.20	2.75	3.25	13.20	1.45	2.35	2.20	3.25	3.00	
8	1.60	3.25	2.20	2.35	3.50	4.75	18.50	1.45	2.35	2.20	3.25	3.00	
9	1.60	2.75	0.00	3.00	4.25	5.00	22.50	2.05	2.35	2.20	3.25	3.00	
10	1.60	2.35	0.00	3.00	4.25	5.90	16.00	2.50	2.35	2.20	3.25	3.00	
11	1.75	3.00	0.00	3.25	4.25	6.20	10.00	2.75	2.35	2.20	3.25	3.00	
12	1.75	3.00	0.00	3.00	4.25	6.20	3.50	2.75	2.35	2.20	3.25	3.00	
13	1.90	3.00	0.00	3.25	4.00	6.20	2.50	3.00	2.35	2.20	3.25	3.00	
14	1.90	3.00	0.00	3.50	3.75	6.20	2.20	3.00	2.35	2.20	3.25	3.00	
15	1.75	3.50	0.00	4.25	3.50	7.10	2.20	2.50	2.35	2.20	3.25	3.00	
16	1.75	3.50	0.00	3.50	3.25	10.80	2.75	2.35	2.35	2.20	3.25	2.75	
17	1.75	3.50	0.00	3.25	2.75	13.60	2.50	2.35	2.35	2.05	3.25	2.75	
18	1.75	3.50	1.15	3.25	2.50	14.00	5.60	2.35	2.35	2.05	3.25	2.75	
19	1.90	3.75	4.50	3.25	3.00	14.40	7.70	2.35	2.20	2.05	3.25	2.75	
20	1.90	3.75	4.25	3.75	3.50	14.40	4.50	2.35	2.20	2.20	3.25	2.75	
21	1.90	3.00	4.25	4.00	3.50	14.80	0.40	2.35	2.20	2.20	3.25	2.75	
22	1.90	0.00	4.00	3.00	3.50	14.80	0.10	2.35	2.20	2.20	3.25	2.75	
23	1.90	0.00	4.25	3.00	3.25	15.20	0.00	2.35	2.20	2.20	3.00	2.75	
24	1.90	0.00	4.25	3.25	3.25	14.80	0.00	2.35	2.20	2.20	3.00	2.75	
25	1.90	2.35	4.50	3.00	3.75	15.60	0.00	2.35	2.20	2.20	3.00	2.75	
26	2.05	3.00	4.25	3.00	3.50	15.60	0.00	2.35	2.20	2.20	3.00	2.75	
27	2.20	3.00	4.25	3.00	2.75	19.50	0.00	2.35	2.20	2.20	3.00	2.75	
28	2.35	3.00	5.00	3.00	2.50	26.60	0.00	2.35	2.20	2.20	3.00	2.75	
29	2.50	3.25	4.75	3.00	2.35	30.20	0.00	2.35	2.20	2.20	3.00	2.75	
30	2.50	3.25	2.50	3.00	2.35	22.50	0.00	2.35	2.20	2.20	3.00	2.75	
31		3.25		3.00	2.50		0.00		2.20	2.75		3.00	
Total	55.20	88.20	75.35	101.90	102.95	323.60	193.75	63.95	70.90	68.30	89.50	89.75	1323.35 CMSDAY
Mean	1.84	2.85	2.51	3.29	3.32	10.79	6.25	2.13	2.29	2.20	3.20	2.90	3.63 CMS
Max	2.50	3.75	5.00	4.25	4.50	30.20	22.50	3.00	2.35	2.75	3.25	3.00	30.20 CMS
Min	1.60	0.00	0.00	2.20	2.35	2.50	0.00	0.00	2.20	2.05	3.00	2.75	0.00 CMS
Runoff	4.77	7.62	6.51	8.80	8.89	27.96	16.74	5.53	6.13	5.90	7.73	7.75	114.34 MCM
Momentary Peak	30.20	CMS, at 80.07 m. (MSL), at 11.00 Hours, on Sep 28, 2021											
Runoff Yield	6.28	Liters/Second/Square KM.		Momentary Peak Yield		52.34	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Tharapha , Sa Kaeo (Kgt.42)

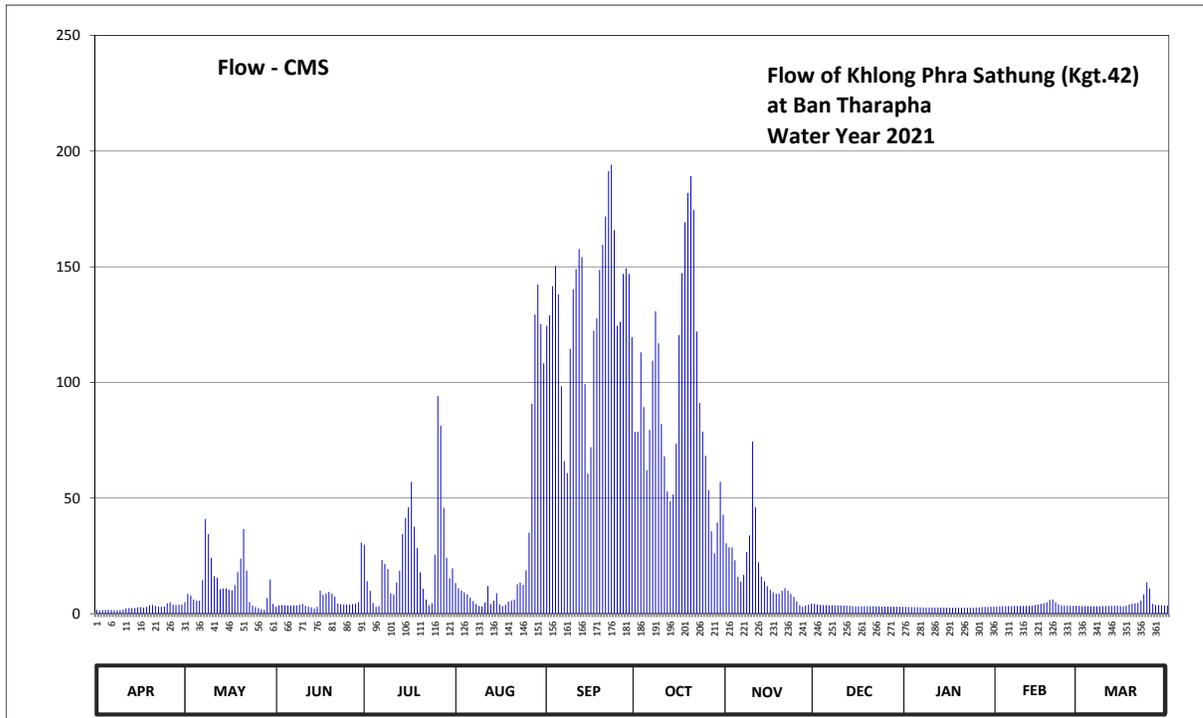
Lat 13 - 53 - 49 N Long 101 - 57 - 18 E

Location : on left bank at the bridge.

	<b>Ban Tharapha</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kaeo</b>
<b>Drainage Area</b>	2,624 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+14.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+26.947 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 85 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.74	15.39	15.01	17.39	16.23	21.27	19.70	17.43	15.24	14.99	15.02	15.07	
2	14.69	15.76	15.12	16.31	16.00	21.40	19.71	17.31	15.19	14.99	15.04	15.06	
3	14.71	15.68	15.15	15.89	15.90	21.76	20.90	17.31	15.15	14.98	15.05	15.06	
4	14.73	15.52	15.13	15.34	15.82	22.01	20.11	16.94	15.14	14.97	15.06	15.05	
5	14.75	15.46	15.11	14.99	15.74	21.66	19.04	16.47	15.14	14.96	15.06	15.05	
6	14.73	15.46	15.10	15.07	15.60	20.41	19.74	16.29	15.13	14.95	15.06	15.04	
7	14.71	16.35	15.11	16.95	15.44	19.20	20.78	16.52	15.13	14.94	15.07	15.05	
8	14.70	18.00	15.11	16.84	15.25	18.99	21.45	17.18	15.13	14.94	15.07	15.05	
9	14.71	17.67	15.18	16.69	15.07	20.95	21.03	17.64	15.12	14.93	15.07	15.06	
10	14.75	17.01	15.25	15.78	15.02	21.72	19.84	19.54	15.12	14.93	15.07	15.07	
11	14.86	16.48	15.09	15.74	15.38	21.97	19.28	18.25	15.11	14.93	15.07	15.07	
12	14.89	16.43	15.02	16.25	16.10	22.22	18.59	16.88	15.09	14.94	15.08	15.08	
13	14.88	15.96	14.95	16.64	15.24	22.12	18.38	16.47	15.08	14.94	15.09	15.08	
14	14.90	15.99	14.85	17.67	15.46	20.44	18.53	16.30	15.06	14.93	15.16	15.08	
15	14.95	15.99	14.99	18.02	15.79	18.98	19.50	16.09	15.03	14.93	15.21	15.06	
16	14.98	15.94	15.90	18.25	15.21	19.44	21.15	15.94	15.03	14.92	15.25	15.05	
17	14.94	15.91	15.72	18.80	15.04	21.21	21.92	15.83	15.04	14.92	15.31	15.09	
18	14.99	16.14	15.78	17.83	15.17	21.36	22.55	15.76	15.05	14.92	15.39	15.19	
19	15.12	16.60	15.85	17.29	15.42	21.96	22.91	15.76	15.04	14.92	15.50	15.26	
20	15.16	16.99	15.77	16.59	15.47	22.27	23.12	15.90	15.04	14.92	15.52	15.30	
21	15.07	17.78	15.64	15.98	15.51	22.62	22.70	16.01	15.04	14.92	15.39	15.34	
22	15.02	16.64	15.26	15.51	16.17	23.18	21.20	15.89	15.03	14.92	15.22	15.47	
23	15.01	15.40	15.22	15.13	16.24	23.26	20.17	15.75	15.03	14.92	15.13	15.74	
24	15.02	15.10	15.20	15.31	16.15	22.45	19.71	15.63	15.02	14.92	15.10	16.26	
25	15.30	14.97	15.19	17.10	16.65	21.27	19.29	15.42	15.02	14.93	15.10	15.99	
26	15.39	14.90	15.20	20.27	17.70	21.32	18.62	15.13	15.02	14.95	15.08	15.25	
27	15.18	14.80	15.23	19.81	20.16	21.91	17.73	15.00	15.01	14.97	15.08	15.15	
28	15.14	14.74	15.26	18.24	21.41	21.98	17.14	15.10	15.01	14.99	15.08	15.14	
29	15.18	15.58	15.40	17.01	21.78	21.91	17.92	15.18	15.00	14.99		15.13	
30	15.20	16.38	17.45	16.42	21.29	21.12	18.80	15.26	15.00	15.01		15.12	
31		15.25		16.71	20.74		18.09		15.00	15.01		15.12	
Mean	14.95	16.01	15.34	16.83	16.59	21.41	19.99	16.34	15.07	14.95	15.15	15.21	
Max	15.39	18.00	17.45	20.27	21.78	23.26	23.12	19.54	15.24	15.01	15.52	16.26	23.26
Min	14.69	14.74	14.85	14.99	15.02	18.98	17.14	15.00	14.92	15.02	15.04	14.69	
Annual Max Momentary Gage Height	23.42		m. (MSL.) ,			at 02.00 Hours, on Sep 23, 2021							
Zero Gage at Bottom Elevation	14.50		m. (MSL.) ,			River Bed	14.23	m. (MSL.)					
Left Bank Elevation		25.93		m. (MSL.) ,									
Right Bank Elevation		25.85		m. (MSL.) ,		Drainage Area	2,624	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.70	4.95	3.05	29.85	13.30	124.45	78.50	30.45	4.20	2.95	3.10	3.35	
2	1.45	8.60	3.60	14.10	11.00	129.00	78.75	28.65	3.95	2.95	3.20	3.30	
3	1.55	7.80	3.75	9.90	10.00	141.60	113.00	28.65	3.75	2.90	3.25	3.30	
4	1.65	6.20	3.65	4.70	9.20	150.35	89.30	23.10	3.70	2.85	3.30	3.25	
5	1.75	5.60	3.55	2.95	8.40	138.10	62.00	16.05	3.70	2.80	3.30	3.25	
6	1.65	5.60	3.50	3.35	7.00	98.30	79.50	13.90	3.65	2.75	3.30	3.20	
7	1.55	14.50	3.55	23.25	5.40	66.00	109.40	16.80	3.65	2.70	3.35	3.25	
8	1.50	41.00	3.55	21.60	4.25	60.80	130.75	26.70	3.65	2.70	3.35	3.25	
9	1.55	34.40	3.90	19.35	3.35	114.50	116.90	33.80	3.60	2.65	3.35	3.30	
10	1.75	24.15	4.25	8.80	3.10	140.20	82.00	74.50	3.60	2.65	3.35	3.35	
11	2.30	16.20	3.45	8.40	4.90	148.95	68.00	46.00	3.55	2.65	3.35	3.35	
12	2.45	15.45	3.10	13.50	12.00	157.70	52.80	22.20	3.45	2.70	3.40	3.40	
13	2.40	10.60	2.75	18.60	4.20	154.20	48.60	16.05	3.40	2.70	3.45	3.40	
14	2.50	10.90	2.25	34.40	5.60	99.20	51.60	14.00	3.30	2.65	3.80	3.40	
15	2.75	10.90	2.95	41.40	8.90	60.60	73.50	11.90	3.15	2.65	4.05	3.30	
16	2.90	10.40	10.00	46.00	4.05	72.00	120.50	10.40	3.15	2.60	4.25	3.25	
17	2.70	10.10	8.20	57.00	3.20	122.35	147.20	9.30	3.20	2.60	4.55	3.45	
18	2.95	12.40	8.80	37.60	3.85	127.60	169.25	8.60	3.25	2.60	4.95	3.95	
19	3.60	18.00	9.50	28.35	5.20	148.60	181.85	8.60	3.20	2.60	6.00	4.30	
20	3.80	23.85	8.70	17.85	5.70	159.45	189.20	10.00	3.20	2.60	6.20	4.50	
21	3.35	36.60	7.40	10.80	6.10	171.70	174.50	11.10	3.20	2.60	4.95	4.70	
22	3.10	18.60	4.30	6.10	12.70	191.30	122.00	9.90	3.15	2.60	4.10	5.70	
23	3.05	5.00	4.10	3.65	13.40	194.10	91.10	8.50	3.15	2.60	3.65	8.40	
24	3.10	3.50	4.00	4.55	12.50	165.75	78.75	7.30	3.10	2.60	3.50	13.60	
25	4.50	2.85	3.95	25.50	18.75	124.45	68.25	5.20	3.10	2.65	3.50	10.90	
26	4.95	2.50	4.00	94.10	35.00	126.20	53.40	3.65	3.10	2.75	3.40	4.25	
27	3.90	2.00	4.15	81.25	90.80	146.85	35.60	3.00	3.05	2.85	3.40	3.75	
28	3.70	1.70	4.30	45.80	129.35	149.30	26.10	3.50	3.05	2.95	3.40	3.70	
29	3.90	6.80	5.00	24.15	142.30	146.85	39.40	3.90	3.00	2.95		3.65	
30	4.00	14.80	30.75	15.30	125.15	119.60	57.00	4.30	3.00	3.05		3.60	
31		4.25		19.65	108.20		42.80		3.00	3.05		3.60	
Total	82.00	390.20	168.00	771.80	826.85	3950.05	2831.50	510.00	104.20	84.90	106.75	134.95	9961.20 CMSDAY
Mean	2.73	12.59	5.60	24.90	26.67	131.67	91.34	17.00	3.36	2.74	3.81	4.35	27.29 CMS
Max	4.95	41.00	30.75	94.10	142.30	194.10	189.20	74.50	4.20	3.05	6.20	13.60	194.10 CMS
Min	1.45	1.70	2.25	2.95	3.10	60.60	26.10	3.00	3.00	2.60	3.10	3.20	1.45 CMS
Runoff	7.08	33.71	14.52	66.68	71.44	341.28	244.64	44.06	9.00	7.34	9.22	11.66	860.65 MCM
Momentary Peak	199.80	CMS, at 23.42 m. (MSL), at 02.00 Hours, on Sep 23, 2021											
Runoff Yield	10.40	Liters/Second/Square KM.		Momentary Peak Yield		76.14	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khwae Hanuman at Ban Na Khaem, Prachin Buri (Kgt.43A)

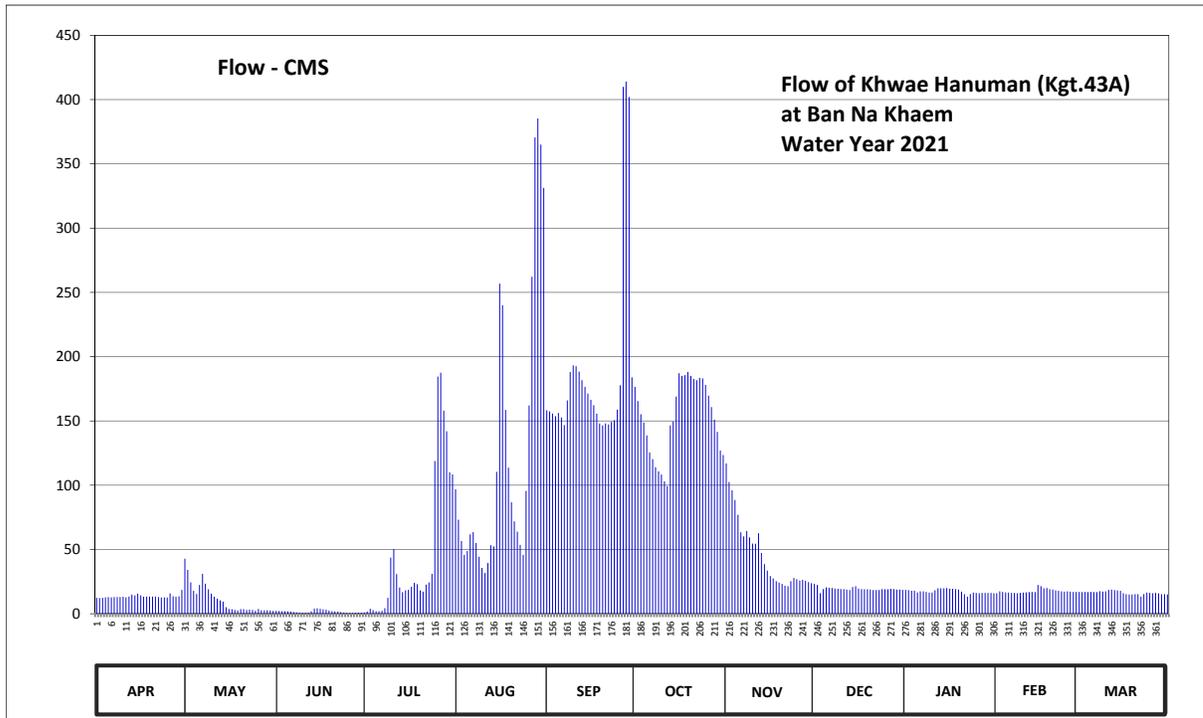
Lat 14 - 01 - 18 N Long 101 - 45 - 02 E

Location : on left bank at the bridge.

	<b>Ban Na Khaem</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	2,102 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+2.073 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+14.431 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2016 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2016 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2016 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 54 discharge measurements made in 2021.		

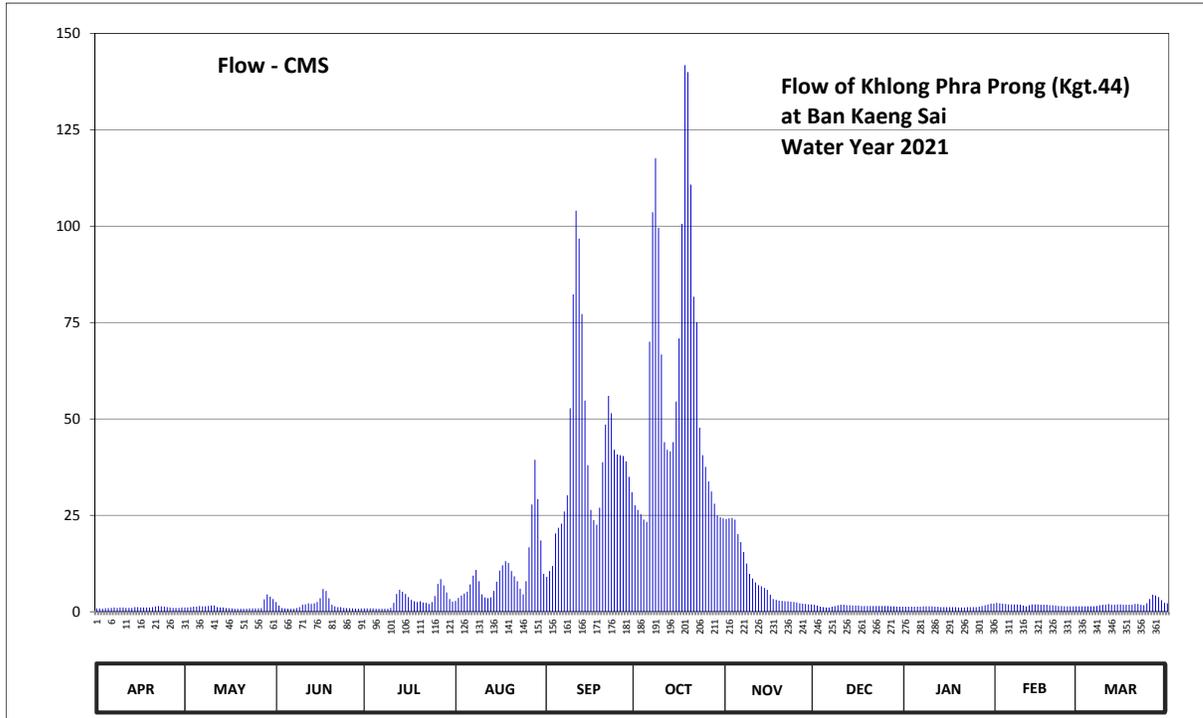
## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.72	4.96	3.02	2.89	6.57	10.51	11.24	8.86	4.26	4.03	3.90	3.95	
2	3.71	4.67	3.01	2.97	5.97	10.48	10.80	8.28	4.22	4.02	3.97	3.94	
3	3.72	4.32	3.00	3.18	5.42	10.41	10.39	8.02	3.90	4.00	3.95	3.95	
4	3.74	3.99	3.00	3.08	5.06	10.33	10.13	7.72	4.06	4.00	3.93	3.94	
5	3.75	3.87	2.98	3.00	5.16	10.43	9.73	7.26	4.13	3.93	3.92	3.95	
6	3.74	4.22	2.97	3.00	5.59	10.29	9.20	6.62	4.11	3.97	3.91	3.94	
7	3.75	4.57	2.94	3.03	5.65	10.05	8.99	6.46	4.10	3.97	3.91	3.94	
8	3.75	4.27	2.91	3.23	5.37	10.82	8.74	6.67	4.08	3.95	3.90	3.98	
9	3.75	4.05	2.88	3.72	5.01	11.67	8.61	6.42	4.07	3.92	3.91	3.96	
10	3.76	3.88	2.86	4.99	4.72	11.84	8.51	6.18	4.06	3.92	3.92	3.97	
11	3.74	3.76	2.86	5.21	4.59	11.82	8.30	6.17	4.06	4.01	3.93	4.03	
12	3.77	3.68	2.87	4.56	4.85	11.68	8.15	5.62	4.04	4.09	3.94	4.04	
13	3.84	3.62	2.98	4.12	5.31	11.45	10.04	5.11	4.02	4.09	3.95	4.02	
14	3.81	3.57	3.20	3.94	5.28	11.24	10.16	4.82	4.14	4.09	3.94	4.01	
15	3.88	3.31	3.22	4.01	6.91	11.03	10.94	4.65	4.17	4.10	4.22	3.99	
16	3.81	3.17	3.18	4.03	9.73	10.84	11.64	4.51	4.08	4.08	4.17	3.90	
17	3.76	3.14	3.15	4.15	9.45	10.67	11.57	4.45	4.06	4.07	4.09	3.86	
18	3.77	3.10	3.12	4.30	7.99	10.41	11.59	4.37	4.05	4.06	4.10	3.85	
19	3.77	3.06	3.05	4.25	6.99	10.10	11.67	4.31	4.05	4.04	4.05	3.85	
20	3.77	3.16	3.00	4.01	6.32	10.04	11.57	4.26	4.04	3.96	4.04	3.86	
21	3.77	3.16	2.99	3.96	5.93	10.10	11.49	4.19	4.02	3.86	4.01	3.86	
22	3.75	3.10	2.97	4.23	5.66	10.07	11.45	4.17	4.02	3.76	3.99	3.76	
23	3.73	3.12	2.93	4.32	5.32	10.15	11.52	4.37	4.02	3.87	3.97	3.87	
24	3.74	3.09	2.90	4.57	5.06	10.20	11.50	4.46	4.06	3.92	3.96	3.92	
25	3.73	3.04	2.85	7.12	6.54	10.53	11.30	4.43	4.05	3.91	3.97	3.91	
26	3.89	3.17	2.83	8.51	8.06	11.29	10.97	4.39	4.05	3.90	3.96	3.90	
27	3.78	3.07	2.82	8.57	9.82	11.90	10.61	4.41	4.07	3.91	3.95	3.91	
28	3.76	3.06	2.84	7.98	11.38	11.95	10.22	4.38	4.06	3.91	3.95	3.89	
29	3.78	3.07	2.86	7.66	11.59	11.80	9.84	4.33	4.04	3.91		3.86	
30	4.03	3.06	2.88	6.90	11.30	11.53	9.26	4.29	4.04	3.91		3.86	
31		3.02		6.86	10.82		9.12		4.03	3.90		3.85	
Mean	3.78	3.56	2.97	4.72	6.88	10.85	10.30	5.47	4.07	3.97	3.98	3.92	
Max	4.03	4.96	3.22	8.57	11.59	11.95	11.67	8.86	4.26	4.10	4.22	4.04	11.95
Min	3.71	3.02	2.82	2.89	4.59	10.04	8.15	4.17	3.90	3.76	3.90	3.76	2.82
Annual Max Momentary Gage Height	11.99		m. (MSL.) ,			at 22.00 Hours, on Sep 27, 2021							
Zero Gage at Bottom Elevation	2.07		m. (MSL.) ,			River Bed 1.57	m. (MSL.)						
Left Bank Elevation		13.45	m. (MSL.) ,										
Right Bank Elevation		13.97	m. (MSL.) ,			Drainage Area 2,102	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.40	42.80	2.20	0.95	96.80	158.25	176.50	117.00	23.20	18.60	16.00	17.00	
2	12.20	34.10	2.10	1.70	73.10	157.50	165.50	102.50	22.40	18.40	17.40	16.80	
3	12.40	24.40	2.00	3.80	56.60	155.75	155.25	96.00	16.00	18.00	17.00	17.00	
4	12.80	17.80	2.00	2.80	45.80	153.75	148.75	88.50	19.20	18.00	16.60	16.80	
5	13.00	15.40	1.80	2.00	48.80	156.25	138.75	77.00	20.60	16.60	16.40	17.00	
6	12.80	22.40	1.70	2.00	61.70	152.75	125.50	63.40	20.20	17.40	16.20	16.80	
7	13.00	31.10	1.40	2.30	63.50	146.75	120.25	60.20	20.00	17.40	16.20	16.80	
8	13.00	23.40	1.10	4.30	55.10	166.00	114.00	64.40	19.60	17.00	16.00	17.60	
9	13.00	19.00	0.90	12.40	44.30	188.10	110.75	59.40	19.40	16.40	16.20	17.20	
10	13.20	15.60	0.80	43.70	35.60	193.20	108.25	54.60	19.20	16.40	16.40	17.40	
11	12.80	13.20	0.80	50.30	31.70	192.60	103.00	54.40	19.20	18.20	16.60	18.60	
12	13.40	11.60	0.85	30.80	39.50	188.40	99.25	62.60	18.80	19.80	16.80	18.80	
13	14.80	10.40	1.80	20.40	53.30	181.75	146.50	47.30	18.40	19.80	17.00	18.40	
14	14.20	9.40	4.00	16.80	52.40	176.50	149.50	38.60	20.80	19.80	16.80	18.20	
15	15.60	5.10	4.20	18.20	110.40	171.25	169.00	33.50	21.40	20.00	22.40	17.80	
16	14.20	3.70	3.80	18.60	256.80	166.50	187.20	29.30	19.60	19.60	21.40	16.00	
17	13.20	3.40	3.50	21.00	240.00	162.25	185.10	27.50	19.20	19.40	19.80	15.20	
18	13.40	3.00	3.20	24.00	158.50	155.75	185.70	25.40	19.00	19.20	20.00	15.00	
19	13.40	2.60	2.50	23.00	113.60	148.00	188.10	24.20	19.00	18.80	19.00	15.00	
20	13.40	3.60	2.00	18.20	86.80	146.50	185.10	23.20	18.80	17.20	18.80	15.20	
21	13.40	3.60	1.90	17.20	71.90	148.00	182.75	21.80	18.40	15.20	18.20	15.20	
22	13.00	3.00	1.70	22.60	63.80	147.25	181.75	21.40	18.40	13.20	17.80	13.20	
23	12.60	3.20	1.30	24.40	53.60	149.25	183.60	25.40	18.40	15.40	17.40	15.40	
24	12.80	2.90	1.00	31.10	45.80	150.50	183.00	27.80	19.20	16.40	17.20	16.40	
25	12.60	2.40	0.75	118.80	95.60	158.75	178.00	26.90	19.00	16.20	17.40	16.20	
26	15.80	3.70	0.65	184.50	162.00	177.75	169.75	25.80	19.00	16.00	17.20	16.00	
27	13.60	2.70	0.60	187.50	262.20	410.00	160.75	26.30	19.40	16.20	17.00	16.20	
28	13.20	2.60	0.70	158.00	370.60	414.00	151.00	25.60	19.20	16.20	17.00	15.80	
29	13.60	2.70	0.80	142.00	385.30	402.00	141.50	24.60	18.80	16.20		15.20	
30	18.60	2.60	0.90	110.00	365.00	183.90	127.00	23.80	18.80	16.20		15.20	
31		2.20		108.40	331.40		123.50		18.60	16.00		15.00	
Total	405.40	343.60	52.95	1421.75	3931.50	5659.20	4744.55	1398.40	601.20	539.20	492.20	508.40	20098.35 CMSDAY
Mean	13.51	11.08	1.77	45.86	126.82	188.64	153.05	46.61	19.39	17.39	17.58	16.40	55.06 CMS
Max	18.60	42.80	4.20	187.50	385.30	414.00	188.10	117.00	23.20	20.00	22.40	18.80	414.00 CMS
Min	12.20	2.20	0.60	0.95	31.70	146.50	99.25	21.40	16.00	13.20	16.00	13.20	0.60 CMS
Runoff	35.03	29.69	4.57	122.84	339.68	488.95	409.93	120.82	51.94	46.59	42.53	43.93	1736.50 MCM
Momentary Peak	417.20			CMS, at 11.99 m. (MSL), at 22.00 Hours, on Sep 27, 2021									
Runoff Yield	26.20			Liters/Second/Square KM.			Momentary Peak Yield 198.48						Liters/Second/Square KM.





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	1.10	2.50	0.85	2.80	9.05	27.60	24.05	1.80	1.30	2.30	1.40	
2	0.85	1.10	1.60	0.85	3.60	10.55	26.40	24.20	1.60	1.30	2.20	1.40	
3	0.80	1.20	0.95	0.85	4.20	11.90	25.25	24.35	1.30	1.30	2.10	1.40	
4	0.90	1.30	0.85	0.85	4.70	20.30	23.90	23.90	1.20	1.30	2.00	1.40	
5	0.95	1.30	0.80	0.80	5.20	21.80	23.30	20.15	1.10	1.30	1.90	1.40	
6	1.00	1.50	0.75	0.80	7.10	22.85	70.00	18.05	1.10	1.30	1.90	1.40	
7	1.10	1.40	0.75	0.80	9.35	26.00	103.60	15.50	1.30	1.40	1.90	1.50	
8	1.00	1.40	0.95	0.80	10.85	30.20	117.60	12.50	1.50	1.40	1.90	1.70	
9	1.10	1.50	1.20	0.80	7.90	52.75	99.55	9.80	1.70	1.40	1.80	1.80	
10	1.10	1.60	1.80	1.00	4.50	82.30	66.70	8.60	1.80	1.40	1.60	1.80	
11	1.00	1.60	1.90	2.30	3.70	104.00	44.00	7.60	1.80	1.30	1.40	2.00	
12	1.00	1.20	2.20	4.60	3.50	96.75	42.00	6.90	1.70	1.30	1.70	1.80	
13	1.00	1.10	2.00	5.70	3.70	77.20	41.60	6.60	1.70	1.20	1.90	1.80	
14	1.20	1.10	2.20	5.20	5.40	54.75	44.00	6.20	1.60	1.20	1.90	1.90	
15	1.20	0.95	2.50	4.60	7.80	38.00	54.50	5.70	1.60	1.20	1.90	1.90	
16	1.10	0.90	3.50	3.80	10.70	26.40	70.90	4.40	1.60	1.20	1.80	1.80	
17	1.10	0.85	5.90	3.10	12.05	23.75	100.60	3.30	1.50	1.20	1.80	1.80	
18	1.10	0.80	5.40	2.70	13.10	22.55	141.75	3.10	1.50	1.20	1.80	1.80	
19	1.10	0.80	3.50	2.50	12.65	27.00	139.95	2.90	1.50	1.10	1.70	1.80	
20	1.20	0.80	1.80	2.70	10.55	38.80	110.80	2.80	1.50	1.10	1.70	2.00	
21	1.40	0.80	1.40	2.40	9.20	48.50	81.70	2.70	1.50	1.10	1.60	2.00	
22	1.50	0.80	1.20	2.30	7.90	56.00	75.10	2.70	1.50	1.20	1.50	1.80	
23	1.40	0.85	1.20	2.00	6.00	51.50	47.75	2.60	1.50	1.20	1.50	1.70	
24	1.30	0.85	1.00	2.50	4.50	42.00	40.60	2.50	1.50	1.20	1.40	2.20	
25	1.20	0.85	0.95	4.10	7.90	40.80	37.60	2.40	1.50	1.20	1.40	3.30	
26	1.10	0.85	0.90	7.20	16.70	40.60	33.80	2.20	1.50	1.30	1.40	4.40	
27	1.00	0.95	0.85	8.45	27.80	40.40	31.20	2.10	1.40	1.50	1.40	4.20	
28	1.00	3.20	0.80	6.80	39.40	39.00	28.00	2.00	1.40	1.70	1.40	3.80	
29	1.00	4.50	0.80	5.00	29.20	35.00	24.95	1.90	1.30	1.90		3.00	
30	1.10	3.90	0.85	3.30	18.50	31.00	24.50	1.90	1.30	2.10		2.30	
31		3.30		2.60	9.80		24.20		1.30	2.10		2.20	
<b>Total</b>	<b>32.65</b>	<b>44.35</b>	<b>53.00</b>	<b>92.25</b>	<b>320.25</b>	<b>1221.70</b>	<b>1823.40</b>	<b>253.60</b>	<b>46.10</b>	<b>41.90</b>	<b>48.80</b>	<b>64.70</b>	<b>4042.70</b> CMSDAY
<b>Mean</b>	<b>1.09</b>	<b>1.43</b>	<b>1.77</b>	<b>2.98</b>	<b>10.33</b>	<b>40.72</b>	<b>58.82</b>	<b>8.45</b>	<b>1.49</b>	<b>1.35</b>	<b>1.74</b>	<b>2.09</b>	<b>11.08</b> CMS
<b>Max</b>	<b>1.50</b>	<b>4.50</b>	<b>5.90</b>	<b>8.45</b>	<b>39.40</b>	<b>104.00</b>	<b>141.75</b>	<b>24.35</b>	<b>1.80</b>	<b>2.10</b>	<b>2.30</b>	<b>4.40</b>	<b>141.75</b> CMS
<b>Min</b>	<b>0.80</b>	<b>0.80</b>	<b>0.75</b>	<b>0.80</b>	<b>2.80</b>	<b>9.05</b>	<b>23.30</b>	<b>1.90</b>	<b>1.10</b>	<b>1.10</b>	<b>1.40</b>	<b>1.40</b>	<b>0.75</b> CMS
<b>Runoff</b>	<b>2.82</b>	<b>3.83</b>	<b>4.58</b>	<b>7.97</b>	<b>27.67</b>	<b>105.55</b>	<b>157.54</b>	<b>21.91</b>	<b>3.98</b>	<b>3.62</b>	<b>4.22</b>	<b>5.59</b>	<b>349.29</b> MCM
<b>Momentary Peak</b>	<b>148.00</b>	CMS, at 33.28 m. (MSL), at 18.00 Hours, on Oct 18, 2021											
<b>Runoff Yield</b>	<b>10.97</b>	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		<b>146.53</b>	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Ta Ruang Lang, Chanthaburi (Kgt.45)

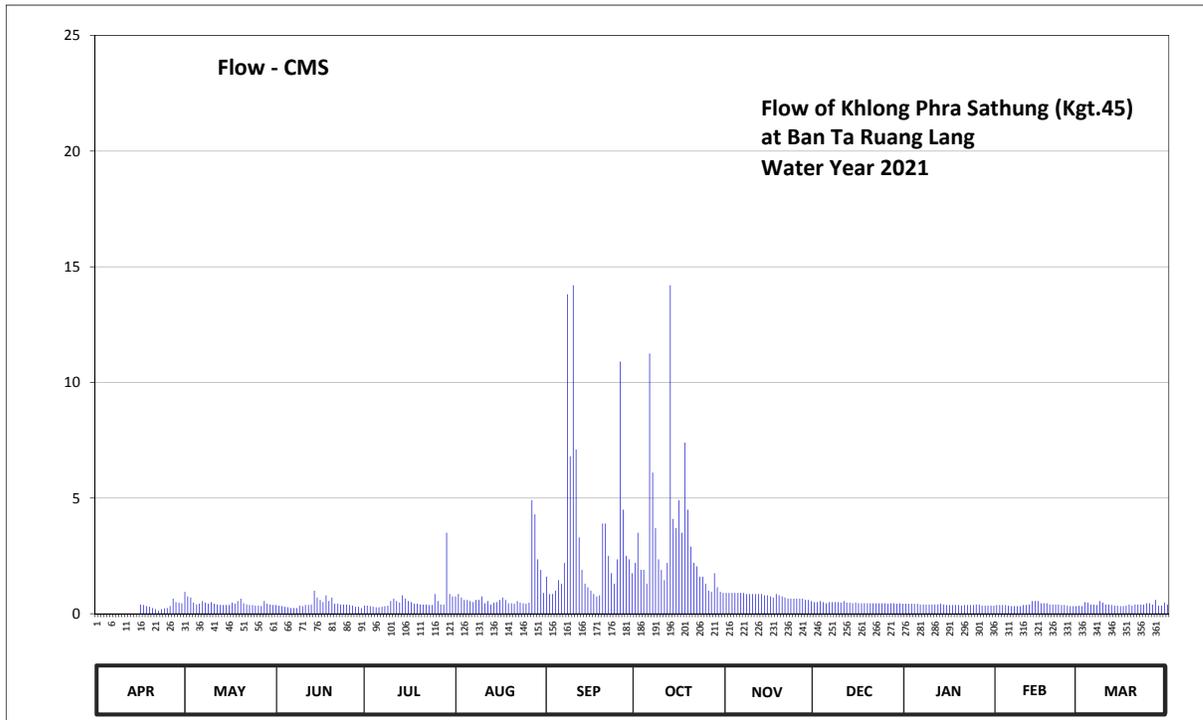
Lat 13 - 12 - 30 N Long 102 - 10 - 07 E

Location : on right bank at the bridge.

	<b>Ban</b> Ta Ruang Lang	<b>Amphoe</b> Soi Dao	<b>Changwat</b> Chanthaburi
<b>Drainage Area</b>	104 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+167.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+172.248 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 8 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	169.49	169.35	169.34	169.45	169.54	169.58	169.48	169.40	169.37	169.35	169.34		
2	169.45	169.34	169.34	169.47	169.47	169.65	169.48	169.40	169.37	169.35	169.33		
3	169.44	169.33	169.33	169.44	169.47	169.56	169.48	169.41	169.37	169.35	169.40		
4	169.39	169.32	169.32	169.42	169.50	169.56	169.48	169.40	169.37	169.35	169.39		
5	169.36	169.31	169.31	169.42	169.53	169.52	169.48	169.38	169.37	169.34	169.36		
6	169.37	169.30	169.31	169.41	169.52	169.95	169.48	169.40	169.36	169.33	169.36		
7	169.41	169.30	169.32	169.40	169.58	169.78	169.48	169.40	169.36	169.33	169.35		
8	169.39	169.30	169.33	169.42	170.02	169.66	169.47	169.40	169.36	169.33	169.41		
9	169.37	169.34	169.34	169.42	169.81	169.59	169.47	169.40	169.36	169.33	169.39		
10	169.40	169.33	169.41	169.45	170.03	169.56	169.47	169.39	169.36	169.35	169.36		
11	169.37	169.35	169.43	169.38	169.82	169.53	169.47	169.41	169.36	169.35	169.36		
12	169.36	169.35	169.41	169.41	169.64	169.58	169.47	169.39	169.36	169.36	169.35		
13	169.35	169.36	169.39	169.36	169.56	170.03	169.47	169.39	169.37	169.41	169.34		
14	169.35	169.50	169.46	169.39	169.52	169.68	169.46	169.38	169.36	169.41	169.34		
15	169.35	169.44	169.43	169.40	169.51	169.66	169.46	169.39	169.35	169.41	169.33		
16	169.36	169.35	169.42	169.41	169.42	169.50	169.72	169.45	169.38	169.35	169.38		
17	169.35	169.39	169.40	169.40	169.44	169.47	169.65	169.44	169.38	169.35	169.38		
18	169.33	169.37	169.46	169.37	169.42	169.45	169.83	169.47	169.38	169.35	169.38		
19	169.32	169.41	169.41	169.37	169.38	169.46	169.70	169.46	169.38	169.35	169.36		
20	169.30	169.43	169.44	169.36	169.38	169.67	169.62	169.45	169.38	169.34	169.36		
21	169.28	169.38	169.37	169.36	169.37	169.67	169.58	169.44	169.38	169.35	169.36		
22	169.25	169.36	169.37	169.36	169.41	169.60	169.57	169.43	169.38	169.35	169.36		
23	169.28	169.35	169.36	169.35	169.39	169.55	169.54	169.43	169.38	169.35	169.35		
24	169.29	169.35	169.36	169.35	169.38	169.52	169.54	169.43	169.38	169.35	169.35		
25	169.30	169.34	169.36	169.47	169.37	169.59	169.52	169.43	169.38	169.36	169.34		
26	169.33	169.34	169.35	169.41	169.39	169.94	169.50	169.43	169.37	169.36	169.33		
27	169.43	169.33	169.34	169.36	169.72	169.70	169.49	169.43	169.38	169.34	169.33		
28	169.40	169.41	169.32	169.36	169.69	169.60	169.55	169.42	169.38	169.34	169.33		
29	169.39	169.37	169.32	169.65	169.59	169.59	169.51	169.42	169.37	169.34	169.34		
30	169.38	169.36	169.30	169.47	169.56	169.55	169.49	169.41	169.38	169.34	169.39		
31	169.35	169.35	169.45	169.48	169.48	169.48	169.48	169.37	169.34	169.34	169.36		
Mean	169.33	169.38	169.36	169.39	169.44	169.61	169.62	169.45	169.39	169.36	169.36	169.36	
Max	169.43	169.49	169.50	169.65	169.72	170.03	170.03	169.48	169.41	169.37	169.41	169.42	170.03
Min	169.25	169.33	169.30	169.31	169.36	169.45	169.48	169.41	169.37	169.34	169.33	169.33	169.25
Annual Max Momentary Gage Height	170.43		m. (MSL.) ,				at 18.00 Hours, on Sep 10, 2021						
Zero Gage at Bottom Elevation	167.00		m. (MSL.) ,			River Bed	167.16	m. (MSL.)					
Left Bank Elevation	172.85		m. (MSL.) ,										
Right Bank Elevation	172.95		m. (MSL.) ,		Drainage Are	104	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1		0.95	0.38	0.35	0.75	1.60	2.20	0.90	0.50	0.43	0.38	0.35	
2		0.75	0.35	0.35	0.85	0.85	3.50	0.90	0.50	0.43	0.38	0.33	
3		0.70	0.33	0.33	0.70	0.85	1.90	0.90	0.55	0.43	0.38	0.50	
4		0.48	0.30	0.30	0.60	1.00	1.90	0.90	0.50	0.43	0.38	0.48	
5		0.40	0.28	0.28	0.60	1.45	1.30	0.90	0.45	0.43	0.35	0.40	
6		0.43	0.25	0.28	0.55	1.30	11.25	0.90	0.50	0.40	0.33	0.40	
7		0.55	0.25	0.30	0.50	2.20	6.10	0.90	0.50	0.40	0.33	0.38	
8		0.48	0.25	0.33	0.60	13.80	3.70	0.85	0.50	0.40	0.33	0.55	
9		0.43	0.35	0.35	0.60	6.80	2.35	0.85	0.50	0.40	0.33	0.48	
10		0.50	0.33	0.55	0.75	14.20	1.90	0.85	0.48	0.40	0.38	0.40	
11		0.43	0.38	0.65	0.45	7.10	1.45	0.85	0.55	0.40	0.38	0.40	
12		0.40	0.38	0.55	0.55	3.30	2.20	0.85	0.48	0.40	0.40	0.38	
13		0.38	0.40	0.48	0.40	1.90	14.20	0.85	0.48	0.43	0.55	0.35	
14		0.38	1.00	0.80	0.48	1.30	4.10	0.80	0.45	0.40	0.55	0.35	
15		0.38	0.70	0.65	0.50	1.15	3.70	0.80	0.48	0.38	0.55	0.33	
16	0.40	0.38	0.60	0.55	0.60	1.00	4.90	0.75	0.45	0.38	0.45	0.33	
17	0.38	0.48	0.50	0.50	0.70	0.85	3.50	0.70	0.45	0.38	0.45	0.35	
18	0.33	0.43	0.80	0.43	0.60	0.75	7.40	0.85	0.45	0.38	0.45	0.40	
19	0.30	0.55	0.55	0.43	0.45	0.80	4.50	0.80	0.45	0.38	0.40	0.35	
20	0.25	0.65	0.70	0.40	0.45	3.90	2.90	0.75	0.45	0.35	0.40	0.40	
21	0.20	0.45	0.43	0.40	0.43	3.90	2.20	0.70	0.45	0.38	0.40	0.40	
22	0.13	0.40	0.43	0.40	0.55	2.50	2.05	0.65	0.45	0.38	0.40	0.40	
23	0.20	0.38	0.40	0.38	0.48	1.75	1.60	0.65	0.45	0.38	0.38	0.40	
24	0.23	0.38	0.40	0.38	0.45	1.30	1.60	0.65	0.45	0.38	0.38	0.45	
25	0.25	0.35	0.40	0.85	0.43	2.35	1.30	0.65	0.45	0.40	0.35	0.45	
26	0.33	0.35	0.38	0.55	0.48	10.90	1.00	0.65	0.43	0.40	0.33	0.40	
27	0.65	0.33	0.35	0.40	4.90	4.50	0.95	0.65	0.45	0.35	0.33	0.60	
28	0.50	0.55	0.30	0.40	4.30	2.50	1.75	0.60	0.45	0.35	0.33	0.35	
29	0.48	0.43	0.30	3.50	2.35	2.35	1.15	0.60	0.43	0.35		0.35	
30	0.45	0.40	0.25	0.85	1.90	1.75	0.95	0.55	0.45	0.35		0.48	
31		0.38		0.75	0.90		0.90		0.43	0.35		0.40	
<b>Total</b>	<b>5.08</b>	<b>14.53</b>	<b>12.72</b>	<b>17.72</b>	<b>28.85</b>	<b>99.90</b>	<b>100.40</b>	<b>23.20</b>	<b>14.56</b>	<b>12.10</b>	<b>11.05</b>	<b>12.59</b>	<b>352.70</b> CMSDAY
<b>Mean</b>	<b>0.34</b>	<b>0.47</b>	<b>0.42</b>	<b>0.57</b>	<b>0.93</b>	<b>3.33</b>	<b>3.24</b>	<b>0.77</b>	<b>0.47</b>	<b>0.39</b>	<b>0.39</b>	<b>0.41</b>	<b>1.01</b> CMS
<b>Max</b>	<b>0.65</b>	<b>0.95</b>	<b>1.00</b>	<b>3.50</b>	<b>4.90</b>	<b>14.20</b>	<b>14.20</b>	<b>0.90</b>	<b>0.55</b>	<b>0.43</b>	<b>0.55</b>	<b>0.60</b>	<b>14.20</b> CMS
<b>Min</b>	<b>0.13</b>	<b>0.33</b>	<b>0.25</b>	<b>0.28</b>	<b>0.40</b>	<b>0.75</b>	<b>0.90</b>	<b>0.55</b>	<b>0.43</b>	<b>0.35</b>	<b>0.33</b>	<b>0.33</b>	<b>0.13</b> CMS
<b>Runoff</b>	<b>0.44</b>	<b>1.26</b>	<b>1.10</b>	<b>1.53</b>	<b>2.49</b>	<b>8.63</b>	<b>8.67</b>	<b>2.00</b>	<b>1.26</b>	<b>1.05</b>	<b>0.95</b>	<b>1.09</b>	<b>30.47</b> MCM
<b>Momentary Peak</b>	<b>34.10</b>	<b>CMS, at 170.43 m. (MSL.), at 18.00 Hours, on Sep 10, 2021</b>											
<b>Runoff Yield</b>	<b>9.29</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 327.88 Liters/Second/Square KM.</b>											

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Klong Phra Sathung at Ban Dan Chai Phatthana , Sa Kaeo (Kgt.47)

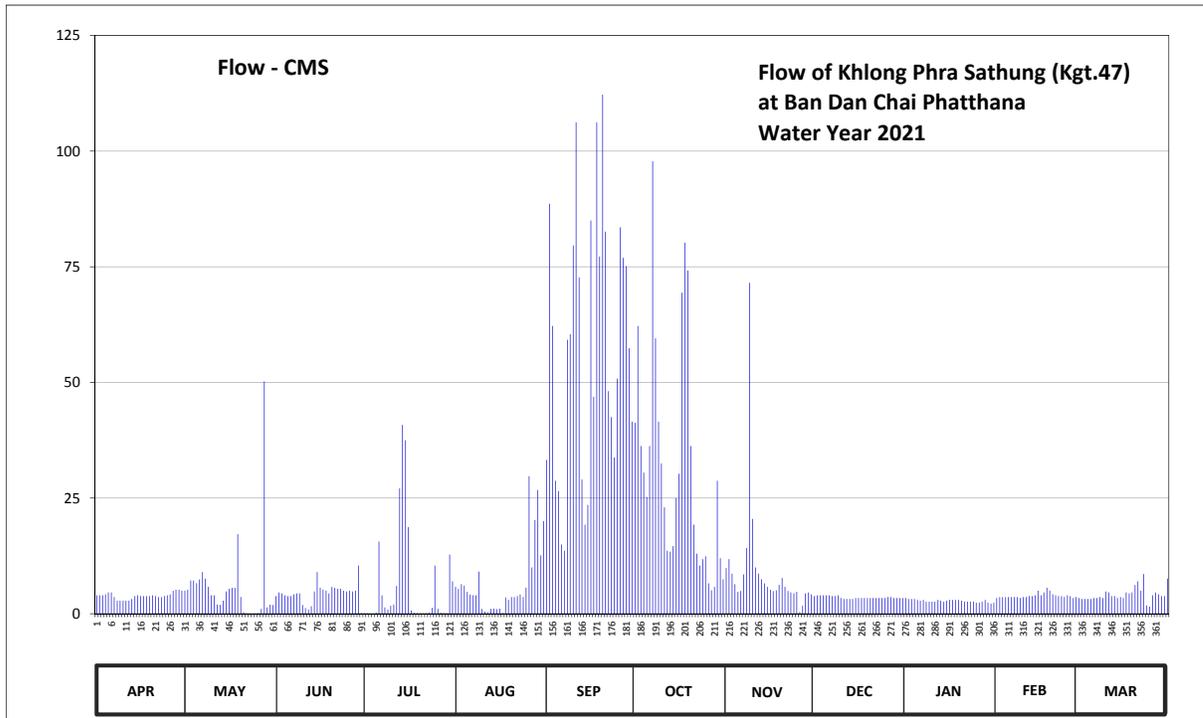
Lat 13 - 33 - 16 N Long 102 - 02 - 43 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Dan</b>	<b>Chaiphaththana</b>	<b>Amphoe</b>	<b>Khao Chakan</b>	<b>Changwat</b>	<b>Sa Kaeo</b>
<b>Drainage Area</b>	1,431	sq.km.					
<b>Type of Gage</b>	Staff gage						
<b>Zero Gage at Bottom</b>	+52.000 m. (MSL.)						
<b>Bench Mark</b>	B.M.-H.D.						
<b>Location BM</b>	On left bank near the top staff gage.					<b>Elevation</b>	+62.000 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.						
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings						
<b>Period of Available Gage Records</b>	2013 to date						
<b>Rating Operation</b>							
<b>Period of Rating</b>	2013 to date						
<b>Rated by Float</b>	-						
<b>Rated by Current Meter</b>	2013 to date						
<b>Stability of Channel Regimes</b>	Fairly stable.						
<b>Overbank Flow Conditions</b>	No overbank flow.						
<b>General Description</b>	Records very good. Stage-discharge relation defined by 51 discharge measurements made in 2021.						

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	55.10	55.15	55.09	53.83	53.72	55.01	55.33	53.99	55.09	55.07	55.07	55.07	
2	55.10	55.16	55.13	53.72	53.69	56.89	56.04	54.09	55.10	55.06	55.08	55.06	
3	55.10	55.26	55.12	53.66	53.76	56.04	55.13	53.91	55.10	55.06	55.08	55.06	
4	55.11	55.26	55.10	53.68	53.74	54.83	54.90	53.76	55.10	55.06	55.08	55.06	
5	55.13	55.23	55.09	54.13	53.65	54.74	54.69	53.65	55.10	55.05	55.08	55.06	
6	55.13	55.27	55.09	55.54	53.61	54.25	55.13	53.66	55.10	55.04	55.08	55.07	
7	55.08	55.35	55.11	55.10	53.60	54.18	57.12	53.90	55.09	55.05	55.08	55.07	
8	55.04	55.28	55.12	54.69	53.60	55.94	55.95	54.21	55.09	55.03	55.08	55.08	
9	55.04	55.19	55.12	54.45	53.94	55.98	55.34	56.35	55.10	55.03	55.07	55.07	
10	55.04	55.10	54.94	54.86	54.51	56.62	54.98	54.50	55.07	55.03	55.08	55.14	
11	55.04	55.10	54.62	55.00	54.24	57.33	54.60	54.00	55.06	55.03	55.08	55.13	
12	55.04	55.00	54.45	55.20	54.16	56.39	54.18	53.91	55.06	55.05	55.09	55.09	
13	55.06	54.97	54.80	55.73	54.53	54.84	54.17	53.83	55.06	55.04	55.09	55.09	
14	55.09	55.04	55.14	55.88	54.57	54.45	54.23	53.77	55.06	55.03	55.10	55.07	
15	55.10	55.14	55.35	55.85	54.50	54.62	54.68	53.72	55.07	55.04	55.15	55.08	
16	55.09	55.17	55.18	55.61	54.55	56.80	54.89	53.68	55.07	55.05	55.10	55.07	
17	55.09	55.18	55.16	54.35	54.07	55.53	56.28	53.66	55.07	55.05	55.13	55.13	
18	55.09	55.18	55.15	54.09	53.55	57.33	56.64	53.67	55.07	55.05	55.18	55.12	
19	55.09	55.58	55.12	53.86	53.50	56.54	56.44	53.75	55.07	55.05	55.15	55.13	
20	55.10	55.08	55.19	53.73	53.56	57.48	55.13	53.85	55.07	55.04	55.11	55.21	
21	55.09	54.15	55.18	53.76	53.56	56.72	54.45	53.72	55.07	55.03	55.10	55.25	
22	55.08	53.68	55.17	54.02	53.58	55.57	54.15	53.66	55.07	55.03	55.09	55.15	
23	55.08	53.35	55.17	54.13	53.61	55.38	54.02	53.64	55.07	55.03	55.09	55.33	
24	55.09	53.35	55.15	54.63	53.56	55.03	54.09	53.63	55.07	55.03	55.08	54.91	
25	55.10	53.64	55.14	55.41	53.71	55.66	54.12	53.65	55.07	55.02	55.10	54.78	
26	55.11	53.99	55.15	54.53	54.87	56.75	53.77	54.18	55.08	55.02	55.09	55.10	
27	55.15	54.52	55.14	54.11	54.00	56.53	53.67	54.85	55.08	55.03	55.07	55.13	
28	55.16	55.94	55.15	53.86	54.49	56.47	53.72	55.12	55.07	55.05	55.08	55.11	
29	55.16	54.68	55.41	53.77	54.75	55.88	54.83	55.13	55.07	55.02		55.09	
30	55.15	54.98	53.94	54.14	54.13	55.34	54.10	55.11	55.07	55.01		55.09	
31		54.95		53.80	54.48		53.83		55.07	55.02		55.28	
Mean	55.09	54.87	55.06	54.49	53.99	55.84	54.86	54.09	55.08	55.04	55.09	55.10	
Max	55.16	55.94	55.41	55.88	54.87	57.48	57.12	56.35	55.10	55.07	55.18	55.33	57.48
Min	55.04	53.35	53.94	53.66	53.50	54.18	53.67	53.63	55.06	55.01	55.07	54.78	53.35
Annual Max Momentary Gage Height	57.84		m. (MSL.) ,			at 12.00 Hours, on Sep 18, 2021							
Zero Gage at Bottom Elevation	52.00		m. (MSL.) ,			River Bed	52.00	m. (MSL.)					
Left Bank Elevation	63.65		m. (MSL.) ,										
Right Bank Elevation	63.89		m. (MSL.) ,			Drainage Are	1,431	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	5.00	3.80	0.11	5.80	33.25	41.25	9.85	3.80	3.40	3.40	3.40		
2	4.00	5.20	4.60	0.09	5.35	88.60	62.20	11.80	4.00	3.20	3.60	3.20		
3	4.00	7.20	4.40	0.08	6.40	62.20	36.25	8.65	4.00	3.20	3.60	3.20		
4	4.20	7.20	4.00	0.08	6.10	28.75	30.50	6.40	4.00	3.20	3.60	3.20		
5	4.60	6.60	3.80	0.26	4.75	26.50	25.25	4.75	4.00	3.00	3.60	3.20		
6	4.60	7.40	3.80	15.60	4.15	15.00	36.25	4.90	4.00	2.80	3.60	3.40		
7	3.60	9.00	4.20	4.00	4.00	13.60	97.80	8.50	3.80	3.00	3.60	3.40		
8	2.80	7.60	4.40	1.38	4.00	59.20	59.50	14.20	3.80	2.60	3.60	3.60		
9	2.80	5.80	4.40	0.90	9.10	60.40	41.50	71.50	4.00	2.60	3.40	3.40		
10	2.80	4.00	1.88	1.72	1.02	79.60	32.50	20.50	3.40	2.60	3.60	4.80		
11	2.80	4.00	1.24	2.00	0.48	106.20	23.00	10.00	3.20	2.60	3.60	4.60		
12	2.80	2.00	0.90	6.00	0.32	72.70	13.60	8.65	3.20	3.00	3.80	3.80		
13	3.20	1.94	1.60	27.10	1.06	29.00	13.40	7.45	3.20	2.80	3.80	3.80		
14	3.80	2.80	4.80	40.80	1.14	19.25	14.60	6.55	3.20	2.60	4.00	3.40		
15	4.00	4.80	9.00	37.50	1.00	23.50	25.00	5.80	3.40	2.80	5.00	3.60		
16	3.80	5.40	5.60	18.70	1.10	85.00	30.25	5.20	3.40	3.00	4.00	3.40		
17	3.80	5.60	5.20	0.70	0.18	46.90	69.40	4.90	3.40	3.00	4.60	4.60		
18	3.80	5.60	5.00	0.19	3.50	106.20	80.20	5.05	3.40	3.00	5.60	4.40		
19	3.80	17.20	4.40	0.12	3.00	77.20	74.20	6.25	3.40	3.00	5.00	4.60		
20	4.00	3.60	5.80	0.09	3.60	112.20	36.25	7.75	3.40	2.80	4.20	6.20		
21	3.80	0.30	5.60	0.10	3.60	82.60	19.25	5.80	3.40	2.60	4.00	7.00		
22	3.60	0.08	5.40	0.15	3.80	48.10	13.00	4.90	3.40	2.60	3.80	5.00		
23	3.60	0.03	5.40	0.26	4.15	42.50	10.40	4.60	3.40	2.60	3.80	8.60		
24	3.80	0.03	5.00	1.26	3.60	33.75	11.80	4.45	3.40	2.60	3.60	1.82		
25	4.00	0.08	4.80	10.40	5.65	50.80	12.40	4.75	3.40	2.40	4.00	1.56		
26	4.20	0.14	5.00	1.06	29.75	83.50	6.55	0.36	3.60	2.40	3.80	4.00		
27	5.00	1.04	4.80	0.22	10.00	76.90	5.05	1.70	3.60	2.60	3.40	4.60		
28	5.20	50.20	5.00	0.12	20.25	75.10	5.80	4.40	3.40	3.00	3.60	4.20		
29	5.20	1.36	10.40	0.10	26.75	57.40	28.75	4.60	3.40	2.40		3.80		
30	5.00	1.96	0.13	12.80	12.60	41.50	12.00	4.20	3.40	2.20		3.80		
31		1.90		7.00	20.00		7.45		3.40	2.40		7.60		
<b>Total</b>	116.60	175.06	134.35	190.89	206.20	1737.40	975.35	268.41	109.80	86.00	109.20	129.18	4238.44	CMSDAY
<b>Mean</b>	3.89	5.65	4.48	6.16	6.65	57.91	31.46	8.95	3.54	2.77	3.90	4.17	11.61	CMS
<b>Max</b>	5.20	50.20	10.40	40.80	29.75	112.20	97.80	71.50	4.00	3.40	5.60	8.60	112.20	CMS
<b>Min</b>	2.80	0.03	0.13	0.08	0.18	13.60	5.05	0.36	3.20	2.20	3.40	1.56	0.03	CMS
<b>Runoff</b>	10.07	15.13	11.61	16.49	17.82	150.11	84.27	23.19	9.49	7.43	9.43	11.16	366.20	MCM
<b>Momentary Peak</b>		126.60		CMS, at 57.84 m. (MSL), at 12.00 Hours, on Sep 18, 2021										
<b>Runoff Yield</b>		8.11		Liters/Second/Square KM.			Momentary Peak Yield 88.47							Liters/Second/Square KM.

## WATER YEAR : 2021

## BANG PAKONG RIVER BASIN

## Nakhon Nayok River at Ban Khao Nang Buat , Nakhon Nayok (Ny.1B)

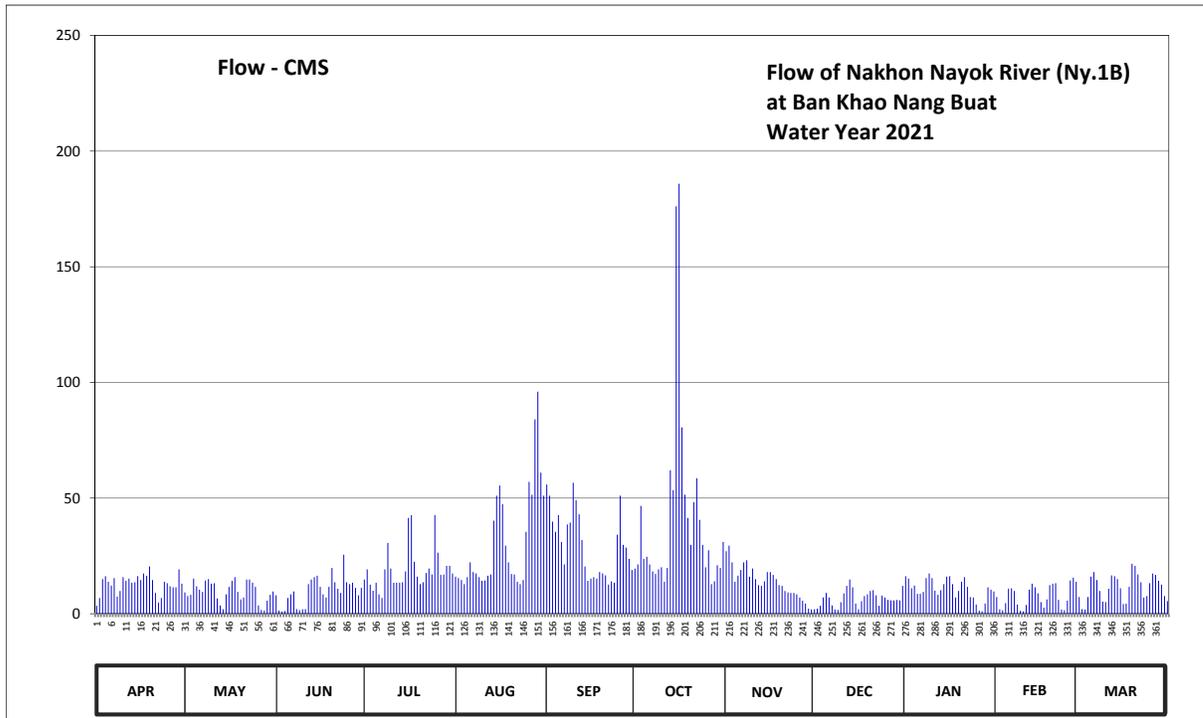
Lat 14 - 14 - 45 N Long 101 - 16 - 27 E

Location : on right bank about 700 meters upstream from Ny.1

	<b>Ban</b>	<b>Khao Nang Buat</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Nakhon Nayok</b>
<b>Drainage Area</b>	524	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 200 meters from the staff gage.				<b>Elevation</b>	+8.758 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1973 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1973 - 1980 , 1991 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1973 - 1980 , 1991 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 33 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

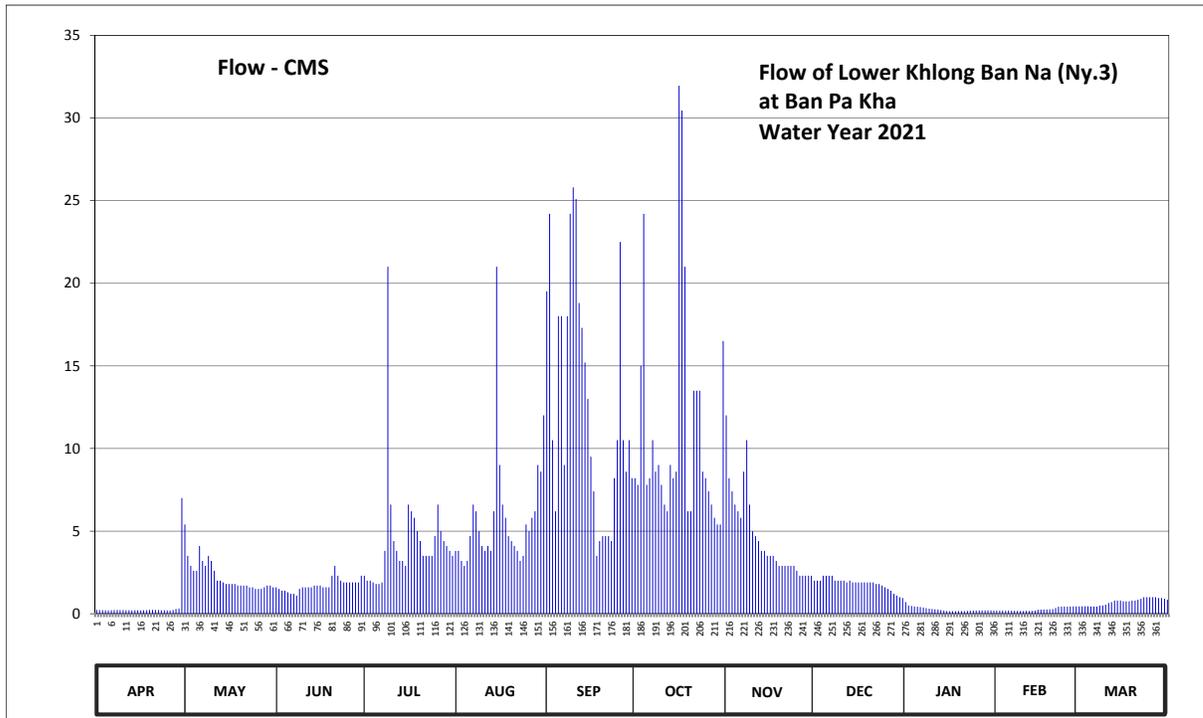
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.07	4.36	4.30	4.64	4.70	5.82	4.85	5.10	3.98	4.71	4.26	4.26	
2	4.24	4.28	3.87	4.84	4.67	5.70	4.91	5.16	4.01	4.66	3.99	4.00	
3	4.65	4.31	3.79	4.53	4.63	5.42	5.59	4.94	4.07	4.45	3.90	3.96	
4	4.71	4.66	3.83	4.40	4.54	5.31	4.99	4.59	4.25	4.51	4.13	4.26	
5	4.59	4.49	4.24	4.57	4.69	5.49	5.02	4.72	4.35	4.33	4.44	4.70	
6	4.51	4.42	4.32	4.32	4.94	5.20	4.91	4.83	4.25	4.33	4.45	4.80	
7	4.67	4.37	4.38	4.24	4.80	4.91	4.81	4.94	4.08	4.37	4.39	4.63	
8	4.27	4.62	4.00	4.84	4.77	5.39	4.76	4.97	3.97	4.67	4.10	4.39	
9	4.39	4.65	3.91	5.19	4.69	5.41	4.84	4.70	3.93	4.77	3.84	4.16	
10	4.69	4.55	3.98	4.85	4.61	5.84	4.87	4.85	4.15	4.67	3.81	4.15	
11	4.61	4.56	4.00	4.57	4.62	5.65	4.59	4.65	4.34	4.40	4.09	4.44	
12	4.66	4.23	4.54	4.57	4.72	5.50	4.86	4.52	4.50	4.31	4.42	4.73	
13	4.57	4.08	4.64	4.57	4.75	5.22	5.96	4.50	4.64	4.41	4.55	4.71	
14	4.58	3.99	4.69	4.58	5.43	4.88	5.76	4.60	4.47	4.54	4.47	4.65	
15	4.71	4.32	4.72	4.81	5.70	4.61	7.93	4.80	4.12	4.70	4.34	4.45	
16	4.63	4.48	4.48	5.46	5.81	4.66	8.07	4.80	3.98	4.71	4.15	4.11	
17	4.77	4.61	4.32	5.49	5.61	4.69	6.33	4.74	4.17	4.54	4.03	4.12	
18	4.72	4.69	4.25	4.95	5.16	4.66	5.71	4.65	4.28	4.25	4.21	4.48	
19	4.88	4.37	4.48	4.70	4.94	4.80	5.46	4.52	4.32	4.39	4.52	4.92	
20	4.63	4.21	4.86	4.54	4.76	4.77	5.17	4.50	4.39	4.59	4.55	4.89	
21	4.35	4.25	4.58	4.58	4.75	4.73	5.63	4.39	4.41	4.69	4.56	4.75	
22	4.14	4.64	4.44	4.78	4.59	4.53	5.89	4.36	4.30	4.48	4.20	4.58	
23	4.24	4.64	4.35	4.85	4.54	4.60	5.44	4.35	4.07	4.26	3.96	4.25	
24	4.59	4.57	5.05	4.75	4.63	4.57	5.17	4.35	4.29	4.25	3.90	4.28	
25	4.56	4.48	4.58	5.49	5.31	5.28	4.87	4.32	4.25	4.10	4.18	4.56	
26	4.49	4.08	4.54	5.08	5.85	5.70	5.11	4.25	4.20	3.88	4.62	4.77	
27	4.47	3.93	4.57	4.74	5.71	5.17	4.54	4.18	4.19	3.82	4.68	4.74	
28	4.47	3.88	4.46	4.75	6.40	5.14	4.60	4.12	4.19	4.12	4.59	4.61	
29	4.84	4.18	4.30	4.89	6.64	4.99	4.90	4.01	4.20	4.47		4.53	
30	4.55	4.31	4.46	4.89	5.94	4.83	4.86	3.97	4.19	4.42		4.28	
31		4.38		4.77	5.70		5.20		4.50	4.38		4.17	
Mean	4.54	4.37	4.36	4.78	5.12	5.12	5.34	4.58	4.23	4.43	4.26	4.46	
Max	4.88	4.69	5.05	5.49	6.64	5.84	8.07	5.16	4.64	4.77	4.68	4.92	8.07
Min	4.07	3.88	3.79	4.24	4.54	4.53	4.54	3.97	3.93	3.82	3.81	3.96	3.79
Annual Max Momentary Gage Height	9.01		m. (MSL.) ,				at 01.00 Hours , on Oct 16, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.14	m. (MSL.)					
Left Bank Elevation		10.51	m. (MSL.) ,										
Right Bank Elevation		9.68	m. (MSL.) ,			Drainage Are	524	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.40	9.20	8.00	14.80	16.00	55.80	19.50	27.00	1.90	16.20	7.20	7.20	
2	6.80	7.60	1.35	19.20	15.40	51.00	21.30	29.40	2.20	15.20	1.95	2.00	
3	15.00	8.20	0.95	12.60	14.60	39.80	46.60	22.20	3.40	11.00	1.50	1.80	
4	16.20	15.20	1.15	10.00	12.80	35.40	23.70	13.80	7.00	12.20	4.60	7.20	
5	13.80	11.80	6.80	13.40	15.80	42.60	24.60	16.40	9.00	8.60	10.80	16.00	
6	12.20	10.40	8.40	8.40	22.20	31.00	21.30	18.90	7.00	8.60	11.00	18.00	
7	15.40	9.40	9.60	6.80	18.00	21.30	18.30	22.20	3.60	9.40	9.80	14.60	
8	7.40	14.40	2.00	19.20	17.40	38.60	17.20	23.10	1.85	15.40	4.00	9.80	
9	9.80	15.00	1.55	30.60	15.80	39.40	19.20	16.00	1.65	17.40	1.20	5.20	
10	15.80	13.00	1.90	19.50	14.20	56.60	20.10	19.50	5.00	15.40	1.05	5.00	
11	14.20	13.20	2.00	13.40	14.40	49.00	13.80	15.00	8.80	10.00	3.80	10.80	
12	15.20	6.60	12.80	13.40	16.40	43.00	19.80	12.40	12.00	8.20	10.40	16.60	
13	13.40	3.60	14.80	13.40	17.00	31.80	62.00	12.00	14.80	10.20	13.00	16.20	
14	13.60	1.95	15.80	13.60	40.20	20.40	53.40	14.00	11.40	12.80	11.40	15.00	
15	16.20	8.40	16.40	18.30	51.00	14.20	176.10	18.00	4.40	16.00	8.80	11.00	
16	14.60	11.60	11.60	41.40	55.40	15.20	185.90	18.00	1.90	16.20	5.00	4.20	
17	17.40	14.20	8.40	42.60	47.40	15.80	80.50	16.80	5.40	12.80	2.60	4.40	
18	16.40	15.80	7.00	22.50	29.40	15.20	51.40	15.00	7.60	7.00	6.20	11.60	
19	20.40	9.40	11.60	16.00	22.20	18.00	41.40	12.40	8.40	9.80	12.40	21.60	
20	14.60	6.20	19.80	12.80	17.20	17.40	29.80	12.00	9.80	13.80	13.00	20.70	
21	9.00	7.00	13.60	13.60	17.00	16.60	48.20	9.80	10.20	15.80	13.20	17.00	
22	4.80	14.80	10.80	17.60	13.80	12.60	58.60	9.20	8.00	11.60	6.00	13.60	
23	6.80	14.80	9.00	19.50	12.80	14.00	40.60	9.00	3.40	7.20	1.80	7.00	
24	13.80	13.40	25.50	17.00	14.60	13.40	29.80	9.00	7.80	7.00	1.50	7.60	
25	13.20	11.60	13.60	42.60	35.40	34.20	20.10	8.40	7.00	4.00	5.60	13.20	
26	11.80	3.60	12.80	26.40	57.00	51.00	27.40	7.00	6.00	1.40	14.40	17.40	
27	11.40	1.65	13.40	16.80	51.40	29.80	12.80	5.60	5.80	1.10	15.60	16.80	
28	11.40	1.40	11.20	17.00	84.00	28.60	14.00	4.40	5.80	4.40	13.80	14.20	
29	19.20	5.60	8.00	20.70	96.00	23.70	21.00	2.20	6.00	11.40		12.60	
30	13.00	8.20	11.20	20.70	61.00	18.90	19.80	1.85	5.80	10.40		7.60	
31		9.60		17.40	51.00		31.00		12.00	9.60		5.40	
Total	386.20	296.80	291.00	591.20	966.80	894.30	1269.20	420.55	204.90	330.10	211.60	351.30	6213.95
Mean	12.87	9.57	9.70	19.07	31.19	29.81	40.94	14.02	6.61	10.65	7.56	11.33	17.02
Max	20.40	15.80	25.50	42.60	96.00	56.60	185.90	29.40	14.80	17.40	15.60	21.60	185.90
Min	3.40	1.40	0.95	6.80	12.80	12.60	12.80	1.85	1.65	1.10	1.05	1.80	0.95
Runoff	33.37	25.64	25.14	51.08	83.53	77.27	109.66	36.34	17.70	28.52	18.28	30.35	536.89
Momentary Peak	263.90	CMS. at 9.01 m. (MSL.) at 01.00 Hours , on Oct 16, 2021											
Runoff Yield	32.49	Liters/Second/Square KM. Momentary Peak Yield 503.63 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	5.40	1.60	2.30	3.80	19.50	8.20	12.00	2.00	0.70	0.19	0.44	
2	0.22	3.50	1.50	2.00	3.80	24.20	7.80	8.20	2.00	0.50	0.19	0.44	
3	0.21	2.90	1.40	2.00	3.20	10.50	15.00	7.40	2.00	0.47	0.19	0.45	
4	0.21	2.60	1.40	1.90	2.90	6.20	24.20	6.60	2.30	0.44	0.18	0.45	
5	0.20	2.60	1.30	1.80	3.20	18.00	7.80	6.20	2.30	0.42	0.19	0.44	
6	0.21	4.10	1.20	1.80	4.70	18.00	8.20	5.80	2.30	0.40	0.18	0.43	
7	0.22	3.20	1.20	1.90	6.60	9.00	10.50	8.60	2.30	0.37	0.17	0.43	
8	0.23	2.90	1.10	3.80	6.20	18.00	8.60	10.50	2.00	0.34	0.17	0.49	
9	0.22	3.50	1.50	21.00	5.00	24.20	9.00	6.60	2.00	0.31	0.16	0.50	
10	0.22	3.20	1.60	6.60	4.10	25.80	7.80	5.00	2.00	0.29	0.16	0.55	
11	0.21	2.60	1.60	4.40	3.80	25.10	6.60	4.70	2.00	0.27	0.17	0.65	
12	0.21	2.00	1.60	3.80	4.10	18.80	6.20	4.40	1.90	0.25	0.16	0.70	
13	0.20	2.00	1.60	3.20	3.80	17.30	9.00	3.80	2.00	0.22	0.17	0.80	
14	0.21	1.90	1.70	3.20	6.20	15.20	8.20	3.80	1.90	0.19	0.19	0.80	
15	0.21	1.80	1.70	2.90	21.00	13.00	8.60	3.50	1.90	0.16	0.24	0.80	
16	0.20	1.80	1.70	6.60	9.00	9.50	31.95	3.50	1.90	0.15	0.25	0.75	
17	0.21	1.80	1.60	6.20	6.60	7.40	30.45	3.50	1.90	0.15	0.26	0.75	
18	0.21	1.80	1.60	5.80	5.80	3.50	21.00	3.20	1.90	0.15	0.26	0.75	
19	0.23	1.70	1.60	5.00	4.70	4.40	6.20	2.90	1.90	0.16	0.27	0.80	
20	0.23	1.70	2.30	4.40	4.40	4.70	6.20	2.90	1.90	0.16	0.28	0.80	
21	0.23	1.70	2.90	3.50	4.10	4.70	13.50	2.90	1.90	0.16	0.35	0.85	
22	0.22	1.70	2.30	3.50	3.80	4.70	13.50	2.90	1.80	0.17	0.42	0.90	
23	0.21	1.60	2.00	3.50	3.20	4.40	13.50	2.90	1.80	0.18	0.43	1.00	
24	0.21	1.60	1.90	3.50	3.50	8.20	8.60	2.90	1.70	0.19	0.43	1.00	
25	0.20	1.50	1.90	4.70	5.40	10.50	8.20	2.60	1.60	0.19	0.43	1.00	
26	0.19	1.50	1.90	6.60	5.00	22.50	7.40	2.30	1.50	0.20	0.44	1.00	
27	0.23	1.50	1.90	5.00	5.80	10.50	6.60	2.30	1.40	0.20	0.44	1.00	
28	0.29	1.60	1.90	4.40	6.20	8.60	5.80	2.30	1.20	0.20	0.44	0.95	
29	0.31	1.70	1.90	4.10	9.00	10.50	5.40	2.30	1.10	0.20		0.95	
30	7.00	1.70	2.30	3.80	8.60	8.20	5.40	2.30	1.00	0.20		0.90	
31		1.60		3.50	12.00		16.50		0.95	0.19		0.85	
<b>Total</b>	13.38	70.70	51.70	136.70	179.50	385.10	345.90	138.80	56.35	8.18	7.41	22.62	1416.34 CMSDAY
<b>Mean</b>	0.45	2.28	1.72	4.41	5.79	12.84	11.16	4.63	1.82	0.26	0.26	0.73	3.88 CMS
<b>Max</b>	7.00	5.40	2.90	21.00	21.00	25.80	31.95	12.00	2.30	0.70	0.44	1.00	31.95 CMS
<b>Min</b>	0.19	1.50	1.10	1.80	2.90	3.50	5.40	2.30	0.95	0.15	0.16	0.43	0.15 CMS
<b>Runoff</b>	1.16	6.11	4.47	11.81	15.51	33.27	29.89	11.99	4.87	0.71	0.64	1.95	122.37 MCM
<b>Momentary Peak</b>	36.15 CMS. at 10.31 m. (MSL.) at 12.00 Hours , on Oct 16, 2021												
<b>Runoff Yield</b>	19.40 Liters/Second/Square KM.			Momentary Peak Yield			180.75 Liters/Second/Square KM.						

## WATER YEAR : 2021

## BANG PAKONG RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

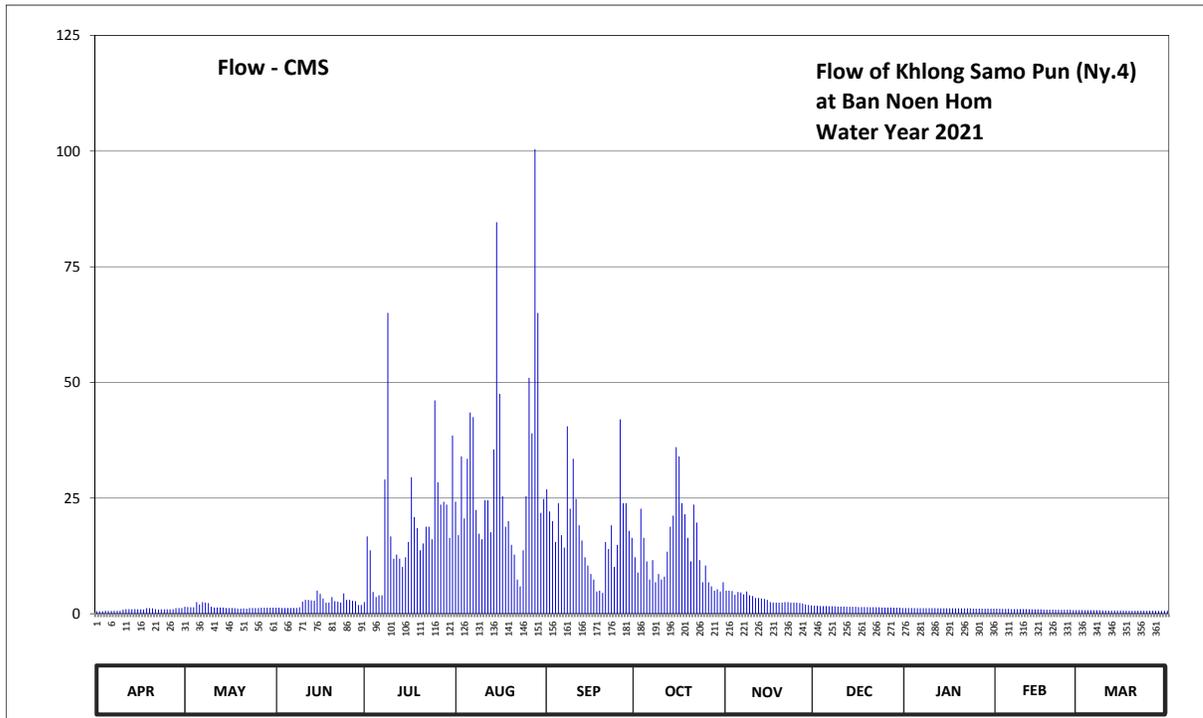
Lat 14 - 17 - 40 N Long 101 - 23 - 43 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	<b>Ban</b>	Noen Hom	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Prachin Buri
<b>Drainage Area</b>	151	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+376.100 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+382.580 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1986 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1986 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1986 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 27 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.31	376.50	376.46	376.65	377.54	377.63	377.14	376.90	376.54	376.45	376.42	376.36	
2	376.31	376.49	376.46	377.29	377.30	377.47	377.03	376.90	376.54	376.45	376.41	376.36	
3	376.31	376.48	376.45	377.19	377.80	377.40	377.49	376.89	376.53	376.45	376.41	376.35	
4	376.33	376.48	376.45	376.87	377.42	377.25	377.28	376.81	376.53	376.45	376.41	376.35	
5	376.32	376.65	376.45	376.76	377.79	377.53	377.11	376.87	376.53	376.44	376.41	376.35	
6	376.32	376.60	376.45	376.80	377.99	377.30	376.98	376.86	376.52	376.44	376.40	376.35	
7	376.33	376.65	376.45	376.80	377.97	377.21	377.12	376.82	376.52	376.44	376.40	376.35	
8	376.33	376.64	376.45	377.70	377.48	377.93	376.96	376.88	376.52	376.44	376.40	376.35	
9	376.33	376.63	376.48	378.30	377.31	377.49	377.02	376.80	376.51	376.44	376.40	376.34	
10	376.38	376.50	376.66	377.29	377.27	377.79	376.98	376.78	376.51	376.44	376.40	376.34	
11	376.40	376.47	376.70	377.13	377.55	377.56	377.00	376.74	376.51	376.44	376.40	376.34	
12	376.40	376.47	376.70	377.16	377.55	377.37	377.18	376.74	376.50	376.44	376.39	376.34	
13	376.39	376.47	376.69	377.13	377.32	377.26	377.36	376.73	376.50	376.43	376.39	376.34	
14	376.40	376.47	376.68	377.07	377.83	377.14	377.44	376.72	376.50	376.43	376.39	376.34	
15	376.39	376.45	376.90	377.14	378.58	377.08	377.84	376.70	376.50	376.43	376.39	376.34	
16	376.39	376.45	376.83	377.25	378.05	377.02	377.80	376.65	376.49	376.43	376.39	376.34	
17	376.38	376.45	376.73	377.71	377.58	376.98	377.53	376.64	376.49	376.43	376.38	376.34	
18	376.44	376.44	376.64	377.43	377.36	376.88	377.45	376.64	376.49	376.43	376.38	376.33	
19	376.44	376.42	376.64	377.35	377.40	376.90	377.28	376.64	376.49	376.43	376.38	376.33	
20	376.43	376.42	376.76	377.19	377.23	376.85	377.11	376.64	376.48	376.43	376.38	376.33	
21	376.40	376.43	376.67	377.24	377.16	377.25	377.52	376.65	376.48	376.43	376.37	376.33	
22	376.38	376.42	376.66	377.36	376.98	377.20	377.39	376.65	376.48	376.43	376.37	376.33	
23	376.39	376.45	376.64	377.36	376.93	377.37	377.12	376.64	376.48	376.43	376.37	376.33	
24	376.39	376.45	376.84	377.27	377.19	377.07	376.96	376.64	376.47	376.42	376.37	376.33	
25	376.39	376.45	376.70	378.03	377.58	377.23	377.08	376.64	376.47	376.42	376.37	376.33	
26	376.39	376.45	376.70	377.68	378.10	377.96	376.96	376.63	376.47	376.42	376.37	376.33	
27	376.39	376.46	376.68	377.52	377.90	377.53	376.93	376.62	376.47	376.42	376.36	376.32	
28	376.44	376.46	376.67	377.54	378.76	377.53	376.90	376.60	376.46	376.42	376.36	376.32	
29	376.45	376.46	376.58	377.52	378.30	377.33	376.91	376.58	376.46	376.42	376.36	376.32	
30	376.45	376.46	376.58	377.28	377.46	377.28	376.88	376.56	376.46	376.42	376.36	376.32	
31		376.46		377.89	377.56		376.96		376.45	376.42		376.32	
Mean	376.38	376.49	376.63	377.32	377.62	377.33	377.18	376.72	376.50	376.43	376.39	376.34	
Max	376.45	376.65	376.90	378.30	378.76	377.96	377.84	376.90	376.54	376.45	376.42	376.36	378.76
Min	376.31	376.42	376.45	376.65	376.93	376.85	376.88	376.56	376.45	376.42	376.36	376.32	376.31
Annual Max Momentary Gage Height	378.99		m. (MSL.) ,				at 12.00 Hours ,						
Zero Gage at Bottom Elevation	376.10		m. (MSL.) ,			River Bed	375.10	m. (MSL.)					
Left Bank Elevation		380.06		m. (MSL.) ,									
Right Bank Elevation		381.16		m. (MSL.) ,		Drainage Are	151	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	1.50	1.30	2.50	24.20	26.90	12.20	5.00	1.70	1.25	1.10	0.80	
2	0.55	1.45	1.30	16.70	17.00	22.10	8.90	5.00	1.70	1.25	1.05	0.80	
3	0.55	1.40	1.25	13.70	34.00	20.00	22.70	4.90	1.65	1.25	1.05	0.75	
4	0.65	1.40	1.25	4.70	20.60	15.50	16.40	4.10	1.65	1.25	1.05	0.75	
5	0.60	2.50	1.25	3.60	33.50	23.90	11.30	4.70	1.65	1.20	1.05	0.75	
6	0.60	2.00	1.25	4.00	43.50	17.00	7.40	4.60	1.60	1.20	1.00	0.75	
7	0.65	2.50	1.25	4.00	42.50	14.30	11.60	4.20	1.60	1.20	1.00	0.75	
8	0.65	2.40	1.25	29.00	22.40	40.50	6.80	4.80	1.60	1.20	1.00	0.75	
9	0.65	2.30	1.40	65.00	17.30	22.70	8.60	4.00	1.55	1.20	1.00	0.70	
10	0.90	1.50	2.60	16.70	16.10	33.50	7.40	3.80	1.55	1.20	1.00	0.70	
11	1.00	1.35	3.00	11.90	24.50	24.80	8.00	3.40	1.55	1.20	1.00	0.70	
12	1.00	1.35	3.00	12.80	24.50	19.10	13.40	3.40	1.50	1.20	0.95	0.70	
13	0.95	1.35	2.90	11.90	17.60	15.80	18.80	3.30	1.50	1.15	0.95	0.70	
14	1.00	1.35	2.80	10.10	35.50	12.20	21.20	3.20	1.50	1.15	0.95	0.70	
15	0.95	1.25	5.00	12.20	84.60	10.40	36.00	3.00	1.50	1.15	0.95	0.70	
16	0.95	1.25	4.30	15.50	47.50	8.60	34.00	2.50	1.45	1.15	0.95	0.70	
17	0.90	1.25	3.30	29.50	25.40	7.40	23.90	2.40	1.45	1.15	0.90	0.70	
18	1.20	1.20	2.40	20.90	18.80	4.80	21.50	2.40	1.45	1.15	0.90	0.65	
19	1.20	1.10	2.40	18.50	20.00	5.00	16.40	2.40	1.45	1.15	0.90	0.65	
20	1.15	1.10	3.60	13.70	14.90	4.50	11.30	2.40	1.40	1.15	0.90	0.65	
21	1.00	1.15	2.70	15.20	12.80	15.50	23.60	2.50	1.40	1.15	0.85	0.65	
22	0.90	1.10	2.60	18.80	7.40	14.00	19.70	2.50	1.40	1.15	0.85	0.65	
23	0.95	1.25	2.40	18.80	5.90	19.10	11.60	2.40	1.40	1.15	0.85	0.65	
24	0.95	1.25	4.40	16.10	13.70	10.10	6.80	2.40	1.35	1.10	0.85	0.65	
25	0.95	1.25	3.00	46.10	25.40	14.90	10.40	2.40	1.35	1.10	0.85	0.65	
26	0.95	1.25	3.00	28.40	51.00	42.00	6.80	2.30	1.35	1.10	0.85	0.65	
27	0.95	1.30	2.80	23.60	39.00	23.90	5.90	2.20	1.35	1.10	0.80	0.60	
28	1.20	1.30	2.70	24.20	100.40	23.90	5.00	2.00	1.30	1.10	0.80	0.60	
29	1.25	1.30	1.90	23.60	65.00	17.90	5.30	1.90	1.30	1.10		0.60	
30	1.25	1.30	1.90	16.40	21.80	16.40	4.80	1.80	1.30	1.10		0.60	
31		1.30		38.50	24.80		6.80		1.25	1.10		0.60	
Total	27.00	45.25	74.20	586.60	951.60	546.70	424.50	95.90	45.75	36.05	26.35	21.25	2881.15 CMSDAY
Mean	0.90	1.46	2.47	18.92	30.70	18.22	13.69	3.20	1.48	1.16	0.94	0.69	7.89 CMS
Max	1.25	2.50	5.00	65.00	100.40	42.00	36.00	5.00	1.70	1.25	1.10	0.80	100.40 CMS
Min	0.55	1.10	1.25	2.50	5.90	4.50	4.80	1.80	1.25	1.10	0.80	0.60	0.55 CMS
Runoff	2.33	3.91	6.41	50.68	82.22	47.23	36.68	8.29	3.95	3.11	2.28	1.84	248.93 MCM
Momentary Peak	124.90	CMS. at 378.99 m. (MSL.) at 12.00 Hours , on Aug 28, 2021											
Runoff Yield	52.28	Liters/Second/Square KM.		Momentary Peak Yield		827.15	Liters/Second/Square KM.						

## WATER YEAR : 2021

## BANG PAKONG RIVER BASIN

## Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)

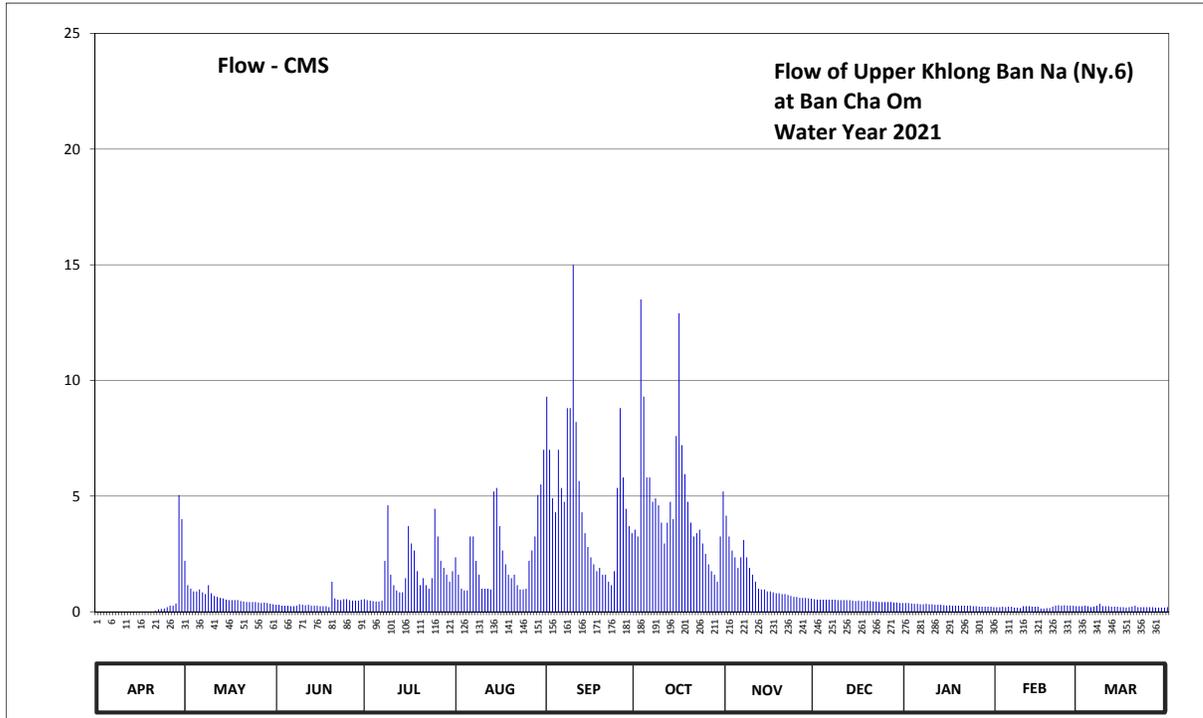
Lat 14 - 24 - 25 N Long 101 - 06 - 22 E

Location : on left bank about 50 meters from the top staff gage.

	Ban Cha Om	Amphoe Kaeng Khoi	Changwat Saraburi
<b>Drainage Area</b>	114 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+28.850 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 50 meters from the top staff gage.	<b>Elevation</b>	+34.960 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1988 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1988 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1988 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 23 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.32	29.88	29.55	29.67	29.89	30.31	29.97	30.01	29.67	29.59	29.50	29.52	
2	29.31	29.81	29.55	29.65	29.84	30.20	29.95	29.95	29.66	29.59	29.50	29.52	
3	29.31	29.80	29.53	29.64	29.80	30.06	30.45	29.91	29.66	29.58	29.51	29.53	
4	29.31	29.77	29.53	29.63	29.78	30.02	30.31	29.89	29.66	29.57	29.50	29.52	
5	29.31	29.77	29.53	29.62	29.78	30.20	30.12	29.86	29.66	29.57	29.51	29.50	
6	29.31	29.79	29.52	29.62	29.95	30.09	30.12	29.89	29.66	29.56	29.51	29.51	
7	29.31	29.76	29.52	29.64	29.95	30.05	30.05	29.94	29.66	29.56	29.49	29.53	
8	29.31	29.74	29.53	29.88	29.88	30.29	30.06	29.89	29.66	29.57	29.49	29.57	
9	29.33	29.81	29.56	30.04	29.84	30.29	30.04	29.86	29.65	29.56	29.48	29.52	
10	29.33	29.75	29.55	29.84	29.80	30.50	29.99	29.84	29.65	29.56	29.52	29.52	
11	29.33	29.72	29.54	29.81	29.80	30.26	29.93	29.82	29.65	29.55	29.52	29.52	
12	29.35	29.71	29.55	29.78	29.80	30.11	29.99	29.80	29.65	29.55	29.52	29.51	
13	29.35	29.70	29.53	29.76	29.79	30.02	30.05	29.79	29.65	29.55	29.51	29.51	
14	29.37	29.69	29.53	29.76	30.08	29.96	30.00	29.79	29.64	29.54	29.51	29.51	
15	29.37	29.66	29.53	29.83	30.09	29.92	30.23	29.77	29.63	29.53	29.51	29.50	
16	29.38	29.65	29.52	29.98	29.98	29.89	30.43	29.77	29.64	29.54	29.47	29.50	
17	29.39	29.65	29.52	29.93	29.91	29.87	30.21	29.76	29.63	29.53	29.47	29.49	
18	29.39	29.65	29.52	29.91	29.87	29.85	30.13	29.75	29.63	29.53	29.48	29.50	
19	29.40	29.65	29.50	29.85	29.84	29.86	30.05	29.75	29.64	29.53	29.48	29.51	
20	29.40	29.63	29.82	29.81	29.83	29.84	29.99	29.74	29.63	29.53	29.51	29.53	
21	29.42	29.62	29.69	29.83	29.84	29.84	29.95	29.74	29.62	29.53	29.53	29.50	
22	29.45	29.61	29.66	29.81	29.81	29.82	29.96	29.73	29.62	29.53	29.54	29.50	
23	29.46	29.61	29.65	29.80	29.79	29.81	29.97	29.72	29.61	29.53	29.53	29.50	
24	29.47	29.61	29.67	29.83	29.79	29.85	29.93	29.71	29.61	29.52	29.54	29.50	
25	29.50	29.61	29.67	30.03	29.80	30.09	29.90	29.71	29.61	29.52	29.53	29.50	
26	29.53	29.60	29.65	29.95	29.88	30.29	29.87	29.70	29.61	29.51	29.53	29.50	
27	29.53	29.59	29.64	29.88	29.91	30.12	29.85	29.70	29.61	29.51	29.53	29.49	
28	29.58	29.60	29.64	29.86	29.95	30.03	29.84	29.70	29.60	29.51	29.52	29.49	
29	30.07	29.59	29.64	29.84	30.07	29.98	29.82	29.69	29.60	29.51		29.49	
30	30.00	29.57	29.66	29.82	30.10	29.96	29.95	29.68	29.59	29.51		29.49	
31		29.56		29.85	30.20		30.08		29.59	29.50		29.50	
Mean	29.43	29.68	29.58	29.81	29.89	30.05	30.04	29.80	29.63	29.54	29.51	29.51	
Max	30.07	29.88	29.82	30.04	30.20	30.50	30.45	30.01	29.67	29.59	29.54	29.57	30.50
Min	29.31	29.56	29.50	29.62	29.78	29.81	29.82	29.68	29.59	29.50	29.47	29.49	29.31
Annual Max Momentary Gage Height	31.07			m. (MSL.) ,			at 17.00 Hours ,						on Oct 3, 2021
Zero Gage at Bottom Elevation	28.85			m. (MSL.) ,			River Bed 28.70		m. (MSL.)				
Left Bank Elevation		32.66		m. (MSL.) ,									
Right Bank Elevation		33.15		m. (MSL.) ,			Drainage Are 114		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.20	0.30	0.54	2.35	9.30	3.55	4.15	0.54	0.38	0.20	0.24	
2	0.00	1.15	0.30	0.50	1.60	7.00	3.25	3.25	0.52	0.38	0.20	0.24	
3	0.00	1.00	0.26	0.48	1.00	4.90	13.50	2.65	0.52	0.36	0.22	0.26	
4	0.00	0.88	0.26	0.46	0.92	4.30	9.30	2.35	0.52	0.34	0.20	0.24	
5	0.00	0.88	0.26	0.44	0.92	7.00	5.80	1.90	0.52	0.34	0.22	0.20	
6	0.00	0.96	0.24	0.44	3.25	5.35	5.80	2.35	0.52	0.32	0.22	0.22	
7	0.00	0.84	0.24	0.48	3.25	4.75	4.75	3.10	0.52	0.32	0.18	0.26	
8	0.00	0.76	0.26	2.20	2.20	8.80	4.90	2.35	0.52	0.34	0.18	0.34	
9	0.00	1.15	0.32	4.60	1.60	8.80	4.60	1.90	0.50	0.32	0.16	0.24	
10	0.00	0.80	0.30	1.60	1.00	15.00	3.85	1.60	0.50	0.32	0.24	0.24	
11	0.00	0.68	0.28	1.15	1.00	8.20	2.95	1.30	0.50	0.30	0.24	0.24	
12	0.00	0.64	0.30	0.92	1.00	5.65	3.85	1.00	0.50	0.30	0.24	0.22	
13	0.00	0.60	0.26	0.84	0.96	4.30	4.75	0.96	0.50	0.30	0.22	0.22	
14	0.00	0.58	0.26	0.84	5.20	3.40	4.00	0.96	0.48	0.28	0.22	0.22	
15	0.00	0.52	0.26	1.45	5.35	2.80	7.60	0.88	0.46	0.26	0.22	0.20	
16	0.00	0.50	0.24	3.70	3.70	2.35	12.90	0.88	0.48	0.28	0.14	0.20	
17	0.00	0.50	0.24	2.95	2.65	2.05	7.20	0.84	0.46	0.26	0.14	0.18	
18	0.00	0.50	0.24	2.65	2.05	1.75	5.95	0.80	0.46	0.26	0.16	0.20	
19	0.00	0.50	0.20	1.75	1.60	1.90	4.75	0.80	0.48	0.26	0.16	0.22	
20	0.00	0.46	1.30	1.15	1.45	1.60	3.85	0.76	0.46	0.26	0.22	0.26	
21	0.04	0.44	0.58	1.45	1.60	1.60	3.25	0.76	0.44	0.26	0.26	0.20	
22	0.10	0.42	0.52	1.15	1.15	1.30	3.40	0.72	0.44	0.26	0.28	0.20	
23	0.12	0.42	0.50	1.00	0.96	1.15	3.55	0.68	0.42	0.26	0.26	0.20	
24	0.14	0.42	0.54	1.45	0.96	1.75	2.95	0.64	0.42	0.24	0.28	0.20	
25	0.20	0.42	0.54	4.45	1.00	5.35	2.50	0.64	0.42	0.24	0.26	0.20	
26	0.26	0.40	0.50	3.25	2.20	8.80	2.05	0.60	0.42	0.22	0.26	0.20	
27	0.26	0.38	0.48	2.20	2.65	5.80	1.75	0.60	0.42	0.22	0.26	0.18	
28	0.36	0.40	0.48	1.90	3.25	4.45	1.60	0.60	0.40	0.22	0.24	0.18	
29	5.05	0.38	0.48	1.60	5.05	3.70	1.30	0.58	0.40	0.22		0.18	
30	4.00	0.34	0.52	1.30	5.50	3.40	3.25	0.56	0.38	0.22		0.18	
31		0.32		1.75	7.00		5.20		0.38	0.20		0.20	
<b>Total</b>	10.53	20.44	11.46	50.64	74.37	146.50	147.90	41.16	14.50	8.74	6.08	6.76	539.08 CMSDAY
<b>Mean</b>	0.35	0.66	0.38	1.63	2.40	4.88	4.77	1.37	0.47	0.28	0.22	0.22	1.48 CMS
<b>Max</b>	5.05	2.20	1.30	4.60	7.00	15.00	13.50	4.15	0.54	0.38	0.28	0.34	15.00 CMS
<b>Min</b>	0.00	0.32	0.20	0.44	0.92	1.15	1.30	0.56	0.38	0.20	0.14	0.18	0.00 CMS
<b>Runoff</b>	0.91	1.77	0.99	4.38	6.43	12.66	12.78	3.56	1.25	0.76	0.53	0.58	46.58 MCM
<b>Momentary Peak</b>	34.80	CMS. at 31.07 m. (MSL.) at 17.00 Hours , on Oct 3, 2021											
<b>Runoff Yield</b>	12.96	Liters/Second/Square KM. Momentary Peak Yield 305.26 Liters/Second/Square KM.											

## WATER YEAR : 2021

## TONLE SAP BASIN

## Khlong Phra Phut at Ban Pang Ngon , Chanthaburi (TI.3)

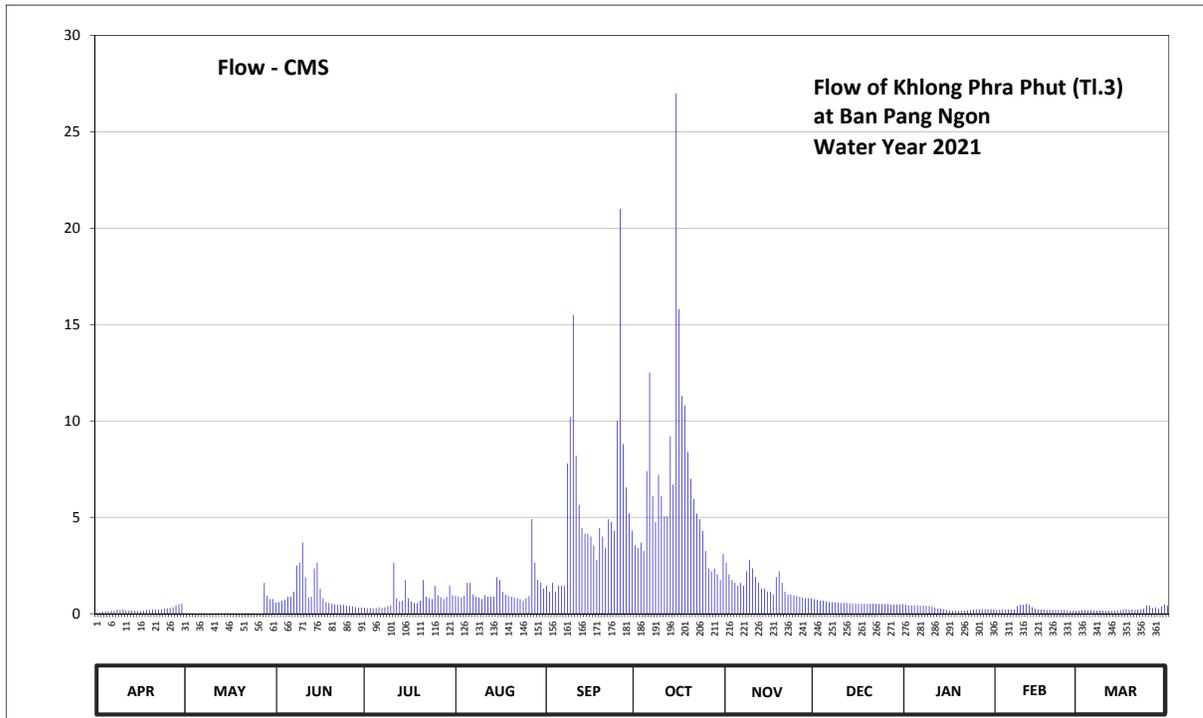
Lat 12 - 58 - 19 N Long 102 - 17 - 07 E

Location : on left bank downstream from the bridge of Pong Nam Ron -Wang Nam Yen Highway.

	Ban Pang Ngon	Amphoe Pong Nam Ron	Changwat Chanthaburi
<b>Drainage Area</b>	70 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+190.680 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 6 meters from the top staff gage.	<b>Elevation</b>	+194.887 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Flow effected by the local weir. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.83	190.68	191.09	190.96	191.18	191.23	191.37	191.31	191.14	191.04	190.90	190.88	
2	190.83	190.68	191.10	190.94	191.17	191.21	191.36	191.27	191.13	191.02	190.91	190.90	
3	190.85	190.68	191.12	190.95	191.16	191.24	191.38	191.25	191.12	191.02	190.91	190.90	
4	190.86	190.68	191.13	190.94	191.18	191.21	191.35	191.24	191.12	191.02	190.91	190.89	
5	190.86	190.68	191.17	190.95	191.24	191.23	191.62	191.23	191.11	191.01	190.91	190.89	
6	190.88	190.68	191.17	190.97	191.24	191.23	191.85	191.24	191.10	191.01	190.91	190.88	
7	190.88	190.68	191.21	190.95	191.20	191.23	191.54	191.23	191.10	191.01	190.91	190.88	
8	190.91	190.68	191.30	190.97	191.17	191.64	191.45	191.28	191.10	191.00	191.00	190.88	
9	190.90	190.68	191.31	191.00	191.16	191.76	191.61	191.32	191.09	191.00	191.03	190.88	
10	190.91	190.68	191.38	191.02	191.14	191.95	191.54	191.29	191.08	190.99	191.03	190.88	
11	190.89	190.68	191.26	191.31	191.19	191.66	191.47	191.26	191.08	190.96	191.06	190.88	
12	190.89	190.68	191.16	191.15	191.17	191.51	191.47	191.24	191.08	190.94	191.03	190.88	
13	190.89	190.68	191.17	191.11	191.17	191.43	191.71	191.22	191.07	190.93	190.97	190.88	
14	190.88	190.68	191.29	191.12	191.17	191.41	191.58	191.22	191.07	190.92	190.93	190.89	
15	190.87	190.68	191.31	191.25	191.26	191.41	192.25	191.21	191.06	190.90	190.91	190.90	
16	190.87	190.68	191.22	191.15	191.25	191.40	191.96	191.21	191.06	190.89	190.91	190.91	
17	190.88	190.68	191.15	191.11	191.21	191.37	191.81	191.20	191.06	190.88	190.91	190.92	
18	190.90	190.68	191.10	191.08	191.20	191.32	191.79	191.26	191.06	190.88	190.90	190.91	
19	190.90	190.68	191.08	191.07	191.18	191.43	191.67	191.28	191.06	190.88	190.90	190.91	
20	190.91	190.68	191.06	191.12	191.17	191.40	191.60	191.24	191.06	190.88	190.90	190.90	
21	190.91	190.68	191.04	191.25	191.16	191.36	191.53	191.21	191.06	190.88	190.90	190.91	
22	190.91	190.68	191.03	191.17	191.15	191.46	191.48	191.20	191.06	190.89	190.90	190.92	
23	190.91	190.68	191.03	191.15	191.14	191.45	191.46	191.20	191.05	190.90	190.90	190.93	
24	190.93	190.68	191.03	191.14	191.12	191.42	191.42	191.19	191.05	190.91	190.90	191.02	
25	190.94	190.68	191.01	191.23	191.15	191.75	191.35	191.18	191.05	190.92	190.89	191.01	
26	190.95	190.68	191.00	191.19	191.18	192.10	191.29	191.17	191.05	190.92	190.88	190.95	
27	190.97	190.72	190.99	191.16	191.46	191.69	191.28	191.16	191.04	190.92	190.88	190.97	
28	191.02	191.24	190.97	191.14	191.31	191.57	191.29	191.15	191.04	190.92	190.88	190.93	
29	191.04	191.18	190.96	191.17	191.25	191.48	191.27	191.15	191.04	190.92		190.99	
30	191.06	191.14	190.96	191.23	191.24	191.42	191.25	191.15	191.04	190.92		191.04	
31		191.14		191.19	191.22		191.34		191.05	190.92		191.01	
Mean	190.91	190.75	191.13	191.10	191.20	191.47	191.53	191.23	191.07	190.94	190.93	190.92	
Max	191.06	191.24	191.38	191.31	191.46	192.10	192.25	191.32	191.14	191.04	191.06	191.04	192.25
Min	190.83	190.68	190.96	190.94	191.12	191.21	191.25	191.15	191.04	190.88	190.88	190.88	190.68
Annual Max Momentary Gage Height	193.08		m. (MSL.) ,				at 18.00 Hours ,						on Sep 8, 2021
Zero Gage at Bottom Elevation	190.68		m. (MSL.) ,			River Bed	190.65		m. (MSL.)				
Left Bank Elevation		195.64		m. (MSL.) ,									
Right Bank Elevation		195.63		m. (MSL.) ,		Drainage Are	70		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.00	0.58	0.32	0.92	1.45	3.55	2.65	0.76	0.48	0.20	0.16	
2	0.06	0.00	0.60	0.28	0.88	1.15	3.40	2.05	0.72	0.44	0.22	0.20	
3	0.10	0.00	0.68	0.30	0.84	1.60	3.70	1.75	0.68	0.44	0.22	0.20	
4	0.12	0.00	0.72	0.28	0.92	1.15	3.25	1.60	0.68	0.44	0.22	0.18	
5	0.12	0.00	0.88	0.30	1.60	1.45	7.40	1.45	0.64	0.42	0.22	0.18	
6	0.16	0.00	0.88	0.34	1.60	1.45	12.50	1.60	0.60	0.42	0.22	0.16	
7	0.16	0.00	1.15	0.30	1.00	1.45	6.10	1.45	0.60	0.42	0.22	0.16	
8	0.22	0.00	2.50	0.34	0.88	7.80	4.75	2.20	0.60	0.40	0.40	0.16	
9	0.20	0.00	2.65	0.40	0.84	10.20	7.20	2.80	0.58	0.40	0.46	0.16	
10	0.22	0.00	3.70	0.44	0.76	15.50	6.10	2.35	0.56	0.38	0.46	0.16	
11	0.18	0.00	1.90	2.65	0.96	8.20	5.05	1.90	0.56	0.32	0.52	0.16	
12	0.18	0.00	0.84	0.80	0.88	5.65	5.05	1.60	0.56	0.28	0.46	0.16	
13	0.18	0.00	0.88	0.64	0.88	4.45	9.20	1.30	0.54	0.26	0.34	0.16	
14	0.16	0.00	2.35	0.68	0.88	4.15	6.70	1.30	0.54	0.24	0.26	0.18	
15	0.14	0.00	2.65	1.75	1.90	4.15	27.00	1.15	0.52	0.20	0.22	0.20	
16	0.14	0.00	1.30	0.80	1.75	4.00	15.80	1.15	0.52	0.18	0.22	0.22	
17	0.16	0.00	0.80	0.64	1.15	3.55	11.30	1.00	0.52	0.16	0.22	0.24	
18	0.20	0.00	0.60	0.56	1.00	2.80	10.80	1.90	0.52	0.16	0.20	0.22	
19	0.20	0.00	0.56	0.54	0.92	4.45	8.40	2.20	0.52	0.16	0.20	0.22	
20	0.22	0.00	0.52	0.68	0.88	4.00	7.00	1.60	0.52	0.16	0.20	0.20	
21	0.22	0.00	0.48	1.75	0.84	3.40	5.95	1.15	0.52	0.16	0.20	0.22	
22	0.22	0.00	0.46	0.88	0.80	4.90	5.20	1.00	0.52	0.18	0.20	0.24	
23	0.22	0.00	0.46	0.80	0.76	4.75	4.90	1.00	0.50	0.20	0.20	0.26	
24	0.26	0.00	0.46	0.76	0.68	4.30	4.30	0.96	0.50	0.22	0.20	0.44	
25	0.28	0.00	0.42	1.45	0.80	10.00	3.25	0.92	0.50	0.24	0.18	0.42	
26	0.30	0.00	0.40	0.96	0.92	21.00	2.35	0.88	0.50	0.24	0.16	0.30	
27	0.34	0.00	0.38	0.84	4.90	8.80	2.20	0.84	0.48	0.24	0.16	0.34	
28	0.44	1.60	0.34	0.76	2.65	6.55	2.35	0.80	0.48	0.24	0.16	0.26	
29	0.48	0.92	0.32	0.88	1.75	5.20	2.05	0.80	0.48	0.24		0.38	
30	0.52	0.76	0.32	1.45	1.60	4.30	1.75	0.80	0.48	0.24		0.48	
31		0.76		0.96	1.30		3.10		0.50	0.24		0.42	
<b>Total</b>	6.46	4.04	30.78	24.53	38.44	161.80	201.65	44.15	17.20	8.80	7.14	7.44	552.43 CMSDAY
<b>Mean</b>	0.22	0.13	1.03	0.79	1.24	5.39	6.50	1.47	0.55	0.28	0.26	0.24	1.51 CMS
<b>Max</b>	0.52	1.60	3.70	2.65	4.90	21.00	27.00	2.80	0.76	0.48	0.52	0.48	27.00 CMS
<b>Min</b>	0.06	0.00	0.32	0.28	0.68	1.15	1.75	0.80	0.48	0.16	0.16	0.16	0.00 CMS
<b>Runoff</b>	0.56	0.35	2.66	2.12	3.32	13.98	17.42	3.81	1.49	0.76	0.62	0.64	47.73 MCM
<b>Momentary Peak</b>	77.40	CMS.	at 193.08 m. (MSL.) at 18.00 Hours, on Sep 8, 2021										
<b>Runoff Yield</b>	21.62	Liters/Second/Square KM.		Momentary Peak Yield		1105.71	Liters/Second/Square KM.						

## WATER YEAR : 2021

## TONLE SAP BASIN

## Khlong Ta Kong at Ban Khlong Ta Kong , Chanthaburi (T1.4)

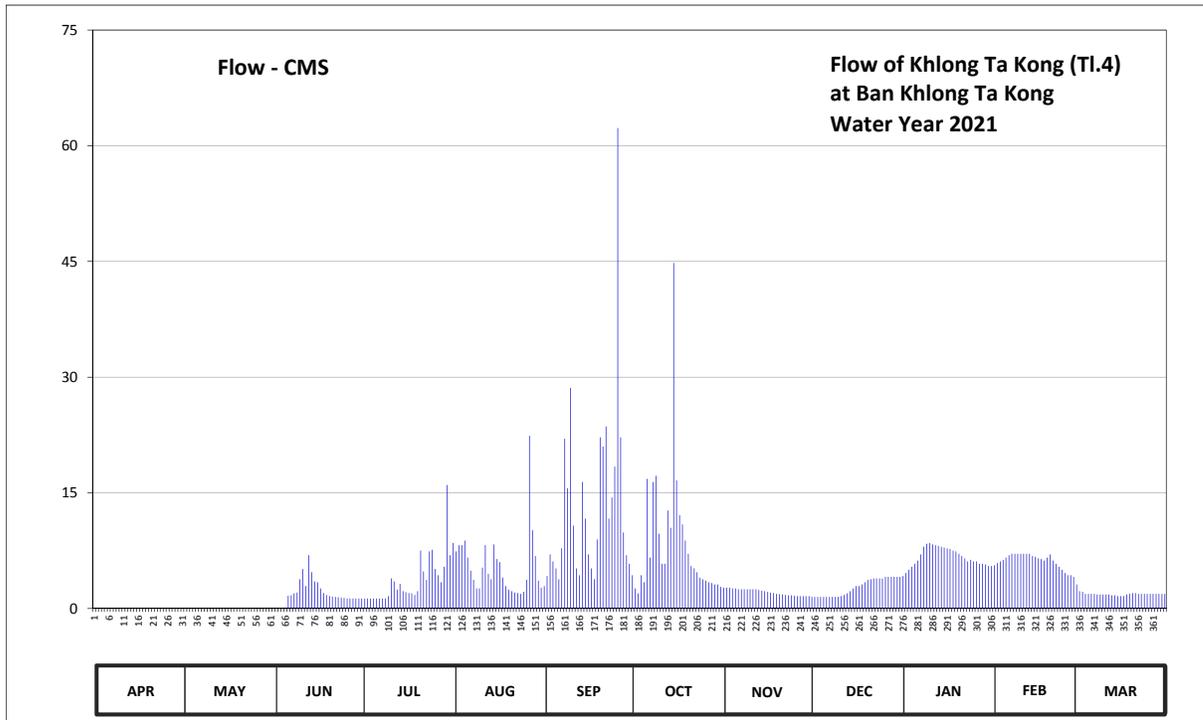
Lat 12 - 55 - 02 N Long 102 - 19 - 29 E

Location : on left bank downstream from the bridge of Amphoe Pong Nam Ron - Ban Pong Nam Ron.

	Ban Khlong Ta Kong	Amphoe Pong Nam Ron	Changwat Chanthaburi
<b>Drainage Area</b>	80 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+176.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 30 meters from the top staff gage.	<b>Elevation</b>	+184.723 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records very good. Flow effected by the local weir. Stage-discharge relation defined by 14 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

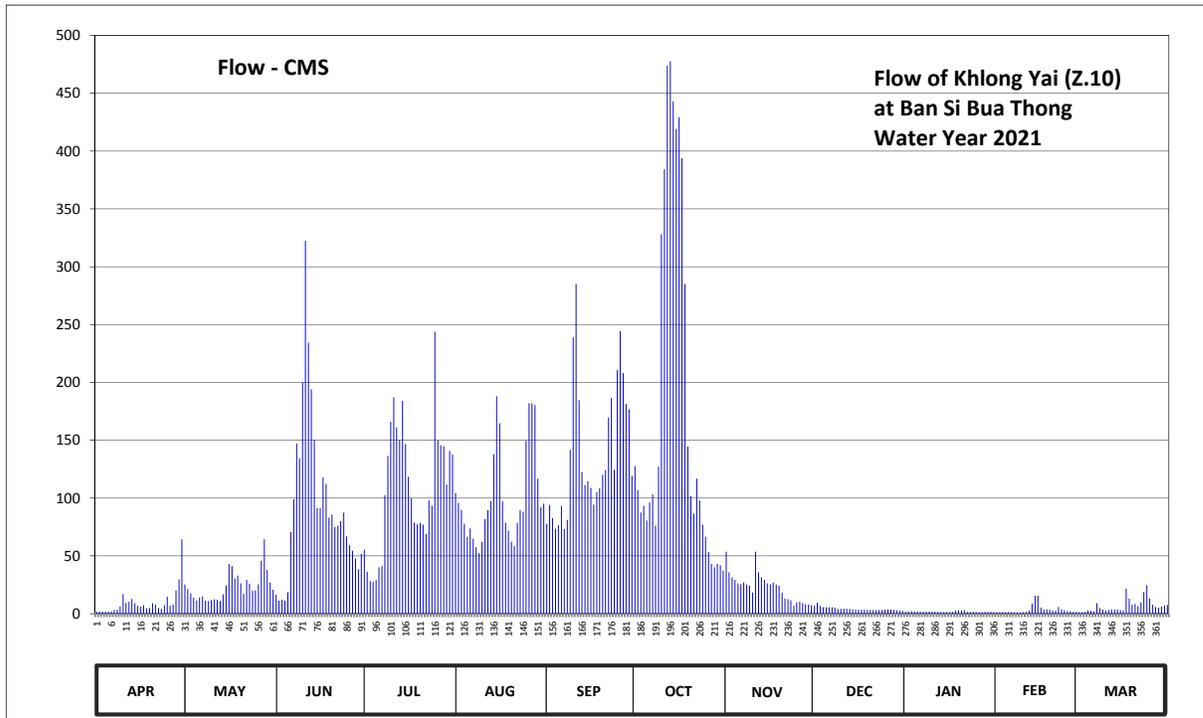
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.80	176.80	176.80	177.16	178.00	177.44	177.58	177.42	177.20	177.57	177.71	177.46	
2	176.80	176.80	176.80	177.16	177.89	177.57	177.41	177.42	177.20	177.61	177.74	177.35	
3	176.80	176.80	176.80	177.16	177.97	177.85	177.29	177.42	177.20	177.65	177.76	177.33	
4	176.80	176.80	176.80	177.16	177.97	177.76	177.58	177.41	177.20	177.69	177.78	177.28	
5	176.80	176.80	176.80	177.16	178.02	177.67	177.49	177.41	177.20	177.73	177.81	177.28	
6	176.80	176.80	177.23	177.16	177.81	177.53	178.49	177.40	177.20	177.77	177.84	177.28	
7	176.80	176.80	177.24	177.16	177.64	177.93	177.81	177.40	177.20	177.85	177.86	177.28	
8	176.80	176.80	177.29	177.16	177.52	178.75	178.47	177.40	177.20	177.95	177.86	177.26	
9	176.80	176.80	177.31	177.16	177.41	178.43	178.51	177.40	177.20	177.99	177.86	177.26	
10	176.80	176.80	177.53	177.22	177.41	179.02	178.08	177.40	177.20	178.00	177.86	177.26	
11	176.80	176.80	177.66	177.54	177.68	178.15	177.73	177.40	177.22	177.98	177.86	177.26	
12	176.80	176.80	177.44	177.50	177.97	177.67	177.73	177.40	177.25	177.97	177.86	177.26	
13	176.80	176.80	177.84	177.39	177.60	177.58	178.28	177.38	177.29	177.96	177.86	177.24	
14	176.80	176.80	177.62	177.47	177.53	178.47	178.13	177.36	177.35	177.95	177.83	177.24	
15	176.80	176.80	177.50	177.35	177.98	178.21	179.56	177.35	177.41	177.94	177.82	177.22	
16	176.80	176.80	177.49	177.32	177.79	177.85	178.48	177.33	177.44	177.93	177.80	177.22	
17	176.80	176.80	177.41	177.30	177.75	177.67	178.24	177.31	177.44	177.92	177.79	177.22	
18	176.80	176.80	177.30	177.29	177.55	177.53	178.16	177.30	177.46	177.90	177.77	177.26	
19	176.80	176.80	177.25	177.25	177.44	178.03	178.02	177.28	177.49	177.89	177.81	177.28	
20	176.80	176.80	177.22	177.35	177.39	178.76	177.86	177.27	177.52	177.86	177.85	177.30	
21	176.80	176.80	177.21	177.90	177.35	178.70	177.70	177.26	177.53	177.83	177.77	177.30	
22	176.80	176.80	177.20	177.63	177.31	178.83	177.67	177.25	177.54	177.80	177.73	177.28	
23	176.80	176.80	177.19	177.52	177.30	178.21	177.62	177.24	177.54	177.76	177.69	177.28	
24	176.80	176.80	177.18	177.89	177.28	178.37	177.55	177.24	177.54	177.78	177.65	177.28	
25	176.80	176.80	177.17	177.91	177.33	178.57	177.53	177.23	177.54	177.76	177.61	177.28	
26	176.80	176.80	177.16	177.66	177.52	180.08	177.51	177.22	177.56	177.76	177.58	177.28	
27	176.80	176.80	177.16	177.58	178.77	178.76	177.49	177.22	177.56	177.73	177.58	177.28	
28	176.80	176.80	177.16	177.49	178.11	178.09	177.48	177.22	177.56	177.73	177.56	177.28	
29	176.80	176.80	177.16	177.69	177.83	177.84	177.46	177.22	177.56	177.72	177.72	177.28	
30	176.80	176.80	177.16	178.45	177.51	177.73	177.46	177.22	177.56	177.70	177.70	177.28	
31	176.80	176.80	177.16	177.84	177.42	177.42	177.43	177.43	177.56	177.70	177.72	177.28	
Mean	176.80	176.80	177.24	177.45	177.68	178.17	177.86	177.33	177.38	177.82	177.77	177.28	
Max	176.80	176.80	177.84	178.45	178.77	180.08	179.56	177.42	177.56	178.00	177.86	177.46	180.08
Min	176.80	176.80	176.80	177.16	177.28	177.44	177.29	177.22	177.20	177.57	177.56	177.22	176.80
Annual Max Momentary Gage Height	180.42		m. (MSL.) ,			at 12.00 Hours ,		on Oct 15, 2021					
Zero Gage at Bottom Elevation	176.80		m. (MSL.) ,			River Bed	177.42	m. (MSL.)					
Left Bank Elevation	184.83		m. (MSL.) ,										
Right Bank Elevation	184.50		m. (MSL.) ,			Drainage Are	80	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	1.30	8.50	2.90	4.30	2.70	1.50	4.20	5.60	3.10	
2	0.00	0.00	0.00	1.30	7.40	4.20	2.60	2.70	1.50	4.60	5.90	2.25	
3	0.00	0.00	0.00	1.30	8.20	7.00	1.95	2.70	1.50	5.00	6.10	2.15	
4	0.00	0.00	0.00	1.30	8.20	6.10	4.30	2.60	1.50	5.40	6.30	1.90	
5	0.00	0.00	0.00	1.30	8.80	5.20	3.40	2.60	1.50	5.80	6.60	1.90	
6	0.00	0.00	1.65	1.30	6.60	3.80	16.80	2.50	1.50	6.20	6.90	1.90	
7	0.00	0.00	1.70	1.30	4.90	7.80	6.60	2.50	1.50	7.00	7.10	1.90	
8	0.00	0.00	1.95	1.30	3.70	22.00	16.40	2.50	1.50	8.00	7.10	1.80	
9	0.00	0.00	2.05	1.30	2.60	15.60	17.20	2.50	1.50	8.40	7.10	1.80	
10	0.00	0.00	3.80	1.60	2.60	28.60	9.70	2.50	1.50	8.50	7.10	1.80	
11	0.00	0.00	5.10	3.90	5.30	10.75	5.80	2.50	1.60	8.30	7.10	1.80	
12	0.00	0.00	2.90	3.50	8.20	5.20	5.80	2.50	1.75	8.20	7.10	1.80	
13	0.00	0.00	6.90	2.45	4.50	4.30	12.70	2.40	1.95	8.10	7.10	1.70	
14	0.00	0.00	4.70	3.20	3.80	16.40	10.45	2.30	2.25	8.00	6.80	1.70	
15	0.00	0.00	3.50	2.25	8.30	11.65	44.80	2.25	2.60	7.90	6.70	1.60	
16	0.00	0.00	3.40	2.10	6.40	7.00	16.60	2.15	2.90	7.80	6.50	1.60	
17	0.00	0.00	2.60	2.00	6.00	5.20	12.10	2.05	2.90	7.70	6.40	1.60	
18	0.00	0.00	2.00	1.95	4.00	3.80	10.90	2.00	3.10	7.50	6.20	1.80	
19	0.00	0.00	1.75	1.75	2.90	8.95	8.80	1.90	3.40	7.40	6.60	1.90	
20	0.00	0.00	1.60	2.25	2.45	22.20	7.10	1.85	3.70	7.10	7.00	2.00	
21	0.00	0.00	1.55	7.50	2.25	21.00	5.50	1.80	3.80	6.80	6.20	2.00	
22	0.00	0.00	1.50	4.80	2.05	23.60	5.20	1.75	3.90	6.50	5.80	1.90	
23	0.00	0.00	1.45	3.70	2.00	11.65	4.70	1.70	3.90	6.10	5.40	1.90	
24	0.00	0.00	1.40	7.40	1.90	14.40	4.00	1.70	3.90	6.30	5.00	1.90	
25	0.00	0.00	1.35	7.60	2.15	18.40	3.80	1.65	3.90	6.10	4.60	1.90	
26	0.00	0.00	1.30	5.10	3.70	62.30	3.60	1.60	4.10	6.10	4.30	1.90	
27	0.00	0.00	1.30	4.30	22.40	22.20	3.40	1.60	4.10	5.80	4.30	1.90	
28	0.00	0.00	1.30	3.40	10.15	9.85	3.30	1.60	4.10	5.80	4.10	1.90	
29	0.00	0.00	1.30	5.40	6.80	6.90	3.10	1.60	4.10	5.70		1.90	
30	0.00	0.00	1.30	16.00	3.60	5.80	3.10	1.60	4.10	5.50		1.90	
31		0.00		6.90	2.70		2.80		4.10	5.50		1.90	
Total	0.00	0.00	59.35	110.75	173.05	394.75	260.80	64.30	85.15	207.30	173.00	59.00	1587.45 CMSDAY
Mean	0.00	0.00	1.98	3.57	5.58	13.16	8.41	2.14	2.75	6.69	6.18	1.90	4.35 CMS
Max	0.00	0.00	6.90	16.00	22.40	62.30	44.80	2.70	4.10	8.50	7.10	3.10	62.30 CMS
Min	0.00	0.00	0.00	1.30	1.90	2.90	1.95	1.60	1.50	4.20	4.10	1.60	0.00 CMS
Runoff	0.00	0.00	5.13	9.57	14.95	34.11	22.53	5.56	7.36	17.91	14.95	5.10	137.16 MCM
Momentary Peak	75.30	CMS.	at 180.42 m. (MSL.) at 12.00 Hours , on Oct 15, 2021										
Runoff Yield	54.36	Liters/Second/Square KM.	Momentary Peak Yield 941.25 Liters/Second/Square KM.										

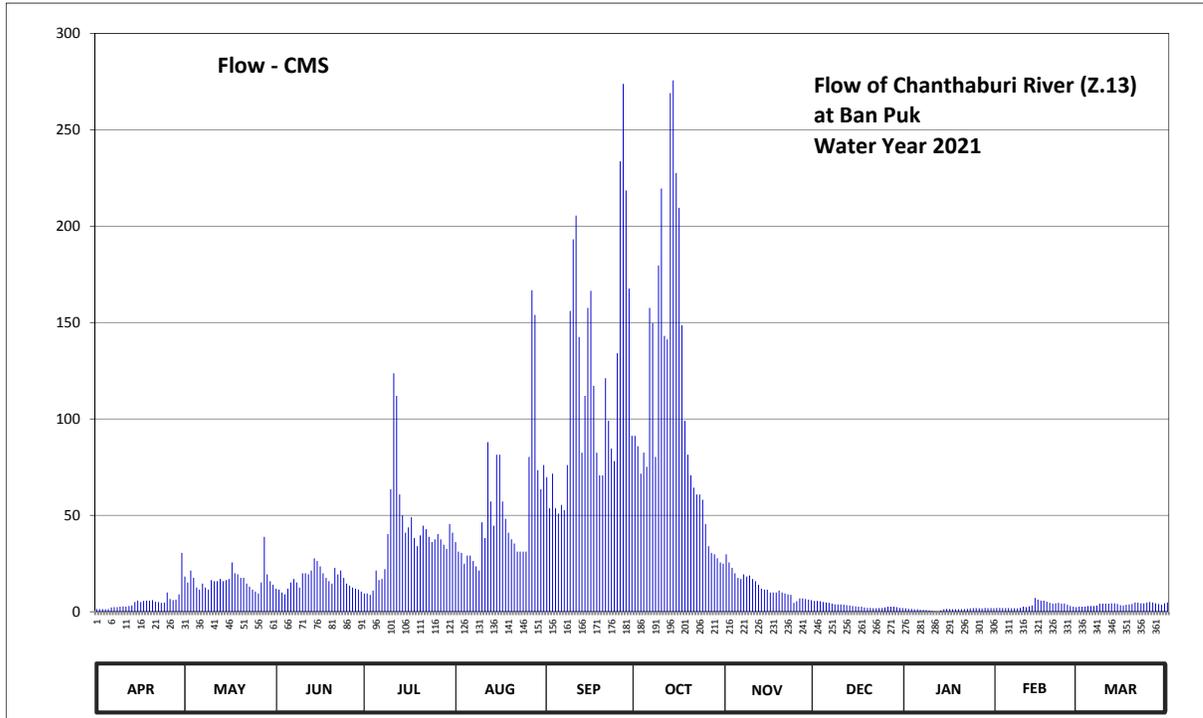




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.70	25.25	16.50	55.40	104.40	77.90	127.60	53.60	6.80	1.80	1.50	1.40		
2	1.75	21.25	11.25	36.25	95.80	94.05	106.80	35.75	9.50	2.10	1.45	1.40		
3	1.75	17.50	12.25	28.25	89.85	82.70	87.40	31.50	6.60	2.30	1.45	1.55		
4	1.80	13.75	11.25	27.50	77.90	73.40	93.35	29.25	5.60	1.95	1.40	2.80		
5	1.90	11.50	18.50	29.00	66.50	76.40	80.60	26.25	5.60	1.90	1.45	2.40		
6	2.10	14.00	70.70	40.10	73.70	93.00	96.15	25.50	5.60	1.80	1.35	2.00		
7	3.30	15.00	98.95	41.30	64.70	73.10	103.20	27.00	5.60	1.80	1.25	9.00		
8	3.50	11.25	147.20	102.40	57.50	81.20	76.10	25.25	5.40	1.80	1.20	4.80		
9	6.20	11.00	134.40	136.40	52.40	141.60	127.20	24.25	4.00	1.80	1.15	3.50		
10	17.00	11.75	200.00	165.95	62.00	238.95	328.05	18.25	4.20	1.75	1.30	2.70		
11	9.50	12.50	322.55	187.00	81.80	285.15	384.20	53.60	4.40	1.75	1.55	3.30		
12	10.25	12.00	234.55	161.00	89.50	184.50	473.75	35.75	4.40	1.60	2.40	3.80		
13	12.75	11.00	194.00	150.00	97.20	122.40	477.65	31.50	4.20	1.50	8.75	3.70		
14	9.25	16.75	150.40	184.00	138.00	111.20	443.00	29.25	3.90	1.45	15.50	3.70		
15	6.80	24.50	91.25	146.80	188.00	114.40	419.00	26.25	3.60	1.40	15.50	3.20		
16	6.20	43.10	91.25	118.40	164.60	108.80	429.20	25.50	3.60	1.40	5.40	2.70		
17	7.40	41.30	118.00	99.65	97.20	94.40	393.80	27.00	3.60	1.45	3.70	21.75		
18	4.80	30.50	112.40	78.80	78.80	105.20	285.15	25.25	3.50	2.60	3.80	13.00		
19	5.00	33.00	83.00	77.30	71.90	108.40	144.40	24.25	3.30	3.00	3.60	8.00		
20	9.00	26.25	85.70	78.50	62.30	120.00	101.60	18.25	3.30	2.90	2.80	8.50		
21	8.00	17.25	74.90	77.00	58.40	124.00	86.70	13.00	3.10	3.00	2.70	6.60		
22	5.20	29.25	76.10	68.90	78.50	169.55	116.80	12.50	3.10	1.45	5.80	9.75		
23	4.20	26.00	80.00	97.90	89.50	186.50	97.90	11.50	3.10	1.55	3.90	18.75		
24	7.40	19.75	87.40	93.35	88.10	124.40	77.00	7.00	3.30	1.65	3.00	24.75		
25	14.75	20.25	66.80	243.90	149.60	210.50	66.50	9.75	3.40	1.50	2.30	13.25		
26	6.80	25.50	59.30	149.60	182.00	244.45	53.30	10.25	3.70	1.40	1.95	7.80		
27	7.80	45.80	54.50	145.60	182.00	208.00	43.10	9.25	3.50	1.40	1.70	5.80		
28	20.25	64.40	47.60	144.80	180.50	181.50	40.10	8.25	3.30	1.70	1.55	5.20		
29	29.75	37.75	38.30	111.60	116.80	176.75	43.10	8.00	3.00	1.65		6.20		
30	64.40	27.00	51.80	140.80	91.95	119.20	41.90	7.40	2.80	1.45		7.20		
31		20.75		137.60	95.10		37.25		2.50	1.50		7.60		
<b>Total</b>	<b>290.50</b>	<b>736.85</b>	<b>2840.80</b>	<b>3355.05</b>	<b>3126.50</b>	<b>4131.60</b>	<b>5481.85</b>	<b>690.10</b>	<b>131.50</b>	<b>56.30</b>	<b>99.40</b>	<b>216.10</b>	<b>21156.55</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>9.68</b>	<b>23.77</b>	<b>94.69</b>	<b>108.23</b>	<b>100.85</b>	<b>137.72</b>	<b>176.83</b>	<b>23.00</b>	<b>4.24</b>	<b>1.82</b>	<b>3.55</b>	<b>6.97</b>	<b>57.96</b>	<b>CMS</b>
<b>Max</b>	<b>64.40</b>	<b>64.40</b>	<b>322.55</b>	<b>243.90</b>	<b>188.00</b>	<b>285.15</b>	<b>477.65</b>	<b>53.60</b>	<b>9.50</b>	<b>3.00</b>	<b>15.50</b>	<b>24.75</b>	<b>477.65</b>	<b>CMS</b>
<b>Min</b>	<b>1.70</b>	<b>11.00</b>	<b>11.25</b>	<b>27.50</b>	<b>52.40</b>	<b>73.10</b>	<b>37.25</b>	<b>7.00</b>	<b>2.50</b>	<b>1.40</b>	<b>1.15</b>	<b>1.40</b>	<b>1.15</b>	<b>CMS</b>
<b>Runoff</b>	<b>25.10</b>	<b>63.66</b>	<b>245.45</b>	<b>289.88</b>	<b>270.13</b>	<b>356.97</b>	<b>473.63</b>	<b>59.62</b>	<b>11.36</b>	<b>4.86</b>	<b>8.59</b>	<b>18.67</b>	<b>1827.93</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>496.50</b>	<b>CMS, at 14.50 m. (MSL), at 21.00 Hours, on Oct 12, 2021</b>												
<b>Runoff Yield</b>	<b>74.50</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>638.17</b>	<b>Liters/Second/Square KM.</b>							





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	18.20	12.00	9.50	36.10	69.80	91.30	29.80	5.60	1.80	2.00	2.60	
2	1.40	15.20	11.50	9.50	31.20	53.60	85.80	25.60	5.60	1.60	2.00	2.60	
3	1.40	21.40	10.00	8.70	30.50	71.60	71.60	22.80	5.40	1.50	1.90	2.60	
4	1.30	17.60	9.00	11.00	24.90	53.60	82.50	20.00	5.00	1.30	1.90	3.00	
5	1.40	12.50	12.00	21.40	29.10	50.90	75.20	17.60	4.80	1.30	1.90	3.00	
6	2.20	11.50	15.20	16.40	29.10	55.40	157.60	17.00	4.60	1.10	1.80	3.00	
7	2.40	14.60	17.00	17.00	26.30	52.70	149.70	19.40	4.20	0.95	1.80	3.20	
8	2.40	12.50	15.20	22.10	23.50	76.10	80.30	18.20	3.80	0.90	1.70	4.20	
9	2.60	11.50	12.50	40.30	21.40	156.00	179.60	18.80	3.80	0.75	2.00	4.20	
10	2.80	16.40	20.00	63.50	46.40	193.20	219.50	17.00	3.80	0.45	2.60	4.20	
11	2.60	15.80	20.00	123.70	38.20	205.50	143.10	15.80	3.60	0.20	2.40	4.20	
12	3.00	15.80	19.40	112.00	88.00	142.50	141.30	14.00	3.40	0.00	2.80	4.40	
13	3.20	17.00	21.40	60.80	57.20	82.50	269.00	12.00	3.20	0.70	3.20	4.40	
14	5.00	15.80	27.70	50.00	44.60	112.00	275.60	11.50	3.00	1.30	7.20	4.00	
15	5.80	16.40	26.30	41.00	81.40	157.60	227.60	11.50	2.80	1.50	6.30	3.40	
16	5.00	17.00	23.50	43.70	81.40	166.40	209.50	10.00	2.60	1.40	5.80	3.20	
17	5.60	25.60	20.00	49.10	57.20	117.20	148.50	10.00	2.60	1.30	5.80	3.60	
18	5.80	20.00	17.60	38.20	48.20	82.50	99.00	10.00	2.20	1.30	5.20	3.80	
19	5.80	19.40	15.80	34.00	41.00	70.70	81.40	11.00	2.00	1.30	4.60	4.00	
20	6.00	17.60	14.60	39.60	37.50	70.70	70.70	10.00	2.00	1.30	4.20	4.80	
21	5.20	17.60	22.80	44.60	35.40	121.10	64.40	9.50	1.80	1.40	4.40	4.80	
22	5.00	14.60	19.40	42.80	31.20	99.00	60.80	9.00	1.80	1.50	4.60	4.40	
23	4.60	13.00	21.40	38.90	31.20	84.70	60.80	8.70	1.90	1.70	4.20	4.40	
24	4.80	11.50	17.60	36.10	31.20	78.10	58.10	4.60	1.90	1.90	4.20	4.80	
25	10.00	10.50	14.60	37.50	31.20	134.10	45.50	5.40	2.20	1.90	3.60	5.00	
26	6.60	9.50	13.50	40.30	80.30	233.60	34.00	6.90	2.60	1.80	3.00	4.80	
27	6.00	15.20	12.50	37.50	166.80	273.80	30.50	6.90	2.60	1.70	2.60	4.40	
28	6.30	38.90	12.00	34.70	154.00	218.50	29.80	6.60	2.60	2.00	2.40	4.00	
29	9.00	19.40	11.50	32.60	73.40	167.60	27.70	6.30	2.40	1.90		3.60	
30	30.50	15.80	10.50	45.50	63.50	91.30	25.60	6.00	2.00	1.90		4.40	
31		14.00		41.00	76.10		24.90		1.90	1.80		4.80	
<b>Total</b>	155.10	511.80	496.50	1243.00	1647.50	3542.30	3320.90	391.90	97.70	41.45	96.10	121.80	11666.05 CMSDAY
<b>Mean</b>	5.17	16.51	16.55	40.10	53.15	118.08	107.13	13.06	3.15	1.34	3.43	3.93	31.96 CMS
<b>Max</b>	30.50	38.90	27.70	123.70	166.80	273.80	275.60	29.80	5.60	2.00	7.20	5.00	275.60 CMS
<b>Min</b>	1.30	9.50	9.00	8.70	21.40	50.90	24.90	4.60	1.80	0.00	1.70	2.60	0.00 CMS
<b>Runoff</b>	13.40	44.22	42.90	107.40	142.34	306.05	286.93	33.86	8.44	3.58	8.30	10.52	1007.95 MCM
<b>Momentary Peak</b>	285.00	CMS, at 13.30 m. (MSL), at 11.00 Hours, on Oct 13, 2021											
<b>Runoff Yield</b>	49.32	Liters/Second/Square KM. Momentary Peak Yield 439.81 Liters/Second/Square KM.											

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)

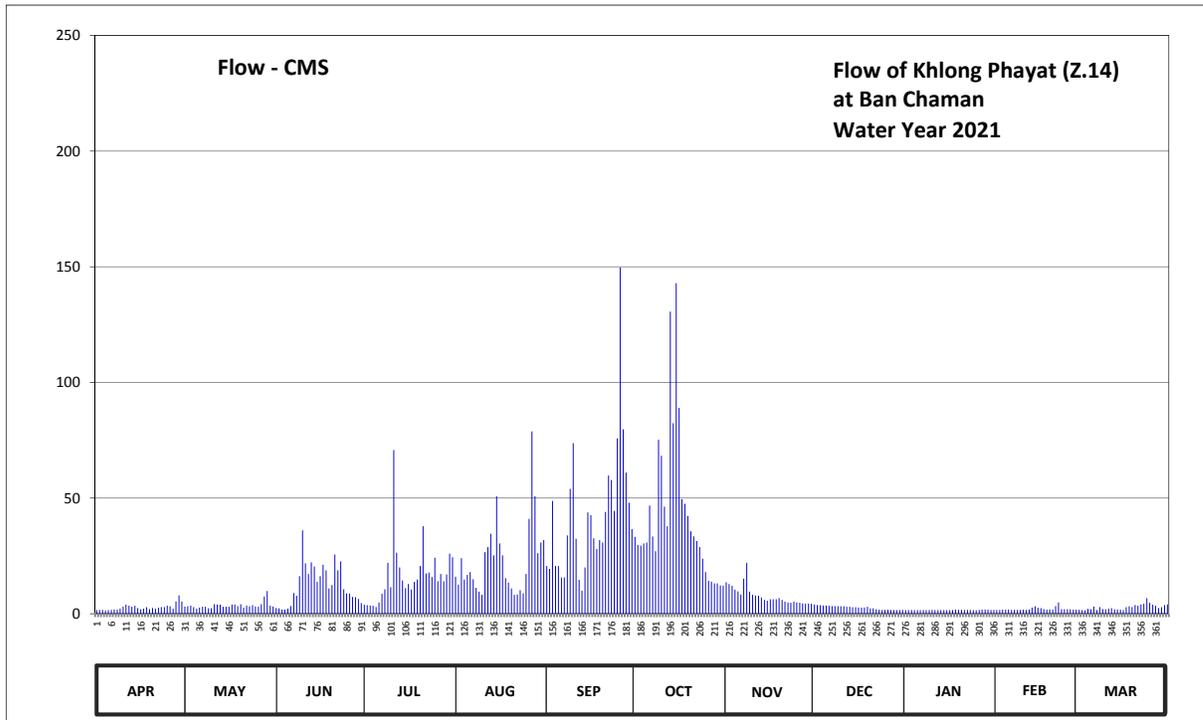
Lat 12 - 44 - 40 N Long 102 - 12 - 23 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	Ban Chaman	Amphoe Makham	Changwat Chanthaburi
<b>Drainage Area</b>	221 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+5.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 30 meters from the top staff gage.	<b>Elevation</b>	+13.690 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1968 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 11.030 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 38 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.41	6.61	6.55	6.69	7.50	7.73	8.36	7.34	6.70	6.42	6.43	6.44	
2	6.43	6.62	6.53	6.67	7.27	7.67	8.19	7.29	6.68	6.42	6.43	6.41	
3	6.43	6.65	6.46	6.65	7.90	9.11	8.17	7.24	6.67	6.43	6.46	6.40	
4	6.39	6.59	6.46	6.64	7.42	7.73	8.22	7.13	6.66	6.42	6.46	6.51	
5	6.41	6.52	6.52	6.59	7.54	7.73	8.24	7.08	6.65	6.42	6.47	6.49	
6	6.43	6.57	6.63	6.76	7.60	7.48	9.03	6.99	6.64	6.42	6.43	6.61	
7	6.47	6.60	7.03	7.01	7.43	7.48	8.37	7.44	6.63	6.43	6.43	6.41	
8	6.46	6.60	6.95	7.14	7.18	8.39	8.05	7.80	6.63	6.42	6.43	6.59	
9	6.52	6.53	7.51	7.80	7.07	9.32	10.14	7.07	6.62	6.42	6.43	6.50	
10	6.60	6.54	8.50	7.20	6.98	10.09	9.89	6.98	6.62	6.43	6.46	6.48	
11	6.69	6.71	7.79	9.99	8.03	8.32	9.01	6.96	6.62	6.42	6.43	6.52	
12	6.65	6.70	7.56	8.02	8.14	7.41	8.59	6.95	6.60	6.42	6.47	6.54	
13	6.60	6.69	7.81	7.70	8.43	7.10	11.74	6.90	6.60	6.42	6.57	6.48	
14	6.64	6.60	7.72	7.39	7.96	7.70	10.38	6.83	6.58	6.42	6.62	6.46	
15	6.55	6.60	7.35	7.17	9.19	8.89	12.02	6.81	6.58	6.40	6.56	6.45	
16	6.48	6.60	7.51	7.29	8.22	8.83	10.60	6.85	6.57	6.42	6.54	6.42	
17	6.52	6.70	7.76	7.13	7.96	8.33	9.14	6.85	6.56	6.42	6.50	6.58	
18	6.58	6.70	7.64	7.35	7.46	8.10	9.06	6.85	6.57	6.45	6.45	6.62	
19	6.50	6.63	7.16	7.42	7.33	8.29	8.81	6.88	6.60	6.43	6.49	6.59	
20	6.55	6.71	7.26	7.73	7.16	8.24	8.48	6.83	6.53	6.43	6.46	6.68	
21	6.52	6.56	7.98	8.59	6.98	8.90	8.37	6.78	6.53	6.43	6.63	6.65	
22	6.56	6.65	7.64	7.57	6.99	9.55	8.27	6.76	6.49	6.43	6.76	6.70	
23	6.59	6.62	7.83	7.59	7.11	9.47	8.14	6.75	6.44	6.43	6.50	6.72	
24	6.59	6.67	7.14	7.49	7.02	8.92	7.89	6.78	6.42	6.42	6.48	6.88	
25	6.65	6.61	7.02	7.91	7.56	10.16	7.60	6.76	6.43	6.40	6.50	6.75	
26	6.62	6.60	7.01	7.37	8.75	12.17	7.38	6.75	6.44	6.43	6.49	6.69	
27	6.52	6.71	6.92	7.56	10.26	10.29	7.36	6.73	6.43	6.46	6.45	6.64	
28	6.79	6.93	6.91	7.37	9.19	9.60	7.31	6.72	6.42	6.47	6.46	6.55	
29	6.96	7.09	6.86	7.55	8.01	9.08	7.31	6.72	6.42	6.45		6.58	
30	6.78	6.65	6.74	8.00	8.24	8.53	7.25	6.72	6.42	6.43		6.67	
31		6.61		7.92	8.29		7.24		6.43	6.43		6.70	
Mean	6.56	6.65	7.22	7.46	7.81	8.69	8.66	6.95	6.55	6.43	6.49	6.57	
Max	6.96	7.09	8.50	9.99	10.26	12.17	12.02	7.80	6.70	6.47	6.76	6.88	12.17
Min	6.39	6.52	6.46	6.59	6.98	7.10	7.24	6.72	6.42	6.40	6.43	6.40	6.39
Annual Max Momentary Gage Height	13.35		m. (MSL.) ,			at 10.00 Hours, on Oct 13, 2021							
Zero Gage at Bottom Elevation		5.40	m. (MSL.) ,			River Bed	5.26	m. (MSL.)					
Left Bank Elevation		11.02	m. (MSL.) ,										
Right Bank Elevation		11.16	m. (MSL.) ,			Drainage Are	221	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.55	3.10	2.50	3.90	16.00	20.60	33.20	13.60	4.00	1.60	1.65	1.70		
2	1.65	3.20	2.30	3.70	12.55	19.40	29.80	12.85	3.80	1.60	1.65	1.55		
3	1.65	3.50	1.80	3.50	24.00	48.75	29.40	12.10	3.70	1.65	1.80	1.50		
4	1.45	2.90	1.80	3.40	14.80	20.60	30.40	10.45	3.60	1.60	1.80	2.10		
5	1.55	2.20	2.20	2.90	16.80	20.60	30.80	9.70	3.50	1.60	1.85	1.95		
6	1.65	2.70	3.30	4.90	18.00	15.70	46.75	8.35	3.40	1.60	1.65	3.10		
7	1.85	3.00	8.95	8.65	14.95	15.70	33.40	15.10	3.30	1.65	1.65	1.55		
8	1.80	3.00	7.75	10.60	11.20	33.80	27.00	22.00	3.30	1.60	1.65	2.90		
9	2.20	2.30	16.20	22.00	9.55	54.00	75.20	9.55	3.20	1.60	1.65	2.00		
10	3.00	2.40	36.00	11.50	8.20	73.70	68.25	8.20	3.20	1.65	1.80	1.90		
11	3.90	4.15	21.80	70.75	26.60	32.40	46.25	7.90	3.20	1.60	1.65	2.20		
12	3.50	4.00	17.20	26.40	28.80	14.65	37.80	7.75	3.00	1.60	1.85	2.40		
13	3.00	3.90	22.20	20.00	34.60	10.00	130.60	7.00	3.00	1.60	2.70	1.90		
14	3.40	3.00	20.40	14.35	25.20	20.00	82.40	5.95	2.80	1.60	3.20	1.80		
15	2.50	3.00	13.75	11.05	50.75	43.80	142.90	5.65	2.80	1.50	2.60	1.75		
16	1.90	3.00	16.20	12.85	30.40	42.60	89.00	6.25	2.70	1.60	2.40	1.60		
17	2.20	4.00	21.20	10.45	25.20	32.60	49.50	6.25	2.60	1.60	2.00	2.80		
18	2.80	4.00	18.80	13.75	15.40	28.00	47.50	6.25	2.70	1.75	1.75	3.20		
19	2.00	3.30	10.90	14.80	13.45	31.80	42.20	6.70	3.00	1.65	1.95	2.90		
20	2.50	4.15	12.40	20.60	10.90	30.80	35.60	5.95	2.30	1.65	1.80	3.80		
21	2.20	2.60	25.60	37.80	8.20	44.00	33.40	5.20	2.30	1.65	3.30	3.50		
22	2.60	3.50	18.80	17.40	8.35	59.75	31.40	4.90	1.95	1.65	4.90	4.00		
23	2.90	3.20	22.60	17.80	10.15	57.75	28.80	4.75	1.70	1.65	2.00	4.30		
24	2.90	3.70	10.60	15.85	8.80	44.40	23.80	5.20	1.60	1.60	1.90	6.70		
25	3.50	3.10	8.80	24.20	17.20	75.80	18.00	4.90	1.65	1.50	2.00	4.75		
26	3.20	3.00	8.65	14.05	41.00	149.65	14.20	4.75	1.70	1.65	1.95	3.90		
27	2.20	4.15	7.30	17.20	78.80	79.70	13.90	4.45	1.65	1.80	1.75	3.40		
28	5.35	7.45	7.15	14.05	50.75	61.00	13.15	4.30	1.60	1.85	1.80	2.50		
29	7.90	9.85	6.40	17.00	26.20	48.00	13.15	4.30	1.60	1.75		2.80		
30	5.20	3.50	4.60	26.00	30.80	36.60	12.25	4.30	1.60	1.65		3.70		
31		3.10		24.40	31.80		12.10		1.65	1.65		4.00		
Total	84.00	111.95	378.15	515.80	719.40	1266.15	1322.10	234.60	82.10	50.70	58.65	88.15	4911.75	CMSDAY
Mean	2.80	3.61	12.61	16.64	23.21	42.20	42.65	7.82	2.65	1.64	2.09	2.84	13.46	CMS
Max	7.90	9.85	36.00	70.75	78.80	149.65	142.90	22.00	4.00	1.85	4.90	6.70	149.65	CMS
Min	1.45	2.20	1.80	2.90	8.20	10.00	12.10	4.30	1.60	1.50	1.65	1.50	1.45	CMS
Runoff	7.26	9.67	32.67	44.57	62.16	109.40	114.23	20.27	7.09	4.38	5.07	7.62	424.38	MCM
Momentary Peak	214.00	CMS, at 13.35 m. (MSL), at 10.00 Hours, on Oct 13, 2021												
Runoff Yield	60.89	Liters/Second/Square KM.		Momentary Peak Yield		968.33	Liters/Second/Square KM.							

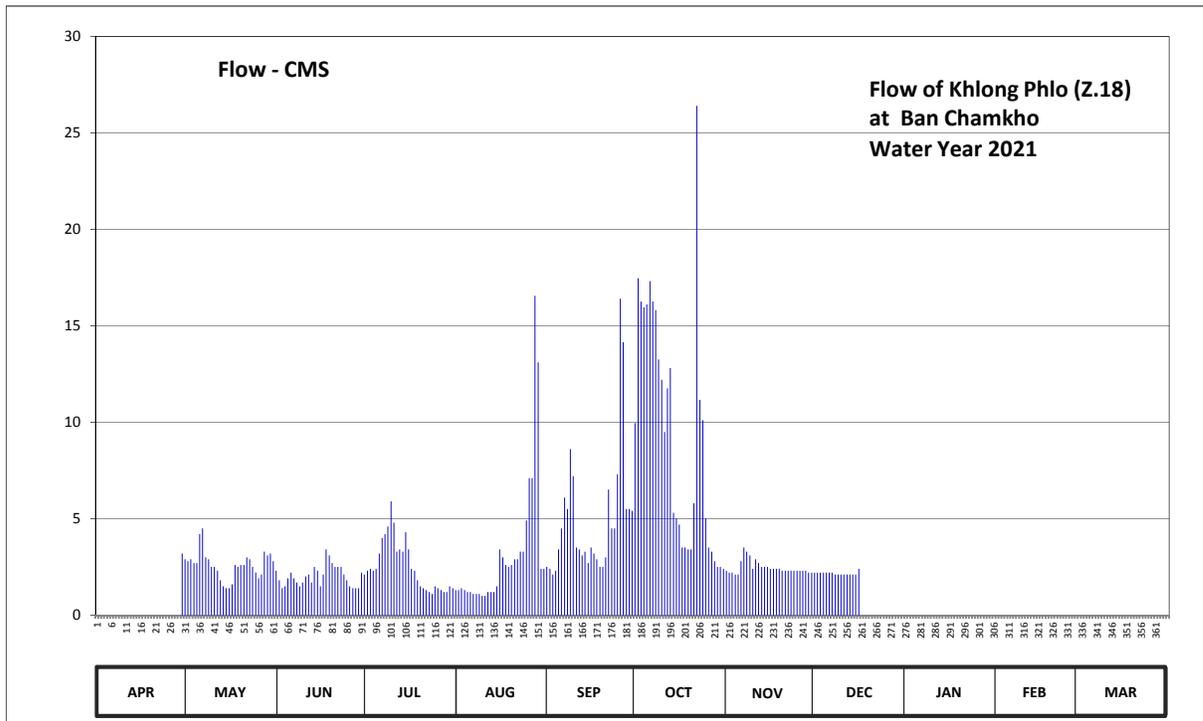
**WATER YEAR : 2021**  
**EAST COAST - GULF BASIN**  
**Khlong Phlo at Ban Chamkho , Rayong (Z.18)**  
 Lat 12 - 56 - 54 N Long 101 - 40 - 41 E

Location : on right bank at the bridge on road.

	<b>Ban Chamkho</b>	<b>Amphoe Khao Chamao</b>	<b>Changwat Rayong</b>
<b>Drainage Area</b>	205 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+28.146 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the top staff gage.		<b>Elevation</b> +35.314 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1982 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1983 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1983 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Flow regulated by the concrete weir about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 10 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.11	29.09	29.03	29.01	28.93	29.05	29.73	29.03	29.02	30.20	30.19	30.04	
2	30.11	29.08	28.98	29.03	28.93	29.04	30.23	29.02	29.02	30.20	30.19	30.02	
3	30.11	29.09	28.94	29.04	28.94	29.01	30.15	29.02	29.02	30.20	30.19	30.01	
4	30.11	29.07	28.95	29.03	28.93	29.03	30.13	29.01	29.02	30.20	30.19	29.99	
5	30.11	29.07	28.99	29.04	28.92	29.14	30.14	29.01	29.02	30.20	30.18	29.98	
6	30.10	29.22	29.02	29.12	28.92	29.25	30.22	29.08	29.02	30.20	30.18	29.96	
7	30.08	29.25	28.99	29.20	28.91	29.41	30.15	29.15	29.02	30.20	30.18	29.95	
8	30.07	29.10	28.97	29.22	28.91	29.35	30.12	29.13	29.01	30.20	30.17	29.95	
9	30.09	29.09	28.95	29.26	28.91	29.64	29.95	29.11	29.01	30.20	30.17	29.94	
10	30.09	29.05	28.97	29.39	28.90	29.52	29.88	29.04	29.01	30.20	30.17	29.93	
11	30.09	29.05	29.00	29.28	28.90	29.15	29.70	29.09	29.01	30.20	30.17	29.91	
12	30.12	29.03	29.01	29.13	28.92	29.14	29.85	29.07	29.01	30.20	30.17	29.89	
13	30.21	28.98	28.97	29.14	28.92	29.11	29.92	29.05	29.01	30.19	30.17	29.89	
14	30.26	28.95	29.05	29.13	28.92	29.13	29.33	29.05	29.01	30.19	30.17	29.88	
15	30.32	28.94	29.03	29.23	28.95	29.07	29.30	29.05	29.01	30.19	30.20	29.86	
16	30.35	28.94	28.95	29.14	29.14	29.15	29.27	29.04	29.04	30.19	30.20	29.84	
17	30.37	28.96	29.01	29.04	29.10	29.12	29.15	29.04	29.40	30.19	30.20	29.83	
18	30.40	29.06	29.14	29.03	29.06	29.09	29.15	29.04	29.58	30.19	30.18	29.83	
19	30.40	29.05	29.11	28.98	29.05	29.05	29.14	29.04	29.61	30.19	30.18	29.82	
20	30.40	29.06	29.07	28.95	29.06	29.05	29.14	29.03	29.67	30.19	30.17	29.81	
21	30.40	29.06	29.05	28.94	29.09	29.10	29.38	29.03	30.15	30.19	30.16	29.79	
22	30.41	29.10	29.05	28.93	29.09	29.45	30.72	29.03	30.17	30.19	30.14	29.78	
23	30.43	29.09	29.05	28.92	29.13	29.25	29.81	29.03	30.20	30.20	30.13	29.77	
24	30.46	29.05	29.01	28.91	29.13	29.25	29.74	29.03	30.20	30.20	30.13	29.76	
25	30.52	29.02	28.98	28.95	29.29	29.53	29.30	29.03	30.20	30.20	30.11	29.74	
26	30.55	28.99	28.95	28.94	29.51	30.16	29.15	29.03	30.20	30.20	30.09	29.72	
27	30.56	29.01	28.94	28.93	29.51	30.01	29.13	29.03	30.20	30.20	30.08	29.69	
28	30.50	29.13	28.94	28.92	30.17	29.35	29.08	29.03	30.20	30.20	30.06	29.64	
29	29.78	29.11	28.94	28.92	29.94	29.35	29.05	29.02	30.20	30.20		29.63	
30	29.12	29.12	29.02	28.95	29.04	29.34	29.05	29.02	30.20	30.20		29.61	
31		29.08		28.94	29.04		29.04		30.20	30.20		29.60	
Mean	30.22	29.06	29.00	29.05	29.10	29.28	29.62	29.05	29.50	30.20	30.16	29.84	
Max	30.56	29.25	29.14	29.39	30.17	30.16	30.72	29.15	30.20	30.20	30.20	30.04	30.72
Min	29.12	28.94	28.94	28.91	28.90	29.01	29.04	29.01	29.01	30.19	30.06	29.60	28.90
Annual Max Momentary Gage Height	31.29			m. (MSL.) ,			at 12.00 Hours, on Oct 22, 2021						
Zero Gage at Bottom Elevation	28.15			m. (MSL.) ,		River Bed	26.14	m. (MSL.)					
Left Bank Elevation		32.05		m. (MSL.) ,									
Right Bank Elevation		32.29		m. (MSL.) ,	Drainage Are	205	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.90	2.30	2.10	1.30	2.50	9.95	2.30	2.20	0.00	0.00	0.00	
2	0.00	2.80	1.80	2.30	1.30	2.40	17.45	2.20	2.20	0.00	0.00	0.00	
3	0.00	2.90	1.40	2.40	1.40	2.10	16.25	2.20	2.20	0.00	0.00	0.00	
4	0.00	2.70	1.50	2.30	1.30	2.30	15.95	2.10	2.20	0.00	0.00	0.00	
5	0.00	2.70	1.90	2.40	1.20	3.40	16.10	2.10	2.20	0.00	0.00	0.00	
6	0.00	4.20	2.20	3.20	1.20	4.50	17.30	2.80	2.20	0.00	0.00	0.00	
7	0.00	4.50	1.90	4.00	1.10	6.10	16.25	3.50	2.20	0.00	0.00	0.00	
8	0.00	3.00	1.70	4.20	1.10	5.50	15.80	3.30	2.10	0.00	0.00	0.00	
9	0.00	2.90	1.50	4.60	1.10	8.60	13.25	3.10	2.10	0.00	0.00	0.00	
10	0.00	2.50	1.70	5.90	1.00	7.20	12.20	2.40	2.10	0.00	0.00	0.00	
11	0.00	2.50	2.00	4.80	1.00	3.50	9.50	2.90	2.10	0.00	0.00	0.00	
12	0.00	2.30	2.10	3.30	1.20	3.40	11.75	2.70	2.10	0.00	0.00	0.00	
13	0.00	1.80	1.70	3.40	1.20	3.10	12.80	2.50	2.10	0.00	0.00	0.00	
14	0.00	1.50	2.50	3.30	1.20	3.30	5.30	2.50	2.10	0.00	0.00	0.00	
15	0.00	1.40	2.30	4.30	1.50	2.70	5.00	2.50	2.10	0.00	0.00	0.00	
16	0.00	1.40	1.50	3.40	3.40	3.50	4.70	2.40	2.40	0.00	0.00	0.00	
17	0.00	1.60	2.10	2.40	3.00	3.20	3.50	2.40	0.00	0.00	0.00	0.00	
18	0.00	2.60	3.40	2.30	2.60	2.90	3.50	2.40	0.00	0.00	0.00	0.00	
19	0.00	2.50	3.10	1.80	2.50	2.50	3.40	2.40	0.00	0.00	0.00	0.00	
20	0.00	2.60	2.70	1.50	2.60	2.50	3.40	2.30	0.00	0.00	0.00	0.00	
21	0.00	2.60	2.50	1.40	2.90	3.00	5.80	2.30	0.00	0.00	0.00	0.00	
22	0.00	3.00	2.50	1.30	2.90	6.50	26.40	2.30	0.00	0.00	0.00	0.00	
23	0.00	2.90	2.50	1.20	3.30	4.50	11.15	2.30	0.00	0.00	0.00	0.00	
24	0.00	2.50	2.10	1.10	3.30	4.50	10.10	2.30	0.00	0.00	0.00	0.00	
25	0.00	2.20	1.80	1.50	4.90	7.30	5.00	2.30	0.00	0.00	0.00	0.00	
26	0.00	1.90	1.50	1.40	7.10	16.40	3.50	2.30	0.00	0.00	0.00	0.00	
27	0.00	2.10	1.40	1.30	7.10	14.15	3.30	2.30	0.00	0.00	0.00	0.00	
28	0.00	3.30	1.40	1.20	16.55	5.50	2.80	2.30	0.00	0.00	0.00	0.00	
29	0.00	3.10	1.40	1.20	13.10	5.50	2.50	2.20	0.00	0.00	0.00	0.00	
30	3.20	3.20	2.20	1.50	2.40	5.40	2.50	2.20	0.00	0.00	0.00	0.00	
31		2.80		1.40	2.40		2.40		0.00	0.00		0.00	
<b>Total</b>	3.20	80.90	60.60	78.40	98.15	147.95	288.80	73.80	34.60	0.00	0.00	0.00	866.40 CMSDAY
<b>Mean</b>	0.11	2.61	2.02	2.53	3.17	4.93	9.32	2.46	1.12	0.00	0.00	0.00	2.37 CMS
<b>Max</b>	3.20	4.50	3.40	5.90	16.55	16.40	26.40	3.50	2.40	0.00	0.00	0.00	26.40 CMS
<b>Min</b>	0.00	1.40	1.40	1.10	1.00	2.10	2.40	2.10	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.28	6.99	5.24	6.77	8.48	12.78	24.95	6.38	2.99	0.00	0.00	0.00	74.86 MCM
<b>Momentary Peak</b>		37.80	CMS, at 31.29 m. (MSL.), at 12.00 Hours, on Oct 22, 2021										
<b>Runoff Yield</b>		11.78	Liters/Second/Square KM.				Momentary Peak Yield 187.67						Liters/Second/Square KM.

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Klong Hin Dat at Ban Pong Rong Sen , Chanthaburi (Z.21)

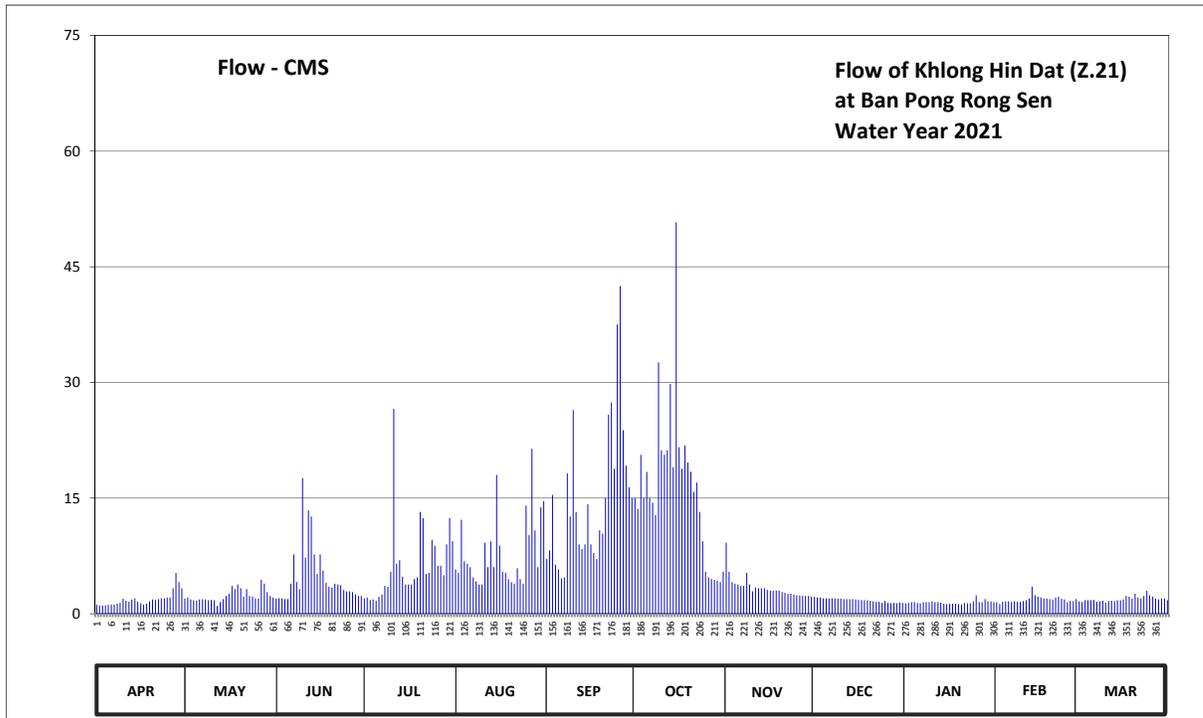
Lat 12 - 47 - 31 N Long 102 - 15 - 17 E

Location : on left bank at the bridge on highway.

	Ban Pong Rong Sen	Amphoe Makham	Changwat Chanthaburi
<b>Drainage Area</b>	72 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+21.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 40 meters from the top staff gage.	<b>Elevation</b>	+29.932 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 34 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.83	21.99	21.99	22.00	22.35	22.44	22.85	22.56	22.02	21.87	21.90	21.92	
2	21.81	22.01	22.00	22.01	22.32	22.51	22.78	22.33	22.01	21.88	21.85	21.90	
3	21.81	21.97	22.00	21.96	22.71	22.87	23.13	22.21	22.01	21.90	21.91	21.95	
4	21.82	21.95	21.98	21.97	22.42	22.39	22.85	22.19	22.00	21.90	21.92	21.95	
5	21.83	21.94	21.98	21.94	22.40	22.35	23.02	22.18	22.00	21.88	21.92	21.95	
6	21.84	21.97	22.19	22.02	22.37	22.26	22.85	22.16	21.99	21.87	21.91	21.96	
7	21.84	21.98	22.48	22.05	22.27	22.27	22.82	22.16	22.00	21.90	21.92	21.91	
8	21.86	21.97	22.21	22.16	22.22	23.01	22.74	22.32	22.00	21.90	21.91	21.92	
9	21.88	21.95	22.12	22.15	22.18	22.73	23.73	22.18	21.99	21.90	21.91	21.94	
10	21.99	21.96	22.98	22.33	22.18	23.42	23.16	22.09	21.99	21.92	21.93	21.89	
11	21.94	21.95	22.45	23.43	22.56	22.76	23.13	22.14	21.98	21.90	21.95	21.93	
12	21.91	21.80	22.77	22.40	22.37	22.55	23.16	22.13	21.98	21.90	21.99	21.94	
13	21.97	21.90	22.73	22.43	22.57	22.52	23.59	22.13	21.98	21.89	22.15	21.93	
14	22.00	21.98	22.48	22.28	22.37	22.55	23.05	22.13	21.98	21.86	22.04	21.95	
15	21.91	22.03	22.31	22.18	23.00	22.81	24.49	22.11	21.97	21.85	22.02	21.95	
16	21.87	22.06	22.48	22.18	22.54	22.55	23.18	22.10	21.96	21.86	22.01	21.97	
17	21.84	22.16	22.34	22.18	22.33	22.49	23.04	22.10	21.96	21.86	21.99	22.03	
18	21.86	22.12	22.20	22.25	22.32	22.44	23.19	22.10	21.95	21.86	21.99	22.02	
19	21.92	22.18	22.15	22.27	22.25	22.64	23.08	22.10	21.95	21.85	21.98	21.99	
20	21.97	22.13	22.14	22.76	22.21	22.62	23.02	22.08	21.94	21.84	21.97	22.06	
21	21.96	22.02	22.19	22.72	22.19	22.85	22.89	22.07	21.92	21.88	22.01	22.01	
22	21.98	22.12	22.18	22.31	22.36	23.39	22.95	22.06	21.91	21.87	22.02	22.00	
23	22.00	22.03	22.17	22.32	22.25	23.47	22.76	22.06	21.91	21.87	21.99	22.03	
24	22.00	22.02	22.11	22.58	22.19	23.04	22.57	22.05	21.88	21.92	21.97	22.10	
25	22.01	22.00	22.09	22.54	22.80	23.96	22.33	22.04	21.93	22.04	21.90	22.04	
26	22.01	21.99	22.09	22.38	22.61	24.16	22.27	22.04	21.88	21.90	21.93	22.02	
27	22.13	22.24	22.08	22.38	23.17	23.29	22.25	22.03	21.87	21.90	21.93	21.99	
28	22.32	22.19	22.05	22.30	22.64	23.06	22.24	22.03	21.88	21.98	21.98	21.97	
29	22.21	22.08	22.03	22.55	22.37	22.92	22.23	22.03	21.87	21.92		22.00	
30	22.13	22.03	22.03	22.72	22.79	22.85	22.21	22.02	21.89	21.92		21.99	
31		22.01		22.57	22.83		22.33		21.88	21.90		21.95	
Mean	21.95	22.02	22.23	22.33	22.46	22.84	22.90	22.13	21.95	21.89	21.96	21.97	
Max	22.32	22.24	22.98	23.43	23.17	24.16	24.49	22.56	22.02	22.04	22.15	22.10	24.49
Min	21.81	21.80	21.98	21.94	22.18	22.26	22.21	22.02	21.87	21.84	21.85	21.89	21.80
Annual Max Momentary Gage Height	26.22		m. (MSL.) ,			at 12.00 Hours, on Oct 15, 2021							
Zero Gage at Bottom Elevation	21.20		m. (MSL.) ,		River Bed	21.01	m. (MSL.)						
Left Bank Elevation		28.76		m. (MSL.) ,									
Right Bank Elevation		28.71		m. (MSL.) ,	Drainage Are	72	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	1.95	1.95	2.00	5.75	7.10	15.00	9.20	2.20	1.35	1.50	1.60	
2	1.05	2.10	2.00	2.10	5.30	8.20	13.60	5.45	2.10	1.40	1.25	1.50	
3	1.05	1.85	2.00	1.80	12.20	15.40	20.60	4.10	2.10	1.50	1.55	1.75	
4	1.10	1.75	1.90	1.85	6.80	6.35	15.00	3.90	2.00	1.50	1.60	1.75	
5	1.15	1.70	1.90	1.70	6.50	5.75	18.40	3.80	2.00	1.40	1.60	1.75	
6	1.20	1.85	3.90	2.20	6.05	4.60	15.00	3.60	1.95	1.35	1.55	1.80	
7	1.20	1.90	7.70	2.50	4.70	4.70	14.40	3.60	2.00	1.50	1.60	1.55	
8	1.30	1.85	4.10	3.60	4.20	18.20	12.80	5.30	2.00	1.50	1.55	1.60	
9	1.40	1.75	3.20	3.50	3.80	12.60	32.60	3.80	1.95	1.50	1.55	1.70	
10	1.95	1.80	17.60	5.45	3.80	26.40	21.20	2.90	1.95	1.60	1.65	1.45	
11	1.70	1.75	7.25	26.60	9.20	13.20	20.60	3.40	1.90	1.50	1.75	1.65	
12	1.55	1.00	13.40	6.50	6.05	9.00	21.20	3.30	1.90	1.50	1.95	1.70	
13	1.85	1.50	12.60	6.95	9.40	8.40	29.80	3.30	1.90	1.45	3.50	1.65	
14	2.00	1.90	7.70	4.80	6.05	9.00	19.00	3.30	1.90	1.30	2.40	1.75	
15	1.55	2.30	5.15	3.80	18.00	14.20	50.75	3.10	1.85	1.25	2.20	1.75	
16	1.35	2.60	7.70	3.80	8.80	9.00	21.60	3.00	1.80	1.30	2.10	1.85	
17	1.20	3.60	5.60	3.80	5.45	7.85	18.80	3.00	1.80	1.30	1.95	2.30	
18	1.30	3.20	4.00	4.50	5.30	7.10	21.80	3.00	1.75	1.30	1.95	2.20	
19	1.60	3.80	3.50	4.70	4.50	10.80	19.60	3.00	1.75	1.25	1.90	1.95	
20	1.85	3.30	3.40	13.20	4.10	10.40	18.40	2.80	1.70	1.20	1.85	2.60	
21	1.80	2.20	3.90	12.40	3.90	15.00	15.80	2.70	1.60	1.40	2.10	2.10	
22	1.90	3.20	3.80	5.15	5.90	25.80	17.00	2.60	1.55	1.35	2.20	2.00	
23	2.00	2.30	3.70	5.30	4.50	27.40	13.20	2.60	1.55	1.35	1.95	2.30	
24	2.00	2.20	3.10	9.60	3.90	18.80	9.40	2.50	1.40	1.60	1.85	3.00	
25	2.10	2.00	2.90	8.80	14.00	37.50	5.45	2.40	1.65	2.40	1.50	2.40	
26	2.10	1.95	2.90	6.20	10.20	42.50	4.70	2.40	1.40	1.50	1.65	2.20	
27	3.30	4.40	2.80	6.20	21.40	23.80	4.50	2.30	1.35	1.50	1.65	1.95	
28	5.30	3.90	2.50	5.00	10.80	19.20	4.40	2.30	1.40	1.90	1.90	1.85	
29	4.10	2.80	2.30	9.00	6.05	16.40	4.30	2.30	1.35	1.60		2.00	
30	3.30	2.30	2.30	12.40	13.80	15.00	4.10	2.20	1.45	1.60		1.95	
31		2.10		9.40	14.60		5.45		1.40	1.50		1.75	
<b>Total</b>	56.40	72.80	146.75	194.80	245.00	449.65	508.45	101.15	54.60	45.65	51.75	59.35	1986.35 CMSDAY
<b>Mean</b>	1.88	2.35	4.89	6.28	7.90	14.99	16.40	3.37	1.76	1.47	1.85	1.91	5.44 CMS
<b>Max</b>	5.30	4.40	17.60	26.60	21.40	42.50	50.75	9.20	2.20	2.40	3.50	3.00	50.75 CMS
<b>Min</b>	1.05	1.00	1.90	1.70	3.80	4.60	4.10	2.20	1.35	1.20	1.25	1.45	1.00 CMS
<b>Runoff</b>	4.87	6.29	12.68	16.83	21.17	38.85	43.93	8.74	4.72	3.94	4.47	5.13	171.62 MCM
<b>Momentary Peak</b>	105.70	CMS, at 26.22 m. (MSL.), at 12.00 Hours, on Oct 15, 2021											
<b>Runoff Yield</b>	75.58	Liters/Second/Square KM. Momentary Peak Yield 1468.06 Liters/Second/Square KM.											

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Upper Khlong Tanot at Ban Khun Song , Chanthaburi (Z.28)

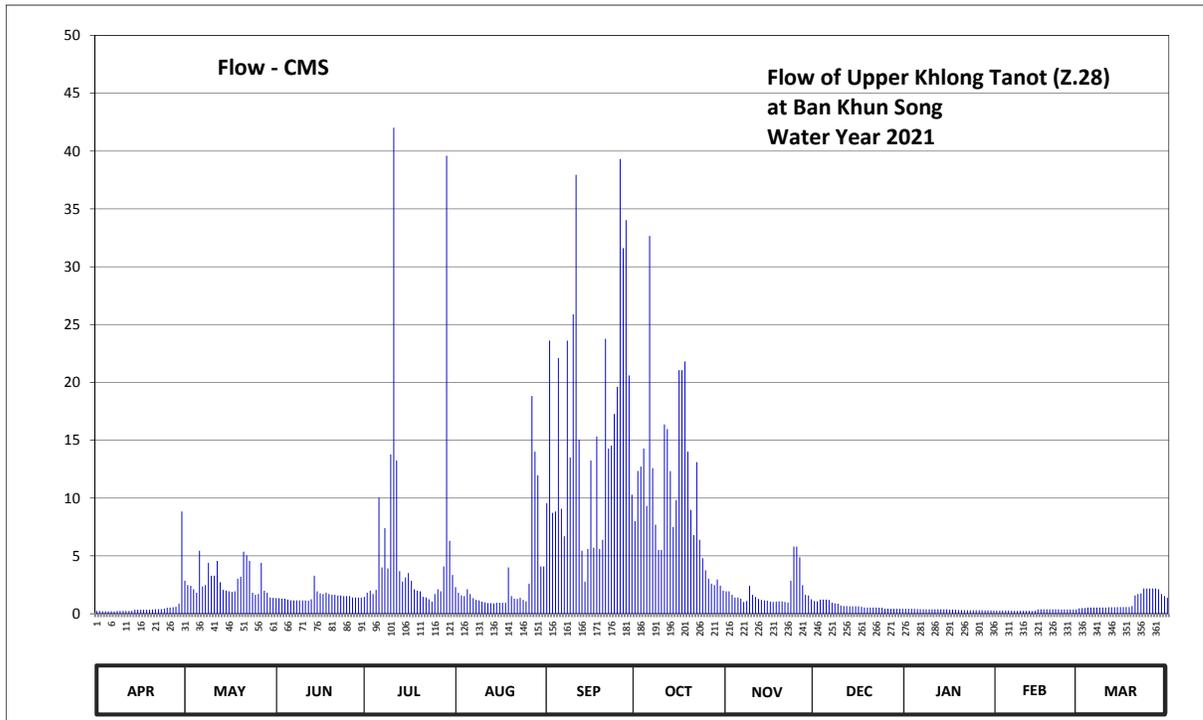
Lat 13 - 04 - 38 N Long 101 - 56 - 44 E

Location : on right bank near Wat Khun Song.

	<b>Ban</b>	<b>Khun Song</b>	<b>Amphoe</b>	<b>Kaeng Hang Maeo</b>	<b>Changwat</b>	<b>Chanthaburi</b>
<b>Drainage Area</b>	281	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+32.600 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 10 meters from the top staff gage.				<b>Elevation</b>	+40.318 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1986 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1986 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1986 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 20 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.25	34.04	33.78	33.81	33.95	34.78	34.64	33.89	33.70	33.41	33.28	33.43	
2	33.25	33.98	33.78	33.87	33.87	35.84	35.01	33.89	33.69	33.41	33.28	33.44	
3	33.22	33.97	33.77	33.90	33.83	34.71	35.04	33.84	33.74	33.41	33.28	33.45	
4	33.22	33.92	33.77	33.85	33.82	34.72	35.16	33.80	33.74	33.41	33.28	33.47	
5	33.22	33.87	33.74	33.91	33.92	35.74	34.76	33.80	33.74	33.40	33.27	33.47	
6	33.22	34.38	33.72	34.82	33.85	34.74	36.44	33.77	33.73	33.40	33.26	33.47	
7	33.20	33.96	33.72	34.20	33.78	34.51	35.03	33.67	33.65	33.39	33.25	33.47	
8	33.24	33.98	33.72	34.58	33.73	35.84	34.61	33.70	33.63	33.39	33.25	33.47	
9	33.24	34.25	33.72	34.19	33.72	35.10	34.39	33.97	33.62	33.39	33.25	33.47	
10	33.24	34.11	33.72	35.12	33.68	35.99	34.39	33.84	33.55	33.39	33.24	33.47	
11	33.24	34.11	33.72	37.06	33.66	36.79	35.32	33.81	33.53	33.38	33.24	33.48	
12	33.24	34.27	33.71	35.08	33.64	35.22	35.29	33.76	33.53	33.38	33.24	33.48	
13	33.25	34.02	33.75	34.16	33.64	34.38	35.01	33.73	33.52	33.38	33.23	33.48	
14	33.34	33.91	34.11	34.03	33.63	34.03	34.59	33.72	33.52	33.38	33.26	33.49	
15	33.34	33.90	33.89	34.09	33.65	34.40	34.80	33.71	33.52	33.38	33.37	33.49	
16	33.34	33.89	33.86	34.14	33.65	35.08	35.67	33.68	33.52	33.35	33.38	33.49	
17	33.34	33.88	33.85	34.04	33.65	34.41	35.67	33.67	33.50	33.35	33.38	33.49	
18	33.34	33.89	33.87	33.92	33.65	35.24	35.72	33.68	33.47	33.34	33.38	33.49	
19	33.34	34.07	33.85	33.90	34.20	34.40	35.14	33.69	33.47	33.32	33.38	33.53	
20	33.35	34.10	33.84	33.89	33.82	34.48	34.73	33.69	33.47	33.32	33.38	33.83	
21	33.40	34.37	33.84	33.81	33.77	35.85	34.52	33.67	33.47	33.32	33.38	33.85	
22	33.40	34.33	33.83	33.80	33.76	35.16	35.07	33.66	33.47	33.30	33.38	33.86	
23	33.40	34.27	33.83	33.75	33.79	35.18	34.48	34.04	33.46	33.30	33.37	33.93	
24	33.42	33.87	33.82	33.68	33.73	35.39	34.30	34.42	33.46	33.30	33.37	33.93	
25	33.46	33.84	33.82	33.85	33.69	35.57	34.17	34.42	33.41	33.30	33.37	33.93	
26	33.47	33.85	33.82	33.92	34.00	36.88	34.07	34.31	33.42	33.30	33.37	33.93	
27	33.48	34.25	33.80	33.89	35.51	36.37	34.00	33.98	33.41	33.30	33.37	33.93	
28	33.50	33.90	33.80	34.21	35.14	36.53	33.98	33.84	33.41	33.29	33.37	33.92	
29	33.62	33.87	33.80	36.90	34.98	35.64	34.06	33.83	33.41	33.29		33.85	
30	34.72	33.80	33.80	34.47	34.21	34.84	33.97	33.75	33.41	33.29		33.82	
31		33.79		34.12	34.21		33.90		33.41	33.28		33.79	
Mean	33.38	34.02	33.80	34.29	33.94	35.26	34.77	33.84	33.53	33.35	33.32	33.63	
Max	34.72	34.38	34.11	37.06	35.51	36.88	36.44	34.42	33.74	33.41	33.38	33.93	37.06
Min	33.20	33.79	33.71	33.68	33.63	34.03	33.90	33.66	33.41	33.28	33.23	33.43	33.20
Annual Max Momentary Gage Height	38.90		m. (MSL.) ,			at 06.00 Hours, on Jul 29, 2021							
Zero Gage at Bottom Elevation	32.60		m. (MSL.) ,			River Bed	33.08	m. (MSL.)					
Left Bank Elevation		39.41		m. (MSL.) ,									
Right Bank Elevation		39.13		m. (MSL.) ,		Drainage Are	281	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	2.84	1.34	1.46	2.30	9.56	8.00	1.94	1.10	0.42	0.28	0.46	
2	0.25	2.48	1.34	1.82	1.82	23.62	12.33	1.94	1.07	0.42	0.28	0.48	
3	0.22	2.42	1.31	2.00	1.58	8.72	12.72	1.64	1.22	0.42	0.28	0.50	
4	0.22	2.12	1.31	1.70	1.52	8.84	14.28	1.40	1.22	0.42	0.28	0.54	
5	0.22	1.82	1.22	2.06	2.12	22.11	9.32	1.40	1.22	0.40	0.27	0.54	
6	0.22	5.44	1.16	10.04	1.70	9.08	32.67	1.31	1.19	0.40	0.26	0.54	
7	0.20	2.36	1.16	4.00	1.34	6.70	12.59	1.01	0.95	0.39	0.25	0.54	
8	0.24	2.48	1.16	7.40	1.19	23.62	7.70	1.10	0.89	0.39	0.25	0.54	
9	0.24	4.40	1.16	3.92	1.16	13.50	5.52	2.42	0.86	0.39	0.25	0.54	
10	0.24	3.28	1.16	13.76	1.04	25.88	5.52	1.64	0.70	0.39	0.24	0.54	
11	0.24	3.28	1.16	42.01	0.98	37.94	16.36	1.46	0.66	0.38	0.24	0.56	
12	0.24	4.56	1.13	13.24	0.92	15.06	15.97	1.28	0.66	0.38	0.24	0.56	
13	0.25	2.72	1.25	3.68	0.92	5.44	12.33	1.19	0.64	0.38	0.23	0.56	
14	0.34	2.06	3.28	2.78	0.89	2.78	7.50	1.16	0.64	0.38	0.26	0.58	
15	0.34	2.00	1.94	3.14	0.95	5.60	9.80	1.13	0.64	0.38	0.37	0.58	
16	0.34	1.94	1.76	3.52	0.95	13.24	21.06	1.04	0.64	0.35	0.38	0.58	
17	0.34	1.88	1.70	2.84	0.95	5.70	21.06	1.01	0.60	0.35	0.38	0.58	
18	0.34	1.94	1.82	2.12	0.95	15.32	21.81	1.04	0.54	0.34	0.38	0.58	
19	0.34	3.02	1.70	2.00	4.00	5.60	14.02	1.07	0.54	0.32	0.38	0.66	
20	0.35	3.20	1.64	1.94	1.52	6.40	8.96	1.07	0.54	0.32	0.38	1.58	
21	0.40	5.36	1.64	1.46	1.31	23.77	6.80	1.01	0.54	0.32	0.38	1.70	
22	0.40	5.04	1.58	1.40	1.28	14.28	13.11	0.98	0.54	0.30	0.38	1.76	
23	0.40	4.56	1.58	1.25	1.37	14.54	6.40	2.84	0.52	0.30	0.37	2.18	
24	0.44	1.82	1.52	1.04	1.19	17.27	4.80	5.80	0.52	0.30	0.37	2.18	
25	0.52	1.64	1.52	1.70	1.07	19.61	3.76	5.80	0.42	0.30	0.37	2.18	
26	0.54	1.70	1.52	2.12	2.60	39.30	3.02	4.88	0.44	0.30	0.37	2.18	
27	0.56	4.40	1.40	1.94	18.83	31.61	2.60	2.48	0.42	0.30	0.37	2.18	
28	0.60	2.00	1.40	4.08	14.02	34.02	2.48	1.64	0.42	0.29	0.37	2.12	
29	0.86	1.82	1.40	39.60	11.96	20.60	2.96	1.58	0.42	0.29		1.70	
30	8.84	1.40	1.40	6.30	4.08	10.28	2.42	1.25	0.42	0.29		1.52	
31		1.37		3.36	4.08		2.00		0.42	0.28		1.37	
<b>Total</b>	18.98	87.35	44.66	189.68	90.59	489.99	319.87	55.51	21.60	10.89	8.86	33.11	1371.09 CMSDAY
<b>Mean</b>	0.63	2.82	1.49	6.12	2.92	16.33	10.32	1.85	0.70	0.35	0.32	1.07	3.76 CMS
<b>Max</b>	8.84	5.44	3.28	42.01	18.83	39.30	32.67	5.80	1.22	0.42	0.38	2.18	42.01 CMS
<b>Min</b>	0.20	1.37	1.13	1.04	0.89	2.78	2.00	0.98	0.42	0.28	0.23	0.46	0.20 CMS
<b>Runoff</b>	1.64	7.55	3.86	16.39	7.83	42.34	27.64	4.80	1.87	0.94	0.77	2.86	118.46 MCM
<b>Momentary Peak</b>	73.10	CMS, at 38.90 m. (MSL), at 06.00 Hours, on Jul 29, 2021											
<b>Runoff Yield</b>	13.37	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		260.14	Liters/Second/Square KM.						

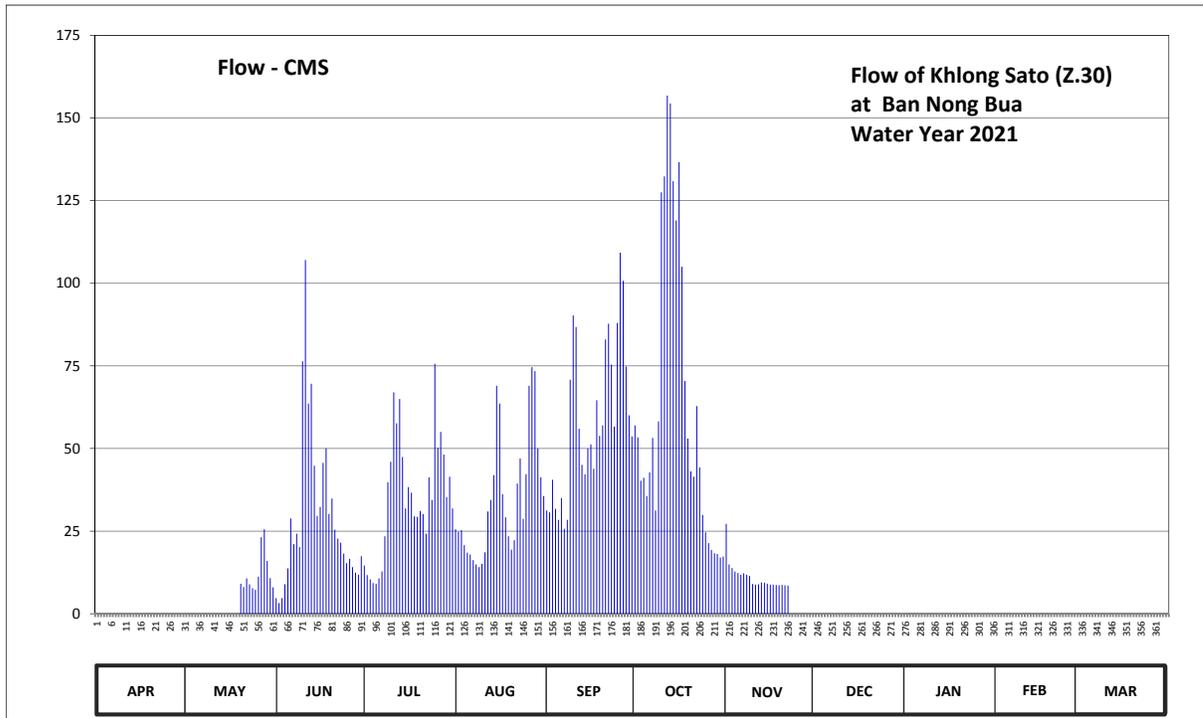
**WATER YEAR : 2021**  
**EAST COAST - GULF BASIN**  
**Khlong Sato at Ban Nong Bua , Trat (Z.30)**  
 Lat 12 - 32 - 27 N Long 102 - 26 - 45 E

Location : on right bank at Ban Nong Bua.

	<b>Ban Nong Bua</b>	<b>Amphoe Khao Saming</b>	<b>Changwat Trat</b>
<b>Drainage Area</b>	312 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+9.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank next tall pole for electric cable near dwelling.	<b>Elevation</b>	+20.777 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Rather unstable with variable water surface slope.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

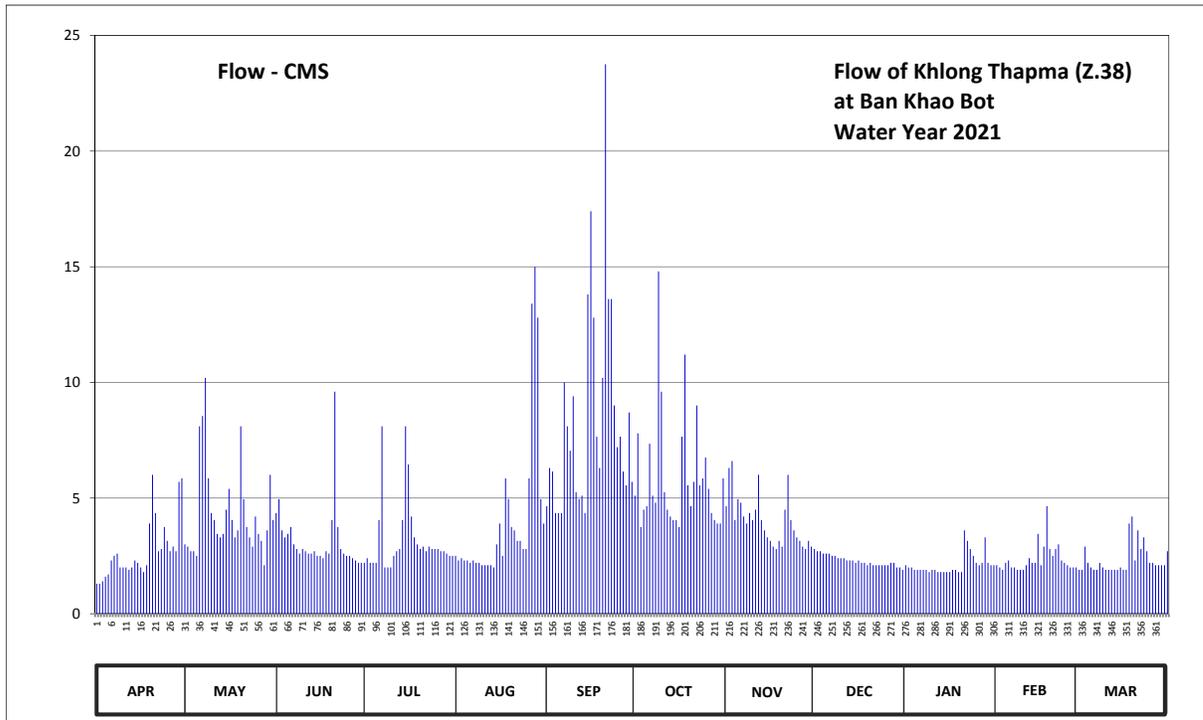
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.64	13.28	11.07	12.06	12.97	13.35	14.90	13.08	12.95	13.03	13.11	13.10	
2	12.57	13.30	10.92	11.77	12.92	13.31	14.72	12.09	13.06	13.13	13.10	13.10	
3	12.49	13.27	11.07	11.64	12.95	13.97	13.95	11.98	12.94	13.13	13.10	13.12	
4	12.43	13.24	11.49	11.53	12.65	13.38	14.01	11.88	12.85	13.13	13.10	13.17	
5	12.43	13.23	11.97	11.51	12.45	13.16	13.64	11.83	12.85	13.13	13.09	13.15	
6	12.78	13.25	13.19	11.67	12.39	13.60	14.12	11.78	12.87	13.13	13.08	13.14	
7	13.21	13.24	12.67	11.88	12.22	12.98	14.71	11.82	12.86	13.12	13.07	13.22	
8	13.18	13.21	12.88	12.83	12.09	13.16	13.35	11.78	12.90	13.12	13.07	13.19	
9	13.22	13.17	12.61	13.92	12.01	15.59	14.96	11.74	12.71	13.12	13.02	13.16	
10	13.30	13.27	15.87	14.33	12.11	16.49	17.98	11.50	12.78	13.12	13.07	13.14	
11	13.26	13.21	17.16	15.40	12.46	16.35	18.09	11.48	12.82	13.12	13.11	13.17	
12	13.30	13.24	15.23	14.93	13.33	14.85	18.60	11.49	12.79	13.09	13.19	13.19	
13	13.32	13.20	15.53	15.30	13.56	14.27	18.55	11.55	12.80	13.07	13.23	13.17	
14	13.25	13.19	14.25	14.42	14.06	14.08	18.06	11.54	12.87	13.06	13.29	13.17	
15	13.21	13.52	13.24	13.39	15.50	14.55	17.64	11.51	12.68	13.09	13.32	13.15	
16	13.17	13.54	13.42	13.82	15.23	14.61	18.18	11.48	12.66	13.10	13.21	13.15	
17	13.16	13.42	14.31	13.71	13.68	14.19	17.08	11.48	12.76	13.10	13.19	13.28	
18	13.14	13.51	14.55	13.23	13.21	15.28	15.57	11.47	12.75	13.09	13.20	13.26	
19	13.16	13.25	13.28	13.22	12.83	14.74	14.70	11.46	12.73	13.09	13.18	13.21	
20	13.18	11.51	13.59	13.34	12.54	14.90	14.14	11.47	12.71	13.09	13.16	13.22	
21	13.16	11.41	12.96	13.28	12.75	16.20	14.03	11.46	12.70	13.11	13.19	13.20	
22	13.13	11.67	12.78	12.88	13.89	16.39	15.19	11.45	12.70	13.12	13.28	13.22	
23	13.11	11.49	12.70	14.02	14.40	15.82	14.22	11.51	12.70	13.14	13.19	13.28	
24	13.12	11.37	12.42	13.56	13.18	14.88	13.26	12.62	12.70	13.13	13.16	13.58	
25	13.16	11.32	12.13	15.83	14.08	16.40	12.91	13.13	12.69	13.11	13.14	13.22	
26	13.13	11.72	12.26	14.56	15.50	17.25	12.69	13.13	12.85	13.09	13.13	13.10	
27	13.15	12.81	12.01	14.80	15.78	16.91	12.53	13.09	12.83	13.10	13.11	13.01	
28	13.31	12.97	11.84	14.46	15.72	15.79	12.43	13.06	12.78	13.13	13.11	12.94	
29	13.34	12.20	11.78	13.62	14.55	15.05	12.41	13.03	12.75	13.13		13.04	
30	13.48	11.68	12.34	14.03	14.02	14.73	12.30	12.95	12.72	13.12		13.07	
31		11.40		13.39	13.64		12.33		12.73	13.12		13.07	
Mean	13.08	12.71	13.05	13.49	13.51	14.87	14.88	11.99	12.79	13.11	13.15	13.17	
Max	13.48	13.54	17.16	15.83	15.78	17.25	18.60	13.13	13.06	13.14	13.32	13.58	18.60
Min	12.43	11.32	10.92	11.51	12.01	12.98	12.30	11.45	12.66	13.03	13.02	12.94	10.92
Annual Max Momentary Gage Height	18.77												
Zero Gage at Bottom Elevation	9.20												
Left Bank Elevation	19.45												
Right Bank Elevation	19.52												
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation			</										



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	4.70	14.60	25.55	31.25	57.00	27.20	0.00	0.00	0.00	0.00	
2	0.00	0.00	3.20	11.70	24.80	30.65	53.40	14.90	0.00	0.00	0.00	0.00	
3	0.00	0.00	4.70	10.40	25.25	40.55	40.25	13.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	8.90	9.30	20.75	31.70	41.15	12.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	13.70	9.10	18.50	28.40	35.60	12.30	0.00	0.00	0.00	0.00	
6	0.00	0.00	28.85	10.70	17.90	35.00	42.80	11.80	0.00	0.00	0.00	0.00	
7	0.00	0.00	21.05	12.80	16.20	25.70	53.20	12.20	0.00	0.00	0.00	0.00	
8	0.00	0.00	24.20	23.45	14.90	28.40	31.25	11.80	0.00	0.00	0.00	0.00	
9	0.00	0.00	20.15	39.80	14.10	70.80	58.20	11.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	76.40	45.95	15.10	90.25	127.50	9.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	107.00	67.00	18.60	86.75	132.32	8.80	0.00	0.00	0.00	0.00	
12	0.00	0.00	63.60	57.60	30.95	56.00	156.80	8.90	0.00	0.00	0.00	0.00	
13	0.00	0.00	69.60	65.00	34.40	45.05	154.40	9.50	0.00	0.00	0.00	0.00	
14	0.00	0.00	44.75	47.40	41.90	42.20	130.88	9.40	0.00	0.00	0.00	0.00	
15	0.00	0.00	29.60	31.85	69.00	50.00	119.00	9.10	0.00	0.00	0.00	0.00	
16	0.00	0.00	32.30	38.30	63.60	51.20	136.64	8.80	0.00	0.00	0.00	0.00	
17	0.00	0.00	45.65	36.65	36.20	43.85	105.00	8.80	0.00	0.00	0.00	0.00	
18	0.00	0.00	50.00	29.45	29.15	64.60	70.40	8.70	0.00	0.00	0.00	0.00	
19	0.00	0.00	30.20	29.30	23.45	53.80	53.00	8.60	0.00	0.00	0.00	0.00	
20	0.00	9.10	34.85	31.10	19.40	57.00	43.10	8.70	0.00	0.00	0.00	0.00	
21	0.00	8.10	25.40	30.20	22.25	83.00	41.45	8.60	0.00	0.00	0.00	0.00	
22	0.00	10.70	22.70	24.20	39.35	87.75	62.80	8.50	0.00	0.00	0.00	0.00	
23	0.00	8.90	21.50	41.30	47.00	75.40	44.30	0.00	0.00	0.00	0.00	0.00	
24	0.00	7.70	18.20	34.40	28.70	56.60	29.90	0.00	0.00	0.00	0.00	0.00	
25	0.00	7.20	15.30	75.60	42.20	88.00	24.65	0.00	0.00	0.00	0.00	0.00	
26	0.00	11.20	16.60	50.20	69.00	109.25	21.35	0.00	0.00	0.00	0.00	0.00	
27	0.00	23.15	14.10	55.00	74.60	100.75	19.30	0.00	0.00	0.00	0.00	0.00	
28	0.00	25.55	12.40	48.20	73.40	74.80	18.30	0.00	0.00	0.00	0.00	0.00	
29	0.00	16.00	11.80	35.30	50.00	60.00	18.10	0.00	0.00	0.00	0.00	0.00	
30	0.00	10.80	17.40	41.45	41.30	53.60	17.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	8.00		31.85	35.60		17.30		0.00	0.00		0.00	
Total	0.00	146.40	888.80	1089.15	1083.10	1752.30	1956.34	243.60	0.00	0.00	0.00	0.00	7159.69 CMSDAY
Mean	0.00	4.72	29.63	35.13	34.94	58.41	63.11	8.12	0.00	0.00	0.00	0.00	19.62 CMS
Max	0.00	25.55	107.00	75.60	74.60	109.25	156.80	27.20	0.00	0.00	0.00	0.00	156.80 CMS
Min	0.00	0.00	3.20	9.10	14.10	25.70	17.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	12.65	76.79	94.10	93.58	151.40	169.03	21.05	0.00	0.00	0.00	0.00	618.60 MCM
Momentary Peak	164.96	CMS, at 18.77 m. (MSL), at 02.00 Hours, on Oct 12, 2021											
Runoff Yield	62.87	Liters/Second/Square KM.		Momentary Peak Yield		528.72	Liters/Second/Square KM.						





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	3.00	4.35	2.20	2.50	4.65	5.10	4.65	2.80	2.10	2.10	1.90	
2	1.30	2.90	4.95	2.40	2.30	6.30	7.80	6.30	2.70	2.00	2.00	1.90	
3	1.40	2.70	3.60	2.20	2.40	6.15	3.75	6.60	2.70	2.00	1.90	2.90	
4	1.60	2.70	3.30	2.20	2.30	4.35	4.50	4.05	2.60	1.90	2.20	2.20	
5	1.70	2.50	3.45	2.20	2.30	4.35	4.65	4.95	2.60	1.90	2.30	2.00	
6	2.30	8.10	3.75	4.05	2.20	4.35	7.35	4.80	2.60	1.90	2.00	1.90	
7	2.50	8.55	3.00	8.10	2.30	10.00	5.10	4.20	2.50	1.90	2.00	1.90	
8	2.60	10.20	2.80	2.00	2.20	8.10	4.80	3.90	2.50	1.90	1.90	2.20	
9	2.00	5.85	2.60	2.00	2.20	7.05	14.80	4.35	2.40	1.80	1.90	2.00	
10	2.00	4.35	2.80	2.00	2.10	9.40	9.60	4.05	2.40	1.90	1.90	1.90	
11	2.00	4.05	2.70	2.50	2.10	5.25	5.25	4.50	2.40	1.90	2.10	1.90	
12	1.90	3.45	2.60	2.70	2.10	4.95	4.50	6.00	2.30	1.80	2.40	1.90	
13	2.00	3.30	2.60	2.80	2.10	5.10	4.20	4.05	2.30	1.80	2.20	1.90	
14	2.30	3.45	2.70	4.05	2.00	4.35	4.05	3.60	2.30	1.80	2.20	1.90	
15	2.20	4.50	2.50	8.10	3.00	13.80	4.05	3.30	2.20	1.80	3.45	2.00	
16	2.00	5.40	2.50	6.45	3.90	17.40	3.75	3.15	2.30	1.80	2.10	1.90	
17	1.80	4.05	2.40	4.20	2.50	12.80	7.65	2.90	2.20	1.90	2.90	1.90	
18	2.10	3.30	2.70	3.30	5.85	7.65	11.20	2.80	2.20	1.90	4.65	3.90	
19	3.90	3.60	2.60	3.00	4.95	6.30	5.55	3.15	2.10	1.80	2.80	4.20	
20	6.00	8.10	4.05	2.80	3.75	10.20	4.65	2.90	2.20	1.80	2.50	2.30	
21	4.35	4.95	9.60	2.90	3.60	23.75	5.70	4.50	2.10	3.60	2.80	3.60	
22	2.70	3.75	3.75	2.70	3.15	13.60	9.00	6.00	2.10	3.15	3.00	2.80	
23	2.80	3.30	2.80	2.90	3.15	13.60	5.55	4.05	2.10	2.80	2.30	3.30	
24	3.75	2.90	2.60	2.80	2.80	9.00	5.85	3.60	2.10	2.50	2.20	2.70	
25	3.15	4.20	2.50	2.80	2.80	7.20	6.75	3.30	2.10	2.20	2.10	2.20	
26	2.70	3.45	2.50	2.80	5.85	7.65	5.40	3.15	2.10	2.10	2.00	2.20	
27	2.90	3.15	2.40	2.70	13.40	6.15	4.35	2.90	2.20	2.20	2.00	2.10	
28	2.70	2.10	2.30	2.70	15.00	5.55	4.05	2.80	2.20	3.30	2.00	2.10	
29	5.70	3.60	2.20	2.60	12.80	8.70	3.90	3.15	2.00	2.20		2.10	
30	5.85	6.00	2.20	2.50	4.95	5.70	3.90	2.90	2.00	2.10		2.10	
31		4.05		2.50	3.90		5.85		1.90	2.10		2.70	
Total	81.50	135.50	94.80	99.15	126.45	253.40	182.60	120.55	71.20	65.85	65.90	72.50	1369.40 CMSDAY
Mean	2.72	4.37	3.16	3.20	4.08	8.45	5.89	4.02	2.30	2.12	2.35	2.34	3.75 CMS
Max	6.00	10.20	9.60	8.10	15.00	23.75	14.80	6.60	2.80	3.60	4.65	4.20	23.75 CMS
Min	1.30	2.10	2.20	2.00	2.00	4.35	3.75	2.80	1.90	1.80	1.90	1.90	1.30 CMS
Runoff	7.04	11.71	8.19	8.57	10.93	21.89	15.78	10.42	6.15	5.69	5.69	6.26	118.32 MCM
Momentary Peak	48.90	CMS, at 10.88 m. (MSL), at 22.00 Hours, on Aug 28, 2021											
Runoff Yield	25.18	Liters/Second/Square KM.		Momentary Peak Yield		328.19	Liters/Second/Square KM.						

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Khlong Aeng at Ban Kho Lae , Trat (Z.45)

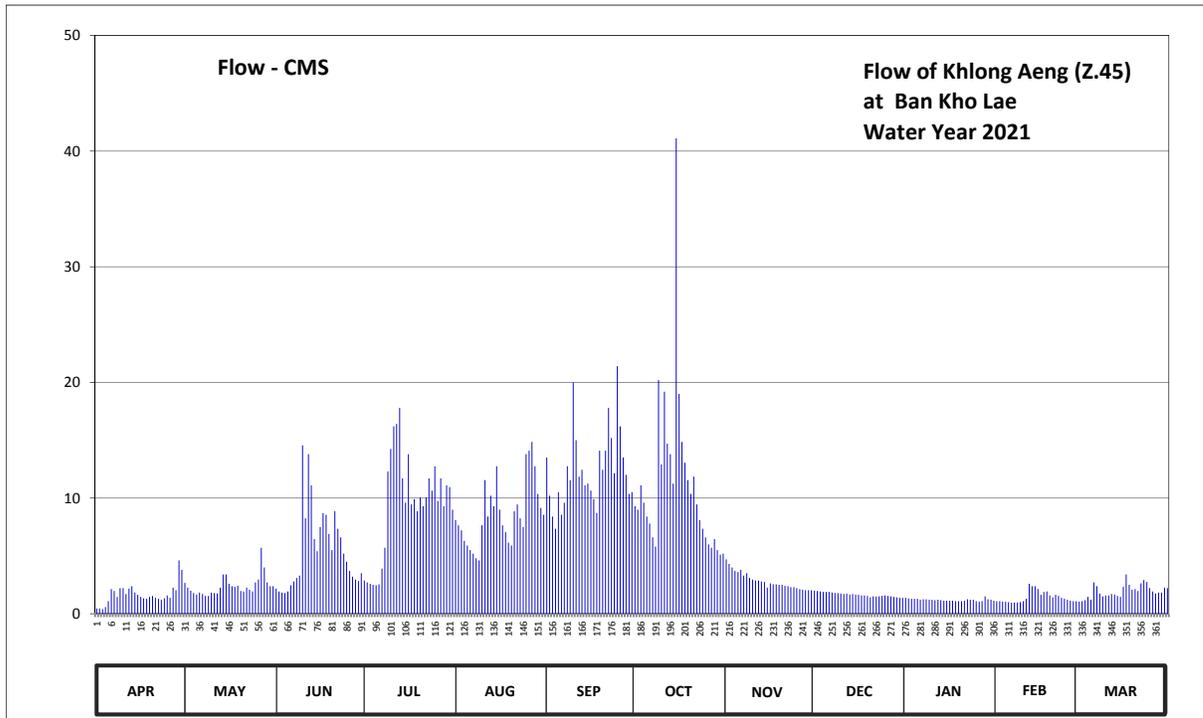
Lat 12 - 37 - 05 N Long 102 - 28 - 30 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

	Ban Kho Lae	Amphoe Bo Rai	Changwat Trat
<b>Drainage Area</b>	61 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+28.454 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.	<b>Elevation</b>	+36.550 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 33.79 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 52 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.19	30.72	30.60	30.77	31.24	31.60	31.32	30.97	30.56	30.41	30.34	30.33	
2	30.19	30.62	30.54	30.73	31.21	31.38	31.30	30.93	30.55	30.40	30.34	30.34	
3	30.18	30.56	30.52	30.70	31.18	31.26	31.44	30.90	30.54	30.39	30.33	30.36	
4	30.22	30.51	30.51	30.68	31.12	31.19	31.34	30.87	30.53	30.39	30.33	30.43	
5	30.34	30.48	30.54	30.67	31.09	31.40	31.26	30.86	30.53	30.39	30.32	30.37	
6	30.59	30.52	30.67	30.69	31.05	31.27	31.22	30.88	30.53	30.37	30.31	30.73	
7	30.55	30.49	30.75	30.89	31.02	31.34	31.14	30.83	30.52	30.38	30.31	30.65	
8	30.43	30.45	30.81	31.07	30.98	31.55	31.08	30.85	30.51	30.38	30.31	30.50	
9	30.61	30.45	30.83	31.52	30.96	31.47	31.96	30.81	30.51	30.37	30.32	30.44	
10	30.61	30.52	31.67	31.65	31.21	31.95	31.56	30.79	30.50	30.37	30.34	30.46	
11	30.49	30.51	31.25	31.76	31.47	31.70	31.91	30.77	30.49	30.36	30.39	30.46	
12	30.60	30.50	31.62	31.77	31.26	31.49	31.68	30.77	30.50	30.37	30.70	30.49	
13	30.65	30.62	31.44	31.84	31.38	31.53	31.62	30.75	30.48	30.36	30.65	30.48	
14	30.52	30.84	31.13	31.48	31.32	31.44	31.45	30.74	30.49	30.35	30.65	30.45	
15	30.47	30.84	31.04	31.34	31.55	31.45	32.76	30.62	30.48	30.35	30.59	30.43	
16	30.43	30.70	31.20	31.62	31.30	31.41	31.90	30.71	30.47	30.35	30.47	30.64	
17	30.40	30.65	31.28	31.33	31.21	31.36	31.69	30.69	30.46	30.35	30.53	30.84	
18	30.39	30.64	31.27	31.36	31.17	31.28	31.57	30.69	30.46	30.34	30.54	30.68	
19	30.43	30.66	31.16	31.29	31.11	31.64	31.47	30.68	30.45	30.34	30.46	30.58	
20	30.45	30.55	31.05	31.37	31.09	31.53	31.39	30.68	30.42	30.34	30.42	30.59	
21	30.41	30.54	31.29	31.32	31.29	31.64	31.49	30.66	30.44	30.35	30.47	30.55	
22	30.39	30.62	31.19	31.37	31.33	31.84	31.33	30.65	30.44	30.38	30.45	30.71	
23	30.37	30.58	31.14	31.48	31.25	31.71	31.24	30.63	30.44	30.37	30.41	30.78	
24	30.40	30.54	31.02	31.41	31.20	31.51	31.19	30.63	30.45	30.37	30.39	30.74	
25	30.46	30.73	30.95	31.55	31.62	32.02	31.14	30.61	30.46	30.34	30.37	30.61	
26	30.41	30.79	30.87	31.35	31.64	31.76	31.10	30.59	30.45	30.33	30.35	30.54	
27	30.62	31.07	30.82	31.48	31.69	31.60	31.07	30.58	30.44	30.34	30.34	30.50	
28	30.57	30.90	30.79	31.32	31.55	31.50	31.13	30.57	30.43	30.44	30.34	30.52	
29	30.96	30.73	30.76	31.44	31.39	31.39	31.05	30.57	30.42	30.38		30.52	
30	30.88	30.65	30.85	31.43	31.31	31.40	31.01	30.57	30.41	30.37		30.62	
31		30.65		31.30	31.27		31.02		30.41	30.35		30.61	
Mean	30.47	30.63	30.99	31.29	31.27	31.52	31.41	30.73	30.48	30.37	30.42	30.55	
Max	30.96	31.07	31.67	31.84	31.69	32.02	32.76	30.97	30.56	30.44	30.70	30.84	32.76
Min	30.18	30.45	30.51	30.67	30.96	31.19	31.01	30.57	30.41	30.33	30.31	30.33	30.18
Annual Max Momentary Gage Height	34.28		m. (MSL.) ,				at 12.00 Hours, on Oct 15, 2021						
Zero Gage at Bottom Elevation	28.45		m. (MSL.) ,			River Bed	28.18	m. (MSL.)					
Left Bank Elevation		33.78		m. (MSL.) ,									
Right Bank Elevation		34.13		m. (MSL.) ,		Drainage Are	61	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	2.67	2.17	2.88	8.10	13.50	9.30	4.70	2.00	1.38	1.08	1.04	
2	0.45	2.25	1.92	2.71	7.65	10.20	9.00	4.30	1.96	1.33	1.08	1.08	
3	0.40	2.00	1.83	2.58	7.20	8.40	11.10	4.00	1.92	1.29	1.04	1.17	
4	0.58	1.79	1.79	2.50	6.30	7.35	9.60	3.70	1.88	1.29	1.04	1.46	
5	1.08	1.67	1.92	2.46	5.90	10.50	8.40	3.60	1.88	1.29	1.00	1.21	
6	2.13	1.83	2.46	2.54	5.50	8.55	7.80	3.80	1.88	1.21	0.96	2.71	
7	1.96	1.71	2.79	3.90	5.20	9.60	6.60	3.30	1.83	1.25	0.96	2.38	
8	1.46	1.54	3.10	5.70	4.80	12.75	5.80	3.50	1.79	1.25	0.96	1.75	
9	2.21	1.54	3.30	12.30	4.60	11.55	20.20	3.10	1.79	1.21	1.00	1.50	
10	2.21	1.83	14.55	14.25	7.65	20.00	12.90	2.96	1.75	1.21	1.08	1.58	
11	1.71	1.79	8.25	16.20	11.55	15.00	19.20	2.88	1.71	1.17	1.29	1.58	
12	2.17	1.75	13.80	16.40	8.40	11.85	14.70	2.88	1.75	1.21	2.58	1.71	
13	2.38	2.25	11.10	17.80	10.20	12.45	13.80	2.79	1.67	1.17	2.38	1.67	
14	1.83	3.40	6.45	11.70	9.30	11.10	11.25	2.75	1.71	1.13	2.38	1.54	
15	1.63	3.40	5.40	9.60	12.75	11.25	41.10	2.25	1.67	1.13	2.13	1.46	
16	1.46	2.58	7.50	13.80	9.00	10.65	19.00	2.63	1.63	1.13	1.63	2.33	
17	1.33	2.38	8.70	9.45	7.65	9.90	14.85	2.54	1.58	1.13	1.88	3.40	
18	1.29	2.33	8.55	9.90	7.05	8.70	13.05	2.54	1.58	1.08	1.92	2.50	
19	1.46	2.42	6.90	8.85	6.15	14.10	11.55	2.50	1.54	1.08	1.58	2.08	
20	1.54	1.96	5.50	10.05	5.90	12.45	10.35	2.50	1.42	1.08	1.42	2.13	
21	1.38	1.92	8.85	9.30	8.85	14.10	11.85	2.42	1.50	1.13	1.63	1.96	
22	1.29	2.25	7.35	10.05	9.45	17.80	9.45	2.38	1.50	1.25	1.54	2.63	
23	1.21	2.08	6.60	11.70	8.25	15.20	8.10	2.29	1.50	1.21	1.38	2.92	
24	1.33	1.92	5.20	10.65	7.50	12.15	7.35	2.29	1.54	1.21	1.29	2.75	
25	1.58	2.71	4.50	12.75	13.80	21.40	6.60	2.21	1.58	1.08	1.21	2.21	
26	1.38	2.96	3.70	9.75	14.10	16.20	6.00	2.13	1.54	1.04	1.13	1.92	
27	2.25	5.70	3.20	11.70	14.85	13.50	5.70	2.08	1.50	1.08	1.08	1.75	
28	2.04	4.00	2.96	9.30	12.75	12.00	6.45	2.04	1.46	1.50	1.08	1.83	
29	4.60	2.71	2.83	11.10	10.35	10.35	5.50	2.04	1.42	1.25		1.83	
30	3.80	2.38	3.50	10.95	9.15	10.50	5.10	2.04	1.38	1.21		2.25	
31		2.38		9.00	8.55		5.20		1.38	1.13		2.21	
Total	50.59	74.10	166.67	291.82	268.45	373.05	346.85	85.14	51.24	37.11	39.73	60.54	1845.29 CMSDAY
Mean	1.69	2.39	5.56	9.41	8.66	12.43	11.19	2.84	1.65	1.20	1.42	1.95	5.06 CMS
Max	4.60	5.70	14.55	17.80	14.85	21.40	41.10	4.70	2.00	1.50	2.58	3.40	41.10 CMS
Min	0.40	1.54	1.79	2.46	4.60	7.35	5.10	2.04	1.38	1.04	0.96	1.04	0.40 CMS
Runoff	4.37	6.40	14.40	25.21	23.19	32.23	29.97	7.36	4.43	3.21	3.43	5.23	159.43 MCM
Momentary Peak	130.80	CMS, at 34.28 m. (MSL), at 12.00 Hours, on Oct 15, 2021											
Runoff Yield	82.88	Liters/Second/Square KM. Momentary Peak Yield 2144.26 Liters/Second/Square KM.											

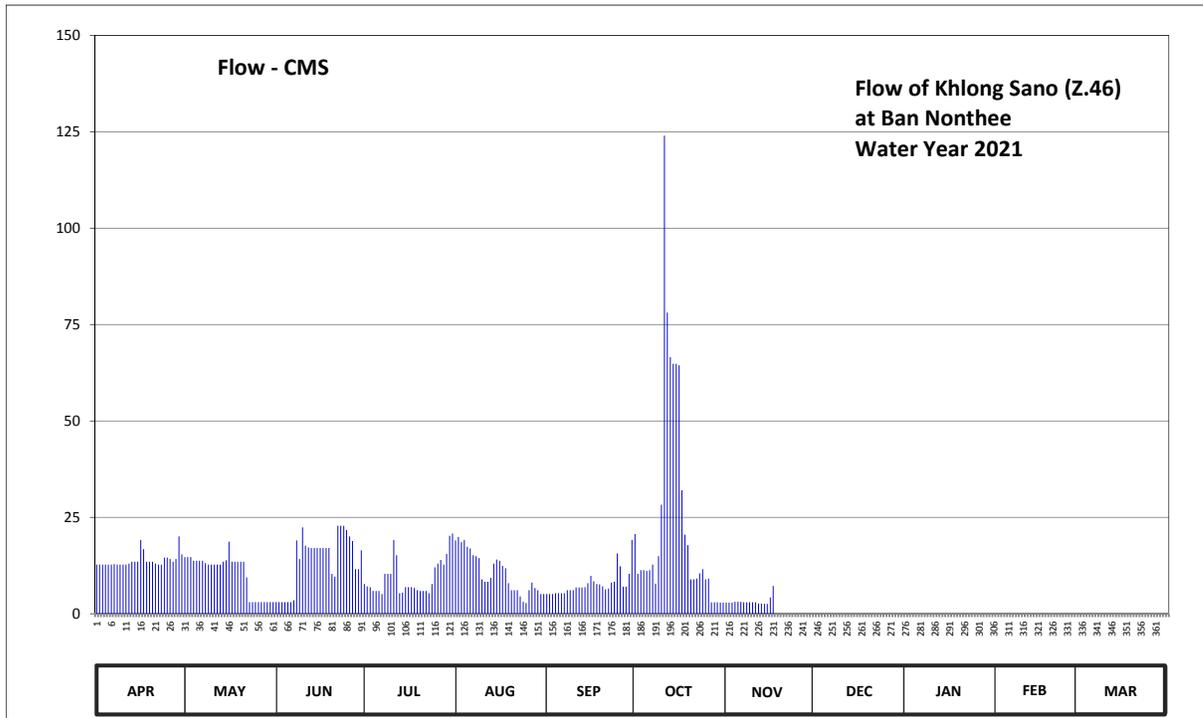
**WATER YEAR : 2021**  
**EAST COAST - GULF BASIN**  
**Khlong Sano at Ban Nonthee , Trat (Z.46)**  
 Lat 12 - 31 - 17 N Long 102 - 34 - 49 E

Location : on right bank at Ban Nonthee.

	<b>Ban Nonthee</b>	<b>Amphoe Bo Rai</b>	<b>Changwat Trat</b>
<b>Drainage Area</b>	94 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+19.130 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 50 meters from the top staff gage.		<b>Elevation</b> +27.828 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2000 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2000 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 27 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.33	21.49	20.40	20.87	21.80	20.61	21.91	20.38	21.29	21.29	21.27	21.29	
2	21.33	21.49	20.40	20.81	21.86	20.61	21.13	20.38	21.29	21.29	21.27	21.29	
3	21.33	21.49	20.40	20.79	21.77	20.61	21.21	20.38	21.29	21.29	21.27	21.29	
4	21.33	21.41	20.40	20.69	21.81	20.63	21.21	20.41	21.29	21.29	21.27	21.29	
5	21.33	21.41	20.40	20.69	21.69	20.63	21.19	20.41	21.29	21.29	21.27	21.29	
6	21.33	21.41	20.40	20.69	21.66	20.63	21.21	20.41	21.29	21.29	21.27	21.29	
7	21.34	21.41	20.45	20.61	21.53	20.63	21.33	20.39	21.29	21.29	21.27	21.29	
8	21.33	21.36	21.80	21.13	21.51	20.71	20.88	20.39	21.29	21.29	21.27	21.29	
9	21.33	21.33	21.45	21.13	21.47	20.71	21.51	20.39	21.29	21.29	21.27	21.29	
10	21.33	21.33	22.02	21.13	20.99	20.71	22.31	20.39	21.29	21.29	21.28	21.29	
11	21.33	21.33	21.71	21.81	20.93	20.78	25.25	20.39	21.31	21.29	21.28	21.29	
12	21.35	21.33	21.68	21.53	20.93	20.78	23.96	20.33	21.31	21.29	21.28	21.29	
13	21.39	21.33	21.67	20.63	21.03	20.78	23.63	20.33	21.31	21.29	21.25	21.29	
14	21.39	21.39	21.67	20.65	21.35	20.79	23.58	20.31	21.31	21.29	21.25	21.29	
15	21.39	21.42	21.67	20.79	21.44	20.89	23.58	20.31	21.31	21.29	21.23	21.29	
16	21.81	21.78	21.67	20.79	21.41	21.08	23.57	20.52	21.31	21.29	21.23	21.29	
17	21.65	21.39	21.67	20.79	21.30	20.94	22.46	20.82	21.30	21.29	21.19	21.29	
18	21.39	21.39	21.67	20.77	21.25	20.87	21.90	21.28	21.30	21.32	21.18	21.29	
19	21.39	21.39	21.67	20.71	20.89	20.86	21.72	21.28	21.30	21.40	21.18	21.29	
20	21.39	21.39	21.13	20.69	20.71	20.81	20.99	21.23	21.29	21.40	21.18	21.29	
21	21.35	21.39	21.06	20.69	20.71	20.73	20.99	21.25	21.29	21.40	21.20	21.29	
22	21.33	21.04	22.04	20.69	20.71	20.75	21.01	21.25	21.29	21.40	21.29	21.29	
23	21.33	20.40	22.04	20.63	20.55	20.91	21.14	21.25	21.29	21.33	21.29	21.29	
24	21.48	20.40	22.04	20.87	20.41	20.93	21.23	21.25	21.29	21.33	21.29	21.29	
25	21.48	20.40	21.98	21.27	20.35	21.57	20.99	21.29	21.29	21.29	21.29	21.29	
26	21.45	20.40	21.87	21.35	20.71	21.29	21.01	21.29	21.29	21.28	21.29	21.29	
27	21.39	20.40	21.79	21.43	20.91	20.80	20.39	21.29	21.29	21.28	21.29	21.29	
28	21.45	20.40	21.23	21.33	20.77	20.80	20.39	21.29	21.29	21.28	21.29	21.29	
29	21.87	20.40	21.23	21.56	20.71	21.13	20.39	21.29	21.29	21.27		21.28	
30	21.55	20.40	21.63	21.88	20.61	21.81	20.38	21.29	21.29	21.27		21.28	
31		20.40		21.92	20.61		20.38		21.29	21.27		21.28	
Mean	21.42	21.11	21.37	21.01	21.11	20.86	21.70	20.78	21.29	21.30	21.26	21.28	
Max	21.87	21.78	22.04	21.92	21.86	21.81	25.25	21.29	21.31	21.40	21.29	21.29	25.25
Min	21.33	20.40	20.40	20.61	20.35	20.61	20.38	20.31	21.29	21.27	21.18	21.27	20.31
Annual Max Momentary Gage Height	25.64		m. (MSL.) ,				at 12.00 Hours, on Oct 11, 2021						
Zero Gage at Bottom Elevation	19.13		m. (MSL.) ,			River Bed	19.06	m. (MSL.)					
Left Bank Elevation		28.06	m. (MSL.) ,										
Right Bank Elevation		29.93	m. (MSL.) ,		Drainage Are	94	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.76	14.68	3.00	7.70	19.00	5.10	20.65	2.90	0.00	0.00	0.00	0.00	
2	12.76	14.68	3.00	7.10	19.90	5.10	10.36	2.90	0.00	0.00	0.00	0.00	
3	12.76	14.68	3.00	6.90	18.55	5.10	11.32	2.90	0.00	0.00	0.00	0.00	
4	12.76	13.72	3.00	5.90	19.15	5.30	11.32	3.10	0.00	0.00	0.00	0.00	
5	12.76	13.72	3.00	5.90	17.35	5.30	11.08	3.10	0.00	0.00	0.00	0.00	
6	12.76	13.72	3.00	5.90	16.90	5.30	11.32	3.10	0.00	0.00	0.00	0.00	
7	12.88	13.72	3.50	5.10	15.16	5.30	12.76	2.95	0.00	0.00	0.00	0.00	
8	12.76	13.12	19.00	10.36	14.92	6.10	7.80	2.95	0.00	0.00	0.00	0.00	
9	12.76	12.76	14.20	10.36	14.44	6.10	14.92	2.95	0.00	0.00	0.00	0.00	
10	12.76	12.76	22.40	10.36	8.90	6.10	28.25	2.95	0.00	0.00	0.00	0.00	
11	12.76	12.76	17.65	19.15	8.30	6.80	124.00	2.95	0.00	0.00	0.00	0.00	
12	13.00	12.76	17.20	15.16	8.30	6.80	78.10	2.65	0.00	0.00	0.00	0.00	
13	13.48	12.76	17.05	5.30	9.30	6.80	66.55	2.65	0.00	0.00	0.00	0.00	
14	13.48	13.48	17.05	5.50	13.00	6.90	64.80	2.55	0.00	0.00	0.00	0.00	
15	13.48	13.84	17.05	6.90	14.08	7.90	64.80	2.55	0.00	0.00	0.00	0.00	
16	19.15	18.70	17.05	6.90	13.72	9.80	64.45	4.20	0.00	0.00	0.00	0.00	
17	16.75	13.48	17.05	6.90	12.40	8.40	32.00	7.20	0.00	0.00	0.00	0.00	
18	13.48	13.48	17.05	6.70	11.80	7.70	20.50	0.00	0.00	0.00	0.00	0.00	
19	13.48	13.48	17.05	6.10	7.90	7.60	17.80	0.00	0.00	0.00	0.00	0.00	
20	13.48	13.48	10.36	5.90	6.10	7.10	8.90	0.00	0.00	0.00	0.00	0.00	
21	13.00	13.48	9.60	5.90	6.10	6.30	8.90	0.00	0.00	0.00	0.00	0.00	
22	12.76	9.40	22.80	5.90	6.10	6.50	9.10	0.00	0.00	0.00	0.00	0.00	
23	12.76	3.00	22.80	5.30	4.50	8.10	10.48	0.00	0.00	0.00	0.00	0.00	
24	14.56	3.00	22.80	7.70	3.10	8.30	11.56	0.00	0.00	0.00	0.00	0.00	
25	14.56	3.00	21.70	12.04	2.75	15.64	8.90	0.00	0.00	0.00	0.00	0.00	
26	14.20	3.00	20.05	13.00	6.10	12.28	9.10	0.00	0.00	0.00	0.00	0.00	
27	13.48	3.00	18.85	13.96	8.10	7.00	2.95	0.00	0.00	0.00	0.00	0.00	
28	14.20	3.00	11.56	12.76	6.70	7.00	2.95	0.00	0.00	0.00	0.00	0.00	
29	20.05	3.00	11.56	15.52	6.10	10.36	2.95	0.00	0.00	0.00	0.00	0.00	
30	15.40	3.00	16.45	20.20	5.10	19.15	2.90	0.00	0.00	0.00	0.00	0.00	
31		3.00		20.80	5.10		2.90		0.00	0.00		0.00	
Total	415.23	325.66	419.83	293.17	328.92	231.23	754.37	54.55	0.00	0.00	0.00	0.00	2822.96 CMSDAY
Mean	13.84	10.51	13.99	9.46	10.61	7.71	24.33	1.82	0.00	0.00	0.00	0.00	7.73 CMS
Max	20.05	18.70	22.80	20.80	19.90	19.15	124.00	7.20	0.00	0.00	0.00	0.00	124.00 CMS
Min	12.76	3.00	3.00	5.10	2.75	5.10	2.90	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	35.88	28.14	36.27	25.33	28.42	19.98	65.18	4.71	0.00	0.00	0.00	0.00	243.90 MCM
Momentary Peak	139.60	CMS, at	25.64 m. (MSL), at		12.00 Hours, on Oct 11, 2021								
Runoff Yield	82.28	Liters/Second/Square KM.			Momentary Peak Yield	1485.11	Liters/Second/Square KM.						

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Khlong Chanthi at Ban Khlong Khwang , Trat (Z.47A)

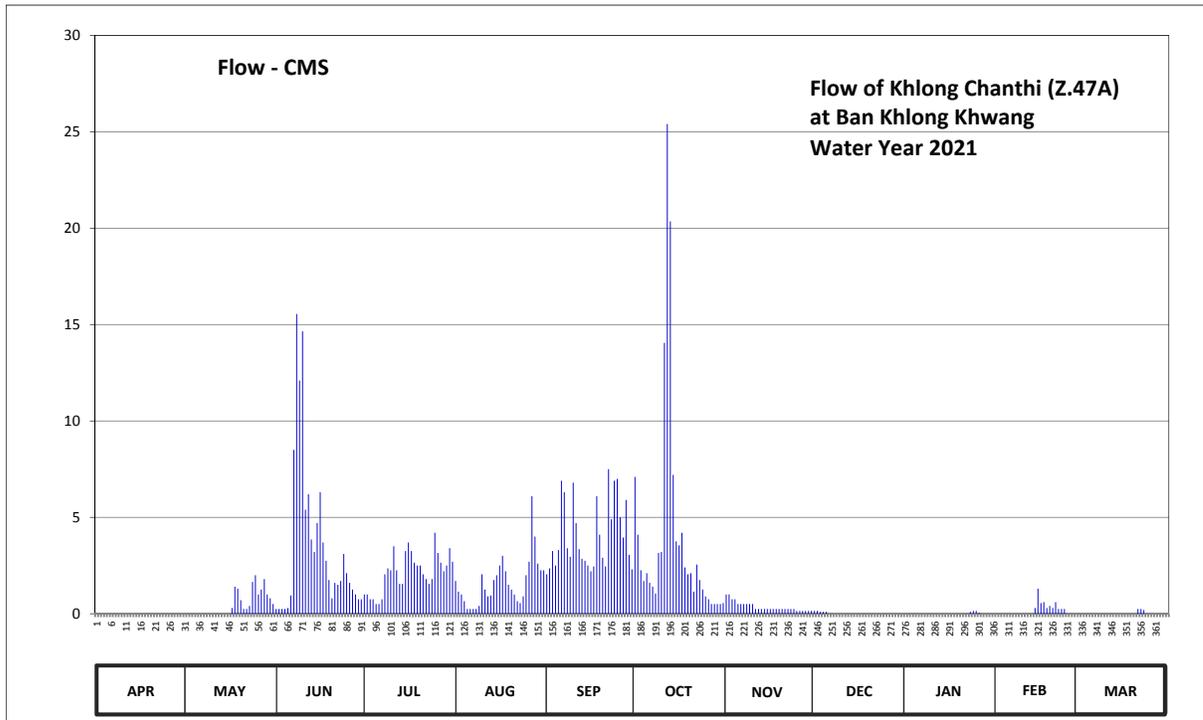
Lat 12 - 20 - 57 N Long 102 - 39 - 17 E

Location : on left bank at Ban Khlong Khwang, Tambon Tha Kum.

	Ban Khlong Khwang	Amphoe Mueang	Changwat Trat
<b>Drainage Area</b>	22 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+18.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the top staff gage.	<b>Elevation</b>	+23.608 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 31 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

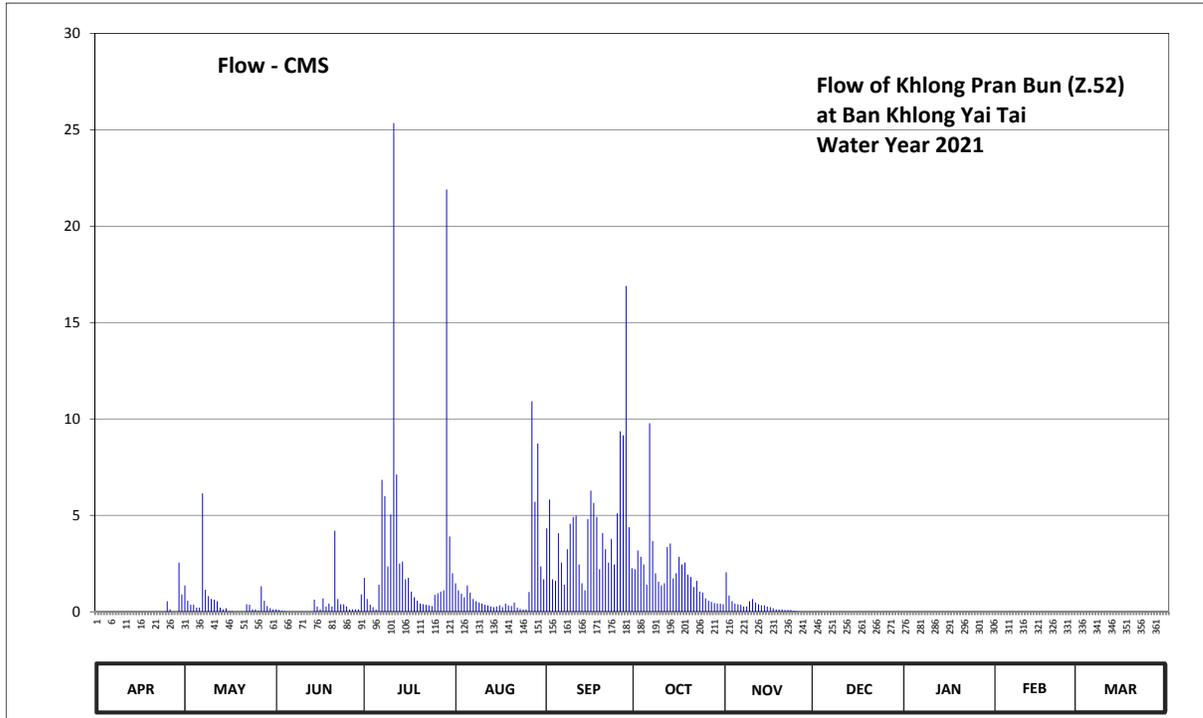
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.00	18.00	18.05	18.20	18.34	18.41	19.11	18.20	18.03	18.00	18.00	18.00	
2	18.00	18.00	18.05	18.20	18.23	18.47	18.81	18.20	18.03	18.00	18.00	18.00	
3	18.00	18.00	18.05	18.15	18.20	18.65	18.45	18.15	18.02	18.00	18.00	18.00	
4	18.00	18.00	18.05	18.15	18.13	18.50	18.34	18.15	18.02	18.00	18.00	18.00	
5	18.00	18.00	18.06	18.10	18.05	18.66	18.42	18.10	18.02	18.00	18.00	18.00	
6	18.00	18.00	18.19	18.10	18.05	19.09	18.32	18.10	18.00	18.00	18.00	18.00	
7	18.00	18.00	19.25	18.15	18.05	19.03	18.28	18.10	18.00	18.00	18.00	18.00	
8	18.00	18.00	19.77	18.41	18.05	18.68	18.21	18.10	18.00	18.00	18.00	18.00	
9	18.00	18.00	19.54	18.47	18.08	18.59	18.63	18.10	18.00	18.00	18.00	18.00	
10	18.00	18.00	19.71	18.45	18.41	19.08	18.64	18.10	18.00	18.00	18.00	18.00	
11	18.00	18.00	18.94	18.70	18.25	18.87	19.67	18.05	18.00	18.00	18.00	18.00	
12	18.00	18.00	19.02	18.45	18.18	18.67	20.37	18.05	18.00	18.00	18.00	18.00	
13	18.00	18.00	18.77	18.31	18.19	18.57	20.09	18.05	18.00	18.00	18.00	18.00	
14	18.00	18.00	18.64	18.31	18.35	18.55	19.12	18.05	18.00	18.00	18.06	18.00	
15	18.00	18.00	18.87	18.65	18.40	18.50	18.75	18.05	18.00	18.00	18.26	18.00	
16	18.00	18.00	19.03	18.74	18.50	18.44	18.71	18.05	18.00	18.00	18.11	18.00	
17	18.00	18.06	18.74	18.65	18.60	18.49	18.82	18.05	18.00	18.00	18.12	18.00	
18	18.00	18.28	18.55	18.53	18.44	19.01	18.48	18.05	18.00	18.00	18.06	18.00	
19	18.00	18.26	18.35	18.50	18.30	18.81	18.41	18.05	18.00	18.00	18.08	18.00	
20	18.00	18.14	18.16	18.50	18.25	18.58	18.42	18.05	18.00	18.00	18.06	18.00	
21	18.00	18.05	18.32	18.41	18.20	18.49	18.23	18.05	18.00	18.00	18.12	18.05	
22	18.00	18.05	18.30	18.36	18.13	19.15	18.51	18.05	18.00	18.00	18.05	18.05	
23	18.00	18.08	18.34	18.31	18.11	18.89	18.35	18.05	18.00	18.02	18.05	18.04	
24	18.00	18.33	18.62	18.36	18.18	19.09	18.25	18.05	18.00	18.03	18.05	18.00	
25	18.00	18.40	18.42	18.82	18.40	19.10	18.18	18.03	18.00	18.03	18.00	18.00	
26	18.00	18.20	18.32	18.63	18.54	18.90	18.15	18.03	18.00	18.01	18.00	18.00	
27	18.00	18.25	18.25	18.53	19.01	18.79	18.10	18.03	18.00	18.00	18.00	18.00	
28	18.00	18.36	18.20	18.44	18.80	18.99	18.10	18.03	18.00	18.00	18.00	18.00	
29	18.00	18.20	18.15	18.50	18.52	18.61	18.10	18.03	18.00	18.00	18.00	18.00	
30	18.00	18.16	18.15	18.68	18.45	18.46	18.10	18.03	18.00	18.00	18.00	18.00	
31		18.10		18.54	18.45		18.11		18.00	18.00		18.00	
Mean	18.00	18.09	18.56	18.43	18.32	18.74	18.59	18.07	18.00	18.00	18.04	18.00	
Max	18.00	18.40	19.77	18.82	19.01	19.15	20.37	18.20	18.03	18.03	18.26	18.05	20.37
Min	18.00	18.00	18.05	18.10	18.05	18.41	18.10	18.03	18.00	18.00	18.00	18.00	18.00
Annual Max Momentary Gage Height	21.43		m. (MSL.) ,				at 12.00 Hours, on Oct 12, 2021						
Zero Gage at Bottom Elevation	18.00		m. (MSL.) ,			River Bed	18.43	m. (MSL.)					
Left Bank Elevation		23.09		m. (MSL.) ,									
Right Bank Elevation		23.14		m. (MSL.) ,		Drainage Are	22	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.25	1.00	1.70	2.05	7.10	1.00	0.15	0.00	0.00	0.00	
2	0.00	0.00	0.25	1.00	1.15	2.35	4.10	1.00	0.15	0.00	0.00	0.00	
3	0.00	0.00	0.25	0.75	1.00	3.25	2.25	0.75	0.10	0.00	0.00	0.00	
4	0.00	0.00	0.25	0.75	0.65	2.50	1.70	0.75	0.10	0.00	0.00	0.00	
5	0.00	0.00	0.30	0.50	0.25	3.30	2.10	0.50	0.10	0.00	0.00	0.00	
6	0.00	0.00	0.95	0.50	0.25	6.90	1.60	0.50	0.00	0.00	0.00	0.00	
7	0.00	0.00	8.50	0.75	0.25	6.30	1.40	0.50	0.00	0.00	0.00	0.00	
8	0.00	0.00	15.55	2.05	0.25	3.40	1.05	0.50	0.00	0.00	0.00	0.00	
9	0.00	0.00	12.10	2.35	0.40	2.95	3.15	0.50	0.00	0.00	0.00	0.00	
10	0.00	0.00	14.65	2.25	2.05	6.80	3.20	0.50	0.00	0.00	0.00	0.00	
11	0.00	0.00	5.40	3.50	1.25	4.70	14.05	0.25	0.00	0.00	0.00	0.00	
12	0.00	0.00	6.20	2.25	0.90	3.35	25.40	0.25	0.00	0.00	0.00	0.00	
13	0.00	0.00	3.85	1.55	0.95	2.85	20.35	0.25	0.00	0.00	0.00	0.00	
14	0.00	0.00	3.20	1.55	1.75	2.75	7.20	0.25	0.00	0.00	0.30	0.00	
15	0.00	0.00	4.70	3.25	2.00	2.50	3.75	0.25	0.00	0.00	1.30	0.00	
16	0.00	0.00	6.30	3.70	2.50	2.20	3.55	0.25	0.00	0.00	0.55	0.00	
17	0.00	0.30	3.70	3.25	3.00	2.45	4.20	0.25	0.00	0.00	0.60	0.00	
18	0.00	1.40	2.75	2.65	2.20	6.10	2.40	0.25	0.00	0.00	0.30	0.00	
19	0.00	1.30	1.75	2.50	1.50	4.10	2.05	0.25	0.00	0.00	0.40	0.00	
20	0.00	0.70	0.80	2.50	1.25	2.90	2.10	0.25	0.00	0.00	0.30	0.00	
21	0.00	0.25	1.60	2.05	1.00	2.45	1.15	0.25	0.00	0.00	0.60	0.25	
22	0.00	0.25	1.50	1.80	0.65	7.50	2.55	0.25	0.00	0.00	0.25	0.25	
23	0.00	0.40	1.70	1.55	0.55	4.90	1.75	0.25	0.00	0.10	0.25	0.20	
24	0.00	1.65	3.10	1.80	0.90	6.90	1.25	0.25	0.00	0.15	0.25	0.00	
25	0.00	2.00	2.10	4.20	2.00	7.00	0.90	0.15	0.00	0.15	0.00	0.00	
26	0.00	1.00	1.60	3.15	2.70	5.00	0.75	0.15	0.00	0.05	0.00	0.00	
27	0.00	1.25	1.25	2.65	6.10	3.95	0.50	0.15	0.00	0.00	0.00	0.00	
28	0.00	1.80	1.00	2.20	4.00	5.90	0.50	0.15	0.00	0.00	0.00	0.00	
29	0.00	1.00	0.75	2.50	2.60	3.05	0.50	0.15	0.00	0.00	0.00	0.00	
30	0.00	0.80	0.75	3.40	2.25	2.30	0.50	0.15	0.00	0.00	0.00	0.00	
31	0.00	0.50		2.70	2.25		0.55		0.00	0.00		0.00	
<b>Total</b>	0.00	14.60	107.05	66.60	50.25	122.65	123.60	10.90	0.60	0.45	5.10	0.70	502.50 CMSDAY
<b>Mean</b>	0.00	0.47	3.57	2.15	1.62	4.09	3.99	0.36	0.02	0.01	0.18	0.02	1.38 CMS
<b>Max</b>	0.00	2.00	15.55	4.20	6.10	7.50	25.40	1.00	0.15	0.15	1.30	0.25	25.40 CMS
<b>Min</b>	0.00	0.00	0.25	0.50	0.25	2.05	0.50	0.15	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	1.26	9.25	5.75	4.34	10.60	10.68	0.94	0.05	0.04	0.44	0.06	43.42 MCM
<b>Momentary Peak</b>	48.25	CMS, at 21.43 m. (MSL.), at 12.00 Hours, on Oct 12, 2021											
<b>Runoff Yield</b>	62.58	Liters/Second/Square KM. Momentary Peak Yield 2193.18 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1		1.36	0.12	1.76	1.48	4.32	2.20	2.05	0.00				
2		0.57	0.09	0.66	1.11	5.82	3.18	0.84	0.00				
3		0.36	0.06	0.36	0.93	1.68	2.85	0.54	0.00				
4		0.36	0.03	0.24	0.75	1.60	2.45	0.42	0.00				
5		0.21	0.00	0.12	1.36	4.08	1.40	0.39	0.00				
6		0.21	0.00	1.40	0.99	2.55	9.78	0.36	0.00				
7		6.14	0.00	6.84	0.66	1.40	3.66	0.27	0.00				
8		1.14	0.00	6.00	0.54	3.24	2.00	0.27	0.00				
9		0.81	0.00	2.35	0.48	4.56	1.56	0.54	0.00				
10		0.66	0.00	5.04	0.42	4.92	1.36	0.66	0.00				
11		0.63	0.00	25.34	0.36	4.98	1.48	0.48	0.00				
12		0.54	0.00	7.12	0.33	2.45	3.36	0.39	0.00				
13		0.21	0.00	2.50	0.27	1.48	3.54	0.33	0.00				
14		0.12	0.63	2.60	0.24	1.11	1.72	0.33	0.00				
15		0.18	0.27	1.68	0.27	4.80	2.00	0.27	0.00				
16		0.03	0.12	1.76	0.33	6.28	2.85	0.24	0.00				
17		0.03	0.69	1.05	0.24	5.64	2.45	0.18	0.00				
18		0.00	0.27	0.75	0.42	4.92	2.55	0.12	0.00				
19		0.00	0.42	0.57	0.33	2.20	1.92	0.12	0.00				
20		0.00	0.27	0.42	0.30	4.08	1.80	0.12	0.00				
21		0.00	4.20	0.39	0.48	3.24	1.28	0.09	0.00				
22		0.39	0.66	0.36	0.21	2.55	1.60	0.09	0.00				
23		0.36	0.39	0.33	0.15	3.78	1.05	0.09	0.00				
24		0.12	0.39	0.30	0.12	2.45	0.99	0.06	0.00				
25	0.54	0.12	0.27	0.87	0.12	5.10	0.69	0.03	0.00				
26	0.12	0.06	0.12	0.96	1.02	9.36	0.57	0.00	0.00				
27	0.00	1.32	0.12	1.05	10.92	9.15	0.51	0.00	0.00				
28	0.00	0.57	0.12	1.11	5.70	16.90	0.45	0.00	0.00				
29	2.55	0.30	0.12	21.90	8.73	4.38	0.42	0.00	0.00				
30	0.90	0.18	0.90	3.90	2.35	2.25	0.42	0.00	0.00				
31		0.12		2.00	1.68		0.39						
<b>Total</b>	4.11	17.10	10.26	101.73	43.29	131.27	62.48	9.28	0.00				379.52 CMSDAY
<b>Mean</b>	0.69	0.55	0.34	3.28	1.40	4.38	2.02	0.31	0.00				1.54 CMS
<b>Max</b>	2.55	6.14	4.20	25.34	10.92	16.90	9.78	2.05	0.00				25.34 CMS
<b>Min</b>	0.00	0.00	0.00	0.12	0.12	1.11	0.39	0.00	0.00				0.00 CMS
<b>Runoff</b>	0.36	1.48	0.89	8.79	3.74	11.34	5.40	0.80	0.00				32.79 MCM
<b>Momentary Peak</b>	30.02	CMS, at 41.54 m. (MSL.), at 12.00 Hours, on Jul 11, 2021											
<b>Runoff Yield</b>	17.33	Liters/Second/Square KM. Momentary Peak Yield 500.33 Liters/Second/Square KM.											

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Wang Cha Ai , Chanthaburi (Z.55)

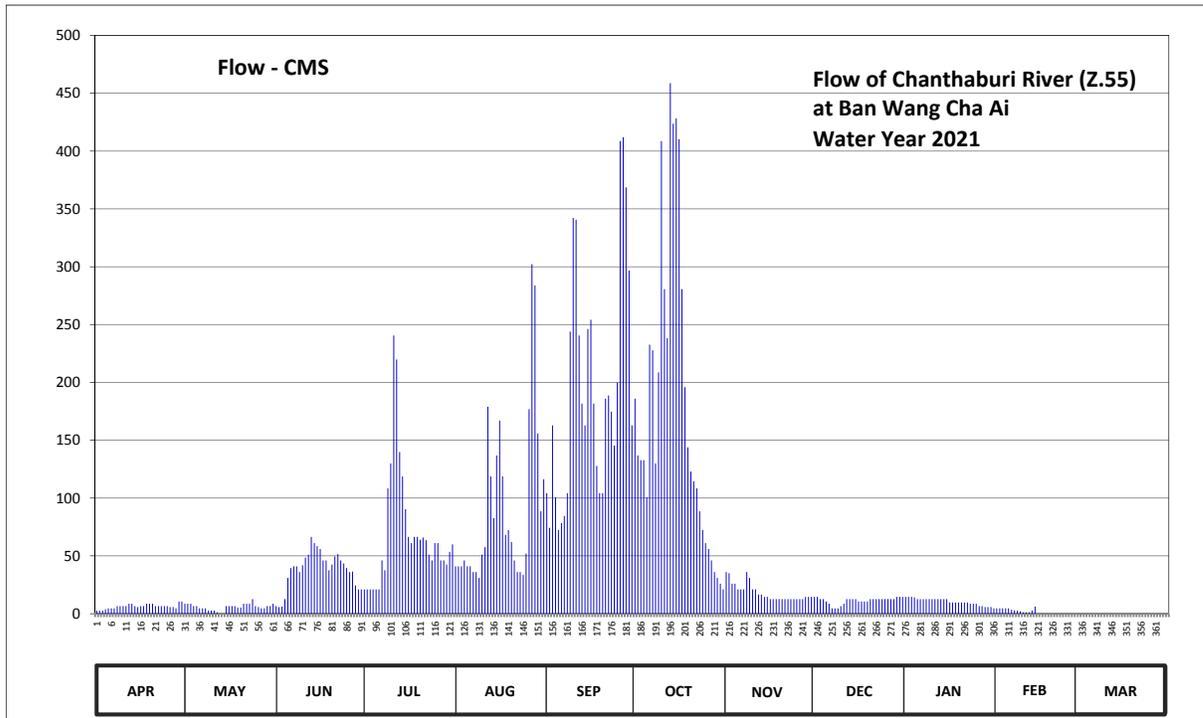
Lat 12 - 41 - 51 N Long 102 - 10 - 31 E

Location : on left bank at the bridge on highway.

	Ban Wang Cha Ai	Amphoe Makham	Changwat Chanthaburi
<b>Drainage Area</b>	965 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+1.739 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+9.723 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00,12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2008 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2008 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2008 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 8.560 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 11 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

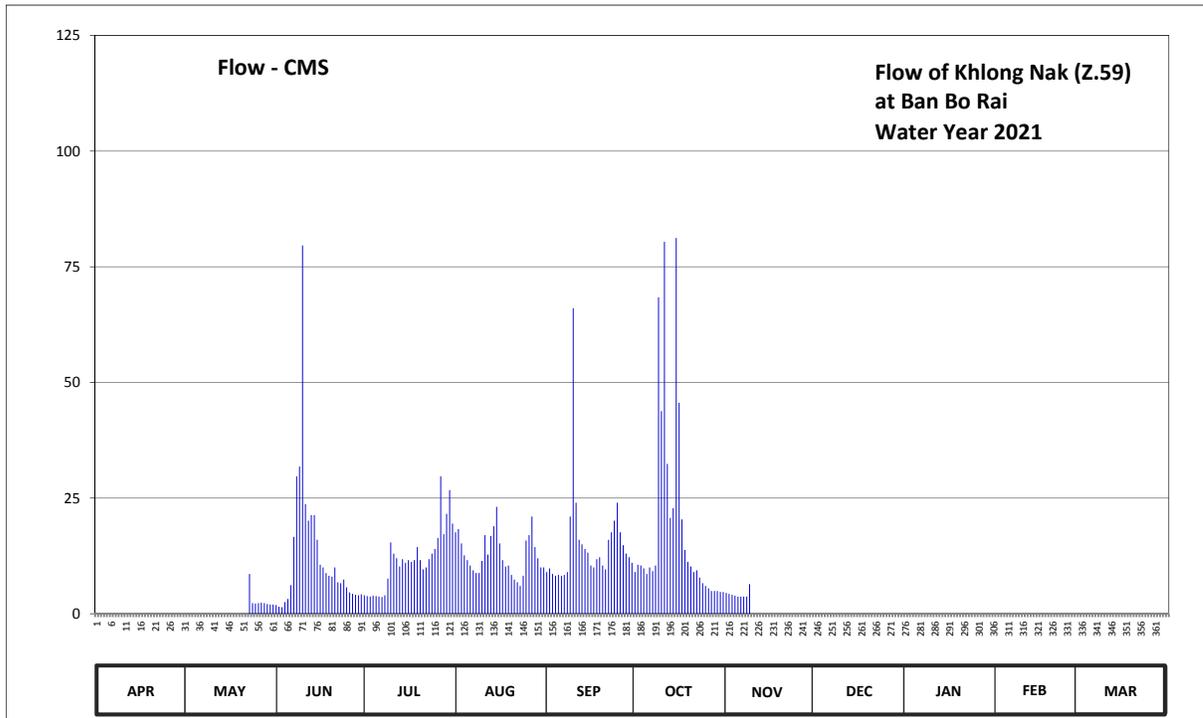
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.29	2.44	2.39	2.74	3.14	4.27	5.47	3.04	2.59	2.59	2.34	3.04	
2	2.29	2.44	2.37	2.74	3.14	3.77	4.77	3.02	2.59	2.59	2.34	3.04	
3	2.29	2.44	2.38	2.74	3.14	5.14	4.71	2.84	2.54	2.59	2.34	3.04	
4	2.32	2.39	2.54	2.74	3.24	4.21	4.71	2.84	2.54	2.58	2.34	3.02	
5	2.34	2.39	2.94	2.74	3.14	3.74	4.21	2.74	2.49	2.54	2.34	3.02	
6	2.34	2.34	3.11	2.74	3.14	3.84	6.07	2.74	2.44	2.54	2.31	3.01	
7	2.34	2.34	3.14	3.24	3.04	3.94	6.01	2.74	2.34	2.54	2.29	3.03	
8	2.39	2.34	3.14	3.07	3.04	4.27	4.67	3.04	2.34	2.54	2.29	3.04	
9	2.39	2.29	3.04	4.34	2.94	6.21	5.77	2.94	2.34	2.54	2.27	3.04	
10	2.39	2.29	3.16	4.67	3.34	7.44	8.27	2.74	2.39	2.54	2.24	3.04	
11	2.39	2.29	3.29	6.17	3.47	7.42	6.67	2.74	2.44	2.54	2.24	3.04	
12	2.44	2.24	3.34	5.91	5.37	6.17	6.14	2.64	2.54	2.54	2.24	3.04	
13	2.44	2.19	3.64	4.81	4.51	5.41	8.83	2.64	2.54	2.54	2.29	2.74	
14	2.39	2.19	3.54	4.51	3.91	5.14	8.44	2.59	2.54	2.54	2.38	2.74	
15	2.37	2.39	3.49	4.04	4.77	6.24	8.49	2.59	2.54	2.54	2.84	2.64	
16	2.39	2.39	3.44	3.64	5.20	6.34	8.29	2.54	2.49	2.47	3.04	2.54	
17	2.39	2.39	3.24	3.54	4.51	5.41	6.67	2.54	2.49	2.47	2.97	2.54	
18	2.44	2.39	3.24	3.64	3.67	4.64	5.61	2.54	2.49	2.47	2.94	2.54	
19	2.44	2.36	3.07	3.64	3.74	4.27	4.87	2.54	2.49	2.47	2.94	2.54	
20	2.44	2.36	3.17	3.60	3.56	4.27	4.57	2.54	2.54	2.47	2.97	2.59	
21	2.39	2.44	3.31	3.63	3.24	5.47	4.44	2.54	2.54	2.47	2.99	2.59	
22	2.39	2.44	3.35	3.59	3.04	5.51	4.34	2.54	2.54	2.47	3.04	2.64	
23	2.39	2.44	3.24	3.34	3.04	5.31	4.01	2.54	2.54	2.44	3.04	2.64	
24	2.39	2.54	3.19	3.24	2.99	4.89	3.74	2.54	2.54	2.44	3.00	2.59	
25	2.39	2.39	3.11	3.54	3.36	5.66	3.54	2.54	2.54	2.44	2.99	2.59	
26	2.37	2.37	3.04	3.54	5.34	8.27	3.44	2.54	2.54	2.39	2.99	2.57	
27	2.37	2.34	3.05	3.24	6.94	8.31	3.24	2.54	2.54	2.39	2.99	2.54	
28	2.34	2.34	2.81	3.24	6.71	7.77	3.04	2.59	2.54	2.37	2.94	2.54	
29	2.49	2.39	2.74	3.17	5.04	6.87	2.94	2.59	2.59	2.37		2.53	
30	2.49	2.39	2.74	3.39	4.01	5.14	2.84	2.59	2.59	2.37		2.44	
31		2.44		3.52	4.47		2.74		2.59	2.34		2.39	
Mean	2.38	2.37	3.07	3.64	3.94	5.51	5.21	2.67	2.51	2.49	2.64	2.75	
Max	2.49	2.54	3.64	6.17	6.94	8.31	8.83	3.04	2.59	2.59	3.04	3.04	8.83
Min	2.29	2.19	2.37	2.74	2.94	3.74	2.74	2.54	2.34	2.34	2.24	2.39	2.19
Annual Max Momentary Gage Height	9.14		m. (MSL.) ,										at 18.00 Hours, on Oct 13, 2021
Zero Gage at Bottom Elevation	1.74		m. (MSL.) ,										River Bed -1.68 m. (MSL.)
Left Bank Elevation		8.55		m. (MSL.) ,									
Right Bank Elevation		9.15		m. (MSL.) ,									Drainage Are 965 Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	8.60	6.60	21.00	41.00	104.20	185.90	36.00	14.60	14.60	4.60	0.00	
2	2.70	8.60	5.80	21.00	41.00	74.20	136.90	35.00	14.60	14.60	4.60	0.00	
3	2.70	8.60	6.20	21.00	41.00	162.80	132.70	26.00	12.60	14.60	4.60	0.00	
4	3.80	6.60	12.60	21.00	46.00	100.60	132.70	26.00	12.60	14.20	4.60	0.00	
5	4.60	6.60	31.00	21.00	41.00	72.40	100.60	21.00	10.60	12.60	4.60	0.00	
6	4.60	4.60	39.50	21.00	41.00	78.40	232.60	21.00	8.60	12.60	3.40	0.00	
7	4.60	4.60	41.00	46.00	36.00	84.40	227.80	21.00	4.60	12.60	2.70	0.00	
8	6.60	4.60	41.00	37.50	36.00	104.20	129.90	36.00	4.60	12.60	2.70	0.00	
9	6.60	2.70	36.00	108.40	31.00	243.80	208.60	31.00	4.60	12.60	2.10	0.00	
10	6.60	2.70	42.00	129.90	51.00	342.20	408.60	21.00	6.60	12.60	1.20	0.00	
11	6.60	2.70	48.50	240.60	57.50	340.60	280.60	21.00	8.60	12.60	1.20	0.00	
12	8.60	1.20	51.00	219.80	178.90	240.60	238.20	16.60	12.60	12.60	1.20	0.00	
13	8.60	0.00	66.40	139.70	118.70	181.70	458.70	16.60	12.60	12.60	2.70	0.00	
14	6.60	0.00	61.00	118.70	82.60	162.80	423.60	14.60	12.60	12.60	6.20	0.00	
15	5.80	6.60	58.50	90.40	136.90	246.20	428.10	14.60	12.60	12.60	0.00	0.00	
16	6.60	6.60	56.00	66.40	167.00	254.20	410.20	12.60	10.60	9.80	0.00	0.00	
17	6.60	6.60	46.00	61.00	118.70	181.70	280.60	12.60	10.60	9.80	0.00	0.00	
18	8.60	6.60	46.00	66.40	68.20	127.80	195.80	12.60	10.60	9.80	0.00	0.00	
19	8.60	5.40	37.50	66.40	72.40	104.20	143.90	12.60	10.60	9.80	0.00	0.00	
20	8.60	5.40	42.50	64.00	62.00	104.20	122.90	12.60	12.60	9.80	0.00	0.00	
21	6.60	8.60	49.50	65.80	46.00	185.90	114.40	12.60	12.60	9.80	0.00	0.00	
22	6.60	8.60	51.50	63.50	36.00	188.70	108.40	12.60	12.60	9.80	0.00	0.00	
23	6.60	8.60	46.00	51.00	36.00	174.70	88.60	12.60	12.60	8.60	0.00	0.00	
24	6.60	12.60	43.50	46.00	33.50	145.30	72.40	12.60	12.60	8.60	0.00	0.00	
25	6.60	6.60	39.50	61.00	52.00	199.80	61.00	12.60	12.60	8.60	0.00	0.00	
26	5.80	5.80	36.00	61.00	176.80	408.60	56.00	12.60	12.60	6.60	0.00	0.00	
27	5.80	4.60	36.50	46.00	302.20	411.90	46.00	12.60	12.60	6.60	0.00	0.00	
28	4.60	4.60	24.50	46.00	283.80	368.60	36.00	14.60	12.60	5.80	0.00	0.00	
29	10.60	6.60	21.00	42.50	155.80	296.60	31.00	14.60	14.60	5.80	0.00	0.00	
30	10.60	6.60	21.00	53.50	88.60	162.80	26.00	14.60	14.60	5.80	0.00	0.00	
31		8.60		60.00	116.20		21.00		14.60	4.60		0.00	
<b>Total</b>	191.10	181.10	1144.10	2177.50	2794.80	5854.10	5539.70	552.40	352.60	326.20	46.40	0.00	19160.00 CMSDAY
<b>Mean</b>	6.37	5.84	38.14	70.24	90.15	195.14	178.70	18.41	11.37	10.52	1.66	0.00	52.49 CMS
<b>Max</b>	10.60	12.60	66.40	240.60	302.20	411.90	458.70	36.00	14.60	14.60	6.20	0.00	458.70 CMS
<b>Min</b>	2.70	0.00	5.80	21.00	31.00	72.40	21.00	12.60	4.60	4.60	0.00	0.00	0.00 CMS
<b>Runoff</b>	16.51	15.65	98.85	188.14	241.47	505.79	478.63	47.73	30.46	28.18	4.01	0.00	1655.42 MCM
<b>Momentary Peak</b>	486.60 CMS, at 9.14 m. (MSL.), at 18.00 Hours, on Oct 13, 2021												
<b>Runoff Yield</b>	54.40 Liters/Second/Square KM.			Momentary Peak Yield				504.25 Liters/Second/Square KM.					

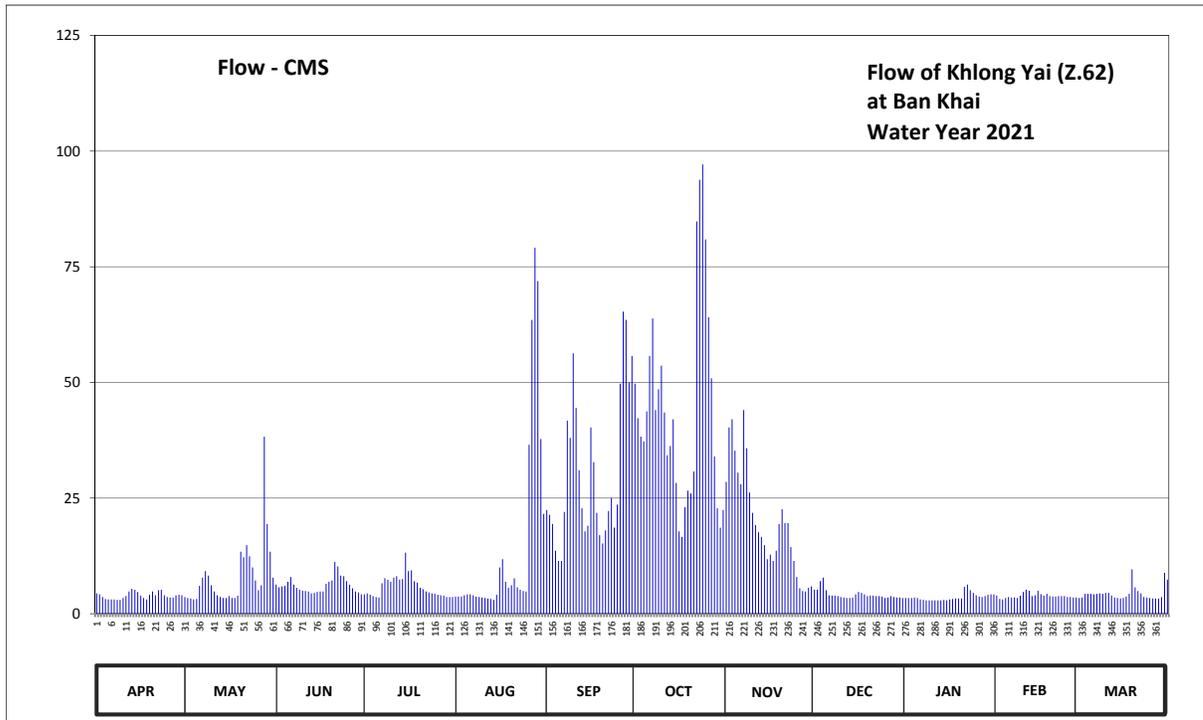




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.90	4.00	17.60	9.00	9.00	4.50	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.50	3.80	18.30	9.80	10.60	4.30	0.00	0.00	0.00	0.00	
3	0.00	0.00	1.40	3.70	15.20	8.60	10.40	4.10	0.00	0.00	0.00	0.00	
4	0.00	0.00	2.50	3.90	12.60	8.20	9.80	3.90	0.00	0.00	0.00	0.00	
5	0.00	0.00	3.20	3.80	11.60	8.40	8.60	3.70	0.00	0.00	0.00	0.00	
6	0.00	0.00	6.20	3.70	10.40	8.20	10.00	3.70	0.00	0.00	0.00	0.00	
7	0.00	0.00	16.60	3.60	9.40	8.40	9.20	3.70	0.00	0.00	0.00	0.00	
8	0.00	0.00	29.70	4.00	8.80	9.00	10.40	3.70	0.00	0.00	0.00	0.00	
9	0.00	0.00	31.80	7.60	8.80	21.00	68.40	6.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	79.60	15.40	11.40	66.00	43.80	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	23.70	13.00	17.00	24.00	80.40	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	20.10	12.00	12.80	16.00	32.40	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	21.30	10.20	16.80	15.00	20.70	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	21.30	11.80	18.90	14.00	22.80	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	16.00	11.00	23.10	13.20	81.20	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	10.60	11.60	15.20	10.40	45.60	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	10.00	11.20	11.60	10.00	20.40	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	8.80	11.60	10.20	11.80	13.80	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	8.20	14.40	10.40	12.20	11.20	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	8.00	11.60	8.40	10.40	10.20	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	10.00	9.60	7.40	9.60	9.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	6.80	10.00	6.80	16.00	9.40	0.00	0.00	0.00	0.00	0.00	
23	0.00	8.60	6.60	11.80	6.00	17.60	7.80	0.00	0.00	0.00	0.00	0.00	
24	0.00	2.30	7.40	13.00	8.20	20.10	6.60	0.00	0.00	0.00	0.00	0.00	
25	0.00	2.20	5.70	14.00	15.80	24.00	6.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	2.30	4.60	16.40	17.00	17.60	5.50	0.00	0.00	0.00	0.00	0.00	
27	0.00	2.40	4.30	29.70	21.00	14.80	4.90	0.00	0.00	0.00	0.00	0.00	
28	0.00	2.30	4.10	17.20	14.40	13.00	4.90	0.00	0.00	0.00	0.00	0.00	
29	0.00	2.10	4.00	21.60	12.00	12.20	4.90	0.00	0.00	0.00	0.00	0.00	
30	0.00	2.00	4.20	26.70	10.00	11.00	4.70	0.00	0.00	0.00	0.00	0.00	
31	0.00	2.00		19.50	10.00		4.70		0.00	0.00		0.00	
<b>Total</b>	0.00	26.20	380.10	361.40	397.10	449.50	597.30	38.00	0.00	0.00	0.00	0.00	2249.60 CMSDAY
<b>Mean</b>	0.00	0.85	12.67	11.66	12.81	14.98	19.27	1.27	0.00	0.00	0.00	0.00	6.16 CMS
<b>Max</b>	0.00	8.60	79.60	29.70	23.10	66.00	81.20	6.40	0.00	0.00	0.00	0.00	81.20 CMS
<b>Min</b>	0.00	0.00	1.40	3.60	6.00	8.20	4.70	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	2.26	32.84	31.22	34.31	38.84	51.61	3.28	0.00	0.00	0.00	0.00	194.37 MCM
<b>Momentary Peak</b>	122.00	CMS, at 23.42 m. (MSL), at 06.00 Hours, on Sep 10, 2021											
<b>Runoff Yield</b>	66.99	Liters/Second/Square KM. Momentary Peak Yield 1326.09 Liters/Second/Square KM.											

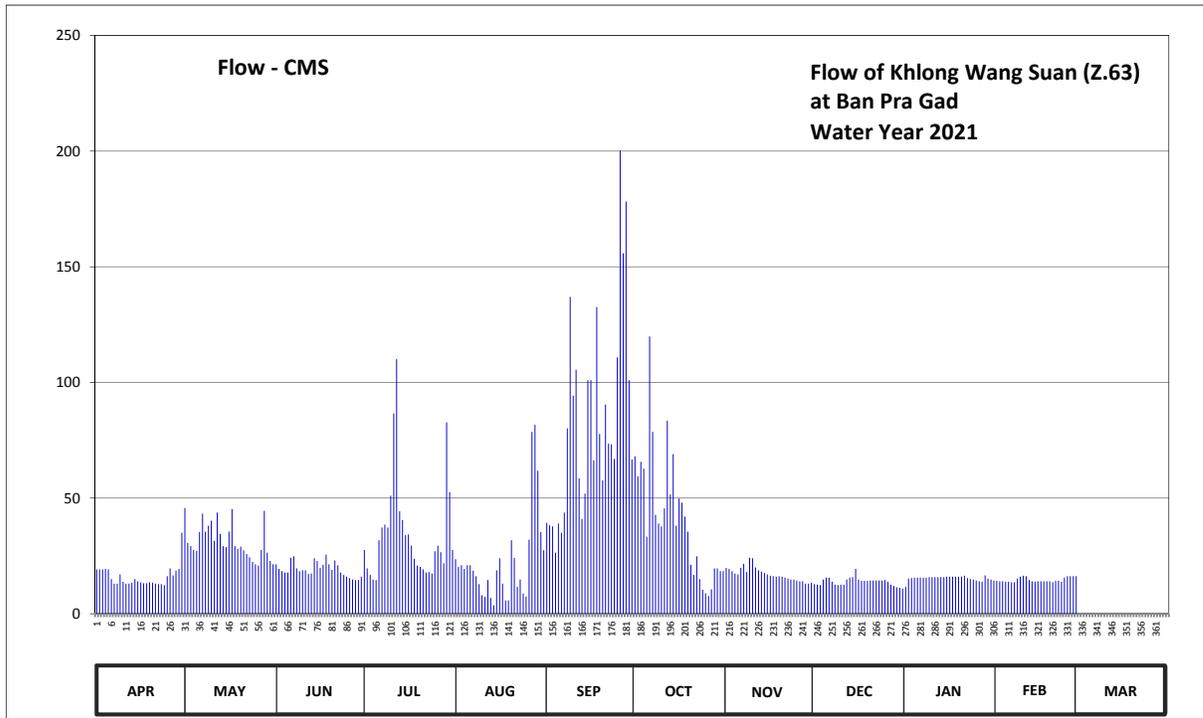




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.40	3.60	6.30	4.20	3.70	22.40	49.70	28.50	5.20	3.40	3.90	3.40		
2	4.20	3.40	5.70	4.40	3.70	21.40	42.25	40.25	5.20	3.40	3.20	3.50		
3	3.60	3.30	5.90	4.10	3.70	19.40	38.25	42.00	7.05	3.40	3.10	4.30		
4	3.20	3.10	6.00	3.80	4.00	13.60	37.25	35.25	7.80	3.50	3.40	4.30		
5	3.10	3.20	6.90	3.60	4.20	11.40	43.75	30.50	5.10	3.40	3.60	4.30		
6	3.10	6.00	7.95	3.50	4.20	11.40	55.70	28.00	4.00	3.10	3.50	4.20		
7	3.10	7.80	6.30	6.60	4.00	22.00	63.80	44.00	3.90	3.00	3.50	4.30		
8	3.00	9.20	5.60	7.65	3.70	41.75	44.00	35.75	3.90	2.90	3.40	4.40		
9	3.00	8.25	5.20	7.35	3.60	38.00	48.50	26.20	3.80	2.90	3.90	4.30		
10	3.40	6.15	5.00	6.90	3.50	56.30	53.60	21.80	3.60	2.90	4.70	4.50		
11	3.80	4.80	4.90	7.80	3.40	44.50	43.50	19.20	3.50	2.90	5.20	4.50		
12	4.80	4.00	4.80	8.10	3.30	31.00	34.25	17.60	3.40	2.90	5.00	3.90		
13	5.40	3.60	4.40	7.35	3.20	22.80	36.25	16.60	3.40	2.90	3.80	3.50		
14	5.20	3.40	4.50	7.50	3.00	17.80	42.00	14.80	3.50	3.00	4.00	3.40		
15	4.70	3.40	4.70	13.20	4.10	19.00	28.25	11.80	4.20	2.90	5.00	3.30		
16	3.90	3.80	4.80	9.20	10.00	40.25	17.80	12.80	4.70	3.10	4.20	3.40		
17	3.40	3.40	4.80	9.40	11.80	32.75	16.60	11.40	4.50	3.20	3.90	3.70		
18	3.10	3.40	6.45	7.05	6.90	21.80	23.00	13.60	4.20	3.30	4.30	4.30		
19	4.10	3.90	6.90	6.75	5.60	17.00	26.60	19.40	3.80	3.30	3.80	9.60		
20	4.80	13.40	7.20	5.60	6.15	15.20	26.00	22.60	3.90	3.30	3.70	5.70		
21	4.00	12.20	11.20	5.30	7.65	18.00	30.75	19.60	3.90	5.80	3.70	4.90		
22	5.10	14.80	10.20	4.80	5.70	22.20	84.80	19.60	3.80	6.30	3.80	4.40		
23	5.20	12.40	8.25	4.60	5.20	25.00	93.80	14.40	3.80	5.10	3.80	3.60		
24	4.00	10.00	8.10	4.40	4.90	18.60	97.10	11.40	3.70	4.50	3.80	3.50		
25	3.60	7.20	7.05	4.30	4.80	23.60	80.90	7.95	3.40	4.00	3.60	3.40		
26	3.50	5.10	6.30	4.10	36.50	49.70	64.10	5.50	3.50	3.70	3.60	3.30		
27	3.50	6.15	5.50	4.00	63.50	65.30	50.90	4.90	3.80	3.60	3.50	3.30		
28	4.00	38.25	4.80	3.90	79.10	63.50	34.00	4.80	3.60	3.80	3.50	3.30		
29	4.10	19.40	4.60	3.60	71.90	50.00	22.80	5.60	3.50	4.10		3.60		
30	4.00	13.40	4.20	3.60	37.75	55.70	18.60	5.90	3.50	4.20		8.85		
31		7.80		3.60	21.60		22.40		3.40	4.20		7.35		
<b>Total</b>	118.30	247.80	184.50	180.25	434.35	911.35	1371.20	591.70	128.55	112.00	108.40	136.30	4524.70	CMSDAY
<b>Mean</b>	3.94	7.99	6.15	5.81	14.01	30.38	44.23	19.72	4.15	3.61	3.87	4.40	12.40	CMS
<b>Max</b>	5.40	38.25	11.20	13.20	79.10	65.30	97.10	44.00	7.80	6.30	5.20	9.60	97.10	CMS
<b>Min</b>	3.00	3.10	4.20	3.50	3.00	11.40	16.60	4.80	3.40	2.90	3.10	3.30	2.90	CMS
<b>Runoff</b>	10.22	21.41	15.94	15.57	37.53	78.74	118.47	51.12	11.11	9.68	9.37	11.78	390.93	MCM
<b>Momentary Peak</b>		101.00	CMS, at 9.80 m. (MSL.), at 03.00 Hours, on Oct 24, 2021											
<b>Runoff Yield</b>		10.14	Liters/Second/Square KM.			Momentary Peak Yield		82.65	Liters/Second/Square KM.					





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.20	45.75	21.40	27.60	23.60	39.25	68.10	19.80	12.80	11.60	14.20		
2	19.20	30.60	19.40	19.60	20.20	38.25	59.40	19.40	12.60	15.20	14.00		
3	19.20	29.20	18.40	16.80	21.00	37.75	65.70	18.40	12.40	15.40	14.00		
4	19.40	27.60	17.80	14.80	19.40	26.40	62.70	17.40	14.80	15.60	13.80		
5	19.20	27.20	17.80	14.60	21.00	39.00	33.25	17.00	15.60	15.60	13.80		
6	15.00	35.25	24.20	31.75	21.00	35.00	119.85	19.80	15.60	15.60	13.60		
7	13.00	43.25	24.80	37.25	18.60	43.75	78.60	21.60	13.80	15.60	13.60		
8	13.00	35.50	19.60	38.50	16.20	80.10	42.75	18.00	12.60	15.60	15.20		
9	17.00	38.00	18.40	37.25	12.80	137.00	39.00	24.20	12.40	15.80	16.00		
10	13.80	40.25	18.80	51.00	8.00	94.30	37.75	24.00	12.60	15.80	16.40		
11	13.00	31.50	18.80	86.60	7.25	105.50	45.50	20.00	12.60	15.80	16.20		
12	13.00	43.75	17.20	110.05	14.60	58.50	83.45	18.80	14.80	15.80	14.60		
13	13.40	34.50	17.40	44.25	6.80	41.00	51.60	18.20	15.60	15.80	14.00		
14	15.00	29.20	24.00	40.50	3.65	51.90	69.00	17.60	15.80	15.80	13.80		
15	14.00	28.80	22.80	34.00	18.80	100.95	38.00	17.00	19.40	16.00	14.00		
16	13.60	35.50	19.80	34.25	24.00	100.95	49.75	16.40	14.80	16.00	14.00		
17	13.20	45.25	21.20	29.40	13.00	66.30	48.00	16.20	14.20	16.00	14.00		
18	13.20	29.20	25.60	23.80	5.75	132.60	42.00	16.00	14.20	16.00	14.00		
19	13.60	28.00	21.40	20.80	5.75	77.70	35.50	16.20	14.20	16.00	14.00		
20	13.40	29.00	19.00	20.20	31.75	57.60	21.20	16.00	14.40	16.00	13.60		
21	13.00	27.40	23.00	19.20	24.20	90.45	16.80	15.60	14.40	16.40	14.20		
22	12.80	25.80	21.00	17.80	11.60	73.50	24.80	15.20	14.40	15.40	14.20		
23	12.80	24.40	17.80	18.00	14.80	73.20	15.00	14.80	14.40	15.00	13.80		
24	12.40	22.40	16.80	17.40	8.75	66.90	10.40	14.80	14.40	14.80	15.60		
25	16.20	21.40	16.00	27.00	7.40	110.75	8.90	14.40	14.60	14.40	16.20		
26	19.60	20.80	15.40	29.40	32.00	200.20	7.70	14.00	13.80	14.00	16.20		
27	16.60	27.60	14.80	26.60	78.60	155.80	10.55	14.00	12.60	13.80	16.20		
28	18.60	44.50	14.60	21.80	81.70	178.20	19.60	13.00	12.00	16.60	16.20		
29	19.40	26.40	14.60	82.75	61.80	100.95	19.60	13.00	11.40	15.20			
30	35.00	22.80	16.00	52.50	35.25	66.60	18.40	13.40	11.20	14.80			
31		21.40		27.60	27.40		18.40		10.85	14.40			
Total	479.80	972.20	577.80	1073.05	696.65	2480.35	1261.25	514.20	429.25	475.80	409.40	9369.75	CMSDAY
Mean	15.99	31.36	19.26	34.61	22.47	82.68	40.69	17.14	13.85	15.35	14.62	28.05	CMS
Max	35.00	45.75	25.60	110.05	81.70	200.20	119.85	24.20	19.40	16.60	16.40	200.20	CMS
Min	12.40	20.80	14.60	14.60	3.65	26.40	7.70	13.00	10.85	11.60	13.60	3.65	CMS
Runoff	41.45	84.00	49.92	92.71	60.19	214.30	108.97	44.43	37.09	41.11	35.37	809.55	MCM
Momentary Peak	212.60	CMS, at 7.44 m. (A.D.), at 18.00 Hours, on Sep 26, 2021											
Runoff Yield	22.82	Liters/Second/Square KM.			Momentary Peak Yield	188.98	Liters/Second/Square KM.						

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Tha Luang , Chanthaburi (Z.64)

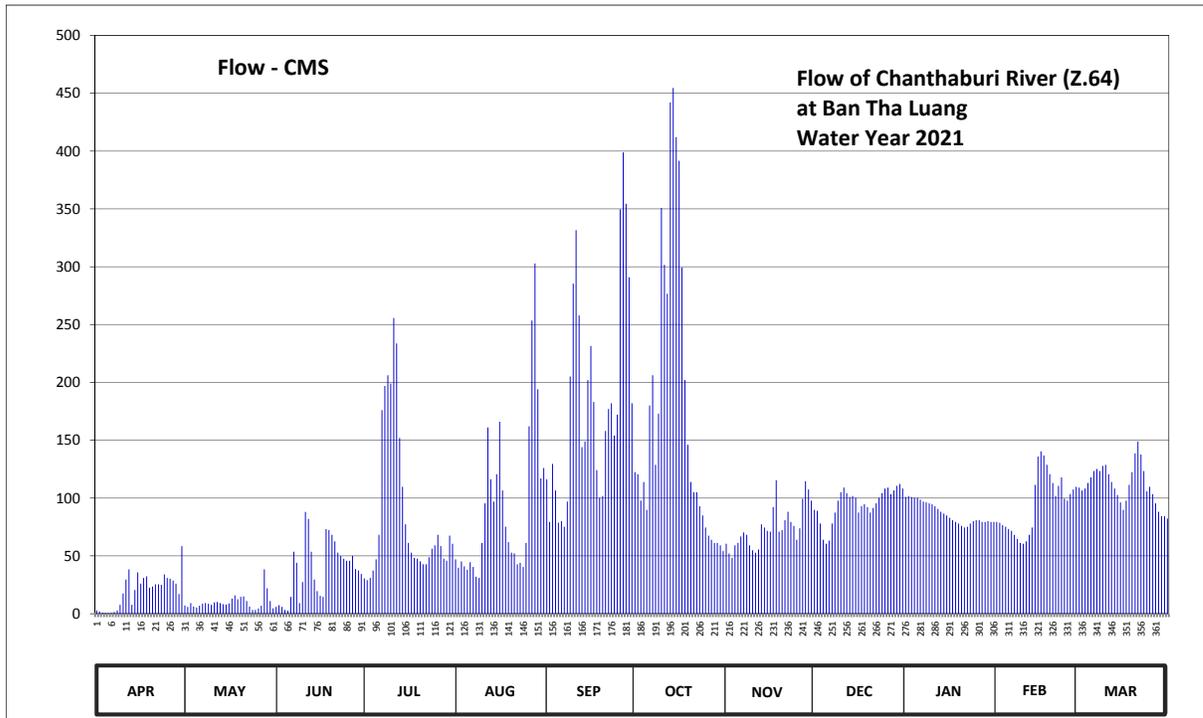
Lat 12 - 39 - 26 N Long 102 - 09 - 16 E

Location : on right bank at the bridge on highway.

	Ban Tha Luang	Amphoe Makham	Changwat Chanthaburi
<b>Drainage Area</b>	982 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.	<b>Elevation</b>	+9.000 m. (A.D.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2018 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 7.490 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2021.		

## Gage Height in Meter (A.D.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.15	3.37	3.33	3.07	3.35	4.29	4.36	3.55	3.96	4.10	3.82	4.20	
2	3.08	3.33	3.38	3.04	3.23	3.82	4.34	3.43	3.95	4.11	3.81	4.17	
3	3.01	3.44	3.33	3.08	3.32	4.44	4.06	3.37	3.80	4.10	3.78	4.19	
4	2.95	3.34	3.18	3.19	3.25	4.17	4.26	3.53	3.60	4.09	3.76	4.25	
5	2.94	3.31	3.13	3.35	3.20	3.81	3.96	3.56	3.55	4.09	3.73	4.31	
6	2.95	3.36	3.57	3.66	3.31	3.83	4.96	3.64	3.59	4.07	3.71	4.37	
7	3.05	3.42	4.11	4.92	3.24	3.76	5.22	3.69	3.80	4.05	3.66	4.39	
8	3.15	3.44	4.02	5.13	3.10	4.05	4.43	3.66	3.93	4.04	3.61	4.37	
9	3.39	3.42	3.44	5.22	3.08	5.21	4.89	3.53	4.06	4.03	3.56	4.42	
10	3.63	3.39	3.82	5.15	3.56	5.94	6.49	3.47	4.15	4.02	3.55	4.43	
11	3.85	3.46	4.30	5.67	4.03	6.33	6.08	3.44	4.20	4.00	3.58	4.34	
12	3.96	3.47	4.27	5.47	4.77	5.69	5.86	3.48	4.14	3.97	3.66	4.26	
13	3.39	3.44	4.11	4.68	4.29	4.60	7.25	3.79	4.10	3.94	3.75	4.19	
14	3.69	3.41	3.85	4.21	4.05	4.65	7.35	3.75	4.11	3.92	4.23	4.12	
15	3.93	3.40	3.67	3.79	4.34	5.18	7.00	3.71	4.09	3.90	4.51	4.04	
16	3.80	3.43	3.59	3.56	4.82	5.45	6.83	3.70	3.93	3.87	4.56	3.96	
17	3.87	3.54	3.57	3.44	4.17	4.99	6.06	3.99	4.00	3.84	4.52	4.06	
18	3.89	3.60	3.73	3.37	3.76	4.38	5.18	4.28	4.02	3.82	4.43	4.23	
19	3.73	3.53	3.72	3.36	3.57	4.09	4.62	3.70	3.99	3.80	4.34	4.36	
20	3.75	3.57	3.66	3.32	3.44	4.11	4.26	3.72	3.93	3.77	4.25	4.54	
21	3.79	3.58	3.58	3.28	3.43	4.74	4.15	3.84	3.98	3.75	4.11	4.65	
22	3.79	3.50	3.44	3.28	3.28	4.93	4.15	3.94	4.03	3.76	4.22	4.53	
23	3.78	3.34	3.40	3.38	3.30	4.98	4.00	3.82	4.09	3.80	4.31	4.37	
24	3.91	3.18	3.36	3.49	3.24	4.70	3.90	3.77	4.14	3.83	4.08	4.16	
25	3.87	3.18	3.33	3.53	3.56	4.88	3.75	3.60	4.19	3.84	4.06	4.21	
26	3.86	3.27	3.33	3.66	4.78	6.48	3.65	3.74	4.20	3.84	4.13	4.13	
27	3.84	3.36	3.40	3.52	5.65	6.89	3.60	4.08	4.13	3.82	4.18	4.03	
28	3.80	3.96	3.21	3.36	6.09	6.52	3.56	4.27	4.17	3.82	4.21	3.94	
29	3.62	3.72	3.19	3.33	5.10	5.99	3.56	4.18	4.22	3.83		3.89	
30	4.14	3.50	3.14	3.65	4.30	4.98	3.53	4.06	4.24	3.82		3.89	
31		3.28		3.55	4.40		3.46		4.19	3.82		3.86	
Mean	3.59	3.44	3.57	3.83	3.90	4.93	4.80	3.74	4.02	3.92	4.00	4.22	
Max	4.14	3.96	4.30	5.67	6.09	6.89	7.35	4.28	4.24	4.11	4.56	4.65	7.35
Min	2.94	3.18	3.13	3.04	3.08	3.76	3.46	3.37	3.55	3.75	3.55	3.86	2.94
Annual Max Momentary Gage Height	7.62												at 23.00 Hours, on Oct 13, 2021
Zero Gage at Bottom Elevation	0.00												River Bed -2.20 m. (A.D.)
Left Bank Elevation		7.48											m. (A.D.)
Right Bank Elevation		7.84											Drainage Area 982 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.90	7.10	5.90	30.50	47.00	116.20	122.40	60.50	89.80	101.00	79.40	109.00		
2	1.92	5.90	7.40	29.00	39.80	79.40	120.60	52.10	89.00	101.80	78.70	106.60		
3	0.94	9.20	5.90	31.00	45.20	129.60	97.80	48.20	78.00	101.00	76.60	108.20		
4	0.75	6.20	3.32	37.40	41.00	106.60	113.80	59.10	64.00	100.20	75.20	113.00		
5	0.74	5.30	2.62	47.00	38.00	78.70	89.80	61.20	60.50	100.20	73.10	117.90		
6	0.75	6.80	14.50	68.20	44.60	80.10	180.00	66.80	63.30	98.60	71.70	123.30		
7	1.50	8.60	53.60	176.00	40.40	75.20	206.20	70.30	78.00	97.00	68.20	125.10		
8	2.90	9.20	44.00	197.00	32.00	97.00	128.70	68.20	87.40	96.20	64.70	123.30		
9	7.70	8.60	9.20	206.20	31.00	205.10	173.00	59.10	97.80	95.40	61.20	127.80		
10	17.50	7.70	27.40	199.00	61.20	285.40	350.80	54.90	105.00	94.60	60.50	128.70		
11	29.50	9.80	88.00	255.70	95.40	331.60	301.60	52.80	109.00	93.00	62.60	120.60		
12	38.40	10.10	82.00	233.70	161.00	257.90	276.60	55.60	104.20	90.60	68.20	113.80		
13	7.70	9.20	53.60	152.00	116.20	144.00	442.00	77.30	101.00	88.20	74.50	108.20		
14	20.50	8.30	29.50	109.80	97.00	149.00	454.50	74.50	101.80	86.60	111.40	102.60		
15	35.70	8.00	19.50	77.30	120.60	202.00	412.00	71.70	100.20	85.00	135.90	96.20		
16	26.00	8.90	15.50	61.20	166.00	231.50	391.60	71.00	87.40	82.90	140.40	89.80		
17	30.90	13.00	14.50	52.80	106.60	183.00	299.20	92.20	93.00	80.80	136.80	97.80		
18	32.30	16.00	73.10	48.20	75.20	124.20	202.00	115.40	94.60	79.40	128.70	111.40		
19	22.50	12.50	72.40	47.60	61.90	100.20	146.00	71.00	92.20	78.00	120.60	122.40		
20	23.50	14.50	68.20	45.20	52.80	101.80	113.80	72.40	87.40	75.90	113.00	138.60		
21	25.50	15.00	62.60	42.80	52.10	158.00	105.00	80.80	91.40	74.50	101.80	149.00		
22	25.50	11.00	52.80	42.80	42.80	177.00	105.00	88.20	95.40	75.20	110.60	137.70		
23	25.00	6.20	50.00	48.80	44.00	182.00	93.00	79.40	100.20	78.00	117.90	123.30		
24	33.90	3.32	47.60	56.30	40.40	154.00	85.00	75.90	104.20	80.10	99.40	105.80		
25	30.90	3.32	45.80	59.10	61.20	172.00	74.50	64.00	108.20	80.80	97.80	109.80		
26	30.20	4.58	45.80	68.20	162.00	349.60	67.50	73.80	109.00	80.80	103.40	103.40		
27	28.80	6.80	50.00	58.40	253.50	398.80	64.00	99.40	103.40	79.40	107.40	95.40		
28	26.00	38.40	38.60	47.60	302.80	354.40	61.20	114.60	106.60	79.40	109.80	88.20		
29	17.00	22.00	37.40	45.80	194.00	290.90	61.20	107.40	110.60	80.10		84.30		
30	58.40	11.00	34.40	67.50	117.00	182.00	59.10	97.80	112.20	79.40		84.30		
31		4.72		60.50	126.00		54.20		108.20	79.40		82.20		
Total	605.80	311.24	1155.14	2702.60	2868.70	5497.20	5452.10	2235.60	2933.00	2693.50	2649.50	3447.70	32552.08	CMSDAY
Mean	20.19	10.04	38.50	87.18	92.54	183.24	175.87	74.52	94.61	86.89	94.63	111.22	89.18	CMS
Max	58.40	38.40	88.00	255.70	302.80	398.80	454.50	115.40	112.20	101.80	140.40	149.00	454.50	CMS
Min	0.74	3.32	2.62	29.00	31.00	75.20	54.20	48.20	60.50	74.50	60.50	82.20	0.74	CMS
Runoff	52.34	26.89	99.80	233.50	247.86	474.96	471.06	193.16	253.41	232.72	228.92	297.88	2812.50	MCM
Momentary Peak	489.60	CMS, at 7.62 m. (A.D.), at 23.00 Hours, on Oct 13, 2021												
Runoff Yield	90.82	Liters/Second/Square KM.			Momentary Peak Yield	498.57	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PHETCHABURI - PRACHUAP KHIRI KHAN

## Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)

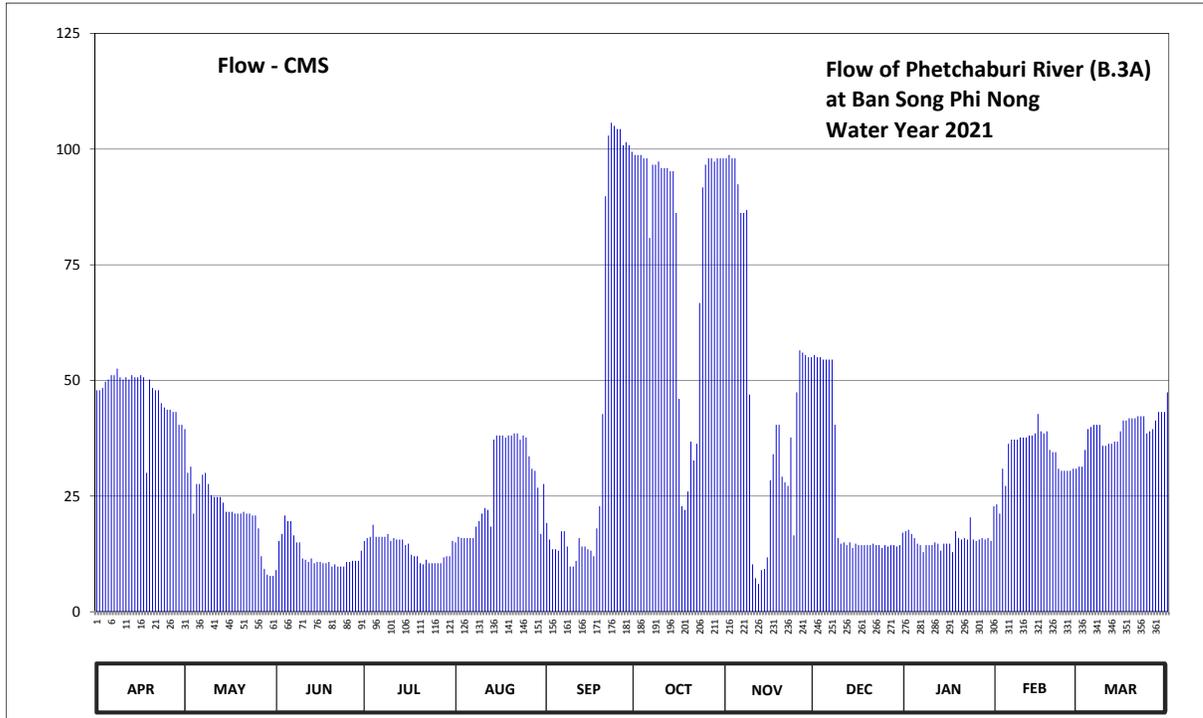
Lat 12 - 51 - 49 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

	<b>Ban</b>	<b>Song Phi Nong</b>	<b>Amphoe</b>	<b>Kaeng Krachan</b>	<b>Changwat</b>	<b>Phetchaburi</b>
<b>Drainage Area</b>	2,226	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+41.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 24 meters from the top staff gage.				<b>Elevation</b>	+49.188 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1930 - 1942 , 1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1954 - 1959 , 1968 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1954 - 1959 , 1968 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow regulated by Kaeng Krachan Reservoir. Stage-discharge relation defined by 34 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.69	42.51	41.68	41.91	41.90	42.03	43.61	43.60	42.85	41.98	42.13	42.33	
2	42.69	42.30	41.91	41.93	41.94	41.92	43.61	43.61	42.84	41.99	42.08	42.33	
3	42.70	42.33	41.96	41.94	41.93	41.85	43.61	43.60	42.84	41.96	42.32	42.41	
4	42.73	42.08	42.07	42.02	41.93	41.85	43.60	43.60	42.83	41.93	42.23	42.51	
5	42.74	42.24	42.04	41.94	41.93	41.84	43.60	43.52	42.83	41.89	42.44	42.52	
6	42.76	42.24	42.04	41.94	41.93	41.98	43.33	43.42	42.83	41.88	42.46	42.53	
7	42.76	42.29	41.95	41.94	41.93	41.98	43.58	43.42	42.83	41.83	42.46	42.53	
8	42.79	42.30	41.90	41.94	42.01	41.87	43.58	43.43	42.53	41.88	42.46	42.53	
9	42.75	42.24	41.90	41.96	42.04	41.71	43.59	42.67	41.93	41.88	42.47	42.43	
10	42.74	42.18	41.78	41.91	42.08	41.71	43.57	41.73	41.89	41.88	42.47	42.43	
11	42.75	42.17	41.77	41.93	42.11	41.76	43.57	41.61	41.90	41.90	42.47	42.44	
12	42.74	42.17	41.75	41.92	42.10	41.93	43.57	41.56	41.88	41.89	42.48	42.44	
13	42.76	42.17	41.78	41.92	42.01	41.87	43.56	41.68	41.90	41.84	42.48	42.45	
14	42.75	42.14	41.74	41.92	42.46	41.87	43.56	41.69	41.86	41.89	42.49	42.45	
15	42.75	42.09	41.75	41.88	42.48	41.85	43.42	41.79	41.89	41.89	42.58	42.50	
16	42.76	42.09	41.75	41.89	42.48	41.84	42.65	42.26	41.88	41.89	42.50	42.55	
17	42.75	42.09	41.74	41.81	42.48	41.80	42.12	42.39	41.88	41.83	42.49	42.55	
18	42.30	42.08	41.74	41.80	42.47	42.00	42.10	42.53	41.88	41.98	42.50	42.56	
19	42.74	42.08	41.75	41.80	42.48	42.12	42.20	42.53	41.88	41.93	42.41	42.56	
20	42.70	42.08	41.71	41.74	42.48	42.58	42.45	42.28	41.88	41.92	42.40	42.56	
21	42.69	42.09	41.73	41.73	42.49	43.48	42.36	42.25	41.89	41.93	42.40	42.57	
22	42.69	42.08	41.71	41.77	42.49	43.67	42.44	42.23	41.88	41.92	42.32	42.57	
23	42.63	42.08	41.71	41.74	42.46	43.71	43.07	42.47	41.88	42.06	42.31	42.57	
24	42.61	42.07	41.71	41.74	42.48	43.70	43.51	41.95	41.86	41.92	42.31	42.49	
25	42.60	42.07	41.75	41.74	42.47	43.69	43.58	42.68	41.88	41.91	42.31	42.50	
26	42.60	42.00	41.75	41.74	42.38	43.69	43.60	42.87	41.87	41.92	42.31	42.51	
27	42.59	41.80	41.76	41.74	42.32	43.64	43.60	42.86	41.88	41.93	42.32	42.55	
28	42.59	41.69	41.76	41.79	42.31	43.65	43.59	42.85	41.88	41.92	42.32	42.59	
29	42.53	41.64	41.76	41.80	42.22	43.64	43.60	42.84	41.87	41.93		42.59	
30	42.53	41.63	41.84	41.80	41.96	43.62	43.60	42.84	41.88	41.91		42.59	
31		41.63		41.91	42.24		43.60		41.97	42.12		42.68	
Mean	42.68	42.09	41.81	41.86	42.23	42.50	43.27	42.63	42.12	41.92	42.39	42.51	
Max	42.79	42.51	42.07	42.02	42.49	43.71	43.61	43.61	42.85	42.12	42.58	42.68	43.71
Min	42.30	41.63	41.68	41.73	41.90	41.71	42.10	41.56	41.86	41.83	42.08	42.33	41.56
Annual Max Momentary Gage Height	43.85		m. (MSL.) ,				at 18.00 Hours , on Sep 21, 2021						
Zero Gage at Bottom Elevation	41.00		m. (MSL.) ,			River Bed	40.49	m. (MSL.)					
Left Bank Elevation		48.52		m. (MSL.) ,									
Right Bank Elevation		48.27		m. (MSL.) ,		Drainage Are	2,226	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.87	39.47	9.00	15.30	15.00	19.20	98.70	98.00	55.50	17.40	23.20	31.35	
2	47.87	30.00	15.30	15.90	16.20	15.60	98.70	98.70	55.00	17.70	21.20	31.35	
3	48.33	31.35	16.80	16.20	15.90	13.50	98.70	98.00	55.00	16.80	30.90	34.95	
4	49.73	21.20	20.80	18.80	15.90	13.50	98.00	98.00	54.50	15.90	27.20	39.47	
5	50.20	27.60	19.60	16.20	15.90	13.20	98.00	92.40	54.50	14.70	36.30	39.93	
6	51.13	27.60	19.60	16.20	15.90	17.40	80.80	86.20	54.50	14.40	37.20	40.40	
7	51.13	29.60	16.50	16.20	15.90	17.40	96.60	86.20	54.50	12.90	37.20	40.40	
8	52.53	30.00	15.00	16.20	18.40	14.10	96.60	86.80	40.40	14.40	37.20	40.40	
9	50.67	27.60	15.00	16.80	19.60	9.75	97.30	46.93	15.90	14.40	37.65	35.85	
10	50.20	25.20	11.50	15.30	21.20	9.75	95.90	10.25	14.70	14.40	37.65	35.85	
11	50.67	24.80	11.25	15.90	22.40	11.00	95.90	7.25	15.00	15.00	37.65	36.30	
12	50.20	24.80	10.75	15.60	22.00	15.90	95.90	6.00	14.40	14.70	38.10	36.30	
13	51.13	24.80	11.50	15.60	18.40	14.10	95.20	9.00	15.00	13.20	38.10	36.75	
14	50.67	23.60	10.50	15.60	37.20	14.10	95.20	9.25	13.80	14.70	38.55	36.75	
15	50.67	21.60	10.75	14.40	38.10	13.50	86.20	11.75	14.70	14.70	42.73	39.00	
16	51.13	21.60	10.75	14.70	38.10	13.20	46.00	28.40	14.40	14.70	39.00	41.33	
17	50.67	21.60	10.50	12.30	38.10	12.00	22.80	34.05	14.40	12.90	38.55	41.33	
18	30.00	21.20	10.50	12.00	37.65	18.00	22.00	40.40	14.40	17.40	39.00	41.80	
19	50.20	21.20	10.75	12.00	38.10	22.80	26.00	40.40	14.40	15.90	34.95	41.80	
20	48.33	21.20	9.75	10.50	38.10	42.73	36.75	29.20	14.40	15.60	34.50	41.80	
21	47.87	21.60	10.25	10.25	38.55	89.80	32.70	28.00	14.70	15.90	34.50	42.27	
22	47.87	21.20	9.75	11.25	38.55	102.90	36.30	27.20	14.40	15.60	30.90	42.27	
23	45.07	21.20	9.75	10.50	37.20	105.70	66.73	37.65	14.40	20.40	30.45	42.27	
24	44.13	20.80	9.75	10.50	38.10	105.00	91.70	16.50	13.80	15.60	30.45	38.55	
25	43.67	20.80	10.75	10.50	37.65	104.30	96.60	47.40	14.40	15.30	30.45	39.00	
26	43.67	18.00	10.75	10.50	33.60	104.30	98.00	56.50	14.10	15.60	30.45	39.47	
27	43.20	12.00	11.00	10.50	30.90	100.80	98.00	56.00	14.40	15.90	30.90	41.33	
28	43.20	9.25	11.00	11.75	30.45	101.50	97.30	55.50	14.40	15.60	30.90	43.20	
29	40.40	8.00	11.00	12.00	26.80	100.80	98.00	55.00	14.10	15.90		43.20	
30	40.40	7.75	13.20	12.00	16.80	99.40	98.00	55.00	14.40	15.30		43.20	
31		7.75		15.30	27.60		98.00		17.10	22.80		47.40	
Total	1422.81	684.37	373.30	426.75	854.25	1335.23	2492.58	1451.93	759.60	485.70	955.83	1225.27	12467.62 CMSDAY
Mean	47.43	22.08	12.44	13.77	27.56	44.51	80.41	48.40	24.50	15.67	34.14	39.52	34.16 CMS
Max	52.53	39.47	20.80	18.80	38.55	105.70	98.70	98.70	55.50	22.80	42.73	47.40	105.70 CMS
Min	30.00	7.75	9.00	10.25	15.00	9.75	22.00	6.00	13.80	12.90	21.20	31.35	6.00 CMS
Runoff	122.93	59.13	32.25	36.87	73.81	115.36	215.36	125.45	65.63	41.96	82.58	105.86	1077.20 MCM
Momentary Peak		115.75	CMS. at 43.85 m. (MSL.)				18.00 Hours						on Sep 21, 2021
Runoff Yield		15.34	Liters/Second/Square KM.				Momentary Peak Yield	52.00					Liters/Second/Square KM.

## WATER YEAR : 2021

## PHETCHABURI - PRACHUAP KHIRI KHAN

Huai Mae Prachan at at Saphan Tha Kewiyn (Ban Wang Chan) , Phetchaburi (B.6A)

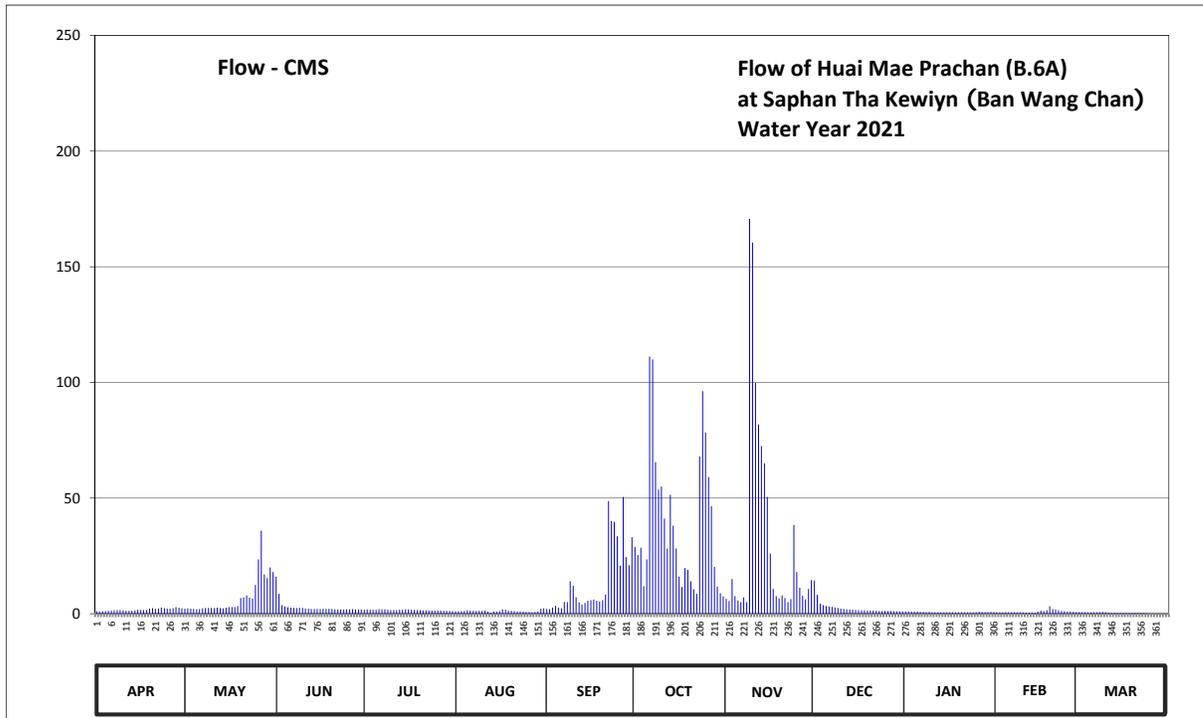
Lat 12 - 57 - 50 N Long 99 - 45 - 52 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet - Kaeng Krachan Reservoir Road.

	<b>Ban</b> Saphan Tha Kewiyn(Ban Wang Chan) <b>Amphoe</b> Kaeng Krachan <b>Changwat</b> Phetchaburi
<b>Drainage Area</b>	969 sq.km.
<b>Type of Gage</b>	Water - stage recorder.
<b>Zero Gage at Bottom</b>	+26.800 m. (MSL.)
<b>Bench Mark</b>	B.M.-H.D.
<b>Location BM</b>	Near the automatic gage buiding. <b>Elevation</b> +37.402 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings
<b>Period of Available Gage Records</b>	2017 to date
<b>Rating Operation</b>	
<b>Period of Rating</b>	2017 to date
<b>Rated by Float</b>	-
<b>Rated by Current Meter</b>	2017 to date
<b>Stability of Channel Regimes</b>	Stable.
<b>Overbank Flow Conditions</b>	No overbank flow.
<b>General Description</b>	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2021.

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

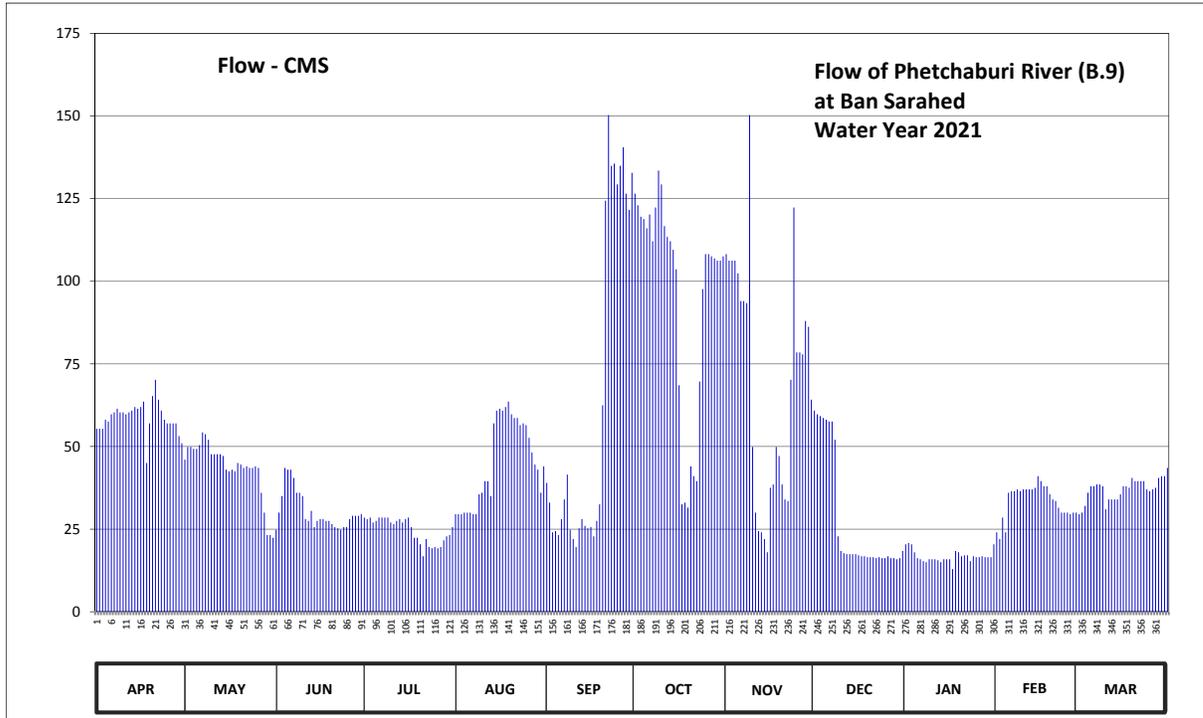
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.37	27.53	28.55	27.47	27.37	27.51	29.04	27.98	28.47	27.36	27.31	27.31	
2	27.35	27.55	28.14	27.48	27.37	27.49	28.93	27.90	28.11	27.36	27.30	27.31	
3	27.37	27.53	27.72	27.47	27.38	27.60	29.03	28.50	27.78	27.35	27.30	27.31	
4	27.38	27.51	27.66	27.46	27.38	27.69	28.34	28.07	27.72	27.35	27.31	27.30	
5	27.40	27.49	27.61	27.46	27.43	27.60	28.86	27.92	27.68	27.35	27.31	27.30	
6	27.41	27.50	27.59	27.50	27.41	27.55	30.71	27.85	27.66	27.33	27.31	27.30	
7	27.44	27.55	27.58	27.49	27.39	27.86	30.69	28.03	27.63	27.33	27.31	27.30	
8	27.44	27.57	27.57	27.49	27.38	27.85	29.92	27.85	27.60	27.31	27.30	27.31	
9	27.44	27.57	27.59	27.46	27.39	28.45	29.67	31.49	27.57	27.33	27.30	27.32	
10	27.42	27.57	27.58	27.44	27.38	28.35	29.70	31.37	27.53	27.31	27.29	27.31	
11	27.40	27.56	27.54	27.44	27.41	28.03	29.39	30.53	27.51	27.30	27.28	27.28	
12	27.39	27.59	27.53	27.44	27.34	27.84	29.02	30.23	27.49	27.30	27.28	27.27	
13	27.40	27.57	27.51	27.47	27.28	27.75	29.62	30.06	27.48	27.30	27.29	27.28	
14	27.42	27.55	27.51	27.46	27.35	27.82	29.30	29.91	27.47	27.30	27.28	27.27	
15	27.46	27.59	27.51	27.49	27.35	27.91	29.02	29.60	27.45	27.30	27.34	27.27	
16	27.45	27.62	27.51	27.48	27.37	27.93	28.55	28.95	27.44	27.30	27.40	27.27	
17	27.44	27.62	27.52	27.46	27.49	27.95	28.32	28.27	27.43	27.30	27.38	27.27	
18	27.45	27.62	27.52	27.45	27.46	27.91	28.71	28.07	27.43	27.30	27.44	27.26	
19	27.53	27.68	27.52	27.44	27.41	27.88	28.68	27.99	27.41	27.30	27.67	27.27	
20	27.56	28.01	27.51	27.44	27.40	27.93	28.45	28.09	27.41	27.30	27.50	27.27	
21	27.51	28.03	27.49	27.42	27.38	28.12	28.26	28.01	27.40	27.30	27.47	27.27	
22	27.54	28.09	27.48	27.42	27.36	29.56	28.14	27.85	27.39	27.30	27.43	27.27	
23	27.60	28.02	27.48	27.41	27.36	29.36	29.97	27.97	27.37	27.30	27.39	27.26	
24	27.56	27.99	27.48	27.41	27.35	29.35	30.47	29.31	27.38	27.30	27.37	27.22	
25	27.53	28.37	27.49	27.41	27.33	29.17	30.17	28.64	27.39	27.31	27.35	27.19	
26	27.53	28.86	27.49	27.41	27.32	28.75	29.79	28.30	27.38	27.33	27.35	27.19	
27	27.56	29.24	27.50	27.41	27.31	29.60	29.51	28.08	27.38	27.32	27.33	27.19	
28	27.62	28.60	27.49	27.40	27.32	28.90	28.73	27.96	27.37	27.31	27.31	27.19	
29	27.59	28.52	27.48	27.40	27.35	28.76	28.33	28.27	27.37	27.32		27.19	
30	27.55	28.72	27.48	27.39	27.52	29.16	28.16	28.48	27.36	27.32		27.19	
31		28.64		27.38	27.55		28.06		27.36	27.32		27.19	
Mean	27.47	27.90	27.59	27.44	27.38	28.25	29.15	28.72	27.53	27.32	27.35	27.26	
Max	27.62	29.24	28.55	27.50	27.55	29.60	30.71	31.49	28.47	27.36	27.67	27.32	31.49
Min	27.35	27.49	27.48	27.38	27.28	27.49	28.06	27.85	27.36	27.30	27.28	27.19	27.19
Annual Max Momentary Gage Height	33.08		m. (MSL.) ,			at 18.00 Hours ,		on Nov 9, 2021					
Zero Gage at Bottom Elevation	26.80		m. (MSL.) ,			River Bed	26.83	m. (MSL.)					
Left Bank Elevation	37.29		m. (MSL.) ,										
Right Bank Elevation	37.22		m. (MSL.) ,			Drainage Are	969	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.09	2.21	16.00	1.79	1.09	2.07	28.90	6.46	14.40	1.02	0.67	0.67	
2	0.95	2.35	8.60	1.86	1.09	1.93	25.40	5.50	8.15	1.02	0.60	0.67	
3	1.09	2.21	3.70	1.79	1.16	2.70	28.55	15.00	4.30	0.95	0.60	0.67	
4	1.16	2.07	3.18	1.72	1.16	3.42	11.92	7.61	3.70	0.95	0.67	0.60	
5	1.30	1.93	2.78	1.72	1.51	2.70	23.50	5.74	3.34	0.95	0.67	0.60	
6	1.37	2.00	2.63	2.00	1.37	2.35	111.15	5.00	3.18	0.81	0.67	0.60	
7	1.58	2.35	2.56	1.93	1.23	5.10	109.85	7.09	2.94	0.81	0.67	0.60	
8	1.58	2.49	2.49	1.93	1.16	5.00	65.50	5.00	2.70	0.67	0.60	0.67	
9	1.58	2.49	2.63	1.72	1.23	14.00	53.65	170.65	2.49	0.81	0.60	0.74	
10	1.44	2.49	2.56	1.58	1.16	12.10	55.00	160.45	2.21	0.67	0.54	0.67	
11	1.30	2.42	2.28	1.58	1.37	7.09	41.15	99.80	2.07	0.60	0.48	0.48	
12	1.23	2.63	2.21	1.58	0.88	4.90	28.20	81.80	1.93	0.60	0.48	0.42	
13	1.30	2.49	2.07	1.79	0.48	4.00	51.40	72.50	1.86	0.60	0.54	0.48	
14	1.44	2.35	2.07	1.72	0.95	4.70	38.00	65.00	1.79	0.60	0.48	0.42	
15	1.72	2.63	2.07	1.93	0.95	5.62	28.20	50.50	1.65	0.60	0.88	0.42	
16	1.65	2.86	2.07	1.86	1.09	5.86	16.00	26.00	1.58	0.60	1.30	0.42	
17	1.58	2.86	2.14	1.72	1.93	6.10	11.56	10.69	1.51	0.60	1.16	0.42	
18	1.65	2.86	2.14	1.65	1.72	5.62	19.75	7.61	1.51	0.60	1.58	0.36	
19	2.21	3.34	2.14	1.58	1.37	5.30	19.00	6.58	1.37	0.60	3.26	0.42	
20	2.42	6.83	2.07	1.58	1.30	5.86	14.00	7.87	1.37	0.60	2.00	0.42	
21	2.07	7.09	1.93	1.44	1.16	8.30	10.52	6.83	1.30	0.60	1.79	0.42	
22	2.28	7.87	1.86	1.44	1.02	48.70	8.60	5.00	1.23	0.60	1.51	0.42	
23	2.70	6.96	1.86	1.37	1.02	40.10	68.00	6.34	1.09	0.60	1.23	0.36	
24	2.42	6.58	1.86	1.37	0.95	39.75	96.20	38.35	1.16	0.60	1.09	0.12	
25	2.21	12.46	1.93	1.37	0.81	33.45	78.35	18.00	1.23	0.67	0.95	0.00	
26	2.21	23.50	1.93	1.37	0.74	20.75	59.05	11.20	1.16	0.81	0.95	0.00	
27	2.42	35.90	2.00	1.37	0.67	50.50	46.45	7.74	1.16	0.74	0.81	0.00	
28	2.86	17.00	1.93	1.30	0.74	24.50	20.25	6.22	1.09	0.67	0.67	0.00	
29	2.63	15.40	1.86	1.30	0.95	21.00	11.74	10.69	1.09	0.74		0.00	
30	2.35	20.00	1.86	1.23	2.14	33.10	8.90	14.60	1.02	0.74		0.00	
31		18.00		1.16	2.35		7.48		1.02	0.74		0.00	
<b>Total</b>	53.79	224.62	87.41	49.75	36.75	426.57	1196.22	941.82	76.60	22.17	27.45	12.07	3155.22 CMSDAY
<b>Mean</b>	1.79	7.25	2.91	1.60	1.19	14.22	38.59	31.39	2.47	0.72	0.98	0.39	8.64 CMS
<b>Max</b>	2.86	35.90	16.00	2.00	2.35	50.50	111.15	170.65	14.40	1.02	3.26	0.74	170.65 CMS
<b>Min</b>	0.95	1.93	1.86	1.16	0.48	1.93	7.48	5.00	1.02	0.60	0.48	0.00	0.00 CMS
<b>Runoff</b>	4.65	19.41	7.55	4.30	3.18	36.86	103.35	81.37	6.62	1.92	2.37	1.04	272.61 MCM
<b>Momentary Peak</b>	325.80 CMS. at 33.08 m. (MSL.) at 18.00 Hours , on Nov 9, 2021												
<b>Runoff Yield</b>	8.93 Liters/Second/Square KM. Momentary Peak Yield 336.40 Liters/Second/Square KM.												





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	55.35	46.00	24.80	28.50	29.50	39.00	126.50	108.20	60.85	20.40	24.00	29.50	
2	55.35	49.85	30.00	28.00	29.50	33.00	123.00	106.25	59.75	20.80	22.00	30.00	
3	55.35	49.85	35.00	28.50	29.50	24.00	119.50	106.25	59.20	20.40	28.50	32.00	
4	58.10	49.30	43.50	27.00	30.00	24.40	118.80	106.25	58.65	18.00	24.00	36.00	
5	57.55	49.30	43.00	27.50	30.00	23.20	116.00	102.40	58.10	16.20	36.00	38.00	
6	59.75	50.40	43.00	28.50	30.00	28.00	120.20	94.00	57.55	15.90	36.50	38.00	
7	60.30	54.25	40.50	28.50	29.50	34.00	112.10	94.00	57.55	15.30	36.50	38.50	
8	61.40	53.70	36.00	28.50	29.50	41.50	122.30	93.40	52.05	15.00	37.00	38.50	
9	60.30	52.05	36.00	28.50	35.50	24.80	133.50	150.30	22.80	15.90	36.50	38.00	
10	60.30	47.65	35.00	27.00	36.00	22.00	129.30	49.85	18.40	15.90	37.00	31.00	
11	59.75	47.65	28.00	26.50	39.50	19.60	116.70	30.00	17.70	15.90	37.00	34.00	
12	60.30	47.65	27.50	27.50	39.50	25.20	113.40	24.40	17.40	15.60	37.00	34.00	
13	60.85	47.65	30.50	28.00	35.00	28.00	112.10	24.00	17.40	15.00	37.00	34.00	
14	61.95	47.10	25.60	27.00	57.00	26.00	109.50	22.00	17.40	15.90	37.50	34.00	
15	61.40	43.00	27.50	28.00	60.85	25.20	103.65	18.00	17.40	15.90	41.00	35.50	
16	61.95	42.50	28.00	28.50	61.40	25.60	68.55	37.50	17.10	15.90	39.50	38.00	
17	63.60	43.00	28.00	25.60	60.85	22.80	32.50	38.50	16.80	12.90	38.00	38.00	
18	45.00	42.50	27.50	22.40	61.95	27.50	33.00	49.85	16.80	18.40	38.00	37.50	
19	57.00	45.00	27.50	22.40	63.60	32.50	31.50	47.10	16.50	18.00	35.50	40.50	
20	65.25	44.50	26.50	20.40	59.75	62.50	44.00	38.50	16.50	16.80	34.00	39.50	
21	70.20	43.50	25.60	16.80	58.65	124.40	41.00	34.00	16.50	17.10	33.50	39.50	
22	64.15	44.00	25.20	22.00	58.65	150.30	39.50	33.50	16.20	17.10	31.50	39.50	
23	60.85	43.50	24.80	19.60	56.45	134.90	69.65	70.20	16.50	15.30	30.00	39.50	
24	58.10	43.50	25.60	19.20	57.00	135.60	97.60	122.30	16.20	16.80	30.00	37.00	
25	57.00	44.00	25.60	19.60	56.45	129.30	108.20	78.45	16.20	16.50	30.00	36.50	
26	57.00	43.50	28.00	19.20	52.60	134.90	108.20	78.45	16.80	16.50	29.50	37.00	
27	57.00	36.00	29.00	19.60	48.20	140.50	107.55	77.90	16.20	16.80	30.00	37.50	
28	57.00	30.00	29.00	21.60	44.50	126.50	106.90	88.00	16.20	16.50	30.00	40.50	
29	53.15	23.20	29.00	22.80	43.00	121.60	106.25	86.20	15.90	16.50		41.00	
30	50.95	23.20	29.50	23.20	36.00	132.80	106.25	64.15	16.20	16.50		41.00	
31		22.40		25.60	44.00		107.55		18.40	20.40		43.50	
Total	1766.20	1349.70	914.70	766.00	1403.90	1919.60	2984.75	2073.90	857.20	520.10	937.00	1147.00	16640.05 CMSDAY
Mean	58.87	43.54	30.49	24.71	45.29	63.99	96.28	69.13	27.65	16.78	33.46	37.00	45.59 CMS
Max	70.20	54.25	43.50	28.50	63.60	150.30	133.50	150.30	60.85	20.80	41.00	43.50	150.30 CMS
Min	45.00	22.40	24.80	16.80	29.50	19.60	31.50	18.00	15.90	12.90	22.00	29.50	12.90 CMS
Runoff	152.60	116.61	79.03	66.18	121.30	165.85	257.88	179.18	74.06	44.94	80.96	99.10	1437.70 MCM
Momentary Peak	197.30	CMS.	at 30.27 m. (MSL.)	at 02.00 Hours	on Nov 24, 2021								
Runoff Yield	17.52	Liters/Second/Square KM.		Momentary Peak Yield	75.83	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PHETCHABURI RIVER BASIN

## Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)

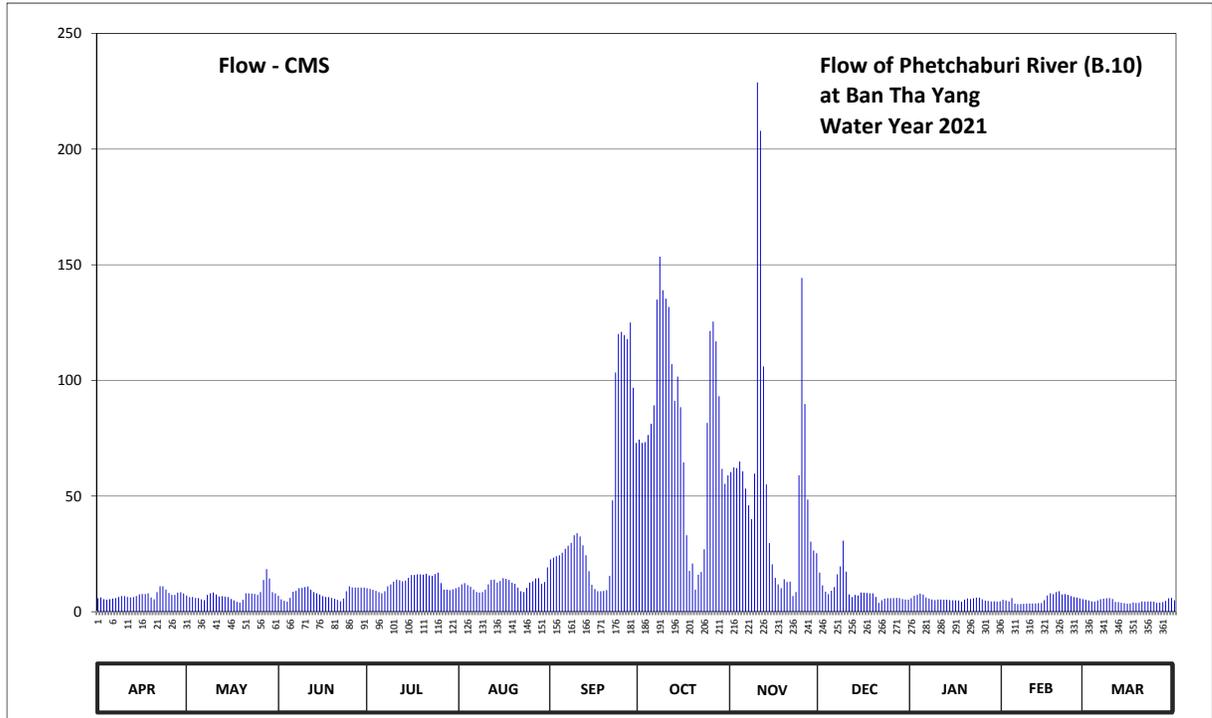
Lat 12 - 58 - 26 N Long 99 - 53 - 16 E

Location : on left bank at the bridge of Ban Tha Yang.

	<b>Ban</b> Tha Yang	<b>Amphoe</b> Tha Yang	<b>Changwat</b> Phetchaburi
<b>Drainage Area</b>	4,057 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+5.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 2 meters from the top staff gage.	<b>Elevation</b>	+16.332 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1985 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1985 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Phet Dam. Stage-discharge relation defined by 42 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.18	6.30	6.29	6.59	6.63	7.38	9.11	8.71	7.06	6.18	6.09	6.09	
2	6.22	6.23	6.12	6.56	6.72	7.42	9.07	8.77	6.69	6.29	6.06	6.06	
3	6.13	6.24	6.04	6.53	6.76	7.45	9.08	8.76	6.46	6.33	6.01	6.01	
4	6.10	6.20	5.99	6.49	6.70	7.47	9.16	8.84	6.36	6.38	6.19	6.00	
5	6.13	6.19	6.20	6.44	6.64	7.52	9.28	8.72	6.50	6.34	5.89	6.06	
6	6.16	6.12	6.46	6.40	6.54	7.59	9.48	8.49	6.63	6.22	5.86	6.13	
7	6.19	6.08	6.49	6.48	6.45	7.64	10.52	8.25	7.01	6.16	5.87	6.15	
8	6.24	6.33	6.59	6.66	6.42	7.69	10.92	8.05	7.23	6.11	5.88	6.18	
9	6.28	6.40	6.60	6.72	6.45	7.82	10.61	8.69	7.73	6.08	5.89	6.19	
10	6.27	6.43	6.63	6.80	6.54	7.85	10.53	12.35	7.09	6.11	5.90	6.14	
11	6.24	6.34	6.65	6.86	6.72	7.80	10.45	12.57	6.35	6.11	5.90	5.98	
12	6.22	6.26	6.54	6.84	6.85	7.65	9.90	10.60	6.23	6.10	5.90	5.97	
13	6.23	6.27	6.45	6.81	6.86	7.47	9.53	8.90	6.33	6.10	5.91	5.93	
14	6.28	6.25	6.40	6.83	6.77	7.10	9.78	7.76	6.30	6.08	5.92	5.91	
15	6.35	6.23	6.34	6.91	6.82	6.71	9.46	7.30	6.43	6.07	6.08	5.89	
16	6.37	6.14	6.27	6.99	6.90	6.56	8.83	6.91	6.42	6.07	6.30	5.90	
17	6.36	6.07	6.24	6.99	6.88	6.48	7.82	6.72	6.41	6.06	6.40	5.95	
18	6.40	5.98	6.23	7.01	6.85	6.48	7.11	6.61	6.40	5.99	6.36	5.92	
19	6.22	5.94	6.20	7.01	6.77	6.49	7.29	6.87	6.40	6.10	6.45	5.93	
20	6.12	6.09	6.15	7.00	6.74	6.52	6.54	6.79	6.24	6.17	6.48	6.01	
21	6.44	6.40	6.09	7.03	6.61	6.97	7.00	6.80	5.93	6.14	6.35	6.00	
22	6.66	6.40	6.02	6.98	6.48	8.32	7.08	6.28	6.07	6.18	6.36	6.01	
23	6.66	6.38	6.16	6.97	6.45	9.82	7.58	6.45	6.15	6.21	6.33	6.01	
24	6.54	6.37	6.48	7.02	6.60	10.19	9.29	9.06	6.18	6.21	6.27	6.00	
25	6.41	6.33	6.66	7.06	6.77	10.21	10.22	11.52	6.18	6.12	6.23	5.93	
26	6.33	6.45	6.62	6.76	6.81	10.18	10.31	10.11	6.19	6.05	6.21	5.94	
27	6.33	6.85	6.61	6.54	6.89	10.14	10.12	8.64	6.20	6.03	6.17	5.97	
28	6.42	7.16	6.61	6.54	6.90	10.30	9.58	7.79	6.19	6.01	6.13	6.03	
29	6.44	6.89	6.61	6.52	6.74	9.67	8.75	7.60	6.14	6.02	6.18	6.18	
30	6.39	6.44	6.61	6.55	6.79	9.07	8.56	7.54	6.11	6.00	6.20	6.20	
31		6.39		6.59	7.21		8.67		6.10	6.02	6.07	6.07	
Mean	6.31	6.33	6.38	6.76	6.72	8.00	9.08	8.41	6.44	6.13	6.12	6.02	
Max	6.66	7.16	6.66	7.06	7.21	10.30	10.92	12.57	7.73	6.38	6.48	6.20	12.57
Min	6.10	5.94	5.99	6.40	6.42	6.48	6.54	6.28	5.93	5.99	5.86	5.89	5.86
Annual Max Momentary Gage Height	13.18		m. (MSL.) ,			at 24.00 Hours ,	on Nov 10, 2021						
Zero Gage at Bottom Elevation	5.40		m. (MSL.) ,			River Bed	4.92	m. (MSL.)					
Left Bank Elevation	14.96		m. (MSL.) ,										
Right Bank Elevation	14.90		m. (MSL.) ,			Drainage Are	4,057	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.84	7.00	6.90	10.18	10.66	22.60	74.40	60.35	16.90	5.84	5.12	5.12	
2	6.20	6.30	5.36	9.82	11.80	23.40	72.95	62.45	11.38	6.90	4.88	4.88	
3	5.44	6.40	4.72	9.46	12.40	24.00	73.30	62.10	8.66	7.30	4.48	4.48	
4	5.20	6.00	4.32	8.99	11.50	24.40	76.40	64.90	7.60	7.80	5.92	4.40	
5	5.44	5.92	6.00	8.44	10.78	25.50	81.20	60.70	9.10	7.40	3.52	4.88	
6	5.68	5.36	8.66	8.00	9.58	27.25	89.20	53.20	10.66	6.20	3.28	5.44	
7	5.92	5.04	8.99	8.88	8.55	28.50	134.90	46.00	16.15	5.68	3.36	5.60	
8	6.40	7.30	10.18	11.02	8.22	29.75	153.50	40.00	19.60	5.28	3.44	5.84	
9	6.80	8.00	10.30	11.80	8.55	33.10	138.95	59.65	30.75	5.04	3.52	5.92	
10	6.70	8.33	10.66	13.00	9.58	34.00	135.35	228.75	17.35	5.28	3.60	5.52	
11	6.40	7.40	10.90	13.90	11.80	32.50	131.75	207.90	7.50	5.28	3.60	4.24	
12	6.20	6.60	9.58	13.60	13.75	28.75	107.00	106.00	6.30	5.20	3.60	4.16	
13	6.30	6.70	8.55	13.15	13.90	24.40	91.20	55.00	7.30	5.20	3.68	3.84	
14	6.80	6.50	8.00	13.45	12.55	17.50	101.60	29.70	7.00	5.04	3.76	3.68	
15	7.50	6.30	7.40	14.65	13.30	11.65	88.40	20.50	8.33	4.96	5.04	3.52	
16	7.70	5.52	6.70	15.85	14.50	9.82	64.55	14.65	8.22	4.96	7.00	3.60	
17	7.60	4.96	6.40	15.85	14.20	8.88	33.10	11.80	8.11	4.88	8.00	4.00	
18	8.00	4.24	6.30	16.15	13.75	8.88	17.65	10.15	8.00	4.32	7.60	3.76	
19	6.20	3.92	6.00	16.15	12.55	8.99	20.80	14.05	8.00	5.20	8.55	3.84	
20	5.36	5.12	5.60	16.00	12.10	9.34	9.58	12.85	6.40	5.76	8.88	4.48	
21	8.44	8.00	5.12	16.45	10.42	15.55	16.00	13.00	3.84	5.52	7.50	4.40	
22	11.02	8.00	4.56	15.70	8.88	48.10	17.20	6.80	4.96	5.84	7.60	4.48	
23	11.02	7.80	5.68	15.55	8.55	103.40	27.00	8.50	5.60	6.10	7.30	4.48	
24	9.58	7.70	8.88	16.30	10.30	120.05	81.60	59.00	5.84	6.10	6.70	4.40	
25	8.11	7.30	11.02	16.90	12.55	120.95	121.40	144.30	5.84	5.36	6.30	3.84	
26	7.30	8.55	10.54	12.40	13.15	119.60	125.45	89.80	5.92	4.80	6.10	3.92	
27	7.30	13.75	10.42	9.58	14.35	117.80	116.90	48.50	6.00	4.64	5.76	4.16	
28	8.22	18.40	10.42	9.58	14.50	125.00	93.20	30.30	5.92	4.48	5.44	4.64	
29	8.44	14.35	10.42	9.34	12.10	96.80	61.75	26.50	5.52	4.56		5.84	
30	7.90	8.44	10.42	9.70	12.85	72.95	55.30	25.30	5.28	4.40		6.00	
31		7.90		10.18	19.20		58.95		5.20	4.56		4.96	
<b>Total</b>	<b>215.01</b>	<b>233.10</b>	<b>239.00</b>	<b>390.02</b>	<b>370.87</b>	<b>1373.41</b>	<b>2470.53</b>	<b>1672.70</b>	<b>283.23</b>	<b>169.88</b>	<b>153.53</b>	<b>142.32</b>	<b>7713.60</b> CMSDAY
<b>Mean</b>	<b>7.17</b>	<b>7.52</b>	<b>7.97</b>	<b>12.58</b>	<b>11.96</b>	<b>45.78</b>	<b>79.69</b>	<b>55.76</b>	<b>9.14</b>	<b>5.48</b>	<b>5.48</b>	<b>4.59</b>	<b>21.13</b> CMS
<b>Max</b>	<b>11.02</b>	<b>18.40</b>	<b>11.02</b>	<b>16.90</b>	<b>19.20</b>	<b>125.00</b>	<b>153.50</b>	<b>228.75</b>	<b>30.75</b>	<b>7.80</b>	<b>8.88</b>	<b>6.00</b>	<b>228.75</b> CMS
<b>Min</b>	<b>5.20</b>	<b>3.92</b>	<b>4.32</b>	<b>8.00</b>	<b>8.22</b>	<b>8.88</b>	<b>9.58</b>	<b>6.80</b>	<b>3.84</b>	<b>4.32</b>	<b>3.28</b>	<b>3.52</b>	<b>3.28</b> CMS
<b>Runoff</b>	<b>18.58</b>	<b>20.14</b>	<b>20.65</b>	<b>33.70</b>	<b>32.04</b>	<b>118.66</b>	<b>213.45</b>	<b>144.52</b>	<b>24.47</b>	<b>14.68</b>	<b>13.26</b>	<b>12.30</b>	<b>666.46</b> MCM
<b>Momentary Peak</b>	<b>274.40</b>	<b>CMS.</b>	<b>at 13.18 m. (MSL.)</b>	<b>at 24.00 Hours</b>	<b>on Nov 10, 2021</b>								
<b>Runoff Yield</b>	<b>5.21</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>67.64</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)

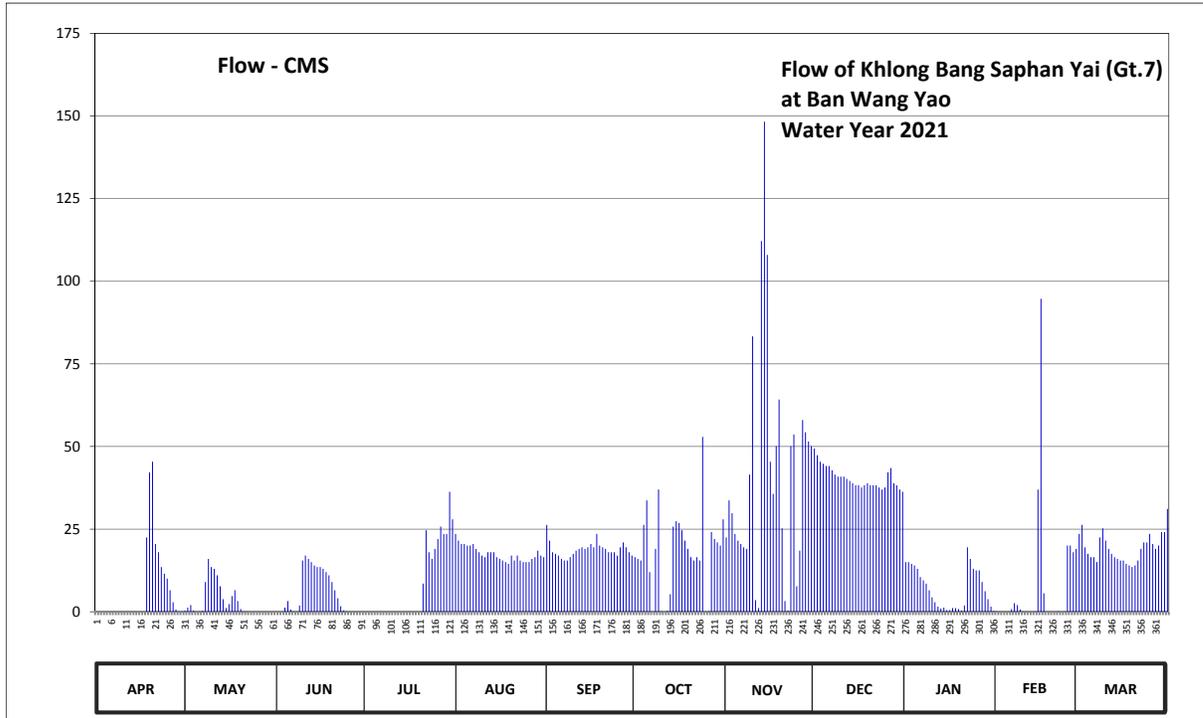
Lat 11 - 14 - 27 N Long 99 - 26 - 10 E

Location : on left bank near the bridge of Phet Kasem Highway at Ban Wang Yao.

	<b>Ban Wang Yao</b>	<b>Amphoe</b> Bang Saphan	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	351 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+11.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	on left bank at the abutment of the bridge.	<b>Elevation</b>	+19.908 m. (MSL.)
<b>Gage Reading Frequency</b>	Recordings.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1978 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by the concrete weir about 2 kilometer downstream from the gage site. Stage-discharge relation defined by 9 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.02	13.07	12.73	12.55	13.71	13.76	13.57	13.69	14.12	13.54	12.94	13.71	
2	11.97	13.15	12.76	12.52	13.67	13.67	13.56	13.88	14.09	13.54	12.91	13.76	
3	11.95	13.20	12.86	12.50	13.65	13.60	13.55	13.82	14.06	13.53	12.83	13.63	
4	11.91	13.07	13.15	12.48	13.65	13.59	13.76	13.71	14.05	13.52	12.81	13.59	
5	11.92	12.88	13.24	12.45	13.64	13.58	13.88	13.67	14.04	13.50	12.87	13.57	
6	12.13	12.95	13.11	12.43	13.64	13.56	13.48	13.65	14.04	13.45	13.12	13.57	
7	12.36	13.06	12.99	12.42	13.65	13.55	12.95	13.63	14.02	13.43	13.22	13.54	
8	12.46	13.42	12.92	12.42	13.62	13.55	13.62	13.62	14.00	13.41	13.20	13.69	
9	12.60	13.56	13.19	12.42	13.60	13.57	13.93	14.00	13.99	13.35	13.11	13.74	
10	12.68	13.51	13.55	12.46	13.58	13.59	12.95	14.54	13.99	13.28	13.00	13.67	
11	12.72	13.50	13.58	12.59	13.57	13.61	12.73	13.25	13.99	13.23	12.91	13.62	
12	12.76	13.46	13.56	12.73	13.60	13.62	13.05	13.14	13.98	13.17	12.85	13.59	
13	12.76	13.39	13.54	12.73	13.60	13.63	13.31	14.83	13.97	13.13	12.80	13.57	
14	12.76	13.26	13.52	12.70	13.60	13.62	13.75	15.15	13.96	13.15	12.98	13.56	
15	12.75	13.14	13.51	12.70	13.57	13.63	13.78	14.79	13.95	13.09	13.93	13.55	
16	12.74	13.21	13.51	12.67	13.56	13.65	13.77	14.06	13.95	13.10	14.66	13.55	
17	12.74	13.29	13.50	12.63	13.55	13.63	13.73	13.91	13.94	13.14	13.32	13.53	
18	13.69	13.35	13.48	12.61	13.54	13.71	13.67	14.13	13.95	13.14	12.72	13.52	
19	14.01	13.24	13.46	12.64	13.53	13.64	13.62	14.32	13.96	13.12	12.64	13.51	
20	14.06	13.12	13.42	12.76	13.58	13.63	13.57	13.74	13.95	13.07	12.47	13.52	
21	13.65	12.97	13.35	13.41	13.55	13.62	13.55	13.24	13.95	13.19	12.43	13.55	
22	13.60	12.87	13.27	13.73	13.58	13.60	13.57	13.07	13.95	13.63	13.01	13.62	
23	13.51	12.81	13.18	13.60	13.55	13.60	13.55	14.13	13.94	13.56	12.46	13.66	
24	13.47	12.79	13.08	13.56	13.54	13.60	14.17	14.18	13.93	13.50	12.87	13.66	
25	13.44	12.53	12.97	13.62	13.54	13.58	13.00	13.39	13.94	13.49	13.64	13.71	
26	13.35	11.88	12.87	13.68	13.54	13.63	13.02	13.61	14.01	13.49	13.64	13.65	
27	13.23	11.88	12.82	13.75	13.56	13.66	13.72	14.24	14.03	13.42	13.60	13.62	
28	13.11	12.08	12.73	13.71	13.57	13.63	13.68	14.19	13.96	13.34	13.62	13.64	
29	12.99	12.42	12.65	13.71	13.61	13.60	13.66	14.15	13.95	13.26		13.72	
30	13.01	12.57	12.59	13.92	13.58	13.58	13.64	14.13	13.93	13.17		13.72	
31		12.62		13.79	13.57		13.79		13.92	13.05		13.84	
Mean	12.88	12.98	13.17	12.96	13.59	13.62	13.53	13.93	13.98	13.32	13.09	13.63	
Max	14.06	13.56	13.58	13.92	13.71	13.76	14.17	15.15	14.12	13.63	14.66	13.84	15.15
Min	11.91	11.88	12.59	12.42	13.53	13.55	12.73	13.07	13.92	13.05	12.43	13.51	11.88
Annual Max Momentary Gage Height	16.21	m. (MSL.) ,		at 18.00 Hours , on Feb 16, 2021									
Zero Gage at Bottom Elevation	11.80	m. (MSL.) ,		River Bed 9.85 m. (MSL.)									
Left Bank Elevation	16.64	m. (MSL.) ,											
Right Bank Elevation	18.91	m. (MSL.) ,		Drainage Are 351 Square Kilometers									



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.38	0.00	0.00	23.55	26.30	16.50	22.50	49.40	15.00	0.07	23.55		
2	0.00	1.25	0.00	0.00	21.50	21.50	16.00	33.70	47.35	15.00	0.06	26.30		
3	0.00	2.00	0.03	0.00	20.50	18.00	15.50	29.80	45.40	14.50	0.02	19.50		
4	0.00	0.38	1.25	0.00	20.50	17.50	26.30	23.55	44.75	14.00	0.01	17.50		
5	0.00	0.04	3.20	0.00	20.00	17.00	33.70	21.50	44.10	13.00	0.04	16.50		
6	0.00	0.08	0.65	0.00	20.00	16.00	12.00	20.50	44.10	10.50	0.80	16.50		
7	0.00	0.34	0.10	0.00	20.50	15.50	0.08	19.50	42.80	9.50	2.60	15.00		
8	0.00	9.00	0.06	0.00	19.00	15.50	19.00	19.00	41.50	8.50	2.00	22.50		
9	0.00	16.00	1.85	0.00	18.00	16.50	36.95	41.50	40.85	6.50	0.65	25.20		
10	0.00	13.50	15.50	0.00	17.00	17.50	0.08	83.30	40.85	4.40	0.10	21.50		
11	0.00	13.00	17.00	0.00	16.50	18.50	0.00	3.50	40.85	2.90	0.06	19.00		
12	0.00	11.00	16.00	0.00	18.00	19.00	0.30	1.10	40.20	1.55	0.03	17.50		
13	0.00	7.70	15.00	0.00	18.00	19.50	5.30	112.15	39.55	0.95	0.00	16.50		
14	0.00	3.80	14.00	0.00	18.00	19.00	25.75	148.25	38.90	1.25	0.09	16.00		
15	0.00	1.10	13.50	0.00	16.50	19.50	27.40	107.95	38.25	0.46	36.95	15.50		
16	0.00	2.30	13.50	0.00	16.00	20.50	26.85	45.40	38.25	0.50	94.70	15.50		
17	0.00	4.70	13.00	0.00	15.50	19.50	24.65	35.65	37.60	1.10	5.60	14.50		
18	22.50	6.50	12.00	0.00	15.00	23.55	21.50	50.10	38.25	1.10	0.00	14.00		
19	42.15	3.20	11.00	0.00	14.50	20.00	19.00	64.20	38.90	0.80	0.00	13.50		
20	45.40	0.80	9.00	0.00	17.00	19.50	16.50	25.20	38.25	0.38	0.00	14.00		
21	20.50	0.09	6.50	8.50	15.50	19.00	15.50	3.20	38.25	1.85	0.00	15.50		
22	18.00	0.04	4.10	24.65	17.00	18.00	16.50	0.38	38.25	19.50	0.14	19.00		
23	13.50	0.01	1.70	18.00	15.50	18.00	15.50	50.10	37.60	16.00	0.00	21.00		
24	11.50	0.00	0.42	16.00	15.00	18.00	52.90	53.60	36.95	13.00	0.04	21.00		
25	10.00	0.00	0.09	19.00	15.00	17.00	0.10	7.70	37.60	12.50	20.00	23.55		
26	6.50	0.00	0.04	22.00	15.00	19.50	0.18	18.50	42.15	12.50	20.00	20.50		
27	2.90	0.00	0.01	25.75	16.00	21.00	24.10	58.00	43.45	9.00	18.00	19.00		
28	0.65	0.00	0.00	23.55	16.50	19.50	22.00	54.30	38.90	6.20	19.00	20.00		
29	0.10	0.00	0.00	23.55	18.50	18.00	21.00	51.50	38.25	3.80		24.10		
30	0.14	0.00	0.00	36.30	17.00	17.00	20.00	50.10	36.95	1.55		24.10		
31		0.00		27.95	16.50		27.95		36.30	0.30		31.10		
<b>Total</b>	<b>193.84</b>	<b>97.21</b>	<b>169.50</b>	<b>245.25</b>	<b>543.05</b>	<b>564.85</b>	<b>559.09</b>	<b>1255.73</b>	<b>1254.75</b>	<b>218.09</b>	<b>220.96</b>	<b>598.90</b>	<b>5921.22</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>6.46</b>	<b>3.14</b>	<b>5.65</b>	<b>7.91</b>	<b>17.52</b>	<b>18.83</b>	<b>18.04</b>	<b>41.86</b>	<b>40.48</b>	<b>7.04</b>	<b>7.89</b>	<b>19.32</b>	<b>16.22</b>	<b>CMS</b>
<b>Max</b>	<b>45.40</b>	<b>16.00</b>	<b>17.00</b>	<b>36.30</b>	<b>23.55</b>	<b>26.30</b>	<b>52.90</b>	<b>148.25</b>	<b>49.40</b>	<b>19.50</b>	<b>94.70</b>	<b>31.10</b>	<b>148.25</b>	<b>CMS</b>
<b>Min</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>14.50</b>	<b>15.50</b>	<b>0.00</b>	<b>0.38</b>	<b>36.30</b>	<b>0.30</b>	<b>0.00</b>	<b>13.50</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>16.75</b>	<b>8.40</b>	<b>14.64</b>	<b>21.19</b>	<b>46.92</b>	<b>48.80</b>	<b>48.31</b>	<b>108.50</b>	<b>108.41</b>	<b>18.84</b>	<b>19.09</b>	<b>51.74</b>	<b>511.59</b>	<b>MCM</b>
<b>Momentary Peak</b>	289.45 CMS. at 16.21 m. (MSL.) at 18.00 Hours , on Feb 16, 2021													
<b>Runoff Yield</b>	46.22 Liters/Second/Square KM.			<b>Momentary Peak Yield</b> 824.64 Liters/Second/Square KM.										

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Khlong Khanan at Ban Thung Chuak, Prachuap Khiri Khan (Gt.7B)

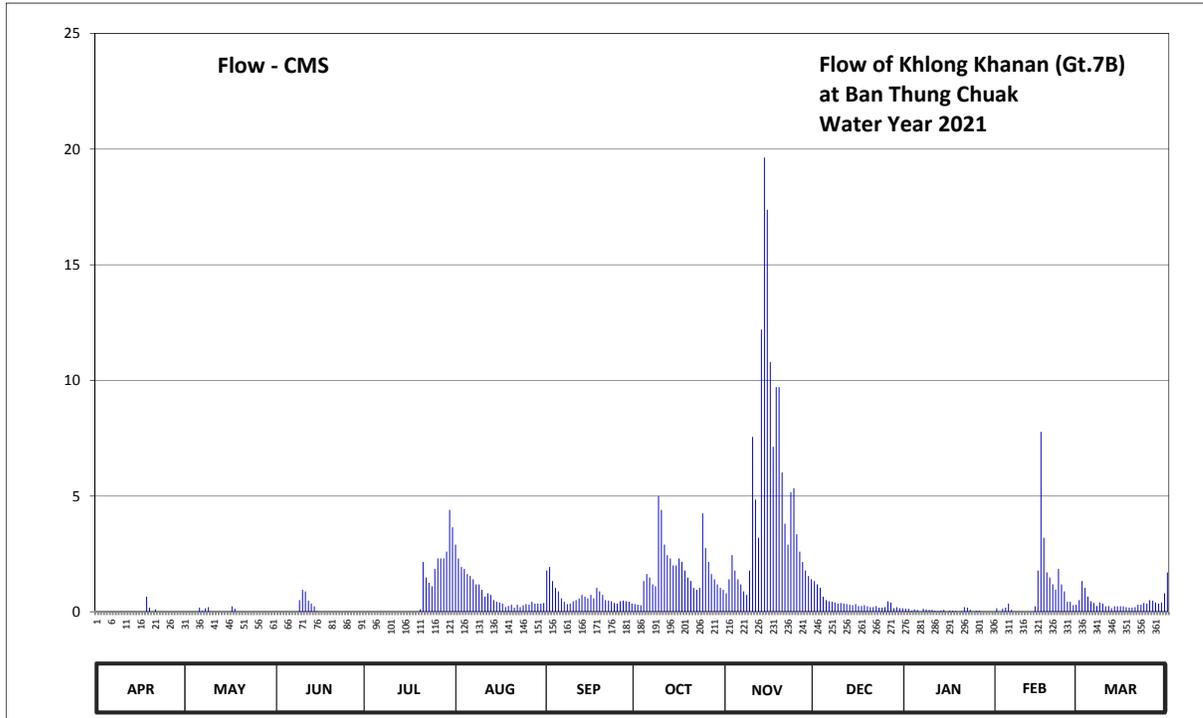
Lat 11 - 14 - 36 N Long 99 - 26 - 14 E

Location : on left bank near the bridge .

	<b>Ban Thung Chuak</b>	<b>Amphoe</b> Bang Saphan	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	38 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+23.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	on left bank at the abutment of the bridge.	<b>Elevation</b>	+30.676 m. (MSL.)
<b>Gage Reading Frequency</b>	Recordings.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2021 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2021 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2021 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by the concrete weir about 2 kilometer downstream from the gage site. Stage-discharge relation defined by 18 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.76	24.97	24.92	24.76	25.46	25.37	25.13	25.24	25.31	25.05	25.06	25.20	
2	24.75	24.98	24.92	24.76	25.42	25.39	25.12	25.32	25.29	25.05	24.99	25.31	
3	24.75	24.91	24.91	24.75	25.39	25.31	25.11	25.43	25.27	25.02	25.05	25.27	
4	24.75	24.88	24.92	24.75	25.38	25.27	25.31	25.37	25.22	25.04	25.07	25.22	
5	24.83	24.92	24.91	24.83	25.35	25.25	25.35	25.32	25.20	25.03	25.14	25.18	
6	24.87	25.07	24.91	24.87	25.34	25.21	25.33	25.29	25.18	24.99	25.03	25.15	
7	24.87	25.02	24.92	24.87	25.32	25.17	25.29	25.25	25.17	25.05	24.99	25.10	
8	24.87	25.06	24.97	24.87	25.29	25.13	25.28	25.23	25.16	25.04	24.98	25.16	
9	24.86	25.08	25.20	24.87	25.29	25.14	25.60	25.37	25.14	25.03	24.96	25.14	
10	24.86	25.00	25.26	24.86	25.26	25.18	25.56	25.74	25.15	25.03	24.97	25.09	
11	24.87	24.99	25.25	24.98	25.22	25.20	25.46	25.59	25.14	25.02	24.98	25.10	
12	24.86	24.89	25.19	24.96	25.24	25.21	25.43	25.48	25.13	25.01	24.97	25.06	
13	24.86	24.87	25.14	24.90	25.23	25.23	25.42	25.94	25.12	25.02	24.98	25.09	
14	24.86	24.92	25.09	24.90	25.20	25.22	25.40	26.17	25.11	25.03	25.09	25.09	
15	24.86	24.89	25.01	24.91	25.17	25.21	25.40	26.11	25.13	25.00	25.37	25.09	
16	24.86	25.00	24.96	24.85	25.16	25.23	25.42	25.89	25.10	25.02	25.75	25.09	
17	24.98	25.09	24.95	24.87	25.14	25.21	25.41	25.72	25.10	25.02	25.48	25.08	
18	25.22	25.05	24.95	24.89	25.08	25.27	25.37	25.84	25.11	25.01	25.36	25.07	
19	25.07	24.96	24.92	24.97	25.10	25.25	25.33	25.84	25.09	24.99	25.33	25.07	
20	25.00	24.95	24.90	25.04	25.12	25.23	25.31	25.66	25.08	25.01	25.29	25.08	
21	25.04	24.87	24.89	25.41	25.07	25.20	25.27	25.52	25.08	25.08	25.26	25.12	
22	24.97	24.86	24.89	25.33	25.12	25.19	25.26	25.46	25.10	25.07	25.38	25.12	
23	24.92	24.92	24.88	25.30	25.08	25.18	25.27	25.61	25.07	25.03	25.29	25.15	
24	24.91	24.93	24.89	25.28	25.11	25.15	25.55	25.62	25.07	25.00	25.25	25.14	
25	24.91	24.93	24.90	25.38	25.13	25.14	25.45	25.49	25.08	25.02	25.17	25.20	
26	24.88	24.96	24.88	25.42	25.12	25.18	25.41	25.44	25.18	25.02	25.17	25.19	
27	24.87	24.98	24.84	25.42	25.17	25.19	25.35	25.41	25.16	24.96	25.11	25.16	
28	24.87	24.98	24.86	25.42	25.14	25.18	25.32	25.37	25.06	24.94	25.12	25.14	
29	24.87	24.98	24.86	25.44	25.14	25.17	25.29	25.34	25.08	24.93		25.16	
30	24.87	24.98	24.85	25.56	25.14	25.14	25.27	25.32	25.06	24.91		25.24	
31		24.98		25.51	25.15		25.26		25.06	24.97		25.36	
Mean	24.89	24.96	24.96	25.06	25.21	25.21	25.35	25.55	25.14	25.01	25.16	25.15	
Max	25.22	25.09	25.26	25.56	25.46	25.39	25.60	26.17	25.31	25.08	25.75	25.36	26.17
Min	24.75	24.86	24.84	24.75	25.07	25.13	25.11	25.23	25.06	24.91	24.96	25.06	24.75
Annual Max Momentary Gage Height	26.60		m. (MSL.) ,				at 15.00 Hours ,						on Feb 16, 2021
Zero Gage at Bottom Elevation	23.70		m. (MSL.) ,			River Bed	24.52	m. (MSL.)					
Left Bank Elevation		30.57		m. (MSL.) ,									
Right Bank Elevation		28.30		m. (MSL.) ,		Drainage Are	38	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	2.90	1.78	0.33	0.80	1.33	0.13	0.15	0.50	
2	0.00	0.00	0.00	0.00	2.30	1.93	0.30	1.40	1.18	0.13	0.00	1.33	
3	0.00	0.00	0.00	0.00	1.93	1.33	0.28	2.45	1.03	0.05	0.13	1.03	
4	0.00	0.00	0.00	0.00	1.85	1.03	1.33	1.78	0.65	0.10	0.18	0.65	
5	0.00	0.00	0.00	0.00	1.63	0.88	1.63	1.40	0.50	0.08	0.35	0.45	
6	0.00	0.18	0.00	0.00	1.55	0.58	1.48	1.18	0.45	0.00	0.08	0.38	
7	0.00	0.05	0.00	0.00	1.40	0.43	1.18	0.88	0.43	0.13	0.00	0.25	
8	0.00	0.15	0.00	0.00	1.18	0.33	1.10	0.73	0.40	0.10	0.00	0.40	
9	0.00	0.20	0.50	0.00	1.18	0.35	5.00	1.78	0.35	0.08	0.00	0.35	
10	0.00	0.00	0.95	0.00	0.95	0.45	4.40	7.56	0.38	0.08	0.00	0.23	
11	0.00	0.00	0.88	0.00	0.65	0.50	2.90	4.85	0.35	0.05	0.00	0.25	
12	0.00	0.00	0.48	0.00	0.80	0.58	2.45	3.20	0.33	0.03	0.00	0.15	
13	0.00	0.00	0.35	0.00	0.73	0.73	2.30	12.20	0.30	0.05	0.00	0.23	
14	0.00	0.00	0.23	0.00	0.50	0.65	2.00	19.63	0.28	0.08	0.23	0.23	
15	0.00	0.00	0.03	0.00	0.43	0.58	2.00	17.38	0.33	0.00	1.78	0.23	
16	0.00	0.00	0.00	0.00	0.40	0.73	2.30	10.79	0.25	0.05	7.78	0.23	
17	0.00	0.23	0.00	0.00	0.35	0.58	2.15	7.13	0.25	0.05	3.20	0.20	
18	0.65	0.13	0.00	0.00	0.20	1.03	1.78	9.71	0.28	0.03	1.70	0.18	
19	0.18	0.00	0.00	0.00	0.25	0.88	1.48	9.71	0.23	0.00	1.48	0.18	
20	0.00	0.00	0.00	0.10	0.30	0.73	1.33	6.02	0.20	0.03	1.18	0.20	
21	0.10	0.00	0.00	2.15	0.18	0.50	1.03	3.80	0.20	0.20	0.95	0.30	
22	0.00	0.00	0.00	1.48	0.30	0.48	0.95	2.90	0.25	0.18	1.85	0.30	
23	0.00	0.00	0.00	1.25	0.20	0.45	1.03	5.17	0.18	0.08	1.18	0.38	
24	0.00	0.00	0.00	1.10	0.28	0.38	4.25	5.34	0.18	0.00	0.88	0.35	
25	0.00	0.00	0.00	1.85	0.33	0.35	2.75	3.35	0.20	0.05	0.43	0.50	
26	0.00	0.00	0.00	2.30	0.30	0.45	2.15	2.60	0.45	0.05	0.43	0.48	
27	0.00	0.00	0.00	2.30	0.43	0.48	1.63	2.15	0.40	0.00	0.28	0.40	
28	0.00	0.00	0.00	2.30	0.35	0.45	1.40	1.78	0.15	0.00	0.30	0.35	
29	0.00	0.00	0.00	2.60	0.35	0.43	1.18	1.55	0.20	0.00	0.00	0.40	
30	0.00	0.00	0.00	4.40	0.35	0.35	1.03	1.40	0.15	0.00	0.00	0.80	
31	0.00	0.00	0.00	3.65	0.38	0.00	0.95	0.00	0.15	0.00	0.00	1.70	
Total	0.93	0.94	3.42	25.48	24.93	20.40	56.07	150.62	12.01	1.81	24.54	13.61	334.76 CMSDAY
Mean	0.03	0.03	0.11	0.82	0.80	0.68	1.81	5.02	0.39	0.06	0.88	0.44	0.92 CMS
Max	0.65	0.23	0.95	4.40	2.90	1.93	5.00	19.63	1.33	0.20	7.78	1.70	19.63 CMS
Min	0.00	0.00	0.00	0.00	0.18	0.33	0.28	0.73	0.15	0.00	0.00	0.15	0.00 CMS
Runoff	0.08	0.08	0.30	2.20	2.15	1.76	4.84	13.01	1.04	0.16	2.12	1.18	28.92 MCM
Momentary Peak	41.83	CMS. at 26.60 m. (MSL.) at 15.00 Hours , on Feb 16, 2021											
Runoff Yield	24.14	Liters/Second/Square KM. Momentary Peak Yield 1100.79 Liters/Second/Square KM.											

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

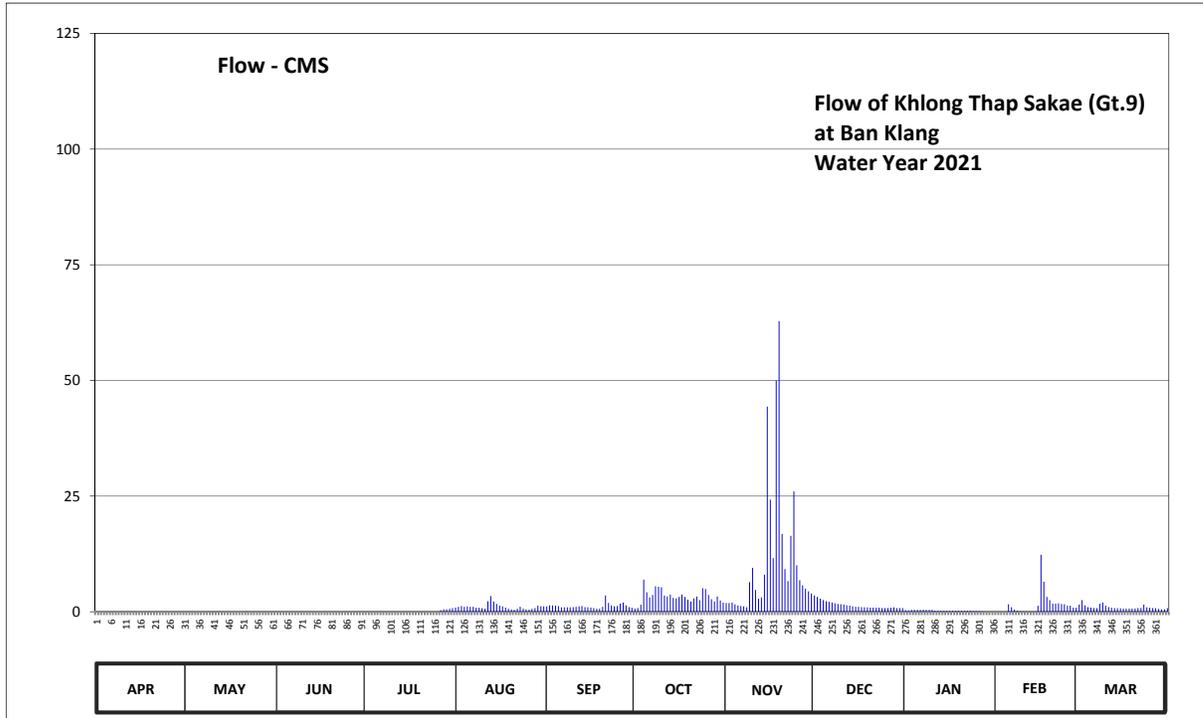
Lat 11 - 29 - 48 N Long 99 - 36 - 09 E

Location : on right bank at Ban Klang.

	<b>Ban Klang</b>	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	143	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+6.900	m. (MSL.)	
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the abutment of the bridge.		<b>Elevation</b> +12.272 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +10.560 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.03	7.06	7.09	7.06	7.28	7.32	7.24	7.42	7.60	7.17	7.10	7.37	
2	7.04	7.06	7.09	7.06	7.31	7.35	7.26	7.42	7.57	7.16	7.10	7.50	
3	7.03	7.06	7.10	7.06	7.33	7.35	7.37	7.43	7.53	7.18	7.10	7.35	
4	7.03	7.06	7.10	7.06	7.31	7.34	7.93	7.38	7.50	7.19	7.10	7.30	
5	7.03	7.06	7.09	7.06	7.32	7.33	7.67	7.35	7.47	7.18	7.38	7.28	
6	7.04	7.09	7.09	7.06	7.31	7.29	7.56	7.33	7.45	7.18	7.29	7.26	
7	7.04	7.08	7.09	7.06	7.31	7.29	7.61	7.32	7.43	7.19	7.19	7.25	
8	7.04	7.07	7.06	7.06	7.27	7.29	7.80	7.29	7.41	7.18	7.14	7.40	
9	7.04	7.07	7.04	7.06	7.27	7.29	7.79	7.89	7.39	7.18	7.12	7.43	
10	7.04	7.08	7.04	7.06	7.25	7.30	7.78	8.10	7.38	7.18	7.11	7.34	
11	7.04	7.09	7.04	7.05	7.23	7.31	7.60	7.72	7.37	7.15	7.11	7.30	
12	7.04	7.09	7.04	7.06	7.47	7.32	7.58	7.53	7.35	7.14	7.11	7.27	
13	7.04	7.09	7.05	7.06	7.59	7.33	7.62	7.56	7.34	7.14	7.11	7.26	
14	7.04	7.10	7.06	7.06	7.46	7.30	7.55	8.00	7.32	7.14	7.11	7.25	
15	7.05	7.10	7.06	7.06	7.39	7.29	7.54	9.51	7.31	7.14	7.34	7.25	
16	7.05	7.10	7.06	7.06	7.34	7.28	7.57	8.81	7.31	7.14	8.26	7.24	
17	7.05	7.10	7.06	7.06	7.32	7.26	7.62	8.22	7.30	7.14	7.90	7.24	
18	7.05	7.10	7.06	7.06	7.28	7.23	7.57	9.67	7.29	7.14	7.57	7.24	
19	7.05	7.10	7.05	7.05	7.23	7.23	7.51	10.02	7.29	7.14	7.50	7.24	
20	7.05	7.10	7.05	7.06	7.20	7.31	7.46	8.49	7.28	7.14	7.40	7.24	
21	7.05	7.10	7.06	7.05	7.19	7.60	7.54	8.08	7.28	7.14	7.40	7.26	
22	7.06	7.11	7.06	7.05	7.23	7.42	7.58	7.91	7.27	7.14	7.41	7.26	
23	7.06	7.10	7.06	7.05	7.31	7.35	7.50	8.47	7.27	7.14	7.39	7.37	
24	7.05	7.10	7.06	7.06	7.24	7.32	7.76	8.88	7.26	7.13	7.38	7.29	
25	7.05	7.10	7.07	7.07	7.20	7.33	7.74	8.13	7.26	7.13	7.34	7.27	
26	7.05	7.09	7.07	7.06	7.19	7.40	7.61	7.92	7.26	7.13	7.34	7.26	
27	7.05	7.10	7.06	7.17	7.22	7.43	7.52	7.82	7.27	7.11	7.28	7.25	
28	7.05	7.09	7.06	7.21	7.26	7.35	7.46	7.75	7.29	7.10	7.27	7.22	
29	7.05	7.09	7.06	7.21	7.34	7.30	7.58	7.69	7.26	7.10		7.20	
30	7.06	7.09	7.06	7.23	7.32	7.27	7.49	7.64	7.26	7.10		7.20	
31		7.09		7.26	7.32		7.43		7.26	7.10		7.25	
Mean	7.05	7.09	7.06	7.08	7.30	7.33	7.58	8.02	7.35	7.15	7.32	7.29	
Max	7.06	7.11	7.10	7.26	7.59	7.60	7.93	10.02	7.60	7.19	8.26	7.50	10.02
Min	7.03	7.06	7.04	7.05	7.19	7.23	7.24	7.29	7.26	7.10	7.10	7.20	7.03
Annual Max Momentary Gage Height	11.29		m. (MSL.) ,				at 04.00 Hours ,						
Zero Gage at Bottom Elevation	6.90		m. (MSL.) ,			River Bed	6.73	m. (MSL.)					
Left Bank Elevation	10.55		m. (MSL.) ,										
Right Bank Elevation	10.95		m. (MSL.) ,			Drainage Are	143	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.90	1.15	0.70	1.90	3.50	0.35	0.00	1.53	
2	0.00	0.00	0.00	0.00	1.08	1.38	0.80	1.90	3.20	0.30	0.00	2.50	
3	0.00	0.00	0.00	0.00	1.23	1.38	1.53	1.98	2.80	0.40	0.00	1.38	
4	0.00	0.00	0.00	0.00	1.08	1.30	6.95	1.60	2.50	0.45	0.00	1.00	
5	0.00	0.00	0.00	0.00	1.15	1.23	4.20	1.38	2.28	0.40	1.60	0.90	
6	0.00	0.00	0.00	0.00	1.08	0.95	3.10	1.23	2.13	0.40	0.95	0.80	
7	0.00	0.00	0.00	0.00	1.08	0.95	3.60	1.15	1.98	0.45	0.45	0.75	
8	0.00	0.00	0.00	0.00	0.85	0.95	5.50	0.95	1.83	0.40	0.20	1.75	
9	0.00	0.00	0.00	0.00	0.85	0.95	5.40	6.40	1.68	0.40	0.10	1.98	
10	0.00	0.00	0.00	0.00	0.75	1.00	5.30	9.50	1.60	0.40	0.05	1.30	
11	0.00	0.00	0.00	0.00	0.65	1.08	3.50	4.70	1.53	0.25	0.05	1.00	
12	0.00	0.00	0.00	0.00	2.28	1.15	3.30	2.80	1.38	0.20	0.05	0.85	
13	0.00	0.00	0.00	0.00	3.40	1.23	3.70	3.10	1.30	0.20	0.05	0.80	
14	0.00	0.00	0.00	0.00	2.20	1.00	3.00	8.00	1.15	0.20	0.05	0.75	
15	0.00	0.00	0.00	0.00	1.68	0.95	2.90	44.35	1.08	0.20	1.30	0.75	
16	0.00	0.00	0.00	0.00	1.30	0.90	3.20	24.25	1.08	0.20	12.30	0.70	
17	0.00	0.00	0.00	0.00	1.15	0.80	3.70	11.60	1.00	0.20	6.50	0.70	
18	0.00	0.00	0.00	0.00	0.90	0.65	3.20	49.95	0.95	0.20	3.20	0.70	
19	0.00	0.00	0.00	0.00	0.65	0.65	2.60	62.80	0.95	0.20	2.50	0.70	
20	0.00	0.00	0.00	0.00	0.50	1.08	2.20	16.80	0.90	0.20	1.75	0.70	
21	0.00	0.00	0.00	0.00	0.45	3.50	2.90	9.20	0.90	0.20	1.75	0.80	
22	0.00	0.05	0.00	0.00	0.65	1.90	3.30	6.65	0.85	0.20	1.83	0.80	
23	0.00	0.00	0.00	0.00	1.08	1.38	2.50	16.40	0.85	0.20	1.68	1.53	
24	0.00	0.00	0.00	0.00	0.70	1.15	5.10	26.00	0.80	0.15	1.60	0.95	
25	0.00	0.00	0.00	0.00	0.50	1.23	4.90	10.03	0.80	0.15	1.30	0.85	
26	0.00	0.00	0.00	0.00	0.45	1.75	3.60	6.80	0.80	0.15	1.30	0.80	
27	0.00	0.00	0.00	0.35	0.60	1.98	2.70	5.70	0.85	0.05	0.90	0.75	
28	0.00	0.00	0.00	0.55	0.80	1.38	2.20	5.00	0.95	0.00	0.85	0.60	
29	0.00	0.00	0.00	0.55	1.30	1.00	3.30	4.40	0.80	0.00	0.50	0.50	
30	0.00	0.00	0.00	0.65	1.15	0.85	2.43	3.90	0.80	0.00	0.50	0.50	
31	0.00	0.00	0.00	0.80	1.15	0.85	1.98	0.80	0.80	0.00	0.75	0.75	
<b>Total</b>	0.00	0.05	0.00	2.90	33.59	36.85	103.29	350.42	44.02	7.10	42.31	30.37	650.90 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.09	1.08	1.23	3.33	11.68	1.42	0.23	1.51	0.98	1.78 CMS
<b>Max</b>	0.00	0.05	0.00	0.80	3.40	3.50	6.95	62.80	3.50	0.45	12.30	2.50	62.80 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.45	0.65	0.70	0.95	0.80	0.00	0.00	0.50	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.25	2.90	3.18	8.92	30.28	3.80	0.61	3.66	2.62	56.24 MCM
<b>Momentary Peak</b>	129.30 CMS. at 11.29 m. (MSL.) at 04.00 Hours , on Nov 19, 2021												
<b>Runoff Yield</b>	12.47 Liters/Second/Square KM.			Momentary Peak Yield 904.20 Liters/Second/Square KM.									

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)

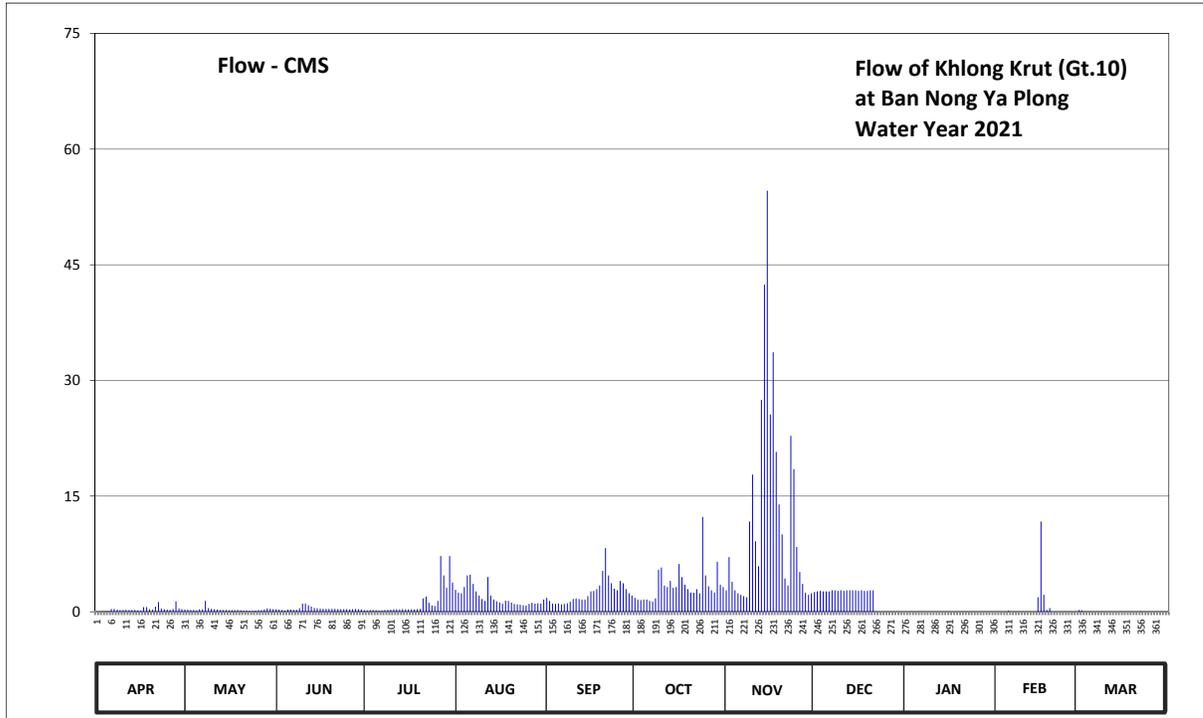
Lat 11 - 24 - 15 N Long 99 - 31 - 09 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

	<b>Ban Nong Ya Plong</b>	<b>Amphoe</b> Bang Saphan	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	112 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+25.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+30.730 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +27.220 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.72	23.87	23.90	23.82	24.38	24.24	24.24	24.37	24.34	23.50	23.38	23.83	
2	23.72	23.86	23.86	23.81	24.33	24.18	24.21	24.74	24.35	23.48	23.38	23.81	
3	23.75	23.84	23.84	23.84	24.32	24.11	24.20	24.49	24.36	23.48	23.38	23.59	
4	23.76	23.83	23.80	23.83	24.42	24.10	24.21	24.37	24.35	23.47	23.38	23.54	
5	23.77	23.81	23.86	23.82	24.57	24.12	24.21	24.32	24.35	23.46	23.77	23.52	
6	23.91	23.88	23.86	23.81	24.58	24.09	24.18	24.29	24.35	23.46	23.59	23.51	
7	23.92	23.90	23.84	23.81	24.46	24.10	24.16	24.27	24.37	23.46	23.46	23.49	
8	23.87	24.18	23.85	23.84	24.35	24.12	24.23	24.25	24.37	23.45	23.43	23.53	
9	23.84	23.98	23.97	23.85	24.28	24.16	24.63	25.04	24.36	23.45	23.43	23.56	
10	23.83	23.92	24.11	23.86	24.22	24.22	24.65	25.32	24.37	23.45	23.42	23.50	
11	23.85	23.88	24.11	23.90	24.18	24.23	24.44	24.88	24.36	23.44	23.41	23.48	
12	23.83	23.86	24.07	23.89	24.55	24.22	24.42	24.66	24.37	23.45	23.41	23.47	
13	23.83	23.84	24.03	23.88	24.28	24.21	24.50	25.62	24.37	23.45	23.41	23.45	
14	23.83	23.83	23.99	23.91	24.21	24.21	24.41	25.93	24.37	23.44	23.48	23.44	
15	23.81	23.83	23.97	23.89	24.17	24.27	24.42	26.14	24.37	23.44	24.25	23.44	
16	23.80	23.82	23.95	23.88	24.14	24.35	24.68	25.57	24.36	23.43	25.04	23.43	
17	24.02	23.82	23.94	23.89	24.11	24.36	24.55	25.76	24.37	23.43	24.29	23.42	
18	24.02	23.82	23.92	23.88	24.19	24.39	24.45	25.43	24.36	23.43	23.84	23.41	
19	23.89	23.83	23.93	23.89	24.18	24.44	24.39	25.15	24.36	23.42	23.99	23.41	
20	23.86	23.81	23.93	23.91	24.14	24.62	24.33	24.94	24.37	23.42	23.69	23.41	
21	24.03	23.80	23.92	24.23	24.10	24.82	24.33	24.53	24.37	23.41	23.63	23.48	
22	24.15	23.80	23.91	24.26	24.09	24.57	24.39	24.44	23.55	23.42	23.63	23.74	
23	23.95	23.78	23.90	24.13	24.08	24.47	24.32	25.49	23.54	23.42	23.60	23.65	
24	23.89	23.77	23.89	24.06	24.07	24.40	25.07	25.35	23.54	23.41	23.55	23.60	
25	23.86	23.79	23.89	24.05	24.06	24.37	24.57	24.83	23.54	23.40	23.52	23.60	
26	23.85	23.82	23.88	24.18	24.10	24.50	24.43	24.61	23.55	23.40	23.52	23.52	
27	23.93	23.82	23.90	24.75	24.13	24.47	24.37	24.46	23.54	23.40	23.49	23.51	
28	24.17	23.87	23.91	24.57	24.11	24.39	24.33	24.33	23.53	23.39	23.51	23.50	
29	23.95	23.96	23.90	24.41	24.12	24.32	24.70	24.29	23.52	23.39		23.52	
30	23.91	23.94	23.88	24.75	24.11	24.28	24.45	24.32	23.51	23.39		23.58	
31		23.90		24.48	24.21		24.42		23.50	23.39		23.61	
Mean	23.88	23.86	23.92	24.03	24.23	24.31	24.42	24.87	24.09	23.43	23.64	23.53	
Max	24.17	24.18	24.11	24.75	24.58	24.82	25.07	26.14	24.37	23.50	25.04	23.83	26.14
Min	23.72	23.77	23.80	23.81	24.06	24.09	24.16	24.25	23.50	23.39	23.38	23.41	23.38
Annual Max Momentary Gage Height	27.55		m. (MSL.) ,				at 11.00 Hours ,						
Zero Gage at Bottom Elevation	25.40		m. (MSL.) ,			River Bed	23.50	m. (MSL.)					
Left Bank Elevation		27.21		m. (MSL.) ,									
Right Bank Elevation		27.35		m. (MSL.) ,		Drainage Are	112	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.28	0.33	0.20	2.85	1.80	1.80	2.78	2.55	0.00	0.00	0.22	
2	0.03	0.27	0.27	0.18	2.48	1.40	1.58	7.07	2.63	0.00	0.00	0.18	
3	0.08	0.23	0.23	0.23	2.40	1.05	1.50	3.90	2.70	0.00	0.00	0.00	
4	0.10	0.22	0.17	0.22	3.20	1.00	1.58	2.78	2.63	0.00	0.00	0.00	
5	0.12	0.18	0.27	0.20	4.70	1.10	1.58	2.40	2.63	0.00	0.12	0.00	
6	0.35	0.30	0.27	0.18	4.80	0.95	1.40	2.18	2.63	0.00	0.00	0.00	
7	0.37	0.33	0.23	0.18	3.60	1.00	1.30	2.03	2.78	0.00	0.00	0.00	
8	0.28	1.40	0.25	0.23	2.63	1.10	1.73	1.88	2.78	0.00	0.00	0.00	
9	0.23	0.47	0.45	0.25	2.10	1.30	5.44	11.70	2.70	0.00	0.00	0.00	
10	0.22	0.37	1.05	0.27	1.65	1.65	5.74	17.78	2.78	0.00	0.00	0.00	
11	0.25	0.30	1.05	0.33	1.40	1.73	3.40	9.13	2.70	0.00	0.00	0.00	
12	0.22	0.27	0.85	0.32	4.50	1.65	3.20	5.89	2.78	0.00	0.00	0.00	
13	0.22	0.23	0.65	0.30	2.10	1.58	4.00	27.48	2.78	0.00	0.00	0.00	
14	0.22	0.22	0.48	0.35	1.58	1.58	3.10	42.42	2.78	0.00	0.00	0.00	
15	0.18	0.22	0.45	0.32	1.35	2.03	3.20	54.60	2.78	0.00	1.88	0.00	
16	0.17	0.20	0.42	0.30	1.20	2.63	6.18	25.57	2.70	0.00	11.70	0.00	
17	0.60	0.20	0.40	0.32	1.05	2.70	4.50	33.64	2.78	0.00	2.18	0.00	
18	0.60	0.20	0.37	0.30	1.45	2.93	3.50	20.74	2.70	0.00	0.23	0.00	
19	0.32	0.22	0.38	0.32	1.40	3.40	2.93	13.90	2.70	0.00	0.48	0.00	
20	0.27	0.18	0.38	0.35	1.20	5.30	2.48	10.02	2.78	0.00	0.00	0.00	
21	0.65	0.17	0.37	1.73	1.00	8.25	2.48	4.30	2.78	0.00	0.00	0.00	
22	1.25	0.17	0.35	1.95	0.95	4.70	2.93	3.40	0.00	0.00	0.00	0.07	
23	0.42	0.13	0.33	1.15	0.90	3.70	2.40	22.81	0.00	0.00	0.00	0.00	
24	0.32	0.12	0.32	0.80	0.85	3.00	12.30	18.50	0.00	0.00	0.00	0.00	
25	0.27	0.15	0.32	0.75	0.80	2.78	4.70	8.39	0.00	0.00	0.00	0.00	
26	0.25	0.20	0.30	1.40	1.00	4.00	3.30	5.15	0.00	0.00	0.00	0.00	
27	0.38	0.20	0.33	7.21	1.15	3.70	2.78	3.60	0.00	0.00	0.00	0.00	
28	1.35	0.28	0.35	4.70	1.05	2.93	2.48	2.48	0.00	0.00	0.00	0.00	
29	0.42	0.43	0.33	3.10	1.10	2.40	6.48	2.18	0.00	0.00	0.00	0.00	
30	0.35	0.40	0.30	7.21	1.05	2.10	3.50	2.40	0.00	0.00	0.00	0.00	
31		0.33		3.80	1.58		3.20		0.00	0.00		0.00	
Total	10.52	8.87	12.25	39.15	59.07	75.44	106.69	371.10	57.07	0.00	16.59	0.47	757.22 CMSDAY
Mean	0.35	0.29	0.41	1.26	1.91	2.51	3.44	12.37	1.84	0.00	0.59	0.02	2.07 CMS
Max	1.35	1.40	1.05	7.21	4.80	8.25	12.30	54.60	2.78	0.00	11.70	0.22	54.60 CMS
Min	0.03	0.12	0.17	0.18	0.80	0.95	1.30	1.88	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.91	0.77	1.06	3.38	5.10	6.52	9.22	32.06	4.93	0.00	1.43	0.04	65.42 MCM
Momentary Peak	154.20	CMS.	at 27.55 m. (MSL.)	at 11.00 Hours	on Nov 17, 2021								
Runoff Yield	18.52	Liters/Second/Square KM.		Momentary Peak Yield	1376.79	Liters/Second/Square KM.							

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)

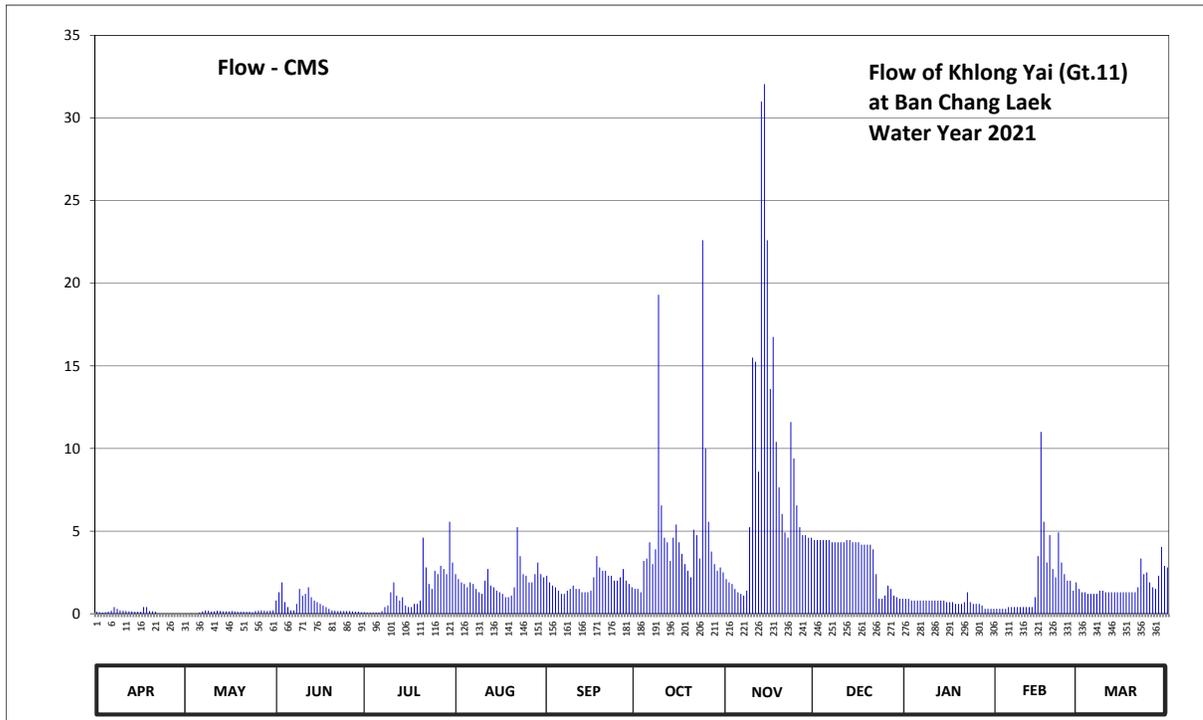
Lat 11 - 03 - 52 N Long 99 - 22 - 20 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 423.

	Ban Chang Laek	Amphoe	Bang Saphan Noi	Changwat	Prachuap Khiri Khan
<b>Drainage Area</b>	58 sq.km.				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+37.600 m. (MSL.)				
<b>Bench Mark</b>	B.M.- Highways Dept.				
<b>Location BM</b>	On right bank at the abutment of the bridge.			<b>Elevation</b>	+45.340 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1979 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1980 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	1980 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.96	37.89	38.06	37.95	38.22	38.21	38.13	38.19	38.39	38.07	38.01	38.13	
2	37.95	37.90	38.11	37.94	38.19	38.17	38.13	38.17	38.39	38.07	38.01	38.11	
3	37.94	37.91	38.17	37.94	38.17	38.15	38.11	38.16	38.39	38.06	38.01	38.11	
4	37.95	37.90	38.05	37.94	38.16	38.14	38.30	38.13	38.39	38.06	38.01	38.10	
5	37.96	37.89	38.02	37.94	38.14	38.12	38.31	38.11	38.39	38.06	38.02	38.10	
6	37.99	37.94	38.00	37.94	38.17	38.10	38.38	38.10	38.39	38.06	38.02	38.10	
7	38.02	37.97	38.00	37.98	38.16	38.10	38.28	38.09	38.38	38.06	38.02	38.10	
8	38.01	38.00	38.04	38.02	38.13	38.12	38.35	38.12	38.38	38.06	38.02	38.12	
9	38.00	37.99	38.13	38.03	38.11	38.13	39.11	38.44	38.38	38.06	38.02	38.12	
10	37.99	37.96	38.09	38.11	38.10	38.15	38.52	38.96	38.38	38.06	38.02	38.11	
11	37.98	37.97	38.10	38.17	38.18	38.13	38.40	38.95	38.38	38.06	38.02	38.11	
12	37.97	37.99	38.14	38.09	38.25	38.13	38.38	38.63	38.39	38.06	38.02	38.11	
13	37.97	37.98	38.08	38.06	38.15	38.11	38.30	39.50	38.39	38.06	38.02	38.11	
14	37.96	37.97	38.06	38.08	38.14	38.11	38.40	39.53	38.38	38.06	38.08	38.11	
15	37.96	37.97	38.05	38.03	38.12	38.11	38.45	39.22	38.38	38.05	38.32	38.11	
16	37.96	37.97	38.04	38.02	38.11	38.12	38.38	38.88	38.38	38.05	38.75	38.11	
17	38.02	37.98	38.03	38.02	38.10	38.20	38.33	39.01	38.37	38.05	38.46	38.11	
18	38.02	37.97	38.02	38.04	38.08	38.32	38.28	38.72	38.37	38.04	38.29	38.11	
19	37.98	37.96	38.01	38.04	38.08	38.26	38.24	38.58	38.37	38.04	38.41	38.11	
20	37.97	37.96	38.00	38.06	38.09	38.24	38.20	38.49	38.37	38.04	38.25	38.11	
21	37.96	37.96	37.99	38.40	38.14	38.24	38.43	38.42	38.35	38.05	38.20	38.14	
22	37.90	37.96	37.98	38.26	38.44	38.21	38.41	38.40	38.22	38.11	38.42	38.31	
23	37.89	37.96	37.98	38.16	38.32	38.21	38.31	38.78	38.07	38.05	38.29	38.22	
24	37.89	37.95	37.98	38.13	38.22	38.18	39.22	38.67	38.07	38.04	38.22	38.23	
25	37.89	37.98	37.98	38.24	38.21	38.18	38.70	38.52	38.09	38.04	38.18	38.17	
26	37.88	37.99	37.98	38.22	38.17	38.20	38.46	38.44	38.15	38.04	38.18	38.14	
27	37.88	38.00	37.97	38.27	38.17	38.25	38.34	38.41	38.13	38.03	38.12	38.13	
28	37.89	37.99	37.96	38.25	38.22	38.18	38.28	38.41	38.09	38.01	38.17	38.21	
29	37.89	37.98	37.96	38.22	38.29	38.16	38.24	38.40	38.08	38.01		38.36	
30	37.89	37.99	37.95	38.46	38.22	38.14	38.26	38.40	38.07	38.01		38.27	
31		38.00		38.29	38.20		38.23		38.07	38.01		38.26	
Mean	37.95	37.96	38.03	38.11	38.18	38.17	38.38	38.56	38.29	38.05	38.16	38.15	
Max	38.02	38.00	38.17	38.46	38.44	38.32	39.22	39.53	38.39	38.11	38.75	38.36	39.53
Min	37.88	37.89	37.95	37.94	38.08	38.10	38.11	38.09	38.07	38.01	38.01	38.10	37.88
Annual Max Momentary Gage Height	40.71		m. (MSL.) ,				at 16.00 Hours ,						
Zero Gage at Bottom Elevation	37.60		m. (MSL.) ,			River Bed	37.76		m. (MSL.)				
Left Bank Elevation		42.40		m. (MSL.) ,									
Right Bank Elevation		42.26		m. (MSL.) ,		Drainage Are	58		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.00	0.80	0.10	2.40	2.30	1.50	2.10	4.46	0.90	0.30	1.50	
2	0.10	0.00	1.30	0.08	2.10	1.90	1.50	1.90	4.46	0.90	0.30	1.30	
3	0.08	0.02	1.90	0.08	1.90	1.70	1.30	1.80	4.46	0.80	0.30	1.30	
4	0.10	0.00	0.70	0.08	1.80	1.60	3.20	1.50	4.46	0.80	0.30	1.20	
5	0.12	0.00	0.40	0.08	1.60	1.40	3.34	1.30	4.46	0.80	0.40	1.20	
6	0.18	0.08	0.20	0.08	1.90	1.20	4.32	1.20	4.46	0.80	0.40	1.20	
7	0.40	0.14	0.20	0.16	1.80	1.20	3.00	1.10	4.32	0.80	0.40	1.20	
8	0.30	0.20	0.60	0.40	1.50	1.40	3.90	1.40	4.32	0.80	0.40	1.40	
9	0.20	0.18	1.50	0.50	1.30	1.50	19.30	5.24	4.32	0.80	0.40	1.40	
10	0.18	0.12	1.10	1.30	1.20	1.70	6.56	15.50	4.32	0.80	0.40	1.30	
11	0.16	0.14	1.20	1.90	2.00	1.50	4.60	15.25	4.32	0.80	0.40	1.30	
12	0.14	0.18	1.60	1.10	2.70	1.50	4.32	8.60	4.46	0.80	0.40	1.30	
13	0.14	0.16	1.00	0.80	1.70	1.30	3.20	31.00	4.46	0.80	0.40	1.30	
14	0.12	0.14	0.80	1.00	1.60	1.30	4.60	32.05	4.32	0.80	1.00	1.30	
15	0.12	0.14	0.70	0.50	1.40	1.30	5.40	22.60	4.32	0.70	3.48	1.30	
16	0.12	0.14	0.60	0.40	1.30	1.40	4.32	13.60	4.32	0.70	11.00	1.30	
17	0.40	0.16	0.50	0.40	1.20	2.20	3.62	16.75	4.18	0.70	5.56	1.30	
18	0.40	0.14	0.40	0.60	1.00	3.48	3.00	10.40	4.18	0.60	3.10	1.30	
19	0.16	0.12	0.30	0.60	1.00	2.80	2.60	7.64	4.18	0.60	4.76	1.30	
20	0.14	0.12	0.20	0.80	1.10	2.60	2.20	6.04	4.18	0.60	2.70	1.30	
21	0.12	0.12	0.18	4.60	1.60	2.60	5.08	4.92	3.90	0.70	2.20	1.60	
22	0.00	0.12	0.16	2.80	5.24	2.30	4.76	4.60	2.40	1.30	4.92	3.34	
23	0.00	0.12	0.16	1.80	3.48	2.30	3.34	11.60	0.90	0.70	3.10	2.40	
24	0.00	0.10	0.16	1.50	2.40	2.00	22.60	9.40	0.90	0.60	2.40	2.50	
25	0.00	0.16	0.16	2.60	2.30	2.00	10.00	6.56	1.10	0.60	2.00	1.90	
26	0.00	0.18	0.16	2.40	1.90	2.20	5.56	5.24	1.70	0.60	2.00	1.60	
27	0.00	0.20	0.14	2.90	1.90	2.70	3.76	4.76	1.50	0.50	1.40	1.50	
28	0.00	0.18	0.12	2.70	2.40	2.00	3.00	4.76	1.10	0.30	1.90	2.30	
29	0.00	0.16	0.12	2.40	3.10	1.80	2.60	4.60	1.00	0.30		4.04	
30	0.00	0.18	0.10	5.56	2.40	1.60	2.80	4.60	0.90	0.30		2.90	
31		0.20		3.10	2.20		2.50		0.90	0.30		2.80	
<b>Total</b>	3.80	3.90	17.46	43.32	61.42	56.78	151.78	258.01	103.26	21.50	56.32	52.88	830.43 CMSDAY
<b>Mean</b>	0.13	0.13	0.58	1.40	1.98	1.89	4.90	8.60	3.33	0.69	2.01	1.71	2.28 CMS
<b>Max</b>	0.40	0.20	1.90	5.56	5.24	3.48	22.60	32.05	4.46	1.30	11.00	4.04	32.05 CMS
<b>Min</b>	0.00	0.00	0.10	0.08	1.00	1.20	1.30	1.10	0.90	0.30	0.30	1.20	0.00 CMS
<b>Runoff</b>	0.33	0.34	1.51	3.74	5.31	4.91	13.11	22.29	8.92	1.86	4.87	4.57	71.75 MCM
<b>Momentary Peak</b>	80.50	CMS. at 40.71 m. (MSL.) at 16.00 Hours , on Nov 13, 2021											
<b>Runoff Yield</b>	39.23	Liters/Second/Square KM. Momentary Peak Yield 1387.93 Liters/Second/Square KM.											

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Huai Yang at Ban Huai Yang , Prachuap Khiri Khan (Gt.17)

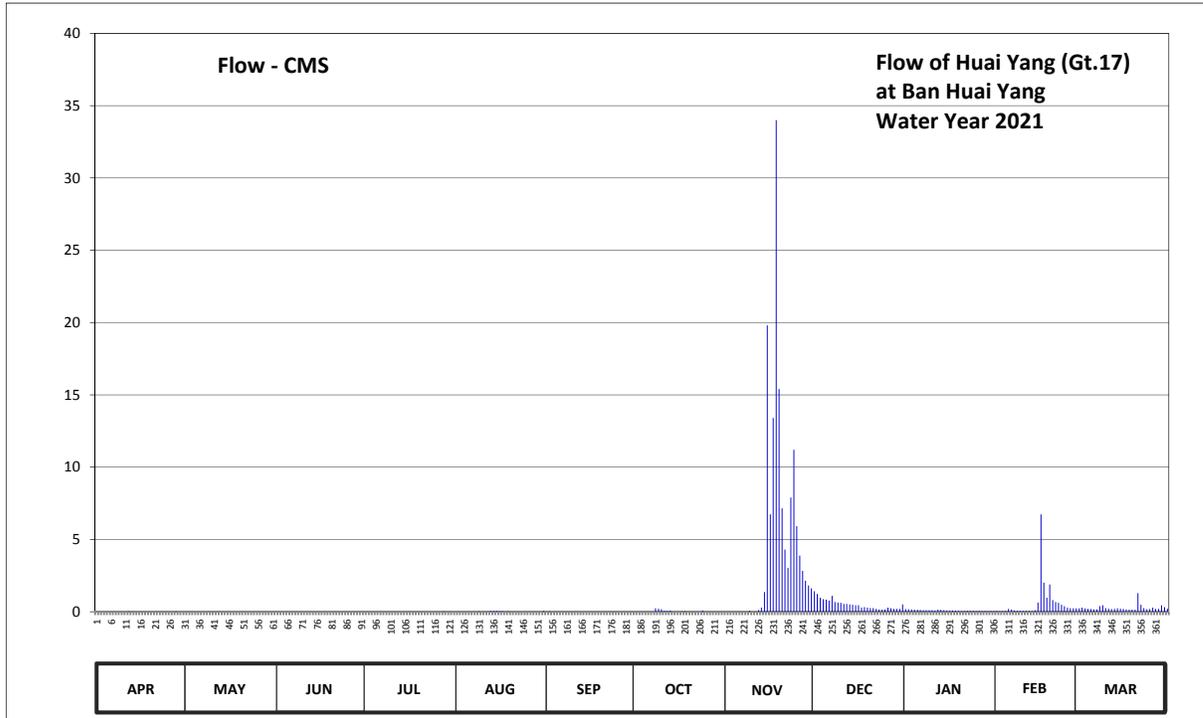
Lat 11 - 36 - 54 N Long 99 - 39 - 58 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 349.

	<b>Ban</b> Huai Yang	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	51 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+8.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+14.491 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.90	8.99	8.95	8.91	8.98	8.92	9.00	8.85	9.48	9.15	9.05	9.18	
2	8.95	8.98	8.95	8.90	8.95	9.02	8.98	8.85	9.45	9.14	9.03	9.21	
3	8.92	8.98	8.96	8.90	8.98	8.85	8.83	8.85	9.41	9.13	9.04	9.18	
4	8.92	8.96	8.96	8.89	8.95	8.70	8.88	8.86	9.39	9.12	9.05	9.16	
5	8.93	8.95	8.95	8.90	8.95	8.80	8.89	8.86	9.38	9.11	9.16	9.15	
6	8.94	8.95	8.95	8.87	8.94	8.70	8.86	8.85	9.36	9.10	9.12	9.13	
7	8.92	8.96	8.92	8.86	8.97	8.74	9.01	8.84	9.43	9.09	9.07	9.13	
8	8.92	8.96	8.89	8.87	8.97	8.80	9.19	8.83	9.33	9.09	9.05	9.24	
9	8.91	8.97	8.98	8.89	9.02	8.71	9.17	9.05	9.32	9.09	9.04	9.26	
10	8.91	8.97	8.93	8.97	8.98	8.72	9.14	8.98	9.31	9.09	9.04	9.20	
11	8.89	8.95	8.96	8.89	8.97	8.72	9.05	8.93	9.29	9.07	9.04	9.17	
12	9.02	8.92	8.96	8.87	8.99	8.74	9.04	9.09	9.29	9.11	9.04	9.15	
13	9.01	8.90	8.97	8.87	9.04	8.76	9.07	9.21	9.28	9.10	9.04	9.16	
14	8.97	8.94	8.97	8.87	9.04	8.76	9.00	9.47	9.27	9.09	9.09	9.19	
15	8.95	8.90	8.98	8.88	9.05	8.76	9.00	10.74	9.26	9.07	9.32	9.17	
16	8.94	8.91	9.00	8.89	9.03	8.76	9.00	9.98	9.26	9.07	9.98	9.16	
17	8.94	8.88	8.99	8.88	9.03	8.74	9.02	10.42	9.21	9.07	9.57	9.13	
18	8.93	8.89	8.98	8.87	8.98	8.73	9.03	11.30	9.22	9.06	9.41	9.12	
19	8.94	8.88	8.97	8.94	9.02	8.72	9.00	10.52	9.21	9.05	9.55	9.12	
20	8.94	8.92	8.97	8.90	8.99	8.82	8.97	10.01	9.20	9.03	9.37	9.11	
21	8.92	9.00	9.01	8.90	8.98	8.89	8.95	9.80	9.20	9.04	9.33	9.46	
22	8.92	8.89	8.95	8.89	8.99	8.82	8.96	9.68	9.16	9.05	9.31	9.27	
23	8.92	8.87	8.94	8.88	8.94	8.83	8.93	10.06	9.12	9.05	9.27	9.20	
24	8.93	8.89	8.94	8.89	8.93	9.01	9.07	10.28	9.11	9.05	9.24	9.14	
25	8.92	8.91	8.94	8.89	8.92	8.90	9.00	9.92	9.12	9.04	9.21	9.15	
26	8.93	8.89	8.94	8.88	8.93	9.00	8.98	9.76	9.21	9.05	9.19	9.21	
27	8.92	8.89	8.95	8.94	8.95	8.94	8.96	9.66	9.19	9.04	9.19	9.16	
28	9.02	8.88	8.94	9.02	8.94	8.92	8.94	9.59	9.16	9.04	9.18	9.16	
29	8.91	8.90	8.93	8.93	8.93	8.97	8.93	9.54	9.16	9.03		9.26	
30	8.96	8.91	8.93	9.01	8.94	8.85	8.92	9.51	9.16	9.04		9.22	
31		8.96		8.96	9.05		8.87		9.28	9.04		9.17	
Mean	8.94	8.93	8.96	8.90	8.98	8.82	8.99	9.54	9.27	9.07	9.21	9.18	
Max	9.02	9.00	9.01	9.02	9.05	9.02	9.19	11.30	9.48	9.15	9.98	9.46	11.30
Min	8.89	8.87	8.89	8.86	8.92	8.70	8.83	8.83	9.11	9.03	9.03	9.11	8.70
Annual Max Momentary Gage Height	12.67		m. (MSL.) ,				at 18.00 Hours ,	on Nov 18, 2021					
Zero Gage at Bottom Elevation	8.80		m. (MSL.) ,			River Bed	8.94	m. (MSL.)					
Left Bank Elevation	14.54		m. (MSL.) ,										
Right Bank Elevation	14.56		m. (MSL.) ,			Drainage Are	51	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	0.19	0.06	0.23	
2	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	1.23	0.18	0.04	0.28	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.16	0.05	0.23	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.15	0.06	0.20	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.14	0.20	0.19	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.13	0.15	0.16	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.10	0.11	0.09	0.16	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.67	0.11	0.06	0.38	
9	0.00	0.00	0.00	0.00	0.03	0.00	0.21	0.06	0.64	0.11	0.05	0.45	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.61	0.11	0.05	0.25	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.54	0.09	0.05	0.21	
12	0.03	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.54	0.14	0.05	0.19	
13	0.01	0.00	0.00	0.00	0.05	0.00	0.09	0.28	0.51	0.13	0.05	0.20	
14	0.00	0.00	0.00	0.00	0.05	0.00	0.00	1.36	0.48	0.11	0.11	0.24	
15	0.00	0.00	0.00	0.00	0.06	0.00	0.00	19.80	0.45	0.09	0.64	0.21	
16	0.00	0.00	0.00	0.00	0.04	0.00	0.00	6.73	0.45	0.09	6.73	0.20	
17	0.00	0.00	0.00	0.00	0.04	0.00	0.03	13.40	0.28	0.09	2.01	0.16	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.04	34.00	0.32	0.08	0.97	0.15	
19	0.00	0.00	0.00	0.00	0.03	0.00	0.00	15.40	0.28	0.06	1.88	0.15	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.15	0.25	0.04	0.80	0.14	
21	0.00	0.00	0.01	0.00	0.00	0.00	0.00	4.30	0.25	0.05	0.67	1.29	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	0.20	0.06	0.61	0.48	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.90	0.15	0.06	0.48	0.25	
24	0.00	0.00	0.00	0.00	0.00	0.01	0.09	11.20	0.14	0.06	0.38	0.18	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.92	0.15	0.05	0.28	0.19	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.88	0.28	0.06	0.24	0.28	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	0.24	0.05	0.24	0.20	
28	0.03	0.00	0.00	0.03	0.00	0.00	0.00	2.14	0.20	0.05	0.23	0.20	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	0.20	0.04		0.45	
30	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.62	0.20	0.05		0.32	
31		0.00		0.00	0.06		0.00		0.51	0.05		0.21	
<b>Total</b>	0.07	0.00	0.01	0.04	0.36	0.04	1.00	142.93	15.74	2.89	17.23	8.43	188.74 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.01	0.00	0.03	4.76	0.51	0.09	0.62	0.27	0.52 CMS
<b>Max</b>	0.03	0.00	0.01	0.03	0.06	0.03	0.24	34.00	1.42	0.19	6.73	1.29	34.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.04	0.04	0.14	0.00 CMS
<b>Runoff</b>	0.01	0.00	0.00	0.00	0.03	0.00	0.09	12.35	1.36	0.25	1.49	0.73	16.31 MCM
<b>Momentary Peak</b>	90.55	CMS. at 12.67 m. (MSL.) at 18.00 Hours , on Nov 18, 2021											
<b>Runoff Yield</b>	10.14	Liters/Second/Square KM. Momentary Peak Yield 1775.49 Liters/Second/Square KM.											

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Khlong Cha Kra at Ban Cha Kra Bon , Prachuap Khiri Khan (Gt.18)

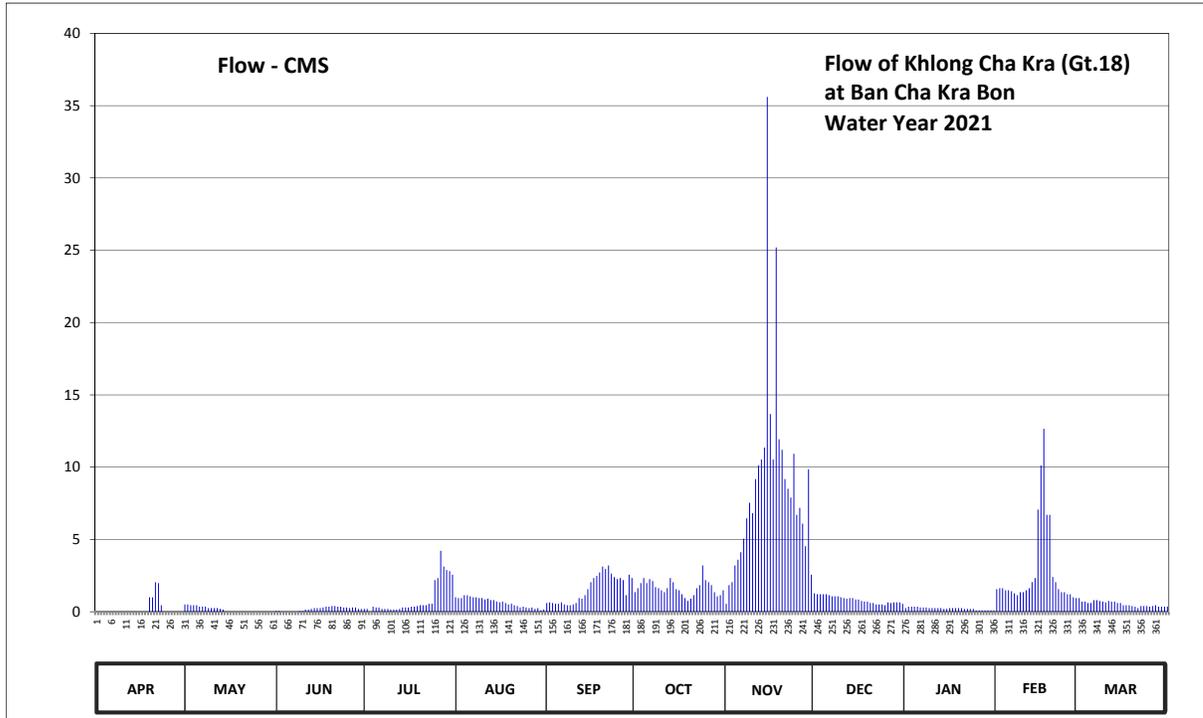
Lat 11 - 26 - 50 N Long 99 - 33 - 58 E

Location : on left bank at the bridge of Phet Kasem Highway.

	<b>Ban</b> Cha Kra Bon	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	91 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+11.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+17.220 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.24	12.40	12.31	12.34	12.50	12.42	12.55	12.41	12.54	12.35	12.58	12.49	
2	12.24	12.40	12.31	12.34	12.49	12.43	12.59	12.62	12.53	12.37	12.59	12.44	
3	12.24	12.39	12.30	12.25	12.49	12.42	12.64	12.65	12.53	12.37	12.59	12.44	
4	12.24	12.39	12.30	12.37	12.52	12.41	12.69	12.80	12.53	12.37	12.57	12.42	
5	12.24	12.39	12.30	12.36	12.52	12.41	12.64	12.85	12.53	12.37	12.57	12.42	
6	12.24	12.37	12.29	12.36	12.51	12.43	12.68	12.91	12.52	12.36	12.56	12.46	
7	12.24	12.37	12.29	12.34	12.50	12.40	12.66	13.00	12.51	12.36	12.54	12.46	
8	12.24	12.37	12.29	12.34	12.50	12.39	12.60	13.13	12.51	12.36	12.52	12.45	
9	12.24	12.35	12.31	12.34	12.49	12.39	12.59	13.22	12.51	12.35	12.55	12.44	
10	12.24	12.35	12.31	12.33	12.49	12.40	12.57	13.16	12.50	12.35	12.55	12.43	
11	12.27	12.35	12.33	12.33	12.47	12.42	12.55	13.35	12.49	12.35	12.57	12.45	
12	12.24	12.35	12.33	12.33	12.48	12.49	12.59	13.42	12.48	12.35	12.59	12.44	
13	12.27	12.34	12.34	12.34	12.46	12.48	12.69	13.45	12.49	12.35	12.65	12.44	
14	12.27	12.33	12.35	12.36	12.46	12.52	12.65	13.51	12.49	12.34	12.69	12.42	
15	12.27	12.29	12.35	12.36	12.44	12.58	12.58	14.86	12.47	12.34	13.18	12.42	
16	12.29	12.27	12.35	12.36	12.43	12.65	12.57	13.67	12.47	12.35	13.42	12.39	
17	12.30	12.27	12.36	12.37	12.44	12.69	12.53	13.45	12.45	12.35	13.60	12.39	
18	12.30	12.25	12.37	12.37	12.42	12.71	12.49	14.36	12.44	12.35	13.15	12.39	
19	12.50	12.25	12.37	12.38	12.40	12.74	12.45	13.55	12.44	12.35	13.15	12.38	
20	12.50	12.25	12.38	12.39	12.41	12.79	12.48	13.50	12.42	12.35	12.70	12.37	
21	12.65	12.24	12.38	12.39	12.39	12.77	12.52	13.35	12.42	12.34	12.65	12.35	
22	12.64	12.22	12.37	12.39	12.38	12.80	12.59	13.30	12.40	12.34	12.58	12.38	
23	12.39	12.22	12.37	12.41	12.36	12.73	12.62	13.25	12.40	12.34	12.55	12.38	
24	12.30	12.22	12.36	12.41	12.37	12.70	12.80	13.48	12.40	12.34	12.55	12.38	
25	12.30	12.21	12.36	12.67	12.36	12.68	12.67	13.15	12.39	12.32	12.53	12.37	
26	12.30	12.19	12.35	12.69	12.35	12.69	12.65	13.19	12.43	12.32	12.53	12.38	
27	12.29	12.19	12.36	12.92	12.36	12.67	12.62	13.10	12.42	12.32	12.50	12.39	
28	12.29	12.19	12.36	12.79	12.34	12.52	12.55	12.95	12.43	12.32	12.49	12.37	
29	12.24	12.19	12.34	12.76	12.35	12.72	12.51	13.40	12.43	12.32		12.37	
30	12.24	12.19	12.34	12.75	12.32	12.69	12.52	12.72	12.43	12.32		12.37	
31		12.19		12.72	12.33		12.57		12.41	12.32		12.37	
Mean	12.31	12.29	12.34	12.45	12.43	12.57	12.59	13.26	12.46	12.34	12.70	12.41	
Max	12.65	12.40	12.38	12.92	12.52	12.80	12.80	14.86	12.54	12.37	13.60	12.49	14.86
Min	12.24	12.19	12.29	12.25	12.32	12.39	12.45	12.41	12.39	12.32	12.49	12.35	12.19
Annual Max Momentary Gage Height	16.05		m. (MSL.) ,				at 19.00 Hours ,		on Nov 15, 2021				
Zero Gage at Bottom Elevation	11.70		m. (MSL.) ,			River Bed	11.76		m. (MSL.)				
Left Bank Elevation		17.26		m. (MSL.) ,									
Right Bank Elevation		17.29		m. (MSL.) ,		Drainage Are	91		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.50	0.05	0.20	1.00	0.60	1.35	0.55	1.28	0.25	1.56	0.95		
2	0.00	0.50	0.05	0.20	0.95	0.65	1.63	1.84	1.21	0.35	1.63	0.70		
3	0.00	0.45	0.00	0.00	0.95	0.60	1.98	2.05	1.21	0.35	1.63	0.70		
4	0.00	0.45	0.00	0.35	1.14	0.55	2.33	3.20	1.21	0.35	1.49	0.60		
5	0.00	0.45	0.00	0.30	1.14	0.55	1.98	3.60	1.21	0.35	1.49	0.60		
6	0.00	0.35	0.00	0.30	1.07	0.65	2.26	4.11	1.14	0.30	1.42	0.80		
7	0.00	0.35	0.00	0.20	1.00	0.50	2.12	5.05	1.07	0.30	1.28	0.80		
8	0.00	0.35	0.00	0.20	1.00	0.45	1.70	6.46	1.07	0.30	1.14	0.75		
9	0.00	0.25	0.05	0.20	0.95	0.45	1.63	7.54	1.07	0.25	1.35	0.70		
10	0.00	0.25	0.05	0.15	0.95	0.50	1.49	6.82	1.00	0.25	1.35	0.65		
11	0.00	0.25	0.15	0.15	0.85	0.60	1.35	9.18	0.95	0.25	1.49	0.75		
12	0.00	0.25	0.15	0.15	0.90	0.95	1.63	10.12	0.90	0.25	1.63	0.70		
13	0.00	0.20	0.20	0.20	0.80	0.90	2.33	10.53	0.95	0.25	2.05	0.70		
14	0.00	0.15	0.25	0.30	0.80	1.14	2.05	11.35	0.95	0.20	2.33	0.60		
15	0.00	0.00	0.25	0.30	0.70	1.56	1.56	35.60	0.85	0.20	7.06	0.60		
16	0.00	0.00	0.25	0.30	0.65	2.05	1.49	13.67	0.85	0.25	10.12	0.45		
17	0.00	0.00	0.30	0.35	0.70	2.33	1.21	10.53	0.75	0.25	12.65	0.45		
18	0.00	0.00	0.35	0.35	0.60	2.48	0.95	25.20	0.70	0.25	6.70	0.45		
19	1.00	0.00	0.35	0.40	0.50	2.72	0.75	11.93	0.70	0.25	6.70	0.40		
20	1.00	0.00	0.40	0.45	0.55	3.12	0.90	11.20	0.60	0.25	2.40	0.35		
21	2.05	0.00	0.40	0.45	0.45	2.96	1.14	9.18	0.60	0.20	2.05	0.25		
22	1.98	0.00	0.35	0.45	0.40	3.20	1.63	8.50	0.50	0.20	1.56	0.40		
23	0.45	0.00	0.35	0.55	0.30	2.64	1.84	7.90	0.50	0.20	1.35	0.40		
24	0.00	0.00	0.30	0.55	0.35	2.40	3.20	10.93	0.50	0.20	1.35	0.40		
25	0.00	0.00	0.30	2.19	0.30	2.26	2.19	6.70	0.45	0.10	1.21	0.35		
26	0.00	0.00	0.25	2.33	0.25	2.33	2.05	7.18	0.65	0.10	1.21	0.40		
27	0.00	0.00	0.30	4.21	0.30	2.19	1.84	6.10	0.60	0.10	1.00	0.45		
28	0.00	0.00	0.30	3.12	0.20	1.14	1.35	4.53	0.65	0.10	0.95	0.35		
29	0.00	0.00	0.20	2.88	0.25	2.56	1.07	9.85	0.65	0.10		0.35		
30	0.00	0.00	0.20	2.80	0.10	2.33	1.14	2.56	0.65	0.10		0.35		
31		0.00		2.56	0.15		1.49		0.55	0.10		0.35		
Total	6.48	4.75	5.80	27.14	20.25	47.36	51.63	263.96	25.97	6.95	78.15	16.75	555.19 CMSDAY	
Mean	0.22	0.15	0.19	0.88	0.65	1.58	1.67	8.80	0.84	0.22	2.79	0.54	1.52 CMS	
Max	2.05	0.50	0.40	4.21	1.14	3.20	3.20	35.60	1.28	0.35	12.65	0.95	35.60 CMS	
Min	0.00	0.00	0.00	0.00	0.10	0.45	0.75	0.55	0.45	0.10	0.95	0.25	0.00 CMS	
Runoff	0.56	0.41	0.50	2.34	1.75	4.09	4.46	22.81	2.24	0.60	6.75	1.45	47.97 MCM	
Momentary Peak		66.50	CMS. at 16.05 m. (MSL.)											at 19.00 Hours , on Nov 15, 2021
Runoff Yield		16.72	Liters/Second/Square KM.											Momentary Peak Yield 730.77 Liters/Second/Square KM.

## WATER YEAR : 2021

## KUI BURI RIVER BASIN

## Kui Buri River at Ban Thung Faek , Prachuap Khiri Khan (Ky.3)

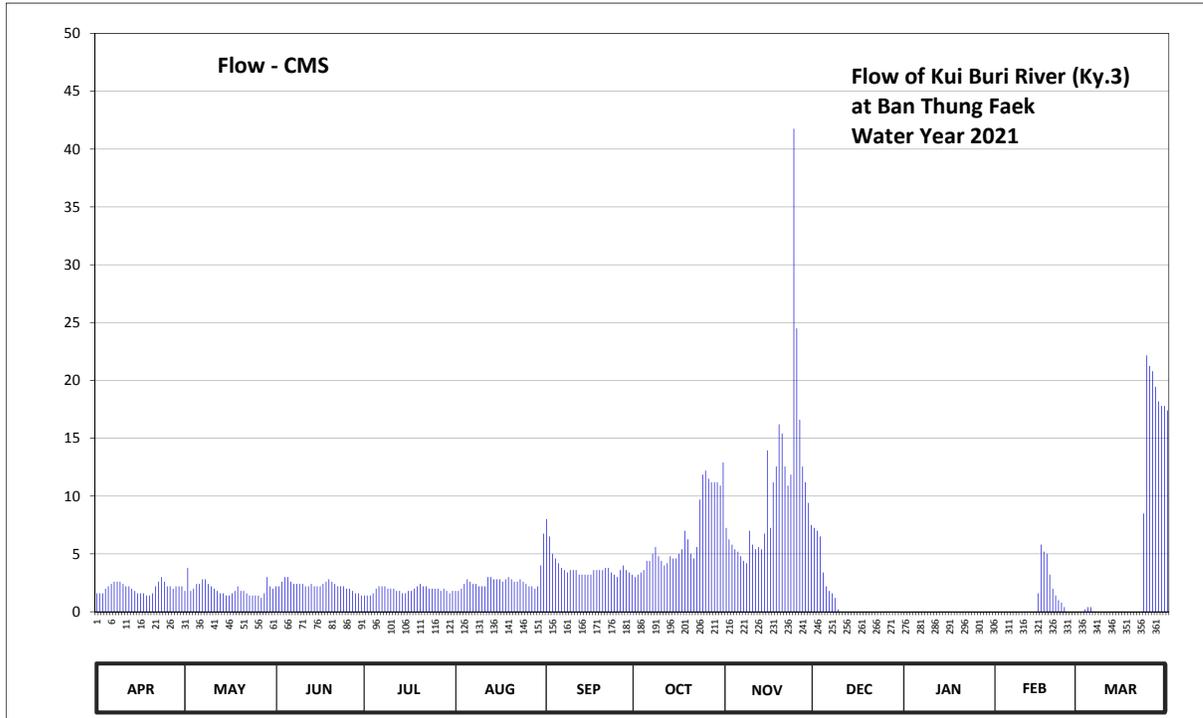
Lat 12 - 05 - 51 N Long 99 - 47 - 19 E

Location : on left bank at Bunchuai Bamrungrat Bridge near Wat Udom Wararam.

	<b>Ban Thung Faek</b>	<b>Amphoe</b>	<b>Kui Buri</b>	<b>Changwat</b>	<b>Prachuap Khiri Khan</b>
<b>Drainage Area</b>	541 sq.km.				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+19.789 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On left bank about 1 meter from the top staff gage.			<b>Elevation</b>	+25.925 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1997 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1997 to date				
<b>Rated by Float</b>	-				
<b>Rated by Current Meter</b>	1997 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 8 discharge measurements made in 2021.				

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.48	20.49	20.51	20.47	20.49	20.78	20.55	20.75	20.75	20.31	20.34	20.37	
2	20.48	20.59	20.51	20.47	20.49	20.72	20.56	20.71	20.74	20.32	20.34	20.40	
3	20.48	20.49	20.53	20.47	20.50	20.65	20.57	20.69	20.72	20.35	20.35	20.41	
4	20.50	20.50	20.55	20.48	20.52	20.63	20.58	20.67	20.57	20.36	20.38	20.42	
5	20.51	20.52	20.55	20.50	20.54	20.61	20.62	20.66	20.51	20.37	20.40	20.42	
6	20.52	20.52	20.53	20.51	20.53	20.59	20.62	20.64	20.49	20.35	20.39	20.39	
7	20.53	20.54	20.52	20.51	20.52	20.58	20.65	20.62	20.48	20.33	20.37	20.38	
8	20.53	20.54	20.52	20.51	20.52	20.57	20.68	20.61	20.46	20.33	20.36	20.38	
9	20.53	20.52	20.52	20.50	20.51	20.58	20.64	20.74	20.41	20.33	20.36	20.38	
10	20.52	20.51	20.52	20.50	20.51	20.58	20.62	20.69	20.39	20.32	20.36	20.37	
11	20.51	20.50	20.51	20.50	20.51	20.58	20.60	20.67	20.37	20.32	20.35	20.36	
12	20.51	20.49	20.51	20.49	20.55	20.56	20.61	20.68	20.36	20.32	20.35	20.36	
13	20.50	20.48	20.52	20.49	20.55	20.56	20.64	20.67	20.35	20.31	20.35	20.36	
14	20.49	20.48	20.51	20.48	20.54	20.56	20.63	20.73	20.34	20.31	20.35	20.36	
15	20.48	20.47	20.51	20.48	20.54	20.56	20.63	20.97	20.34	20.31	20.48	20.35	
16	20.48	20.47	20.51	20.49	20.54	20.56	20.65	20.75	20.36	20.31	20.69	20.35	
17	20.48	20.48	20.52	20.49	20.53	20.58	20.67	20.89	20.38	20.32	20.66	20.38	
18	20.47	20.49	20.53	20.50	20.54	20.58	20.74	20.93	20.37	20.34	20.65	20.38	
19	20.47	20.51	20.54	20.51	20.55	20.58	20.71	21.03	20.37	20.36	20.56	20.38	
20	20.48	20.49	20.53	20.52	20.54	20.58	20.65	21.01	20.36	20.35	20.50	20.37	
21	20.51	20.49	20.52	20.51	20.53	20.59	20.63	20.93	20.34	20.34	20.47	20.36	
22	20.53	20.48	20.51	20.51	20.53	20.59	20.68	20.88	20.33	20.34	20.45	20.36	
23	20.55	20.47	20.51	20.50	20.54	20.57	20.84	20.91	20.33	20.33	20.44	20.80	
24	20.53	20.47	20.51	20.50	20.53	20.56	20.91	21.55	20.33	20.33	20.42	21.17	
25	20.51	20.47	20.50	20.50	20.52	20.55	20.92	21.22	20.32	20.33	20.40	21.15	
26	20.51	20.47	20.50	20.50	20.51	20.58	20.90	21.04	20.32	20.33	20.40	21.14	
27	20.50	20.46	20.49	20.49	20.51	20.60	20.89	20.93	20.32	20.35	20.38	21.11	
28	20.51	20.48	20.48	20.50	20.50	20.58	20.89	20.89	20.32	20.34	20.38	21.08	
29	20.51	20.55	20.48	20.49	20.51	20.57	20.89	20.83	20.32	20.34		21.07	
30	20.51	20.51	20.47	20.48	20.60	20.56	20.88	20.76	20.31	20.33		21.07	
31		20.50		20.49	20.73		20.94		20.31	20.34		21.06	
Mean	20.50	20.50	20.51	20.49	20.53	20.59	20.71	20.84	20.41	20.33	20.43	20.58	
Max	20.55	20.59	20.55	20.52	20.73	20.78	20.94	21.55	20.75	20.37	20.69	21.17	21.55
Min	20.47	20.46	20.47	20.47	20.49	20.55	20.55	20.61	20.31	20.31	20.34	20.35	20.31
Annual Max Momentary Gage Height	21.87		m. (MSL.) ,				at 04.00 Hours ,						on Nov 24, 2021
Zero Gage at Bottom Elevation	19.80		m. (MSL.) ,			River Bed	19.87	m. (MSL.)					
Left Bank Elevation		25.46		m. (MSL.) ,									
Right Bank Elevation		24.95		m. (MSL.) ,		Drainage Are	541	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	1.80	2.20	1.40	1.80	8.00	3.00	7.25	7.25	0.00	0.00	0.00	
2	1.60	3.80	2.20	1.40	1.80	6.50	3.20	6.25	7.00	0.00	0.00	0.00	
3	1.60	1.80	2.60	1.40	2.00	5.00	3.40	5.80	6.50	0.00	0.00	0.20	
4	2.00	2.00	3.00	1.60	2.40	4.60	3.60	5.40	3.40	0.00	0.00	0.40	
5	2.20	2.40	3.00	2.00	2.80	4.20	4.40	5.20	2.20	0.00	0.00	0.40	
6	2.40	2.40	2.60	2.20	2.60	3.80	4.40	4.80	1.80	0.00	0.00	0.00	
7	2.60	2.80	2.40	2.20	2.40	3.60	5.00	4.40	1.60	0.00	0.00	0.00	
8	2.60	2.80	2.40	2.20	2.40	3.40	5.60	4.20	1.20	0.00	0.00	0.00	
9	2.60	2.40	2.40	2.00	2.20	3.60	4.80	7.00	0.20	0.00	0.00	0.00	
10	2.40	2.20	2.40	2.00	2.20	3.60	4.40	5.80	0.00	0.00	0.00	0.00	
11	2.20	2.00	2.20	2.00	2.20	3.60	4.00	5.40	0.00	0.00	0.00	0.00	
12	2.20	1.80	2.20	1.80	3.00	3.20	4.20	5.60	0.00	0.00	0.00	0.00	
13	2.00	1.60	2.40	1.80	3.00	3.20	4.80	5.40	0.00	0.00	0.00	0.00	
14	1.80	1.60	2.20	1.60	2.80	3.20	4.60	6.75	0.00	0.00	0.00	0.00	
15	1.60	1.40	2.20	1.60	2.80	3.20	4.60	13.95	0.00	0.00	1.60	0.00	
16	1.60	1.40	2.20	1.80	2.80	3.20	5.00	7.25	0.00	0.00	5.80	0.00	
17	1.60	1.60	2.40	1.80	2.60	3.60	5.40	11.20	0.00	0.00	5.20	0.00	
18	1.40	1.80	2.60	2.00	2.80	3.60	7.00	12.55	0.00	0.00	5.00	0.00	
19	1.40	2.20	2.80	2.20	3.00	3.60	6.25	16.20	0.00	0.00	3.20	0.00	
20	1.60	1.80	2.60	2.40	2.80	3.60	5.00	15.40	0.00	0.00	2.00	0.00	
21	2.20	1.80	2.40	2.20	2.60	3.80	4.60	12.55	0.00	0.00	1.40	0.00	
22	2.60	1.60	2.20	2.20	2.60	3.80	5.60	10.90	0.00	0.00	1.00	0.00	
23	3.00	1.40	2.20	2.00	2.80	3.40	9.70	11.85	0.00	0.00	0.80	8.50	
24	2.60	1.40	2.20	2.00	2.60	3.20	11.85	41.75	0.00	0.00	0.40	22.15	
25	2.20	1.40	2.00	2.00	2.40	3.00	12.20	24.50	0.00	0.00	0.00	21.25	
26	2.20	1.40	2.00	2.00	2.20	3.60	11.50	16.60	0.00	0.00	0.00	20.80	
27	2.00	1.20	1.80	1.80	2.20	4.00	11.20	12.55	0.00	0.00	0.00	19.45	
28	2.20	1.60	1.60	2.00	2.00	3.60	11.20	11.20	0.00	0.00	0.00	18.20	
29	2.20	3.00	1.60	1.80	2.20	3.40	11.20	9.40	0.00	0.00	0.00	17.80	
30	2.20	2.20	1.40	1.60	4.00	3.20	10.90	7.50	0.00	0.00	0.00	17.80	
31		2.00		1.80	6.75		12.90		0.00	0.00		17.40	
<b>Total</b>	62.40	60.60	68.40	58.80	82.75	115.30	205.50	314.60	31.15	0.00	26.40	164.35	1190.25 CMSDAY
<b>Mean</b>	2.08	1.95	2.28	1.90	2.67	3.84	6.63	10.49	1.00	0.00	0.94	5.30	3.26 CMS
<b>Max</b>	3.00	3.80	3.00	2.40	6.75	8.00	12.90	41.75	7.25	0.00	5.80	22.15	41.75 CMS
<b>Min</b>	1.40	1.20	1.40	1.40	1.80	3.00	3.00	4.20	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	5.39	5.24	5.91	5.08	7.15	9.96	17.76	27.18	2.69	0.00	2.28	14.20	102.84 MCM
<b>Momentary Peak</b>	61.05 CMS. at 21.87 m. (MSL.) at 04.00 Hours , on Nov 24, 2021												
<b>Runoff Yield</b>	6.03 Liters/Second/Square KM.			Momentary Peak Yield			112.85 Liters/Second/Square KM.						

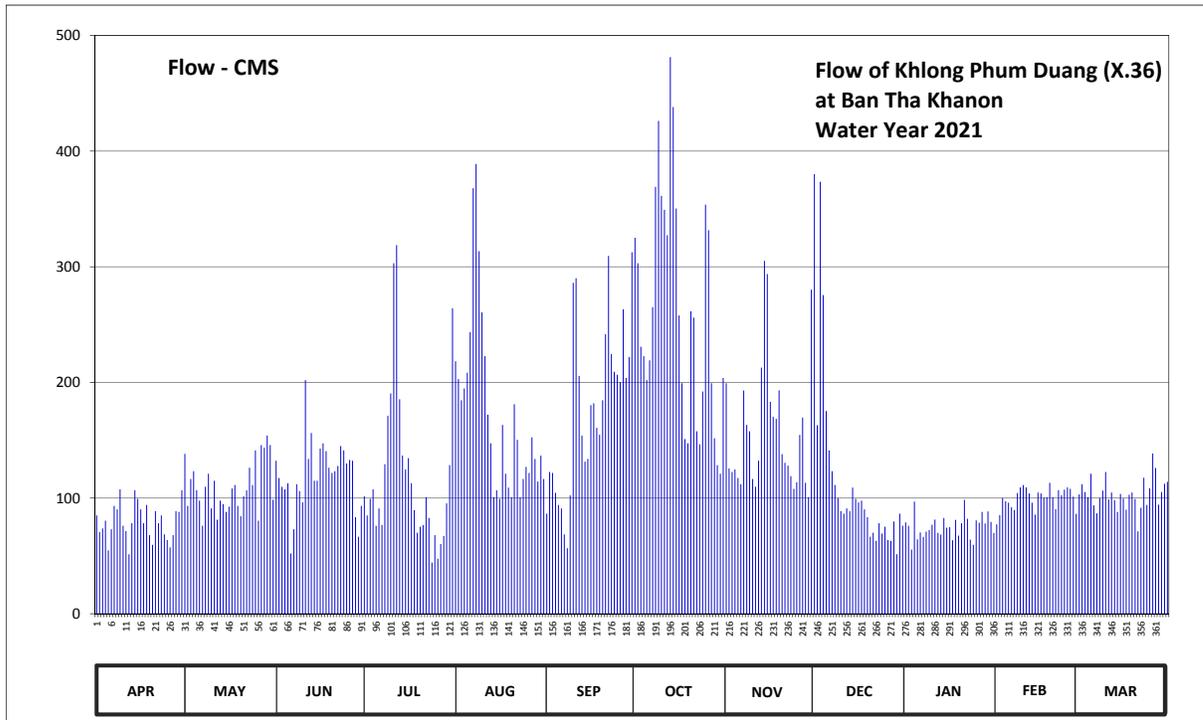
**WATER YEAR : 2021**  
**PENINSULA - UPPER EAST COAST BASIN**  
**Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)**  
Lat 09 - 01 - 46 N Long 98 - 58 - 10 E

Location : on left bank at Ban Tha Khanon.

	<b>Ban</b> Tha Khanon	<b>Amphoe</b> Khiri Ratnikhom	<b>Changwat</b> Surat Thani
<b>Drainage Area</b>	3,035 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the sixth staff gage.	<b>Elevation</b>	+10.520 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1963 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Ratcha Prapha Dam. Stage-discharge relation defined by 14 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	2.71	2.63	2.22	3.68	2.02	4.80	3.47	6.10	1.92	2.35	3.03	
2	1.81	2.11	2.43	2.00	3.51	2.50	4.59	2.54	4.25	1.88	2.58	3.25	
3	1.85	2.42	2.33	2.19	3.30	2.49	3.82	2.50	5.24	1.59	2.95	3.08	
4	1.94	2.51	2.30	2.30	3.42	2.26	3.73	2.53	4.31	2.16	2.88	2.97	
5	1.58	2.29	2.37	1.88	3.57	2.12	3.50	2.43	3.19	1.98	2.85	3.46	
6	1.84	2.17	1.54	2.08	3.96	2.08	3.69	2.36	2.75	2.15	2.75	2.79	
7	2.11	1.88	1.84	1.89	5.19	1.78	4.20	3.40	2.51	2.04	2.69	2.62	
8	2.07	2.33	2.36	2.59	5.38	1.61	5.20	3.04	2.35	2.17	3.06	2.95	
9	2.30	2.48	2.28	3.14	4.69	2.23	5.70	2.97	2.20	2.21	3.18	3.11	
10	1.88	2.08	2.15	3.37	4.15	4.42	5.13	2.42	2.05	2.34	3.23	3.49	
11	1.82	2.40	3.50	4.59	3.73	4.46	5.02	2.33	2.02	2.47	3.18	2.92	
12	1.53	1.95	2.65	4.74	3.15	3.54	4.82	2.63	2.08	2.14	3.05	3.07	
13	1.91	2.17	2.95	3.31	2.83	2.92	6.16	3.62	2.05	2.10	2.85	2.90	
14	2.29	2.13	2.40	2.69	2.21	2.62	5.80	4.61	2.32	2.51	2.59	2.65	
15	2.19	2.04	2.40	2.53	2.29	2.65	5.03	5.59	2.19	2.27	3.07	3.04	
16	2.07	2.10	2.77	2.66	2.19	3.25	4.12	4.54	2.15	2.28	3.05	2.94	
17	1.91	2.31	2.83	2.37	3.04	3.27	3.47	4.37	2.17	1.95	2.96	2.70	
18	2.12	2.35	2.74	2.06	2.48	3.01	2.88	4.34	2.07	2.46	2.97	3.02	
19	1.77	2.11	2.55	1.80	2.32	2.93	2.83	4.66	1.98	2.07	3.28	3.07	
20	1.65	1.99	2.49	1.87	2.21	3.30	4.16	3.80	1.75	2.38	2.97	2.93	
21	2.05	2.22	2.51	1.89	3.26	3.94	4.10	3.65	1.80	2.91	2.71	2.18	
22	1.91	2.29	2.57	2.21	2.87	4.65	2.97	3.60	1.70	2.49	3.12	2.74	
23	2.00	2.55	2.80	1.97	2.21	3.75	2.82	3.42	1.91	1.97	3.01	3.39	
24	1.78	2.35	2.75	1.42	2.42	3.58	3.39	3.15	1.79	1.82	3.13	2.80	
25	1.71	2.75	2.60	1.77	2.56	3.55	5.06	3.29	1.87	2.45	3.18	3.16	
26	1.62	1.94	2.64	1.47	2.49	3.48	4.86	4.11	1.71	2.39	3.15	3.81	
27	1.77	2.81	2.63	1.66	2.90	4.18	3.47	4.36	1.70	2.65	2.98	3.56	
28	2.05	2.78	1.98	1.76	2.65	3.52	2.89	3.28	1.93	2.37	2.61	2.81	
29	2.04	2.92	1.75	2.14	2.39	3.72	2.58	2.97	1.53	2.66		3.08	
30	2.29	2.81	2.11	2.58	2.69	4.68	2.48	5.49	2.02	2.41		3.26	
31		2.18		4.19	2.42		3.52		1.88	2.14		3.30	
Mean	1.93	2.33	2.46	2.43	3.10	3.15	4.09	3.52	2.44	2.24	2.94	3.03	
Max	2.30	2.92	3.50	4.74	5.38	4.68	6.16	5.59	6.10	2.91	3.28	3.81	6.16
Min	1.53	1.88	1.54	1.42	2.19	1.61	2.48	2.33	1.53	1.59	2.35	2.18	1.42
Annual Max Momentary Gage Height	6.77		m. (MSL.) ,				at 03.00 Hours , on Dec 1, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed -2.42	m. (MSL.)					
Left Bank Elevation		10.21		m. (MSL.) ,									
Right Bank Elevation		11.30		m. (MSL.) ,			Drainage Are	3,035	Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	85.00	138.25	132.25	101.50	218.20	86.50	325.00	199.30	380.00	79.00	77.25	103.20		
2	70.75	93.25	117.25	85.00	202.90	122.50	303.00	125.50	163.00	76.00	85.30	112.00		
3	73.75	116.50	109.75	99.25	184.50	121.75	230.80	122.50	373.40	55.35	100.00	105.20		
4	80.50	123.25	107.50	107.50	194.80	104.50	222.70	124.75	275.45	97.00	97.20	100.80		
5	54.70	106.75	112.75	76.00	208.30	94.00	202.00	117.25	175.20	64.40	96.00	121.00		
6	73.00	97.75	52.10	91.00	243.40	91.00	219.10	112.00	141.25	70.25	92.00	93.60		
7	93.25	76.00	73.00	76.75	367.90	68.60	265.00	193.00	123.25	66.40	89.60	86.80		
8	90.25	109.75	112.00	129.25	388.80	56.70	369.00	163.20	111.25	70.95	104.40	100.00		
9	107.50	121.00	106.00	171.20	313.45	102.25	426.00	157.75	100.00	72.35	109.20	106.40		
10	76.00	91.00	96.25	190.45	260.50	286.00	361.30	116.50	88.75	76.90	111.20	122.50		
11	71.50	115.00	202.00	303.00	222.70	290.00	349.20	109.75	86.50	81.45	109.20	98.80		
12	51.45	81.25	133.75	318.70	172.00	205.60	327.20	132.25	91.00	69.90	104.00	104.80		
13	78.25	97.75	156.25	185.35	147.25	154.00	481.20	212.80	88.75	68.50	96.00	98.00		
14	106.75	94.75	115.00	136.75	100.75	131.50	438.00	305.05	109.00	82.85	85.65	88.00		
15	99.25	88.00	115.00	124.75	106.75	133.75	350.30	293.65	99.25	74.45	104.80	103.60		
16	90.25	92.50	142.75	134.50	99.25	180.25	257.80	183.20	96.25	74.80	104.00	99.60		
17	78.25	108.25	147.25	112.75	163.20	181.95	199.30	170.20	97.75	63.50	100.40	90.00		
18	94.00	111.25	140.50	89.50	121.00	160.80	151.00	168.40	90.25	81.10	100.80	102.80		
19	67.90	93.25	126.25	70.00	109.00	154.75	147.25	193.10	83.50	67.45	113.20	104.80		
20	59.50	84.25	121.75	75.25	100.75	184.50	261.40	138.00	66.50	78.30	100.80	99.20		
21	88.75	101.50	123.25	76.75	181.10	241.60	256.00	130.50	70.00	98.40	90.40	71.30		
22	78.25	106.75	127.75	100.75	150.25	309.25	157.75	128.00	63.00	82.15	106.80	91.60		
23	85.00	126.25	145.00	82.75	100.75	224.50	146.50	119.00	78.25	64.10	102.40	117.60		
24	68.60	111.25	141.25	44.30	116.50	209.20	192.15	108.00	69.30	59.60	107.20	94.00		
25	63.70	141.25	130.00	67.90	127.00	206.50	353.60	113.60	75.25	80.75	109.20	108.40		
26	57.40	80.50	133.00	47.55	121.75	200.20	331.60	154.60	63.70	78.65	108.00	138.50		
27	67.90	145.75	132.25	60.20	152.50	263.20	199.30	169.60	63.00	88.00	101.20	126.00		
28	88.75	143.50	83.50	67.20	133.75	203.80	151.75	113.20	79.75	77.95	86.40	94.40		
29	88.00	154.00	66.50	95.50	114.25	221.80	128.50	100.80	51.45	88.40	105.20	94.00		
30	106.75	145.75	93.25	128.50	136.75	312.40	121.00	280.15	86.50	79.35	112.40	112.40		
31	98.50			264.10	116.50		203.80		76.00	69.90	114.00			
Total	2394.90	3394.75	3595.10	3713.95	5376.50	5303.35	8128.50	4755.60	3616.50	2338.15	2792.60	3214.50	48624.40	CMSDAY
Mean	79.83	109.51	119.84	119.80	173.44	176.78	262.21	158.52	116.66	75.42	99.74	103.69	133.22	CMS
Max	107.50	154.00	202.00	318.70	388.80	312.40	481.20	305.05	380.00	98.40	113.20	138.50	481.20	CMS
Min	51.45	76.00	52.10	44.30	99.25	56.70	121.00	100.80	51.45	55.35	77.25	71.30	44.30	CMS
Runoff	206.92	293.31	310.62	320.89	464.53	458.21	702.30	410.88	312.47	202.02	241.28	277.73	4201.15	MCM
Momentary Peak	553.55 CMS. at 6.77 m. (MSL.) at 03.00 Hours , on Dec 1, 2021													
Runoff Yield	43.89 Liters/Second/Square KM.			Momentary Peak Yield				182.39 Liters/Second/Square KM.						

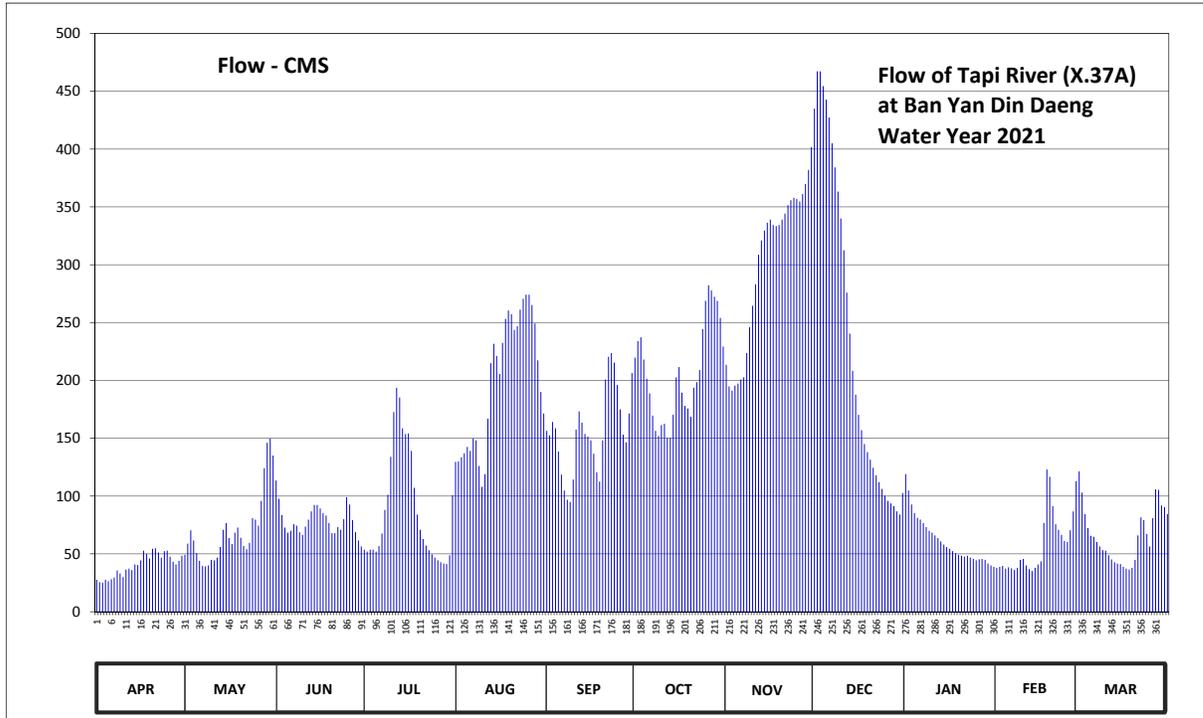
**WATER YEAR : 2021**  
**PENINSULA - UPPER EAST COAST BASIN**  
**Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)**  
 Lat 08 - 34 - 16 N Long 99 - 15 - 14 E

Location : on left bank at Tambon Yan Din Daeng.

	<b>Ban</b>	<b>Yan Din Daeng</b>	<b>Amphoe</b>	<b>Phrasaeng</b>	<b>Changwat</b>	<b>Surat Thani</b>
<b>Drainage Area</b>	5,397	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	on the left bank downstream				<b>Elevation</b>	+12.682 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1969 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1969 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1969 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 10.770 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records Very good. Stage-discharge relation defined by 15 discharge measurements made in 2021.					

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.64	5.18	6.72	5.29	7.05	7.57	8.62	8.53	10.83	6.84	4.90	6.89	
2	4.59	5.42	6.37	5.25	7.06	7.50	8.80	8.23	11.07	6.53	4.92	6.49	
3	4.58	5.71	6.04	5.29	7.13	7.71	8.84	8.17	11.07	6.26	4.94	6.06	
4	4.64	5.49	5.77	5.29	7.20	7.61	8.60	8.24	10.98	6.08	4.88	5.76	
5	4.61	5.22	5.66	5.25	7.31	7.23	8.34	8.27	10.89	5.98	4.91	5.59	
6	4.65	5.05	5.70	5.37	7.24	6.83	8.13	8.33	10.77	5.94	4.89	5.57	
7	4.69	4.94	5.84	5.64	7.45	6.53	7.81	8.36	10.60	5.87	4.85	5.46	
8	4.84	4.93	5.81	6.15	7.42	6.35	7.57	8.67	10.41	5.78	4.90	5.36	
9	4.78	4.95	5.67	6.45	6.98	6.31	7.49	8.95	10.22	5.70	5.07	5.28	
10	4.70	5.07	5.61	7.14	6.60	6.74	7.66	9.18	10.00	5.66	5.09	5.27	
11	4.86	5.06	5.79	7.86	6.84	7.59	7.68	9.39	9.71	5.60	4.95	5.17	
12	4.88	5.12	5.94	8.21	7.76	7.87	7.46	9.67	9.31	5.54	4.87	5.08	
13	4.85	5.35	6.12	8.07	8.55	7.70	7.46	9.80	8.88	5.47	4.83	5.02	
14	4.97	5.72	6.25	7.61	8.77	7.52	7.82	9.89	8.45	5.40	4.90	4.99	
15	4.96	5.87	6.25	7.52	8.64	7.48	8.36	9.96	8.11	5.35	4.97	4.98	
16	5.06	5.54	6.18	7.53	8.41	7.42	8.50	9.99	7.82	5.31	5.04	4.92	
17	5.27	5.41	6.08	7.24	8.78	7.19	8.14	9.94	7.58	5.26	5.87	4.88	
18	5.20	5.66	6.03	6.58	9.04	6.87	7.95	9.93	7.36	5.22	6.92	4.86	
19	5.10	5.77	5.87	6.05	9.13	6.70	7.91	9.94	7.22	5.18	6.79	4.90	
20	5.31	5.55	5.65	5.72	9.09	7.42	7.79	9.99	7.09	5.16	6.23	5.07	
21	5.32	5.37	5.65	5.52	8.92	8.33	8.21	10.04	6.95	5.14	5.84	5.60	
22	5.23	5.30	5.78	5.38	8.96	8.63	8.29	10.11	6.82	5.16	5.72	5.99	
23	5.12	5.44	5.72	5.28	9.14	8.67	8.46	10.15	6.69	5.12	5.61	5.93	
24	5.26	5.97	5.95	5.19	9.25	8.56	8.93	10.17	6.56	5.09	5.48	5.63	
25	5.27	5.94	6.40	5.12	9.29	8.25	9.23	10.16	6.43	5.06	5.46	5.36	
26	5.14	5.81	6.26	5.06	9.29	7.90	9.38	10.14	6.33	5.08	5.71	5.97	
27	5.03	6.33	5.93	5.02	9.19	7.51	9.33	10.20	6.28	5.09	6.12	6.55	
28	4.97	6.94	5.67	4.99	8.99	7.39	9.27	10.28	6.23	5.07	6.71	6.54	
29	5.05	7.38	5.49	4.98	8.59	7.84	9.23	10.39	6.12	4.99		6.24	
30	5.16	7.45	5.36	5.17	8.15	8.42	9.05	10.57	6.05	4.95		6.21	
31		7.16		6.44	7.84		8.74		6.48	4.92		6.06	
Mean	4.96	5.68	5.92	6.05	8.20	7.52	8.36	9.52	8.36	5.48	5.41	5.60	
Max	5.32	7.45	6.72	8.21	9.29	8.67	9.38	10.57	11.07	6.84	6.92	6.89	11.07
Min	4.58	4.93	5.36	4.98	6.60	6.31	7.46	8.17	6.05	4.92	4.83	4.86	4.58
Annual Max Momentary Gage Height	11.11		m. (MSL.) ,										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.74		m. (MSL.)				
Left Bank Elevation		10.91		m. (MSL.) ,									
Right Bank Elevation		10.76		m. (MSL.) ,		Drainage Are	5,397		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	27.60	49.20	113.40	53.60	129.50	156.35	219.60	213.45	434.90	119.00	38.00	121.50		
2	25.60	58.80	97.65	52.00	130.00	152.50	234.00	194.80	467.15	104.85	38.80	103.05		
3	25.20	70.40	83.60	53.60	133.50	164.05	237.20	191.20	467.15	92.70	39.60	84.40		
4	27.60	61.60	72.80	53.60	137.00	158.55	218.00	195.40	454.40	85.20	37.20	72.40		
5	26.40	50.80	68.40	52.00	142.50	138.50	201.40	197.20	442.70	81.20	38.40	65.60		
6	28.00	44.00	70.00	56.80	139.00	118.50	188.80	200.80	427.10	79.60	37.60	64.80		
7	29.60	39.60	75.60	67.60	149.75	104.85	169.60	202.60	405.00	76.80	36.00	60.40		
8	35.60	39.20	74.40	88.00	148.10	96.75	156.35	223.60	384.10	73.20	38.00	56.40		
9	33.20	40.00	68.80	101.25	126.00	94.95	151.95	246.00	363.20	70.00	44.80	53.20		
10	30.00	44.80	66.40	134.00	108.00	114.30	161.30	264.40	340.00	68.40	45.60	52.80		
11	36.40	44.40	73.60	172.60	119.00	157.45	162.40	283.10	312.45	66.00	40.00	48.80		
12	37.20	46.80	79.60	193.60	166.80	173.20	150.30	308.65	275.90	63.60	36.80	45.20		
13	36.00	56.00	86.80	185.20	214.75	163.50	150.30	321.00	240.40	60.80	35.20	42.80		
14	40.80	70.80	92.25	158.55	231.60	153.60	170.20	329.55	208.25	58.00	38.00	41.60		
15	40.40	76.80	92.25	153.60	221.20	151.40	202.60	336.20	187.60	56.00	40.80	41.20		
16	44.40	63.60	89.20	154.15	205.65	148.10	211.50	339.05	170.20	54.40	43.60	38.80		
17	52.80	58.40	85.20	139.00	232.40	136.50	189.40	334.30	156.90	52.40	76.80	37.20		
18	50.00	68.40	83.20	107.10	253.20	120.50	178.00	333.35	145.00	50.80	123.00	36.40		
19	46.00	72.80	76.80	84.00	260.40	112.50	175.60	334.30	138.00	49.20	116.55	38.00		
20	54.40	64.00	68.00	70.80	257.20	148.10	168.45	339.05	131.50	48.40	91.35	44.80		
21	54.80	56.80	68.00	62.80	243.60	200.80	193.60	344.20	124.50	47.60	75.60	66.00		
22	51.20	54.00	73.20	57.20	246.80	220.40	198.40	351.55	118.00	48.40	70.80	81.60		
23	46.80	59.60	70.80	53.20	261.20	223.60	208.90	355.75	112.05	46.80	66.40	79.20		
24	52.40	80.80	80.00	49.60	270.50	215.40	244.40	357.85	106.20	45.60	61.20	67.20		
25	52.80	79.60	99.00	46.80	274.10	196.00	268.70	356.80	100.35	44.40	60.40	56.40		
26	47.60	74.40	92.70	44.40	274.10	175.00	282.20	354.70	95.85	45.20	70.40	80.80		
27	43.20	95.85	79.20	42.80	265.20	153.05	277.70	361.00	93.60	45.60	86.80	105.75		
28	40.80	124.00	68.80	41.60	249.20	146.50	272.30	369.80	91.35	44.80	112.95	105.30		
29	44.00	146.00	61.60	41.20	217.35	171.40	268.70	381.90	86.80	41.60		91.80		
30	48.40	149.75	56.40	48.80	190.00	206.30	254.00	401.70	84.00	40.00		90.45		
31		135.00		100.80	171.40		229.20		102.60	38.80		84.40		
<b>Total</b>	<b>1,209.20</b>	<b>2,176.20</b>	<b>2,367.65</b>	<b>2,720.25</b>	<b>6,169.00</b>	<b>4,672.60</b>	<b>6,395.05</b>	<b>9,023.25</b>	<b>7,267.20</b>	<b>1,899.35</b>	<b>1,640.65</b>	<b>2,058.25</b>	<b>47,598.65</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>40.31</b>	<b>70.20</b>	<b>78.92</b>	<b>87.75</b>	<b>199.00</b>	<b>155.75</b>	<b>206.29</b>	<b>300.78</b>	<b>234.43</b>	<b>61.27</b>	<b>58.59</b>	<b>66.40</b>	<b>130.41</b>	<b>CMS</b>
<b>Max</b>	<b>54.80</b>	<b>149.75</b>	<b>113.40</b>	<b>193.60</b>	<b>274.10</b>	<b>223.60</b>	<b>282.20</b>	<b>401.70</b>	<b>467.15</b>	<b>119.00</b>	<b>123.00</b>	<b>121.50</b>	<b>467.15</b>	<b>CMS</b>
<b>Min</b>	<b>25.20</b>	<b>39.20</b>	<b>56.40</b>	<b>41.20</b>	<b>108.00</b>	<b>94.95</b>	<b>150.30</b>	<b>191.20</b>	<b>84.00</b>	<b>38.80</b>	<b>35.20</b>	<b>36.40</b>	<b>25.20</b>	<b>CMS</b>
<b>Runoff</b>	<b>104.47</b>	<b>188.02</b>	<b>204.56</b>	<b>235.03</b>	<b>533.00</b>	<b>403.71</b>	<b>552.53</b>	<b>779.61</b>	<b>627.89</b>	<b>164.10</b>	<b>141.75</b>	<b>177.83</b>	<b>4,112.52</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>472.95 CMS, at 11.11 m. (MSL), at 19.00 Hours, on Dec 2, 2021</b>													
<b>Runoff Yield</b>	<b>24.16 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 87.63 Liters/Second/Square KM.</b>										

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

Lat 10 - 30 - 26 N Long 99 - 07 - 04 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

	Ban Wang Phai	Amphoe Mueang	Changwat Chumphon
<b>Drainage Area</b>	294 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+2.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 3.30 meters from the top staff gage.	<b>Elevation</b>	+10.624 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1991 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1991 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1991 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 9.350 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.97	2.46	2.12	2.03	4.12	2.59	2.77	2.91	7.50	2.53	2.29	2.61	
2	1.97	2.24	2.15	2.17	3.75	2.63	3.24	3.18	6.42	2.51	2.30	2.58	
3	2.01	2.24	2.38	2.35	3.48	2.58	2.83	4.19	5.06	2.49	2.32	2.55	
4	2.02	2.19	2.29	2.43	3.60	2.77	2.76	3.03	4.35	2.49	2.37	2.52	
5	2.20	2.12	2.33	2.19	3.45	2.74	2.82	3.84	3.96	2.48	2.34	2.50	
6	2.14	2.18	2.69	2.29	3.40	2.62	2.77	3.24	3.70	2.47	2.36	2.48	
7	2.22	2.33	2.27	2.35	4.54	2.66	2.96	3.12	3.52	2.46	2.36	2.47	
8	2.15	2.67	2.26	2.31	4.01	2.66	6.66	3.03	3.37	2.45	2.32	2.47	
9	2.12	2.45	2.94	2.54	3.44	4.08	6.82	3.09	3.26	2.43	2.30	2.53	
10	2.17	2.24	3.72	2.88	3.16	4.93	5.91	4.80	3.17	2.43	2.29	2.51	
11	2.13	2.16	3.32	5.99	3.08	4.37	4.60	6.30	3.10	2.44	2.25	2.48	
12	2.05	2.12	3.40	3.72	3.13	3.88	5.45	7.54	3.04	2.43	2.25	2.46	
13	2.07	2.05	2.83	2.93	2.91	3.36	6.23	9.39	2.98	2.43	2.27	2.45	
14	2.04	2.27	2.52	2.68	2.85	3.13	4.87	8.55	2.93	2.41	2.29	2.44	
15	2.24	2.49	2.45	2.56	2.86	3.01	5.66	7.33	2.89	2.40	2.44	2.43	
16	2.53	2.08	2.36	2.49	2.77	2.97	5.07	6.35	2.85	2.40	3.11	2.42	
17	2.36	2.43	2.45	2.43	2.72	2.89	4.40	5.49	2.82	2.39	3.51	2.41	
18	2.16	2.31	2.29	2.38	2.69	2.87	3.92	6.78	2.79	2.38	2.94	2.40	
19	2.11	2.24	2.23	2.39	2.67	2.74	3.57	7.33	2.76	2.37	3.11	2.40	
20	2.07	2.22	2.21	2.78	2.69	2.70	3.34	5.31	2.73	2.37	2.77	2.46	
21	2.03	2.22	2.25	3.96	3.12	2.83	3.52	4.55	2.72	2.35	2.66	2.79	
22	2.01	2.37	2.18	3.69	2.76	3.28	3.40	4.21	2.70	2.35	2.63	2.73	
23	1.98	2.74	2.14	2.99	2.66	4.02	3.10	4.99	2.68	2.35	2.82	2.98	
24	1.98	2.69	2.13	2.72	2.63	3.27	3.43	6.19	2.68	2.34	2.83	3.00	
25	1.97	2.58	2.13	3.27	2.65	3.13	3.63	5.82	2.76	2.34	2.69	2.81	
26	2.12	3.09	2.22	3.85	2.97	3.09	4.02	5.62	2.75	2.33	2.63	3.32	
27	2.06	2.58	2.14	3.23	2.84	2.96	3.51	4.33	2.64	2.33	2.61	3.17	
28	2.00	2.64	2.09	3.10	2.73	3.23	3.19	3.91	2.57	2.32	2.64	2.74	
29	2.35	2.36	2.06	3.28	2.69	2.90	3.04	3.66	2.59	2.31		2.99	
30	2.23	2.24	2.03	4.98	2.64	2.81	3.09	3.96	2.58	2.31		3.33	
31		2.16		4.58	2.61		3.06		2.55	2.30		3.57	
Mean	2.12	2.36	2.42	3.02	3.08	3.12	3.99	5.07	3.30	2.40	2.56	2.68	
Max	2.53	3.09	3.72	5.99	4.54	4.93	6.82	9.39	7.50	2.53	3.51	3.57	9.39
Min	1.97	2.05	2.03	2.03	2.61	2.58	2.76	2.91	2.55	2.30	2.25	2.40	1.97
Annual Max Momentary Gage Height	9.58		m. (MSL.) ,			at 17.00 Hours ,	on Nov 13, 2021						
Zero Gage at Bottom Elevation	2.00		m. (MSL.) ,			River Bed	1.55	m. (MSL.)					
Left Bank Elevation		9.34		m. (MSL.) ,									
Right Bank Elevation		10.38		m. (MSL.) ,		Drainage Area	294	Square Kilometers					



## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

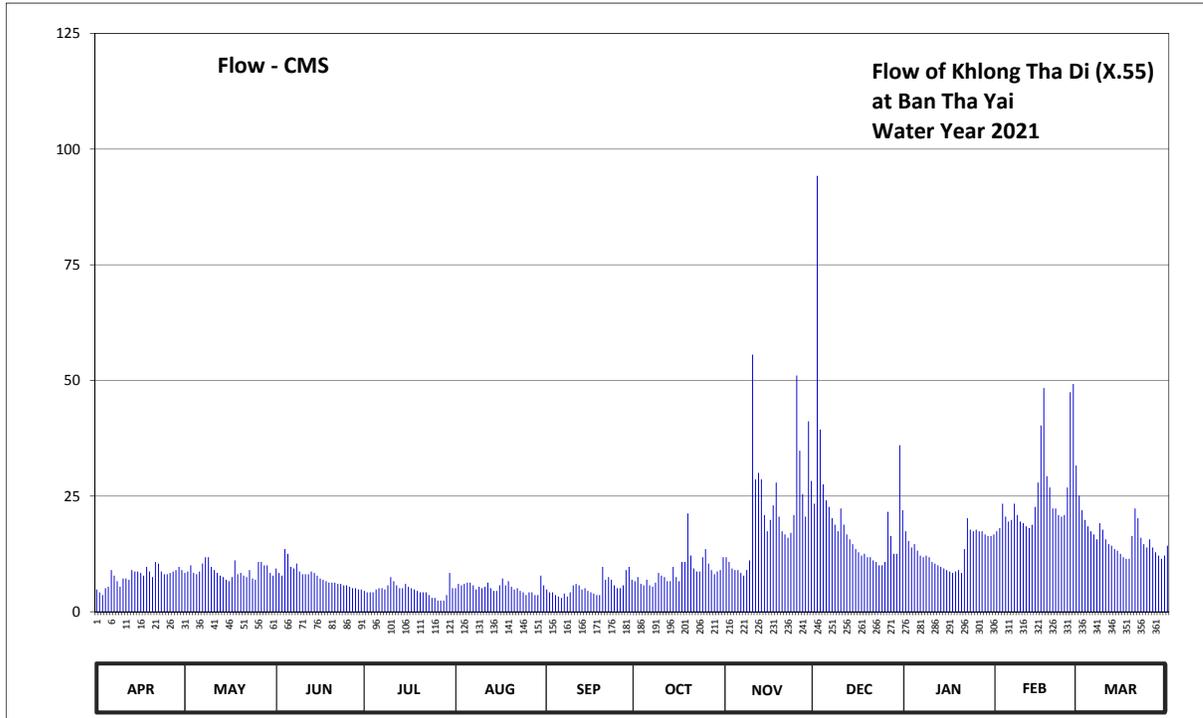
Lat 08 - 23 - 59 N Long 99 - 49 - 59 E

Location : on middle at the bridge.

	<b>Ban</b> Tha Yai	<b>Amphoe</b> Lan Saka	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	105 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 63.60 meters from fourth staff gage.	<b>Elevation</b>	+24.748 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 - 1971 , 1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1967 - 1971 , 1989 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 22.240 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.86	18.98	19.01	18.85	18.87	18.86	18.92	19.08	19.41	19.24	19.24	19.46	
2	18.84	18.99	18.98	18.84	18.90	18.84	18.95	19.05	20.88	19.18	19.26	19.37	
3	18.82	19.03	18.96	18.84	18.89	18.84	18.90	19.01	19.83	19.14	19.41	19.31	
4	18.87	18.98	19.13	18.84	18.90	18.82	18.89	19.00	19.53	19.16	19.33	19.27	
5	18.88	18.97	19.10	18.86	18.91	18.81	18.93	19.00	19.43	19.12	19.30	19.24	
6	19.00	18.99	19.02	18.87	18.91	18.80	18.89	18.98	19.39	19.09	19.31	19.22	
7	18.96	19.04	19.01	18.87	18.89	18.83	18.88	18.96	19.32	19.08	19.41	19.19	
8	18.92	19.08	19.04	18.86	18.86	18.81	18.91	19.00	19.28	19.09	19.34	19.29	
9	18.88	19.08	18.99	18.89	18.88	18.84	18.98	19.06	19.24	19.08	19.30	19.25	
10	18.94	19.02	18.97	18.95	18.87	18.89	18.96	20.19	19.38	19.05	19.29	19.19	
11	18.94	19.00	18.97	18.92	18.88	18.90	18.95	19.56	19.28	19.04	19.27	19.16	
12	18.93	18.98	18.97	18.89	18.91	18.89	18.92	19.60	19.22	19.03	19.26	19.15	
13	19.00	18.96	18.99	18.87	18.87	18.86	18.92	19.56	19.19	19.02	19.28	19.13	
14	18.99	18.95	18.98	18.87	18.85	18.87	19.02	19.34	19.16	19.01	19.39	19.12	
15	18.99	18.93	18.96	18.90	18.85	18.85	18.95	19.24	19.13	19.00	19.54	19.10	
16	18.98	18.92	18.94	18.88	18.89	18.84	18.92	19.31	19.11	18.99	19.85	19.08	
17	18.96	18.95	18.93	18.87	18.94	18.83	19.05	19.40	19.09	18.98	20.03	19.07	
18	19.02	19.06	18.92	18.86	18.89	18.82	19.05	19.54	19.10	18.99	19.58	19.07	
19	18.99	18.97	18.91	18.85	18.92	18.82	19.35	19.33	19.08	19.00	19.51	19.21	
20	18.95	18.98	18.91	18.84	18.88	19.02	19.09	19.24	19.08	18.98	19.38	19.38	
21	19.05	18.96	18.91	18.84	18.86	18.93	19.01	19.22	19.06	19.13	19.38	19.32	
22	19.04	18.95	18.90	18.84	18.87	18.95	18.99	19.20	19.05	19.32	19.34	19.20	
23	18.99	19.00	18.90	18.82	18.85	18.93	18.99	19.23	19.03	19.25	19.33	19.16	
24	18.97	18.94	18.89	18.80	18.84	18.89	19.08	19.34	19.03	19.24	19.34	19.14	
25	18.97	18.93	18.89	18.80	18.82	18.87	19.13	20.09	19.05	19.25	19.51	19.19	
26	18.98	19.05	18.88	18.78	18.84	18.87	19.04	19.72	19.36	19.24	20.01	19.14	
27	18.99	19.05	18.87	18.78	18.84	18.89	19.00	19.47	19.21	19.24	20.05	19.11	
28	19.00	19.03	18.87	18.78	18.82	19.00	18.97	19.33	19.10	19.22	19.64	19.09	
29	19.02	19.03	18.86	18.82	18.82	19.02	18.99	19.87	19.10	19.21		19.07	
30	19.00	18.98	18.86	18.98	18.96	18.93	19.00	19.55	19.75	19.21		19.09	
31		18.96		18.87	18.89		19.08		19.37	19.22		19.15	
Mean	18.96	18.99	18.95	18.86	18.88	18.88	18.99	19.35	19.30	19.12	19.46	19.19	
Max	19.05	19.08	19.13	18.98	18.96	19.02	19.35	20.19	20.88	19.32	20.05	19.46	20.88
Min	18.82	18.92	18.86	18.78	18.82	18.80	18.88	18.96	19.03	18.98	19.24	19.07	18.78
Annual Max Momentary Gage Height	22.78		m. (MSL.) ,				at 10.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	16.26	m. (MSL.)					
Left Bank Elevation		22.23	m. (MSL.) ,										
Right Bank Elevation		22.43	m. (MSL.) ,			Drainage Are	105	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.80	8.40	9.35	4.50	5.10	4.80	6.60	11.80	23.35	17.40	17.40	25.10		
2	4.20	8.70	8.40	4.20	6.00	4.20	7.50	10.75	94.20	15.30	18.10	21.95		
3	3.60	10.05	7.80	4.20	5.70	4.20	6.00	9.35	39.35	13.90	23.35	19.85		
4	5.10	8.40	13.55	4.20	6.00	3.60	5.70	9.00	27.55	14.60	20.55	18.45		
5	5.40	8.10	12.50	4.80	6.30	3.30	6.90	9.00	24.05	13.20	19.50	17.40		
6	9.00	8.70	9.70	5.10	6.30	3.00	5.70	8.40	22.65	12.15	19.85	16.70		
7	7.80	10.40	9.35	5.10	5.70	3.90	5.40	7.80	20.20	11.80	23.35	15.65		
8	6.60	11.80	10.40	4.80	4.80	3.30	6.30	9.00	18.80	12.15	20.90	19.15		
9	5.40	11.80	8.70	5.70	5.40	4.20	8.40	11.10	17.40	11.80	19.50	17.75		
10	7.20	9.70	8.10	7.50	5.10	5.70	7.80	55.55	22.30	10.75	19.15	15.65		
11	7.20	9.00	8.10	6.60	5.40	6.00	7.50	28.60	18.80	10.40	18.45	14.60		
12	6.90	8.40	8.10	5.70	6.30	5.70	6.60	30.00	16.70	10.05	18.10	14.25		
13	9.00	7.80	8.70	5.10	5.10	4.80	6.60	28.60	15.65	9.70	18.80	13.55		
14	8.70	7.50	8.40	5.10	4.50	5.10	9.70	20.90	14.60	9.35	22.65	13.20		
15	8.70	6.90	7.80	6.00	4.50	4.50	7.50	17.40	13.55	9.00	27.90	12.50		
16	8.40	6.60	7.20	5.40	5.70	4.20	6.60	19.85	12.85	8.70	40.25	11.80		
17	7.80	7.50	6.90	5.10	7.20	3.90	10.75	23.00	12.15	8.40	48.35	11.45		
18	9.70	11.10	6.60	4.80	5.70	3.60	10.75	27.90	12.50	8.70	29.30	11.45		
19	8.70	8.10	6.30	4.50	6.60	3.60	21.25	20.55	11.80	9.00	26.85	16.35		
20	7.50	8.40	6.30	4.20	5.40	9.70	12.15	17.40	11.80	8.40	22.30	22.30		
21	10.75	7.80	6.30	4.20	4.80	6.90	9.35	16.70	11.10	13.55	22.30	20.20		
22	10.40	7.50	6.00	4.20	5.10	7.50	8.70	16.00	10.75	20.20	20.90	16.00		
23	8.70	9.00	6.00	3.60	4.50	6.90	8.70	17.05	10.05	17.75	20.55	14.60		
24	8.10	7.20	5.70	3.00	4.20	5.70	11.80	20.90	10.05	17.40	20.90	13.90		
25	8.10	6.90	5.70	3.00	3.60	5.10	13.55	51.05	10.75	17.75	26.85	15.65		
26	8.40	10.75	5.40	2.40	4.20	5.10	10.40	34.80	21.60	17.40	47.45	13.90		
27	8.70	10.75	5.10	2.40	4.20	5.70	9.00	25.45	16.35	17.40	49.25	12.85		
28	9.00	10.05	5.10	2.40	3.60	9.00	8.10	20.55	12.50	16.70	31.60	12.15		
29	9.70	10.05	4.80	3.60	3.60	9.70	8.70	41.15	12.50	16.35		11.45		
30	9.00	8.40	4.80	8.40	7.80	6.90	9.00	28.25	36.00	16.35		12.15		
31		7.80		5.10	5.70		11.80		21.95	16.70		14.25		
Total	232.55	273.55	227.15	144.90	164.10	159.80	274.80	647.85	623.85	412.30	714.40	486.20	4361.45	CMSDAY
Mean	7.75	8.82	7.57	4.67	5.29	5.33	8.86	21.59	20.12	13.30	25.51	15.68	11.95	CMS
Max	10.75	11.80	13.55	8.40	7.80	9.70	21.25	55.55	94.20	20.20	49.25	25.10	94.20	CMS
Min	3.60	6.60	4.80	2.40	3.60	3.00	5.40	7.80	10.05	8.40	17.40	11.45	2.40	CMS
Runoff	20.09	23.63	19.63	12.52	14.18	13.81	23.74	55.97	53.90	35.62	61.72	42.01	376.83	MCM
Momentary Peak	335.20 CMS. at 22.78 m. (MSL.) at 10.00 Hours , on Dec 2, 2021													
Runoff Yield	113.80 Liters/Second/Square KM.			Momentary Peak Yield				3192.38 Liters/Second/Square KM.						

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Tha Sae at Ban Tha Sae , Chumphon (X.64)

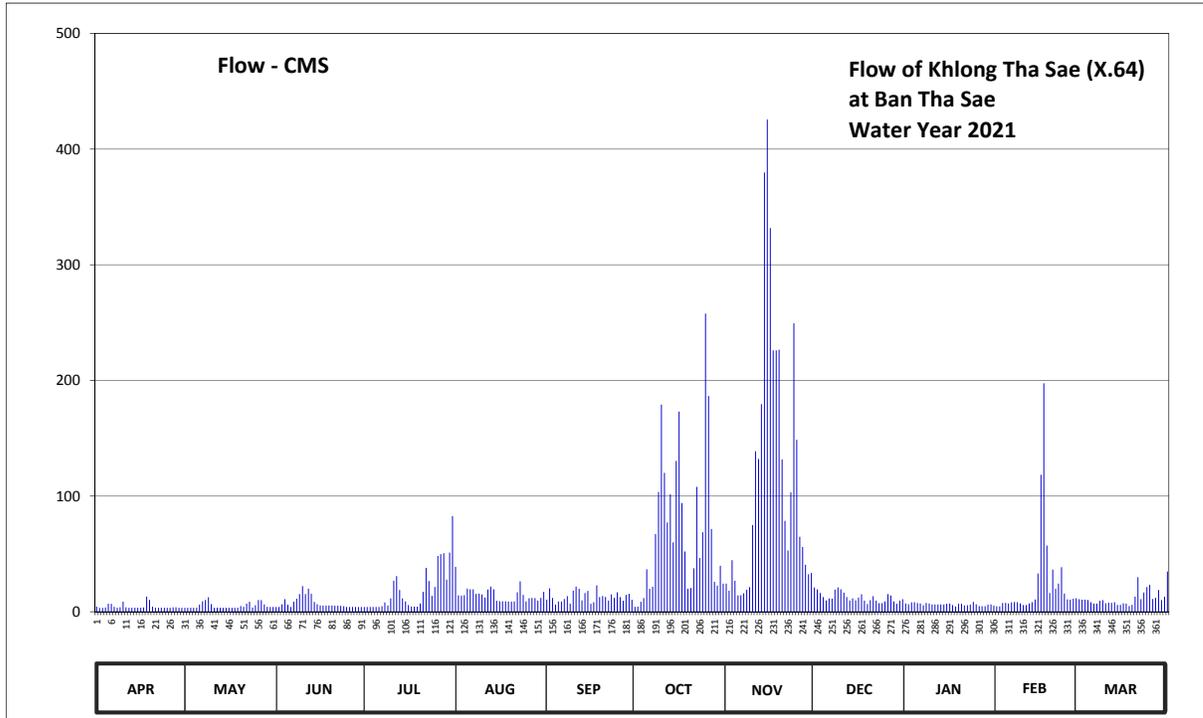
Lat 10 - 39 - 56 N Long 99 - 10 - 16 E

Location : on left bank near the Land Cooperation Office.

	<b>Ban Tha Sae</b>	<b>Amphoe Tha Sae</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	945 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+6.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 6 meters from the top staff gage.	<b>Elevation</b>	+19.207 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	1973 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1974 - 1975 , 1982 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1974 - 1975 , 1982 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.74	7.64	7.71	7.71	9.95	8.35	7.72	9.32	9.14	8.02	7.77	8.38	
2	7.63	7.64	7.71	7.71	8.68	9.08	7.74	8.94	9.02	7.94	7.76	8.35	
3	7.63	7.64	7.95	7.71	8.66	8.49	8.16	10.18	8.81	8.11	8.06	8.34	
4	7.67	7.64	8.38	7.71	8.69	7.92	8.48	9.44	8.56	8.13	8.07	8.32	
5	7.99	7.64	7.91	7.71	9.07	8.18	9.87	8.68	8.28	8.05	8.01	8.12	
6	7.98	7.92	7.71	7.71	9.03	8.18	9.05	8.69	8.46	8.01	8.11	8.00	
7	7.72	8.21	8.16	7.78	9.03	8.40	9.17	8.80	8.42	7.86	8.14	8.00	
8	7.64	8.32	8.42	8.09	8.76	8.63	10.97	9.00	9.01	8.05	8.12	8.25	
9	7.68	8.55	8.75	7.83	8.78	8.00	11.99	9.15	9.14	8.02	8.02	8.30	
10	8.16	7.96	9.21	8.46	8.73	8.95	13.70	11.20	9.03	7.93	7.87	8.03	
11	7.68	7.64	8.75	9.44	8.52	9.18	12.40	12.86	8.83	7.93	7.87	8.08	
12	7.64	7.64	9.06	9.63	9.02	9.06	11.26	12.70	8.57	7.93	8.02	8.07	
13	7.64	7.64	8.77	8.99	9.18	8.27	11.94	13.71	8.28	7.93	8.12	8.13	
14	7.64	7.64	8.15	8.45	9.03	8.81	10.73	16.51	8.45	7.93	8.36	7.89	
15	7.64	7.64	7.96	8.19	8.25	8.93	12.66	16.87	8.29	7.99	9.72	7.89	
16	7.64	7.64	7.85	7.87	8.21	7.98	13.58	16.05	8.52	8.02	12.36	8.03	
17	7.67	7.64	7.84	7.75	8.21	8.13	11.74	14.60	8.74	7.88	14.07	8.00	
18	8.60	7.64	7.83	7.74	8.20	9.24	10.47	14.60	8.26	7.75	10.64	7.79	
19	8.31	7.65	7.83	7.74	8.18	8.56	9.05	14.61	7.96	7.98	8.81	7.89	
20	7.74	7.80	7.83	8.02	8.18	8.64	9.10	12.69	8.30	7.99	9.86	8.60	
21	7.64	7.72	7.82	8.88	8.19	8.58	9.90	11.30	8.63	7.85	9.05	9.59	
22	7.64	8.00	7.82	9.92	8.85	8.26	12.10	10.50	8.26	7.86	9.32	8.39	
23	7.64	8.17	7.81	9.43	9.41	8.73	10.26	11.98	8.04	7.92	9.94	8.84	
24	7.64	7.65	7.78	8.65	8.70	8.50	11.02	15.02	8.04	8.15	8.78	9.15	
25	7.64	7.86	7.71	9.16	8.19	8.85	15.15	13.08	8.19	7.94	8.37	9.26	
26	7.64	8.32	7.71	10.33	8.47	8.56	13.85	10.89	8.75	7.79	8.35	8.40	
27	7.68	8.30	7.71	10.39	8.49	8.25	11.10	10.60	8.67	7.78	8.43	8.50	
28	7.68	7.93	7.71	10.42	8.48	8.70	9.39	10.02	8.19	7.78	8.47	8.99	
29	7.64	7.72	7.71	9.49	8.26	8.77	9.23	9.70	7.98	7.92		8.30	
30	7.64	7.71	7.71	10.44	8.49	8.33	9.99	9.74	8.26	7.93		8.59	
31		7.71		11.42	8.88		9.32		8.38	7.84		9.79	
Mean	7.75	7.83	8.04	8.73	8.67	8.55	10.68	11.71	8.50	7.94	8.87	8.40	
Max	8.60	8.55	9.21	11.42	9.95	9.24	15.15	16.87	9.14	8.15	14.07	9.79	16.87
Min	7.63	7.64	7.71	7.71	8.18	7.92	7.72	8.68	7.96	7.75	7.76	7.79	7.63
Annual Max Momentary Gage Height	17.11		m. (MSL.) ,				at 15.00 Hours ,						on Nov 15, 2021
Zero Gage at Bottom Elevation		6.00	m. (MSL.) ,				River Bed	6.51	m. (MSL.)				
Left Bank Elevation		17.49	m. (MSL.) ,										
Right Bank Elevation		17.13	m. (MSL.) ,				Drainage Are	945	Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.40	3.40	4.10	4.10	38.75	10.50	4.20	24.40	21.10	7.20	4.70	10.80		
2	3.30	3.40	4.10	4.10	14.20	20.20	4.40	18.10	19.30	6.40	4.60	10.50		
3	3.30	3.40	6.50	4.10	13.90	11.90	8.60	44.50	16.15	8.10	7.60	10.40		
4	3.70	3.40	10.80	4.10	14.35	6.20	11.80	26.80	12.60	8.30	7.70	10.20		
5	6.90	3.40	6.10	4.10	20.05	8.80	36.75	14.20	9.80	7.50	7.10	8.20		
6	6.80	6.20	4.10	4.10	19.45	8.80	19.75	14.35	11.60	7.10	8.10	7.00		
7	4.20	9.10	8.60	4.80	19.45	11.00	21.55	16.00	11.20	5.60	8.40	7.00		
8	3.40	10.20	11.20	7.90	15.40	13.45	67.10	19.00	19.15	7.50	8.20	9.50		
9	3.80	12.50	15.25	5.30	15.70	7.00	103.60	21.25	21.10	7.20	7.20	10.00		
10	8.60	6.60	22.20	11.60	14.95	18.25	179.00	75.00	19.45	6.30	5.70	7.30		
11	3.80	3.40	15.25	26.80	12.20	21.70	120.00	138.70	16.45	6.30	5.70	7.80		
12	3.40	3.40	19.90	30.75	19.30	19.90	77.10	132.00	12.70	6.30	7.20	7.70		
13	3.40	3.40	15.55	18.85	21.70	9.70	101.60	179.50	9.80	6.30	8.20	8.30		
14	3.40	3.40	8.50	11.50	19.45	16.15	59.90	379.75	11.50	6.30	10.60	5.90		
15	3.40	3.40	6.60	8.90	9.50	17.95	130.40	425.45	9.90	6.90	33.00	5.90		
16	3.40	3.40	5.50	5.70	9.10	6.80	173.00	331.75	12.20	7.20	118.40	7.30		
17	3.70	3.40	5.40	4.50	9.10	8.30	93.90	226.00	15.10	5.80	197.50	7.00		
18	13.00	3.40	5.30	4.40	9.00	22.80	52.10	226.00	9.60	4.50	57.20	4.90		
19	10.10	3.50	5.30	4.40	8.80	12.60	19.75	226.55	6.60	6.80	16.15	5.90		
20	4.40	5.00	5.30	7.20	8.80	13.60	20.50	131.60	10.00	6.90	36.50	13.00		
21	3.40	4.20	5.20	17.20	8.90	12.80	37.50	78.50	13.45	5.50	19.75	29.80		
22	3.40	7.00	5.20	38.00	16.75	9.60	108.00	53.00	9.60	5.60	24.40	10.90		
23	3.40	8.70	5.10	26.60	26.20	14.95	46.50	103.20	7.40	6.20	38.50	16.60		
24	3.40	3.50	4.80	13.75	14.50	12.00	68.70	249.30	7.40	8.50	15.70	21.25		
25	3.40	5.60	4.10	21.40	8.90	16.75	257.75	148.60	8.90	6.40	10.70	23.20		
26	3.40	10.20	4.10	48.25	11.70	12.60	186.50	64.70	15.25	4.90	10.50	11.00		
27	3.80	10.00	4.10	49.75	11.90	9.50	71.50	56.00	14.05	4.80	11.30	12.00		
28	3.80	6.30	4.10	50.60	11.80	14.50	25.80	40.50	8.90	4.80	11.70	18.85		
29	3.40	4.20	4.10	27.80	9.60	15.55	22.60	32.50	6.80	6.20		10.00		
30	3.40	4.10	4.10	51.20	11.90	10.30	39.75	33.50	9.60	6.30		12.90		
31		4.10		82.70	17.20		24.40		10.80	5.40		34.75		
<b>Total</b>	<b>135.20</b>	<b>165.20</b>	<b>230.45</b>	<b>604.45</b>	<b>462.50</b>	<b>394.15</b>	<b>2194.00</b>	<b>3530.70</b>	<b>387.45</b>	<b>199.10</b>	<b>702.30</b>	<b>365.85</b>	<b>9371.35</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>4.51</b>	<b>5.33</b>	<b>7.68</b>	<b>19.50</b>	<b>14.92</b>	<b>13.14</b>	<b>70.77</b>	<b>117.69</b>	<b>12.50</b>	<b>6.42</b>	<b>25.08</b>	<b>11.80</b>	<b>25.67</b>	<b>CMS</b>
<b>Max</b>	<b>13.00</b>	<b>12.50</b>	<b>22.20</b>	<b>82.70</b>	<b>38.75</b>	<b>22.80</b>	<b>257.75</b>	<b>425.45</b>	<b>21.10</b>	<b>8.50</b>	<b>197.50</b>	<b>34.75</b>	<b>425.45</b>	<b>CMS</b>
<b>Min</b>	<b>3.30</b>	<b>3.40</b>	<b>4.10</b>	<b>4.10</b>	<b>8.80</b>	<b>6.20</b>	<b>4.20</b>	<b>14.20</b>	<b>6.60</b>	<b>4.50</b>	<b>4.60</b>	<b>4.90</b>	<b>3.30</b>	<b>CMS</b>
<b>Runoff</b>	<b>11.68</b>	<b>14.27</b>	<b>19.91</b>	<b>52.22</b>	<b>39.96</b>	<b>34.05</b>	<b>189.56</b>	<b>305.05</b>	<b>33.48</b>	<b>17.20</b>	<b>60.68</b>	<b>31.61</b>	<b>809.68</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>459.50</b>	<b>CMS.</b>	<b>at 17.11 m. (MSL.) at 15.00 Hours , on Nov 15, 2021</b>										
<b>Runoff Yield</b>		<b>27.17</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>486.24</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Ban Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

Lat 08 - 25 - 41 N Long 99 - 51 - 38 E

Location : on left bank upstream side of the bridge.

	Ban Wang Kong	Amphoe Mueang	Changwat	Nakhon Si Thammarat
<b>Drainage Area</b>	33 sq.km.			
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.		<b>Elevation</b>	+21.985 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	1967 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1967 - 1971 , 1980 , 1989 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	1967 - 1971 , 1980 , 1989 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 18.230 m.(MSL.), records are channel flow only.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2021.			

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.73	15.87	15.79	15.73	15.71	15.76	15.77	16.17	17.02	16.27	15.83	16.74	
2	15.72	15.87	15.80	15.74	15.71	15.74	15.75	16.05	19.09	16.17	15.96	16.53	
3	15.72	15.85	15.79	15.74	15.71	15.73	15.74	15.95	17.81	16.12	16.19	16.41	
4	15.74	15.82	15.86	15.78	15.71	15.72	15.74	15.90	17.09	16.31	15.95	16.33	
5	15.74	15.82	15.91	15.79	15.71	15.72	15.76	15.89	16.73	16.17	15.89	16.25	
6	15.80	15.89	15.81	15.78	15.71	15.72	15.74	15.86	16.54	16.10	15.87	16.20	
7	15.81	16.07	15.80	15.75	15.71	15.72	15.73	15.83	16.42	16.06	15.96	16.15	
8	15.76	16.37	15.79	15.75	15.71	15.72	15.74	15.86	16.33	16.06	15.88	16.31	
9	15.74	16.25	15.78	15.76	15.71	15.71	15.75	15.86	16.26	16.04	15.87	16.23	
10	15.76	16.06	15.78	15.77	15.71	15.72	15.75	17.01	16.42	15.99	15.87	16.12	
11	15.76	16.00	15.79	15.77	15.72	15.72	15.75	16.78	16.30	15.97	15.87	16.08	
12	15.89	15.92	15.78	15.75	15.73	15.72	15.75	17.23	16.19	15.95	15.87	16.05	
13	15.92	15.88	15.78	15.75	15.72	15.71	15.73	17.25	16.14	15.93	15.87	16.02	
14	15.84	15.84	15.78	15.75	15.72	15.71	15.78	16.58	16.10	15.91	16.08	16.01	
15	15.82	15.82	15.78	15.76	15.72	15.72	15.75	16.37	16.07	15.90	16.44	15.99	
16	15.79	15.83	15.77	15.74	15.77	15.72	15.74	16.43	16.04	15.89	17.22	15.97	
17	15.86	15.89	15.77	15.74	15.80	15.72	15.89	16.82	16.01	15.88	17.61	15.96	
18	16.29	16.12	15.77	15.73	15.74	15.72	15.81	17.05	16.01	15.88	16.84	15.95	
19	15.86	15.89	15.76	15.73	15.77	15.72	16.54	16.59	15.99	15.90	16.78	16.13	
20	15.81	15.87	15.76	15.72	15.76	15.77	16.02	16.39	16.12	15.87	16.51	16.54	
21	15.96	15.83	15.76	15.72	15.75	15.76	15.87	16.39	15.98	15.87	16.54	16.40	
22	15.87	15.82	15.75	15.72	15.78	15.76	15.86	16.29	15.96	15.91	16.43	16.15	
23	15.86	15.81	15.75	15.72	15.75	15.75	15.84	16.33	15.94	15.87	16.37	16.08	
24	15.82	15.80	15.74	15.71	15.73	15.74	15.89	16.57	15.93	15.87	16.39	16.05	
25	15.88	15.80	15.74	15.71	15.73	15.73	15.98	18.04	16.00	15.87	16.80	16.23	
26	15.93	15.82	15.74	15.71	15.72	15.73	15.87	17.63	16.40	15.87	18.09	16.07	
27	15.97	15.82	15.73	15.71	15.73	15.77	15.82	16.96	16.19	15.89	18.10	16.01	
28	16.01	15.80	15.73	15.71	15.72	15.84	15.81	16.62	16.03	15.87	17.15	15.98	
29	16.02	15.82	15.74	15.71	15.81	15.86	15.89	17.75	16.01	15.87		15.96	
30	15.93	15.79	15.73	15.72	15.90	15.78	15.94	17.35	17.21	15.86		15.96	
31		15.79		15.71	15.79		16.10		16.50	15.85		16.00	
Mean	15.85	15.90	15.78	15.74	15.74	15.74	15.84	16.59	16.41	15.97	16.44	16.16	
Max	16.29	16.37	15.91	15.79	15.90	15.86	16.54	18.04	19.09	16.31	18.10	16.74	19.09
Min	15.72	15.79	15.73	15.71	15.71	15.71	15.73	15.83	15.93	15.85	15.83	15.95	15.71
Annual Max Momentary Gage Height	20.68		m. (MSL.) ,				at 12.00 Hours ,						on Dec 2, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	15.56	m. (MSL.)					
Left Bank Elevation		22.12	m. (MSL.) ,										
Right Bank Elevation		18.22	m. (MSL.) ,			Drainage Are	33	Square Kilometers					



## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

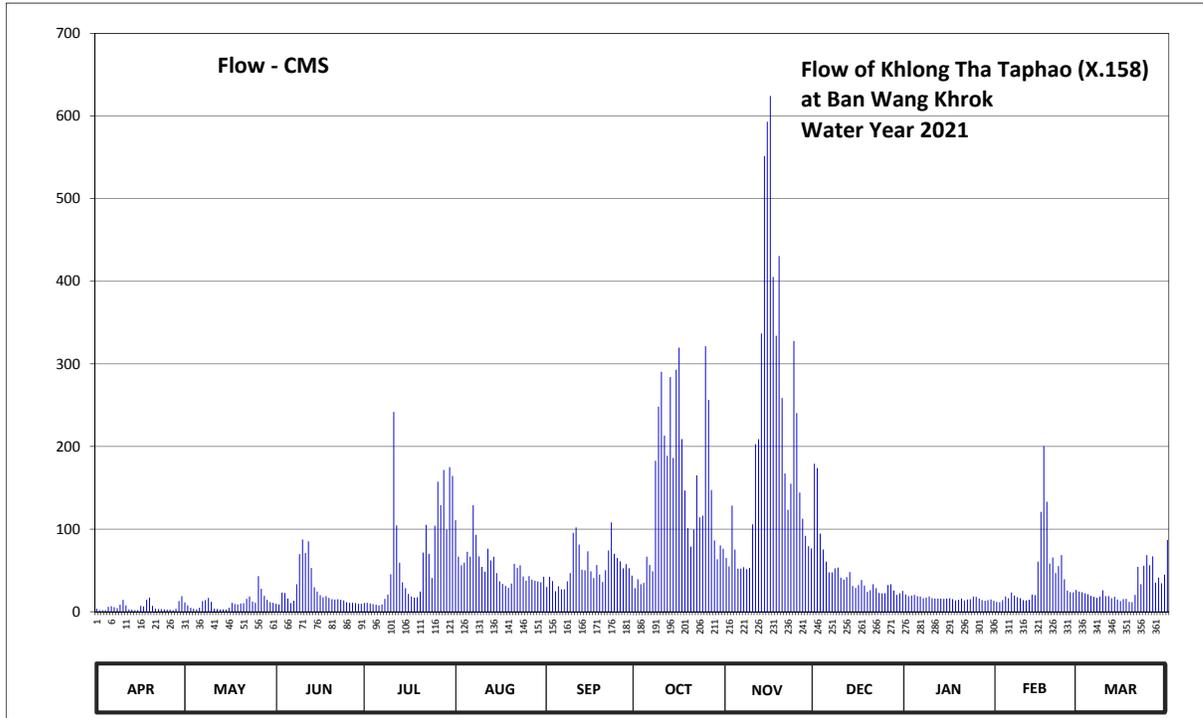
Lat 10 - 35 - 40 N Long 99 - 08 - 30 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

	Ban Wang Khrok	Amphoe Tha Sae	Changwat Chumphon
<b>Drainage Area</b>	1,817 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 1 meters from the top staff gage.	<b>Elevation</b>	+11.796 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.79	2.98	2.94	2.97	5.16	3.45	3.41	4.26	6.38	3.22	3.00	3.31	
2	2.75	2.89	2.92	2.97	4.29	3.76	3.68	4.04	6.29	3.17	2.99	3.29	
3	2.75	2.82	3.28	2.95	4.07	3.63	3.53	5.51	4.84	3.19	3.05	3.26	
4	2.75	2.79	3.27	2.93	4.14	3.32	3.57	4.46	4.46	3.21	3.16	3.23	
5	2.85	2.77	3.10	2.91	4.41	3.47	4.29	3.98	4.17	3.17	3.11	3.18	
6	2.87	2.82	2.96	2.89	4.29	3.38	4.08	3.98	3.88	3.16	3.28	3.15	
7	2.84	3.02	3.03	2.92	5.52	3.38	3.91	4.02	3.88	3.11	3.19	3.12	
8	2.81	3.05	3.53	3.09	4.81	3.62	6.44	3.97	3.99	3.13	3.14	3.16	
9	2.91	3.12	4.35	3.22	4.30	3.86	7.43	4.00	4.01	3.16	3.11	3.35	
10	3.06	3.00	4.70	3.83	4.03	4.86	7.98	5.06	3.73	3.11	3.05	3.17	
11	2.89	2.79	4.38	7.34	3.90	4.99	6.93	6.78	3.67	3.10	3.04	3.17	
12	2.77	2.78	4.66	5.04	4.48	4.58	6.54	6.87	3.75	3.10	3.06	3.11	
13	2.76	2.76	4.00	4.14	4.20	3.95	7.90	8.53	3.89	3.10	3.22	3.15	
14	2.75	2.77	3.44	3.59	4.29	3.94	6.50	10.46	3.48	3.09	3.20	3.07	
15	2.75	2.76	3.31	3.41	3.86	4.42	8.01	10.73	3.42	3.10	4.17	3.02	
16	2.88	2.82	3.20	3.24	3.62	3.91	8.34	10.93	3.51	3.11	5.36	3.08	
17	2.86	2.97	3.14	3.16	3.54	3.72	6.87	9.23	3.66	3.08	6.74	3.09	
18	3.06	2.93	3.17	3.13	3.48	4.08	5.83	8.50	3.49	3.04	5.60	3.00	
19	3.13	2.92	3.12	3.14	3.42	3.82	4.97	9.46	3.30	3.06	4.12	2.99	
20	2.88	2.95	3.08	3.31	3.55	3.60	4.53	7.58	3.35	3.10	4.27	3.21	
21	2.79	2.96	3.07	4.39	4.11	3.94	4.94	6.18	3.53	3.04	3.86	4.03	
22	2.78	3.09	3.08	5.05	4.00	4.44	6.14	5.41	3.41	3.07	4.05	3.53	
23	2.78	3.16	3.06	4.36	4.07	5.11	5.23	5.97	3.27	3.08	4.33	4.06	
24	2.77	3.01	3.04	3.72	3.77	4.36	5.27	8.43	3.26	3.16	3.68	4.33	
25	2.76	2.97	2.99	5.03	3.64	4.26	8.36	7.32	3.26	3.15	3.34	4.07	
26	2.76	3.78	2.97	6.01	3.78	4.18	7.55	5.79	3.51	3.10	3.29	4.30	
27	2.75	3.40	2.97	5.52	3.67	3.99	5.84	5.20	3.53	3.05	3.28	3.58	
28	2.79	3.18	2.96	6.25	3.64	4.10	4.68	4.79	3.34	3.03	3.36	3.73	
29	3.02	3.06	2.94	4.94	3.62	3.99	4.23	4.54	3.21	3.05		3.56	
30	3.17	2.99	2.94	6.31	3.59	3.79	4.56	4.49	3.26	3.07		3.82	
31		2.97		6.13	3.76		4.48		3.33	3.03		4.69	
Mean	2.85	2.98	3.32	4.13	4.03	4.00	5.68	6.35	3.81	3.11	3.68	3.45	
Max	3.17	3.78	4.70	7.34	5.52	5.11	8.36	10.93	6.38	3.22	6.74	4.69	10.93
Min	2.75	2.76	2.92	2.89	3.42	3.32	3.41	3.97	3.21	3.03	2.99	2.99	2.75
Annual Max Momentary Gage Height	11.39		m. (MSL.) ,				at 01.00 Hours ,						on Nov 16, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed 0.77		m. (MSL.)				
Left Bank Elevation		11.50		m. (MSL.) ,									
Right Bank Elevation		11.80		m. (MSL.) ,			Drainage Are 1,817		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.60	11.20	9.60	10.80	110.69	30.00	28.40	65.04	179.15	20.80	12.00	24.40		
2	2.00	7.60	8.80	10.80	66.56	42.40	39.20	54.80	173.83	18.80	11.60	23.60		
3	2.00	4.80	23.20	10.00	56.15	37.20	33.20	128.44	94.46	19.60	14.00	22.40		
4	2.00	3.60	22.80	9.20	59.30	24.80	34.80	75.19	75.19	20.40	18.40	21.20		
5	6.00	2.80	16.00	8.40	72.65	30.80	66.56	52.10	60.65	18.80	16.40	19.20		
6	6.80	4.80	10.40	7.60	66.56	27.20	56.60	52.10	47.60	18.40	23.20	18.00		
7	5.60	12.80	13.20	8.80	128.94	27.20	48.95	53.90	47.60	16.40	19.60	16.80		
8	4.40	14.00	33.20	15.60	92.94	36.80	182.70	51.65	52.55	17.20	17.60	18.40		
9	8.40	16.80	69.61	20.80	67.07	46.70	248.10	53.00	53.45	18.40	16.40	26.00		
10	14.40	12.00	87.36	45.35	54.35	95.47	290.40	105.61	41.20	16.40	14.00	18.80		
11	7.60	3.60	71.13	241.80	48.50	102.06	213.10	202.82	38.80	16.00	13.60	18.80		
12	2.80	3.20	85.33	104.60	76.20	81.27	188.62	208.90	42.00	16.00	14.40	16.40		
13	2.40	2.40	53.00	59.30	62.00	50.75	284.00	336.70	48.05	16.00	20.80	18.00		
14	2.00	2.80	29.60	35.60	66.56	50.30	186.25	551.40	31.20	15.60	20.00	14.80		
15	2.00	2.40	24.40	28.40	46.70	73.16	292.80	593.03	28.80	16.00	60.65	12.80		
16	7.20	4.80	20.00	21.60	36.80	48.95	319.60	624.15	32.40	16.40	120.83	15.20		
17	6.40	10.80	17.60	18.40	33.60	40.80	208.90	405.30	38.40	15.20	200.45	15.60		
18	14.40	9.20	18.80	17.20	31.20	56.60	146.61	334.00	31.60	13.60	133.00	12.00		
19	17.20	8.80	16.80	17.60	28.80	44.90	101.05	430.60	24.00	14.40	58.40	11.60		
20	7.20	10.00	15.20	24.40	34.00	36.00	78.74	258.60	26.00	16.00	65.55	20.40		
21	3.60	10.40	14.80	71.64	57.95	50.30	99.53	167.32	33.20	13.60	46.70	54.35		
22	3.20	15.60	15.20	105.11	53.00	74.17	164.95	123.36	28.40	14.80	55.25	33.20		
23	3.20	18.40	14.40	70.11	56.15	108.15	114.24	154.89	22.80	15.20	68.59	55.70		
24	2.80	12.40	13.60	40.80	42.80	70.11	116.26	327.70	22.40	18.40	39.20	68.59		
25	2.40	10.80	11.60	104.09	37.60	65.04	321.40	240.40	22.40	18.00	25.60	56.15		
26	2.40	43.20	10.80	157.26	43.20	61.10	256.50	144.24	32.40	16.00	23.60	67.07		
27	2.00	28.00	10.80	128.94	38.80	52.55	147.20	112.71	33.20	14.00	23.20	35.20		
28	3.60	19.20	10.40	171.46	37.60	57.50	86.34	91.92	25.60	13.20	26.40	41.20		
29	12.80	14.40	9.60	99.53	36.80	52.55	63.52	79.24	20.40	14.00		34.40		
30	18.80	11.60	9.60	175.01	35.60	43.60	80.26	76.71	22.40	14.80		44.90		
31		10.80		164.36	42.40		76.20		25.20	13.20		86.85		
<b>Total</b>	179.20	343.20	766.83	2004.56	1721.47	1618.43	4574.98	6155.82	1455.33	505.60	1179.42	942.01	21446.85	CMSDAY
<b>Mean</b>	5.97	11.07	25.56	64.66	55.53	53.95	147.58	205.19	46.95	16.31	42.12	30.39	58.76	CMS
<b>Max</b>	18.80	43.20	87.36	241.80	128.94	108.15	321.40	624.15	179.15	20.80	200.45	86.85	624.15	CMS
<b>Min</b>	2.00	2.40	8.80	7.60	28.80	24.80	28.40	51.65	20.40	13.20	11.60	11.60	2.00	CMS
<b>Runoff</b>	15.48	29.65	66.25	173.19	148.74	139.83	395.28	531.86	125.74	43.68	101.90	81.39	1853.01	MCM
<b>Momentary Peak</b>		701.30	CMS.	at 11.39 m. (MSL.)	at 01.00 Hours	, on Nov 16, 2021								
<b>Runoff Yield</b>		32.34	Liters/Second/Square KM.		Momentary Peak Yield	385.97	Liters/Second/Square KM.							

**WATER YEAR : 2021**  
**SOUTHERN PENINSULA EAST COAST**

**Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)**

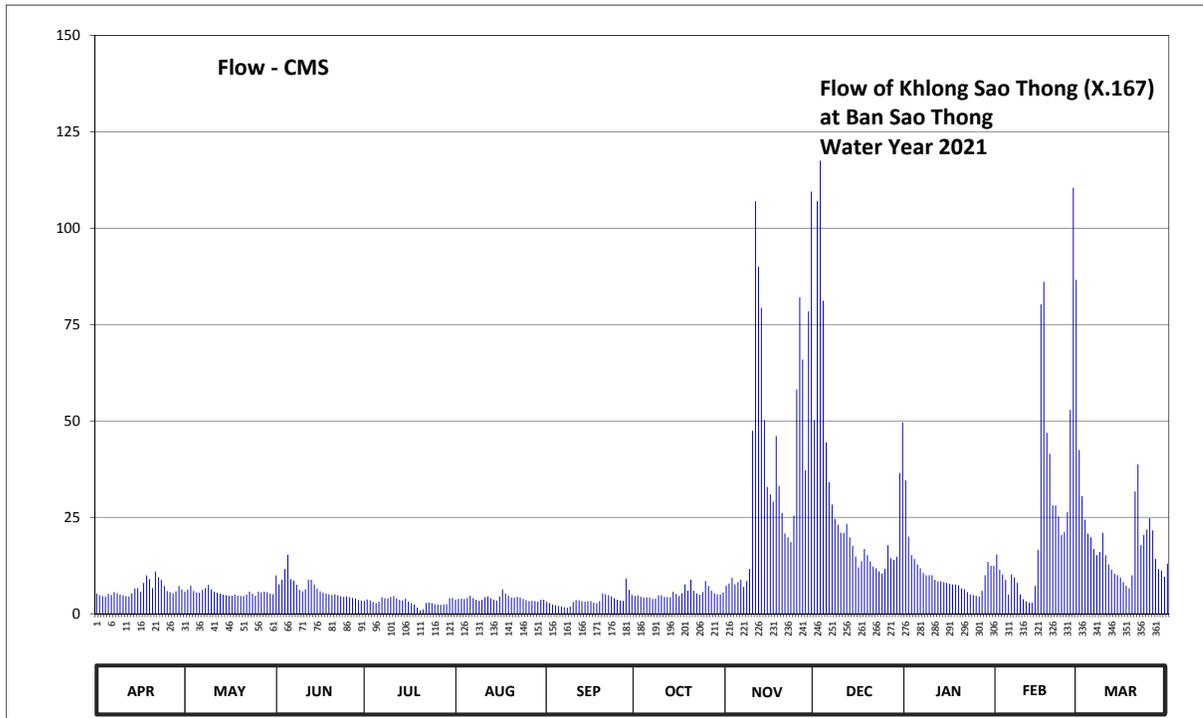
Lat 08 - 16 - 51 N Long 99 - 54 - 21 E

Location : on right bank at the bridge.

	<b>Ban</b> Sao Thong	<b>Amphoe</b> Ron Phibun	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	279 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the staff's house read water level station	<b>Elevation</b>	+12.456 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1986 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 11.360 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.92	8.97	9.24	8.72	8.75	8.69	8.85	9.08	10.00	9.39	8.52	9.71	
2	8.87	9.02	9.10	8.76	8.77	8.66	8.87	9.11	11.40	8.75	8.32	9.22	
3	8.85	9.08	9.17	8.73	8.78	8.62	8.83	9.20	11.61	8.51	8.26	8.96	
4	8.84	8.99	9.34	8.69	8.77	8.60	8.81	9.10	10.87	8.46	8.19	8.79	
5	8.91	8.95	9.52	8.66	8.80	8.58	8.81	9.13	9.79	8.39	8.00	8.74	
6	8.88	8.94	9.18	8.70	8.86	8.56	8.81	9.17	9.37	8.34	8.26	8.59	
7	8.96	9.01	9.16	8.82	8.80	8.53	8.77	9.06	9.13	8.28	8.22	8.51	
8	8.93	9.04	9.09	8.79	8.75	8.52	8.78	9.15	8.97	8.25	8.15	8.55	
9	8.89	9.09	9.01	8.79	8.72	8.56	8.87	9.34	8.90	8.25	8.00	8.80	
10	8.87	9.02	8.98	8.83	8.75	8.69	8.87	9.90	8.80	8.25	7.93	8.51	
11	8.85	8.97	9.02	8.85	8.82	8.74	8.83	11.40	8.80	8.19	7.90	8.39	
12	8.84	8.94	9.17	8.79	8.84	8.73	8.82	11.06	8.91	8.17	7.88	8.32	
13	8.93	8.91	9.17	8.75	8.79	8.71	8.82	10.83	8.74	8.17	7.88	8.27	
14	9.03	8.89	9.10	8.73	8.75	8.70	8.97	10.00	8.63	8.16	8.11	8.25	
15	9.04	8.87	9.03	8.78	8.73	8.71	8.91	9.32	8.49	8.15	8.58	8.22	
16	8.97	8.86	8.98	8.70	8.84	8.71	8.85	9.24	8.35	8.14	10.85	8.16	
17	9.12	8.86	8.95	8.66	9.02	8.67	8.93	9.16	8.43	8.13	10.98	8.11	
18	9.24	8.89	8.92	8.62	8.92	8.66	9.10	9.85	8.59	8.13	9.88	8.08	
19	9.18	8.86	8.90	8.52	8.86	8.71	9.00	9.33	8.51	8.12	9.67	8.25	
20	9.04	8.85	8.88	8.42	8.81	8.92	9.17	9.04	8.43	8.08	9.12	9.27	
21	9.30	8.85	8.90	8.46	8.81	8.90	9.00	8.79	8.36	8.07	9.12	9.56	
22	9.21	8.89	8.87	8.66	8.83	8.87	8.92	8.74	8.34	8.03	9.00	8.64	
23	9.17	8.97	8.84	8.67	8.81	8.84	8.89	8.68	8.30	8.00	8.77	8.77	
24	9.07	8.92	8.83	8.66	8.77	8.79	8.96	9.01	8.27	7.99	8.81	8.84	
25	8.99	8.86	8.84	8.63	8.74	8.75	9.15	10.26	8.33	7.98	9.05	8.98	
26	8.96	8.97	8.82	8.62	8.71	8.73	9.07	10.89	8.64	7.97	10.09	8.83	
27	8.93	8.95	8.80	8.61	8.72	8.72	9.00	10.48	8.47	8.05	11.47	8.46	
28	8.98	8.97	8.78	8.62	8.71	9.19	8.93	9.50	8.45	8.25	10.99	8.33	
29	9.07	8.96	8.74	8.63	8.70	9.01	8.90	10.81	8.49	8.42		8.31	
30	9.02	8.92	8.73	8.79	8.75	8.88	8.90	11.45	9.47	8.37		8.23	
31		8.90		8.80	8.75		8.95		9.98	8.37		8.40	
Mean	9.00	8.94	9.00	8.69	8.79	8.73	8.91	9.67	9.03	8.25	8.93	8.61	
Max	9.30	9.09	9.52	8.85	9.02	9.19	9.17	11.45	11.61	9.39	11.47	9.71	11.61
Min	8.84	8.85	8.73	8.42	8.70	8.52	8.77	8.68	8.27	7.97	7.88	8.08	7.88
Annual Max Momentary Gage Height	12.34		m. (MSL.) ,										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	6.40	m. (MSL.)					
Left Bank Elevation		11.35	m. (MSL.) ,										
Right Bank Elevation		11.66	m. (MSL.) ,			Drainage Are	279	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.24	5.72	9.96	3.34	3.63	3.06	4.58	7.32	50.20	34.56	15.40	42.45		
2	4.77	6.33	7.65	3.72	3.82	2.77	4.77	7.82	107.00	20.00	11.40	30.48		
3	4.58	7.32	8.81	3.44	3.91	2.39	4.39	9.30	117.50	15.20	10.20	24.36		
4	4.48	5.91	11.61	3.06	3.82	2.20	4.20	7.65	81.15	14.20	8.80	20.80		
5	5.15	5.53	15.30	2.77	4.10	2.05	4.20	8.15	44.45	12.80	5.00	19.80		
6	4.86	5.43	8.97	3.15	4.67	1.90	4.20	8.81	34.08	11.80	10.20	16.80		
7	5.62	6.17	8.64	4.29	4.10	1.68	3.82	6.99	28.32	10.60	9.40	15.20		
8	5.34	6.66	7.49	4.01	3.63	1.60	3.91	8.48	24.57	10.00	8.00	16.00		
9	4.96	7.49	6.17	4.01	3.34	1.90	4.77	11.61	23.10	10.00	5.00	21.00		
10	4.77	6.33	5.81	4.39	3.63	3.06	4.77	47.45	21.00	10.00	3.74	15.20		
11	4.58	5.72	6.33	4.58	4.29	3.53	4.39	107.00	21.00	8.80	3.20	12.80		
12	4.48	5.43	8.81	4.01	4.48	3.44	4.29	90.00	23.31	8.40	2.84	11.40		
13	5.34	5.15	8.81	3.63	4.01	3.25	4.29	79.35	19.80	8.40	2.84	10.40		
14	6.50	4.96	7.65	3.44	3.63	3.15	5.72	50.20	17.60	8.20	7.20	10.00		
15	6.66	4.77	6.50	3.91	3.44	3.25	5.15	32.88	14.80	8.00	16.60	9.40		
16	5.72	4.67	5.81	3.15	4.48	3.25	4.58	30.96	12.00	7.80	80.25	8.20		
17	7.98	4.67	5.53	2.77	6.33	2.87	5.34	29.04	13.60	7.60	86.10	7.20		
18	9.96	4.96	5.24	2.39	5.24	2.77	7.65	46.08	16.80	7.60	46.90	6.60		
19	8.97	4.67	5.05	1.60	4.67	3.25	6.00	33.12	15.20	7.40	41.45	10.00		
20	6.66	4.58	4.86	0.85	4.20	5.24	8.81	26.16	13.60	6.60	28.08	31.68		
21	10.95	4.58	5.05	1.15	4.20	5.05	6.00	20.80	12.20	6.40	28.08	38.72		
22	9.47	4.96	4.77	2.77	4.39	4.77	5.24	19.80	11.80	5.60	25.20	17.80		
23	8.81	5.72	4.48	2.87	4.20	4.48	4.96	18.60	11.00	5.00	20.40	20.40		
24	7.16	5.24	4.39	2.77	3.82	4.01	5.62	25.44	10.40	4.82	21.21	21.84		
25	5.91	4.67	4.48	2.49	3.53	3.63	8.48	58.17	11.60	4.64	26.40	24.78		
26	5.62	5.72	4.29	2.39	3.25	3.44	7.16	82.05	17.80	4.46	52.86	21.63		
27	5.34	5.53	4.10	2.30	3.34	3.34	6.00	65.92	14.40	6.00	110.50	14.20		
28	5.81	5.72	3.91	2.39	3.25	9.14	5.34	37.25	14.00	10.00	86.55	11.60		
29	7.16	5.62	3.53	2.49	3.15	6.17	5.05	78.45	14.80	13.40		11.20		
30	6.33	5.24	3.44	4.01	3.63	4.86	5.05	109.50	36.52	12.40		9.60		
31		5.05		4.10	3.63		5.53		49.65	12.40		13.00		
Total	189.18	170.52	197.44	96.24	123.81	105.50	164.26	1164.35	903.25	313.08	773.80	544.54	4745.97	CMSDAY
Mean	6.31	5.50	6.58	3.10	3.99	3.52	5.30	38.81	29.14	10.10	27.64	17.57	13.00	CMS
Max	10.95	7.49	15.30	4.58	6.33	9.14	8.81	109.50	117.50	34.56	110.50	42.45	117.50	CMS
Min	4.48	4.58	3.44	0.85	3.15	1.60	3.82	6.99	10.40	4.46	2.84	6.60	0.85	CMS
Runoff	16.35	14.73	17.06	8.32	10.70	9.12	14.19	100.60	78.04	27.05	66.86	47.05	410.05	MCM
Momentary Peak	158.40	CMS.	at 12.34 m. (MSL.)											at 21.00 Hours , on Nov 29, 2021
Runoff Yield	46.60	Liters/Second/Square KM.												Momentary Peak Yield 567.74 Liters/Second/Square KM.





**WATER YEAR : 2021**  
**PENINSULA - UPPER EAST COAST BASIN**  
**Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)**  
 Lat 08 - 30 - 31 N Long 99 - 30 - 38 E

Location : on left bank at Ban Tha Pho.

	<b>Ban Tha Pho</b>	<b>Amphoe Chawang</b>	<b>Changwat</b>	<b>Nakhon Si Thammarat</b>
<b>Drainage Area</b>	492 sq.km.			
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	The footpath on the left side of the bridge			<b>Elevation</b> +40.509 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	1998 - 2006, 2011 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1998 - 2006, 2011 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	1998 - 2006, 2011 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.			

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.33	32.52	32.79	32.61	32.77	32.85	33.11	32.86	34.01	32.85	32.37	32.88	
2	32.34	32.48	32.71	32.64	32.83	32.84	33.43	32.99	34.79	32.77	32.37	32.75	
3	32.34	32.56	32.68	32.63	32.88	32.83	33.21	32.98	34.98	32.74	32.39	32.67	
4	32.33	32.53	32.81	32.60	32.89	32.80	33.13	32.95	34.04	32.73	32.41	32.62	
5	32.35	32.50	32.72	32.63	32.93	32.78	33.00	32.86	33.77	32.73	32.38	32.56	
6	32.33	32.50	32.70	32.63	32.89	32.77	32.79	32.80	33.62	32.68	32.37	32.51	
7	32.32	32.54	32.79	32.72	32.97	32.76	32.78	32.70	33.50	32.63	32.41	32.49	
8	32.32	32.56	32.70	32.71	32.88	32.75	32.77	32.68	33.41	32.58	32.39	32.46	
9	32.31	32.59	32.65	32.72	32.87	32.76	32.83	32.69	33.33	32.58	32.37	32.49	
10	32.32	32.57	32.66	32.81	32.86	32.80	32.81	33.00	33.22	32.55	32.36	32.45	
11	32.33	32.56	32.72	32.80	32.95	32.87	32.81	33.75	33.20	32.53	32.35	32.42	
12	32.32	32.56	32.70	32.74	33.25	32.86	32.80	33.83	33.03	32.52	32.35	32.41	
13	32.36	32.57	32.78	32.68	33.09	32.83	32.78	34.00	32.96	32.51	32.35	32.39	
14	32.36	32.54	32.73	32.63	33.01	32.83	32.90	33.71	32.93	32.50	32.40	32.38	
15	32.39	32.54	32.73	32.55	33.04	32.82	32.93	33.39	32.91	32.49	32.46	32.37	
16	32.43	32.53	32.70	32.53	33.04	32.80	32.79	33.40	32.88	32.47	32.76	32.40	
17	32.39	32.52	32.68	32.51	33.08	32.76	32.80	33.51	32.86	32.45	33.14	32.41	
18	32.47	32.67	32.71	32.49	33.04	32.76	32.97	33.94	32.82	32.44	32.74	32.42	
19	32.54	32.69	32.70	32.48	32.99	32.80	32.92	33.72	32.81	32.45	32.62	32.41	
20	32.57	32.74	32.70	32.47	33.08	33.13	33.13	33.48	32.79	32.43	32.59	32.51	
21	32.48	32.69	32.71	32.47	32.98	33.03	32.95	33.33	32.71	32.43	32.61	32.59	
22	32.44	32.66	32.70	32.46	33.06	32.97	32.90	33.24	32.69	32.42	32.55	32.49	
23	32.40	32.70	32.66	32.45	33.02	33.03	32.99	33.26	32.68	32.42	32.53	32.45	
24	32.40	32.65	32.72	32.45	32.94	32.93	32.96	33.32	32.67	32.41	32.52	32.47	
25	32.38	32.62	32.65	32.45	32.90	32.88	32.95	34.69	32.65	32.40	32.55	32.47	
26	32.37	32.75	32.60	32.47	32.95	32.88	32.85	35.52	32.66	32.40	33.04	32.51	
27	32.39	32.84	32.60	32.49	32.96	32.87	32.80	34.21	32.74	32.39	33.57	32.48	
28	32.38	32.93	32.58	32.50	32.90	32.91	32.76	33.83	32.66	32.39	33.22	32.47	
29	32.42	32.90	32.58	32.52	32.86	32.94	32.73	34.24	32.64	32.38		32.50	
30	32.50	32.76	32.62	32.66	32.89	32.93	32.68	35.19	33.25	32.38		32.50	
31		32.69		32.69	32.87		32.79		33.11	32.37		32.60	
Mean	32.39	32.63	32.69	32.59	32.96	32.86	32.90	33.54	33.17	32.52	32.58	32.50	
Max	32.57	32.93	32.81	32.81	33.25	33.13	33.43	35.52	34.98	32.85	33.57	32.88	35.52
Min	32.31	32.48	32.58	32.45	32.77	32.75	32.68	32.68	32.64	32.37	32.35	32.37	32.31
Annual Max Momentary Gage Height	37.10	m. (MSL.) ,		at 23.00 Hours , on Nov 25, 2021									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed 30.56 m. (MSL.)									
Left Bank Elevation	40.32	m. (MSL.) ,											
Right Bank Elevation	38.00	m. (MSL.) ,		Drainage Are	492	Square Kilometers							



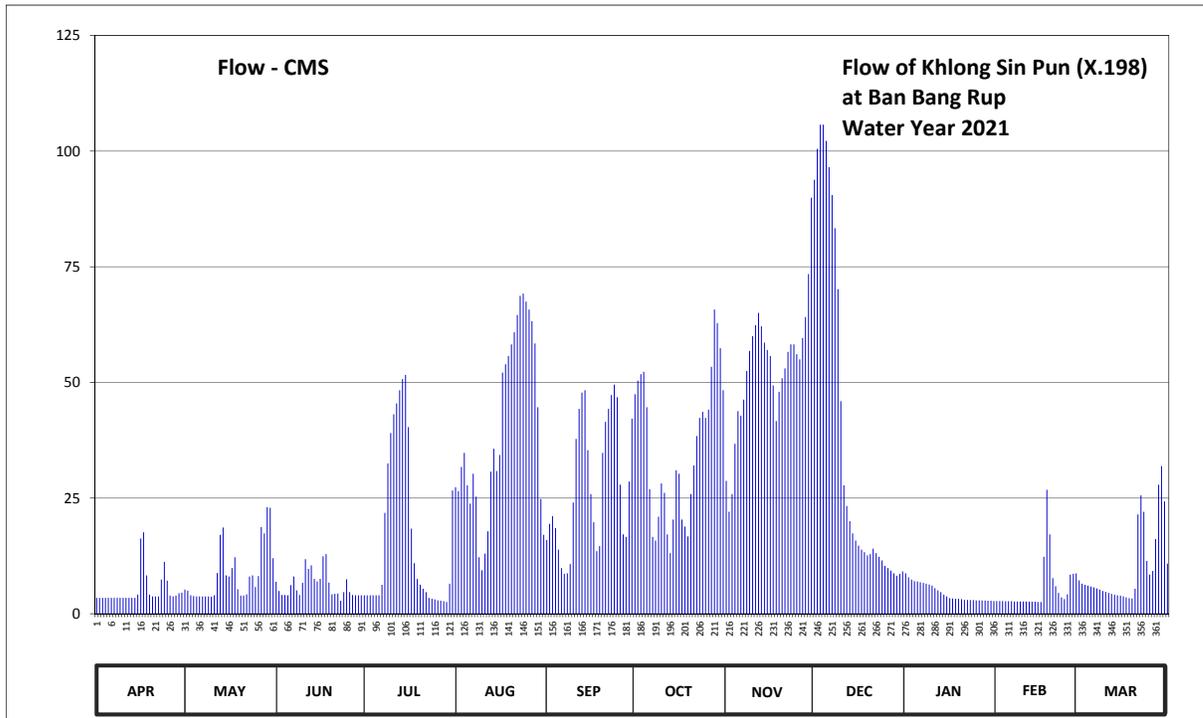
**WATER YEAR : 2021**  
**PENINSULA - UPPER EAST COAST BASIN**  
**Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)**  
 Lat 08 - 24 - 52 N Long 99 - 15 - 00 E

Location : on right bank at Ban Bang Rup.

	<b>Ban</b>	<b>Bang Rup</b>	<b>Amphoe</b>	<b>Phrasaeng</b>	<b>Changwat</b>	<b>Surat Thani</b>
<b>Drainage Area</b>	924	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+9.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	At the footpath of bridge over the water				<b>Elevation</b>	+19.252 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2007 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2007 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2007 to date					
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 16.630 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.					

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.66	10.89	11.10	10.73	12.98	12.04	14.28	13.08	16.26	11.32	10.55	11.14	
2	10.66	10.86	10.85	10.73	12.92	12.35	14.45	12.57	16.47	11.22	10.55	11.05	
3	10.66	10.73	10.74	10.73	13.29	12.49	14.53	12.87	16.62	11.16	10.55	11.02	
4	10.66	10.71	10.74	10.73	13.49	12.27	14.56	13.62	16.62	11.12	10.54	11.00	
5	10.66	10.70	10.73	10.73	13.01	11.85	14.11	14.06	16.52	11.11	10.54	10.97	
6	10.66	10.70	11.01	10.73	12.71	11.45	12.95	14.00	16.35	11.09	10.54	10.95	
7	10.66	10.70	11.24	11.02	13.19	11.31	12.10	14.21	16.15	11.07	10.53	10.92	
8	10.66	10.70	10.87	12.55	12.83	11.32	12.03	14.57	15.91	11.05	10.53	10.89	
9	10.66	10.70	10.74	13.34	11.69	11.54	12.48	14.81	15.41	11.03	10.53	10.85	
10	10.66	10.69	11.07	13.77	11.40	12.73	13.04	14.97	14.19	11.00	10.53	10.83	
11	10.66	10.73	11.65	14.02	11.77	13.69	12.89	15.08	13.01	10.93	10.53	10.80	
12	10.66	11.33	11.43	14.16	12.21	14.09	12.15	15.20	12.67	10.87	10.52	10.77	
13	10.66	12.14	11.51	14.33	13.22	14.30	11.78	15.07	12.40	10.82	10.52	10.75	
14	10.66	12.28	11.18	14.47	13.55	14.33	12.43	14.90	12.17	10.75	10.52	10.73	
15	10.75	11.27	11.11	14.52	13.23	13.53	13.24	14.82	12.03	10.70	10.51	10.72	
16	12.07	11.24	11.18	13.85	13.46	12.87	13.19	14.75	11.93	10.65	10.51	10.70	
17	12.19	11.45	11.71	12.26	14.55	12.38	12.43	14.39	11.85	10.64	11.70	10.67	
18	11.27	11.69	11.76	11.56	14.65	11.82	12.30	13.93	11.80	10.63	12.94	10.65	
19	10.75	10.90	11.08	11.18	14.75	11.92	12.11	14.31	11.73	10.63	12.15	10.64	
20	10.70	10.72	10.76	11.02	14.88	13.49	12.87	14.48	11.76	10.62	11.20	10.91	
21	10.70	10.72	10.77	10.91	15.01	13.92	13.31	14.60	11.87	10.60	10.98	12.52	
22	10.70	10.76	10.78	10.82	15.18	14.09	13.73	14.80	11.78	10.60	10.80	12.85	
23	11.16	11.24	10.56	10.66	15.35	14.27	13.97	14.88	11.70	10.59	10.67	12.57	
24	11.59	11.27	10.82	10.63	15.37	14.40	14.05	14.88	11.62	10.59	10.62	11.61	
25	11.13	10.96	11.17	10.61	15.30	14.24	13.97	14.77	11.50	10.58	10.76	11.29	
26	10.72	11.25	10.82	10.58	15.23	13.02	14.08	14.71	11.45	10.58	11.29	11.38	
27	10.70	12.29	10.74	10.56	15.12	12.15	14.62	14.95	11.39	10.58	11.31	12.06	
28	10.72	12.17	10.73	10.54	14.89	12.10	15.23	15.16	11.32	10.57	11.32	13.02	
29	10.79	12.65	10.73	10.51	14.11	13.07	15.10	15.54	11.26	10.56		13.30	
30	10.81	12.64	10.73	11.05	12.79	13.96	14.84	16.13	11.31	10.56		12.75	
31		11.67		12.93	12.14		14.33		11.37	10.55		11.55	
Mean	10.87	11.25	11.01	11.81	13.69	12.90	13.46	14.54	13.17	10.80	10.87	11.35	
Max	12.19	12.65	11.76	14.52	15.37	14.40	15.23	16.13	16.62	11.32	12.94	13.30	16.62
Min	10.66	10.69	10.56	10.51	11.40	11.31	11.78	12.57	11.26	10.55	10.51	10.64	10.51
Annual Max Momentary Gage Height	16.65		m. (MSL.) ,				at 20.00 Hours ,						on Dec 3, 2021
Zero Gage at Bottom Elevation	9.00		m. (MSL.) ,			River Bed	9.10		m. (MSL.)				
Left Bank Elevation	16.81		m. (MSL.) ,										
Right Bank Elevation	16.62		m. (MSL.) ,		Drainage Are	924	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.45	5.22	6.90	3.98	27.33	15.94	47.46	28.72	93.80	8.72	2.75	7.22	
2	3.45	4.98	4.90	3.98	26.52	19.43	50.38	22.04	100.45	7.87	2.75	6.50	
3	3.45	3.98	4.05	3.98	31.75	21.08	51.78	25.85	105.70	7.38	2.75	6.26	
4	3.45	3.83	4.05	3.98	34.75	18.51	52.30	36.71	105.70	7.06	2.70	6.10	
5	3.45	3.75	3.98	3.98	27.74	13.85	44.62	43.79	102.20	6.98	2.70	5.86	
6	3.45	3.75	6.18	3.98	23.78	9.88	26.93	42.80	96.50	6.82	2.70	5.70	
7	3.45	3.75	8.04	6.26	30.26	8.64	16.60	46.27	90.50	6.66	2.65	5.46	
8	3.45	3.75	5.06	21.80	25.31	8.72	15.83	52.48	83.30	6.50	2.65	5.22	
9	3.45	3.75	4.05	32.50	12.20	10.73	20.96	56.80	70.15	6.34	2.65	4.90	
10	3.45	3.68	6.66	39.04	9.40	24.03	28.16	60.00	45.94	6.10	2.65	4.74	
11	3.45	3.98	11.80	43.13	13.00	37.80	26.12	62.36	27.74	5.54	2.65	4.50	
12	3.45	8.81	9.69	45.44	17.82	44.29	17.15	65.00	23.28	5.06	2.60	4.28	
13	3.45	17.04	10.45	48.31	30.70	47.80	13.10	62.14	20.00	4.66	2.60	4.13	
14	3.45	18.62	7.54	50.73	35.65	48.31	20.36	58.60	17.37	4.13	2.60	3.98	
15	4.13	8.30	6.98	51.60	30.85	35.35	31.00	57.00	15.83	3.75	2.55	3.90	
16	16.27	8.04	7.54	40.33	34.30	25.85	30.26	55.70	14.73	3.38	2.55	3.75	
17	17.59	9.88	12.40	18.39	52.13	19.77	20.36	49.33	13.85	3.30	12.30	3.53	
18	8.30	12.20	12.90	10.92	53.90	13.52	18.85	41.65	13.30	3.23	26.79	3.38	
19	4.13	5.30	6.74	7.54	55.70	14.62	16.71	47.97	12.60	3.23	17.15	3.30	
20	3.75	3.90	4.20	6.26	58.20	34.75	25.85	50.90	12.90	3.15	7.70	5.38	
21	3.75	3.90	4.28	5.38	60.82	41.48	32.05	53.00	14.07	3.00	5.94	21.44	
22	3.75	4.20	4.35	4.66	64.56	44.29	38.42	56.60	13.10	3.00	4.50	25.58	
23	7.38	8.04	2.80	3.45	68.68	47.29	42.31	58.20	12.30	2.95	3.53	22.04	
24	11.21	8.30	4.66	3.23	69.17	49.50	43.63	58.20	11.50	2.95	3.15	11.40	
25	7.14	5.78	7.46	3.08	67.45	46.78	42.31	56.06	10.35	2.90	4.20	8.47	
26	3.90	8.13	4.66	2.90	65.74	27.88	44.12	54.98	9.88	2.90	8.47	9.23	
27	3.75	18.74	4.05	2.80	63.24	17.15	53.36	59.60	9.32	2.90	8.64	16.16	
28	3.90	17.37	3.98	2.70	58.40	16.60	65.74	64.12	8.72	2.85	8.72	27.88	
29	4.43	23.03	3.98	2.55	44.62	28.58	62.80	73.40	8.21	2.80		31.90	
30	4.58	22.90	3.98	6.50	24.78	42.14	57.40	89.90	8.64	2.80		24.28	
31		12.00		26.66	17.04		48.31		9.15	2.75		10.83	
<b>Total</b>	156.26	268.90	188.31	510.04	1235.79	834.56	1105.23	1590.17	1181.08	141.66	153.59	307.30	7672.89 CMSDAY
<b>Mean</b>	5.21	8.67	6.28	16.45	39.86	27.82	35.65	53.01	38.10	4.57	5.49	9.91	21.02 CMS
<b>Max</b>	17.59	23.03	12.90	51.60	69.17	49.50	65.74	89.90	105.70	8.72	26.79	31.90	105.70 CMS
<b>Min</b>	3.45	3.68	2.80	2.55	9.40	8.64	13.10	22.04	8.21	2.75	2.55	3.30	2.55 CMS
<b>Runoff</b>	13.50	23.23	16.27	44.07	106.77	72.11	95.49	137.39	102.05	12.24	13.27	26.55	662.94 MCM
<b>Momentary Peak</b>	106.75	CMS, at 16.65 m. (MSL), at 20.00 Hours, on Dec 3, 2021											
<b>Runoff Yield</b>	22.75	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		115.53	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PENINSULA - UPPER EAST COAST BASIN

## Upper Khlong Chumphon at Ban Tha Mai Lai , Chumphon (X.201A)

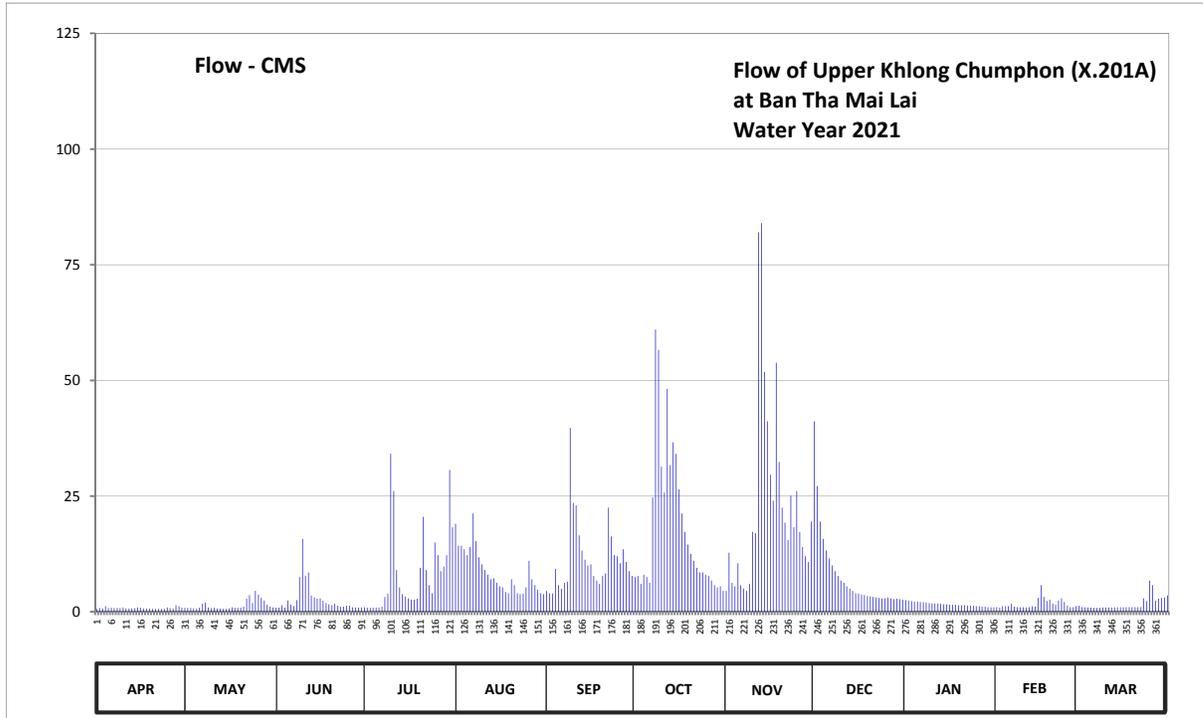
Lat 10 - 30 - 12 N Long 98 - 57 - 52 E

Location : on right bank at the bridge.

	Ban Tha Mai Lai	Amphoe Mueang	Changwat Chumphon
<b>Drainage Area</b>	116 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+36.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On footpath Left bank at the downstream bridge.	<b>Elevation</b>	+42.715 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.17	37.26	37.26	37.29	38.20	37.62	37.74	37.62	38.89	37.45	37.30	37.33	
2	37.24	37.25	37.27	37.27	38.01	37.60	37.75	37.95	38.49	37.44	37.28	37.30	
3	37.20	37.25	37.34	37.26	38.01	37.59	37.68	37.69	38.22	37.43	37.32	37.29	
4	37.32	37.22	37.27	37.27	37.98	37.81	37.76	37.66	38.07	37.42	37.32	37.28	
5	37.24	37.21	37.44	37.27	37.93	37.67	37.74	37.86	37.97	37.42	37.32	37.27	
6	37.26	37.26	37.35	37.28	38.00	37.64	37.69	37.67	37.90	37.41	37.37	37.26	
7	37.24	37.37	37.32	37.31	38.29	37.69	38.42	37.64	37.84	37.41	37.31	37.25	
8	37.25	37.40	37.45	37.52	38.05	37.70	39.40	37.62	37.79	37.40	37.30	37.26	
9	37.24	37.28	37.74	37.59	37.91	38.85	39.29	37.68	37.75	37.39	37.29	37.28	
10	37.28	37.23	38.07	38.69	37.85	38.38	38.61	38.13	37.71	37.38	37.29	37.28	
11	37.22	37.25	37.75	38.46	37.80	38.36	38.45	38.12	37.69	37.38	37.28	37.28	
12	37.21	37.21	37.78	37.80	37.76	38.10	39.08	39.84	37.66	37.38	37.30	37.28	
13	37.20	37.20	37.55	37.65	37.72	37.97	38.62	39.88	37.64	37.37	37.32	37.29	
14	37.23	37.18	37.51	37.58	37.73	37.89	38.76	39.17	37.62	37.36	37.31	37.29	
15	37.28	37.19	37.48	37.53	37.69	37.84	38.69	38.89	37.60	37.36	37.50	37.29	
16	37.26	37.22	37.49	37.49	37.66	37.85	38.47	38.56	37.59	37.35	37.67	37.29	
17	37.21	37.29	37.44	37.46	37.65	37.75	38.29	38.40	37.57	37.35	37.52	37.30	
18	37.20	37.26	37.39	37.46	37.61	37.71	38.13	39.22	37.56	37.35	37.43	37.30	
19	37.21	37.26	37.36	37.48	37.60	37.68	38.02	38.64	37.54	37.34	37.46	37.30	
20	37.19	37.27	37.34	37.82	37.72	37.75	37.94	38.34	37.53	37.34	37.37	37.30	
21	37.19	37.31	37.37	38.26	37.67	37.77	37.88	38.21	37.52	37.34	37.35	37.30	
22	37.19	37.48	37.33	37.80	37.60	38.34	37.82	38.06	37.51	37.33	37.44	37.30	
23	37.19	37.56	37.31	37.67	37.58	38.09	37.78	38.43	37.50	37.33	37.49	37.49	
24	37.18	37.39	37.31	37.60	37.59	37.93	37.78	38.17	37.49	37.33	37.41	37.43	
25	37.28	37.62	37.33	38.04	37.65	37.92	37.76	38.46	37.49	37.32	37.33	37.71	
26	37.24	37.57	37.33	37.93	37.88	37.86	37.75	38.13	37.51	37.32	37.30	37.67	
27	37.20	37.50	37.29	37.79	37.72	37.98	37.71	38.00	37.49	37.31	37.29	37.44	
28	37.34	37.44	37.28	37.83	37.67	37.87	37.67	37.92	37.47	37.31	37.32	37.48	
29	37.32	37.35	37.27	37.93	37.63	37.79	37.65	37.87	37.48	37.30		37.50	
30	37.27	37.31	37.28	38.59	37.60	37.75	37.66	38.22	37.47	37.29		37.51	
31		37.28		38.17	37.58		37.62		37.46	37.29		37.55	
Mean	37.24	37.32	37.42	37.71	37.79	37.89	38.12	38.27	37.71	37.36	37.36	37.36	
Max	37.34	37.62	38.07	38.69	38.29	38.85	39.40	39.88	38.89	37.45	37.67	37.71	39.88
Min	37.17	37.18	37.26	37.26	37.58	37.59	37.62	37.62	37.46	37.29	37.28	37.25	37.17
Annual Max Momentary Gage Height	40.72		m. (MSL.) ,				at 23.00 Hours ,						
Zero Gage at Bottom Elevation	36.00		m. (MSL.) ,			River Bed	35.92		m. (MSL.)				
Left Bank Elevation		41.02		m. (MSL.) ,									
Right Bank Elevation		40.99		m. (MSL.) ,		Drainage Are	116		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.57	0.87	0.87	0.97	19.00	4.50	7.50	4.50	41.15	2.50	1.00	1.30		
2	0.80	0.83	0.90	0.90	14.25	4.00	7.75	12.75	27.15	2.40	0.93	1.00		
3	0.67	0.83	1.40	0.87	14.25	3.90	6.00	6.25	19.50	2.30	1.20	0.97		
4	1.20	0.73	0.90	0.90	13.50	9.25	8.00	5.50	15.75	2.20	1.20	0.93		
5	0.80	0.70	2.40	0.90	12.25	5.75	7.50	10.50	13.25	2.20	1.20	0.90		
6	0.87	0.87	1.50	0.93	14.00	5.00	6.25	5.75	11.50	2.10	1.70	0.87		
7	0.80	1.70	1.20	1.10	21.25	6.25	24.70	5.00	10.00	2.10	1.10	0.83		
8	0.83	2.00	2.50	3.20	15.25	6.50	61.00	4.50	8.75	2.00	1.00	0.87		
9	0.80	0.93	7.50	3.90	11.75	39.75	56.60	6.00	7.75	1.90	0.97	0.93		
10	0.93	0.77	15.75	34.15	10.25	23.50	31.35	17.25	6.75	1.80	0.97	0.93		
11	0.73	0.83	7.75	26.10	9.00	23.00	25.75	17.00	6.25	1.80	0.93	0.93		
12	0.70	0.70	8.50	9.00	8.00	16.50	48.20	82.00	5.50	1.80	1.00	0.93		
13	0.67	0.67	3.50	5.25	7.00	13.25	31.70	84.00	5.00	1.70	1.20	0.97		
14	0.77	0.60	3.10	3.80	7.25	11.25	36.60	51.80	4.50	1.60	1.10	0.97		
15	0.93	0.63	2.80	3.30	6.25	10.00	34.15	41.15	4.00	1.60	3.00	0.97		
16	0.87	0.73	2.90	2.90	5.50	10.25	26.45	29.60	3.90	1.50	5.75	0.97		
17	0.70	0.97	2.40	2.60	5.25	7.75	21.25	24.00	3.70	1.50	3.20	1.00		
18	0.67	0.87	1.90	2.60	4.25	6.75	17.25	53.80	3.60	1.50	2.30	1.00		
19	0.70	0.87	1.60	2.80	4.00	6.00	14.50	32.40	3.40	1.40	2.60	1.00		
20	0.63	0.90	1.40	9.50	7.00	7.75	12.50	22.50	3.30	1.40	1.70	1.00		
21	0.63	1.10	1.70	20.50	5.75	8.25	11.00	19.25	3.20	1.40	1.50	1.00		
22	0.63	2.80	1.30	9.00	4.00	22.50	9.50	15.50	3.10	1.30	2.40	1.00		
23	0.63	3.60	1.10	5.75	3.80	16.25	8.50	25.05	3.00	1.30	2.90	2.90		
24	0.60	1.90	1.10	4.00	3.90	12.25	8.50	18.25	2.90	1.30	2.10	2.30		
25	0.93	4.50	1.30	15.00	5.25	12.00	8.00	26.10	2.90	1.20	1.30	6.75		
26	0.80	3.70	1.30	12.25	11.00	10.50	7.75	17.25	3.10	1.20	1.00	5.75		
27	0.67	3.00	0.97	8.75	7.00	13.50	6.75	14.00	2.90	1.10	0.97	2.40		
28	1.40	2.40	0.93	9.75	5.75	10.75	5.75	12.00	2.70	1.10	1.20	2.80		
29	1.20	1.50	0.90	12.25	4.75	8.75	5.25	10.75	2.80	1.00		3.00		
30	0.90	1.10	0.93	30.65	4.00	7.75	5.50	19.50	2.70	0.97		3.10		
31		0.93		18.25	3.80		4.50		2.60	0.97		3.50		
<b>Total</b>	24.03	44.53	82.30	261.82	268.25	343.40	566.00	693.90	236.60	50.14	47.42	53.77	2672.16	CMSDAY
<b>Mean</b>	0.80	1.44	2.74	8.45	8.65	11.45	18.26	23.13	7.63	1.62	1.69	1.73	7.32	CMS
<b>Max</b>	1.40	4.50	15.75	34.15	21.25	39.75	61.00	84.00	41.15	2.50	5.75	6.75	84.00	CMS
<b>Min</b>	0.57	0.60	0.87	0.87	3.80	3.90	4.50	4.50	2.60	0.97	0.93	0.83	0.57	CMS
<b>Runoff</b>	2.08	3.85	7.11	22.62	23.18	29.67	48.90	59.95	20.44	4.33	4.10	4.65	230.87	MCM
<b>Momentary Peak</b>	133.40 CMS. at 40.72 m. (MSL.) at 23.00 Hours , on Jul 10, 2021													
<b>Runoff Yield</b>	63.11 Liters/Second/Square KM.			Momentary Peak Yield			1150.00 Liters/Second/Square KM.							

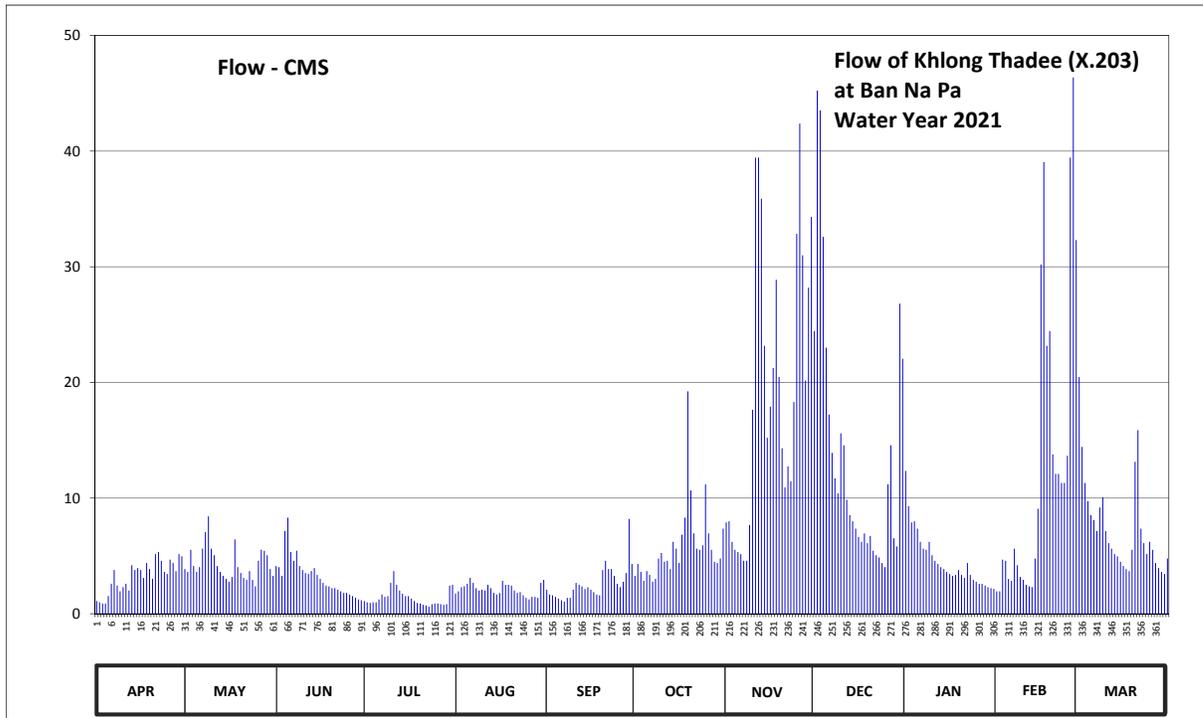
**WATER YEAR : 2021**  
**PENINSULA - UPPER EAST COAST BASIN**  
**Khlong Thadee at Ban Na Pa , Nakhon Si Thammarat (X.203)**  
Lat 08 - 23 - 47 N Long 99 - 55 - 13 E

Location : on left bank at Ban Na Pa.

	<b>Ban Na Pa</b>	<b>Amphoe Mueang</b>	<b>Changwat</b>	<b>Nakhon Si Thammarat</b>
<b>Drainage Area</b>	131	sq.km.		
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	The left bank of the downstream bridge.		<b>Elevation</b>	+11.529 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	2000 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2000 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	2000 to date			
<b>Stability of Channel Regimes</b>	Fairly stable.			
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 10.810 m.(MSL.), records are channel flow only.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2021.			

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.00	8.36	8.39	8.00	8.09	8.14	8.29	8.77	9.99	9.15	8.12	9.74	
2	7.98	8.33	8.38	7.98	8.12	8.08	8.41	8.78	10.66	8.90	8.12	9.31	
3	7.96	8.54	8.29	7.97	8.17	8.07	8.33	8.61	10.63	8.77	8.45	9.07	
4	7.96	8.39	8.70	7.98	8.18	8.05	8.24	8.54	10.35	8.78	8.44	8.94	
5	8.06	8.33	8.81	7.98	8.21	8.03	8.34	8.52	9.90	8.72	8.26	8.83	
6	8.21	8.38	8.52	8.02	8.27	8.01	8.30	8.50	9.52	8.61	8.24	8.79	
7	8.35	8.55	8.44	8.08	8.22	7.99	8.23	8.44	9.27	8.55	8.55	8.70	
8	8.19	8.69	8.53	8.05	8.16	8.04	8.26	8.44	9.10	8.54	8.40	8.89	
9	8.12	8.82	8.39	8.06	8.13	8.04	8.46	8.75	9.00	8.61	8.28	8.97	
10	8.17	8.55	8.35	8.22	8.14	8.14	8.51	9.55	9.40	8.49	8.25	8.70	
11	8.21	8.49	8.32	8.34	8.13	8.22	8.43	10.54	9.32	8.44	8.20	8.60	
12	8.13	8.39	8.31	8.20	8.20	8.20	8.44	10.54	8.95	8.41	8.18	8.55	
13	8.40	8.33	8.34	8.13	8.16	8.18	8.36	10.45	8.83	8.38	8.17	8.50	
14	8.35	8.29	8.37	8.09	8.10	8.15	8.61	9.91	8.78	8.36	8.46	8.48	
15	8.37	8.26	8.30	8.06	8.08	8.17	8.55	9.37	8.72	8.33	8.88	8.43	
16	8.35	8.23	8.26	8.06	8.10	8.14	8.42	9.57	8.65	8.31	10.26	8.39	
17	8.27	8.28	8.22	8.03	8.24	8.11	8.67	9.79	8.61	8.29	10.53	8.36	
18	8.42	8.63	8.19	8.00	8.20	8.08	8.81	10.21	8.68	8.30	9.91	8.34	
19	8.36	8.38	8.18	7.97	8.20	8.07	9.66	9.74	8.60	8.35	9.99	8.54	
20	8.26	8.32	8.16	7.96	8.19	8.35	9.02	9.30	8.66	8.30	9.26	9.21	
21	8.50	8.27	8.16	7.94	8.13	8.44	8.68	9.04	8.53	8.27	9.13	9.42	
22	8.52	8.25	8.14	7.93	8.10	8.36	8.55	9.18	8.49	8.42	9.13	8.72	
23	8.44	8.34	8.12	7.91	8.11	8.36	8.54	9.08	8.47	8.30	9.07	8.60	
24	8.33	8.25	8.10	7.95	8.07	8.29	8.58	9.60	8.42	8.25	9.07	8.50	
25	8.31	8.18	8.10	7.96	8.04	8.21	9.06	10.36	8.38	8.23	9.25	8.61	
26	8.45	8.44	8.08	7.96	8.02	8.17	8.68	10.61	9.06	8.21	10.54	8.54	
27	8.42	8.54	8.06	7.95	8.05	8.23	8.54	10.29	9.32	8.21	10.68	8.42	
28	8.34	8.53	8.04	7.94	8.05	8.32	8.43	9.72	8.64	8.19	10.34	8.37	
29	8.50	8.49	8.02	7.95	8.04	8.80	8.42	10.29	8.57	8.17		8.33	
30	8.48	8.36	8.01	8.19	8.22	8.41	8.46	10.48	10.11	8.16		8.31	
31		8.29		8.20	8.25		8.72		9.84	8.15		8.46	
Mean	8.28	8.40	8.28	8.03	8.14	8.20	8.55	9.50	9.14	8.42	9.01	8.70	
Max	8.52	8.82	8.81	8.34	8.27	8.80	9.66	10.61	10.66	9.15	10.68	9.74	10.68
Min	7.96	8.18	8.01	7.91	8.02	7.99	8.23	8.44	8.38	8.15	8.12	8.31	7.91
Annual Max Momentary Gage Height	10.83												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		11.23											
Right Bank Elevation		10.80											
Annual Max Momentary Gage Height	10.83		m. (MSL.) ,		at 21.00 Hours ,		on Nov 10, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed		7.27		m. (MSL.)				
Left Bank Elevation	11.23		m. (MSL.) ,										
Right Bank Elevation	10.80		m. (MSL.) ,		Drainage Are		131		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	3.86	4.12	1.10	1.73	2.08	3.27	7.89	24.44	12.35	1.94	20.47		
2	0.99	3.61	4.03	0.99	1.94	1.66	4.30	7.99	45.22	9.30	1.94	14.43		
3	0.88	5.53	3.27	0.94	2.29	1.59	3.61	6.21	43.51	7.89	4.68	11.31		
4	0.88	4.12	7.15	0.99	2.36	1.45	2.84	5.53	32.58	7.99	4.58	9.74		
5	1.52	3.61	8.31	0.99	2.59	1.31	3.69	5.34	23.00	7.36	3.01	8.53		
6	2.59	4.03	5.34	1.24	3.10	1.17	3.35	5.15	17.22	6.21	2.84	8.10		
7	3.78	5.63	4.58	1.66	2.67	1.05	2.76	4.58	13.91	5.63	5.63	7.15		
8	2.43	7.05	5.44	1.45	2.22	1.38	3.01	4.58	11.70	5.53	4.20	9.19		
9	1.94	8.42	4.12	1.52	2.01	1.38	4.77	7.68	10.40	6.21	3.18	10.07		
10	2.29	5.63	3.78	2.67	2.08	2.08	5.25	17.63	15.60	5.06	2.93	7.15		
11	2.59	5.06	3.52	3.69	2.01	2.67	4.49	39.43	14.56	4.58	2.50	6.10		
12	2.01	4.12	3.44	2.50	2.50	2.50	4.58	39.43	9.85	4.30	2.36	5.63		
13	4.20	3.61	3.69	2.01	2.22	2.36	3.86	35.88	8.53	4.03	2.29	5.15		
14	3.78	3.27	3.95	1.73	1.80	2.15	6.21	23.16	7.99	3.86	4.77	4.96		
15	3.95	3.01	3.35	1.52	1.66	2.29	5.63	15.21	7.36	3.61	9.08	4.49		
16	3.78	2.76	3.01	1.52	1.80	2.08	4.39	17.90	6.63	3.44	30.19	4.12		
17	3.10	3.18	2.67	1.31	2.84	1.87	6.84	21.25	6.21	3.27	39.04	3.86		
18	4.39	6.42	2.43	1.10	2.50	1.66	8.31	28.87	6.94	3.35	23.16	3.69		
19	3.86	4.03	2.36	0.94	2.50	1.59	19.23	20.47	6.10	3.78	24.44	5.53		
20	3.01	3.52	2.22	0.88	2.43	3.78	10.66	14.30	6.73	3.35	13.78	13.13		
21	5.15	3.10	2.22	0.77	2.01	4.58	6.94	10.92	5.44	3.10	12.09	15.87		
22	5.34	2.93	2.08	0.72	1.80	3.86	5.63	12.74	5.06	4.39	12.09	7.36		
23	4.58	3.69	1.94	0.61	1.87	3.86	5.53	11.44	4.87	3.35	11.31	6.10		
24	3.61	2.93	1.80	0.83	1.59	3.27	5.91	18.30	4.39	2.93	11.31	5.15		
25	3.44	2.36	1.80	0.88	1.38	2.59	11.18	32.84	4.03	2.76	13.65	6.21		
26	4.68	4.58	1.66	0.88	1.24	2.29	6.94	42.37	11.18	2.59	39.43	5.53		
27	4.39	5.53	1.52	0.83	1.45	2.76	5.53	30.99	14.56	2.59	46.36	4.39		
28	3.69	5.44	1.38	0.77	1.45	3.52	4.49	20.16	6.52	2.43	32.31	3.95		
29	5.15	5.06	1.24	0.83	1.38	8.20	4.39	28.20	5.82	2.29		3.61		
30	4.96	3.86	1.17	2.43	2.67	4.30	4.77	34.30	26.80	2.22		3.44		
31		3.27		2.50	2.93		7.36		22.04	2.15		4.77		
Total	98.06	133.22	97.59	42.80	65.02	77.33	179.72	570.74	429.19	141.90	365.09	229.18	2429.84 CMSDAY	
Mean	3.27	4.30	3.25	1.38	2.10	2.58	5.80	19.02	13.84	4.58	13.04	7.39	6.66 CMS	
Max	5.34	8.42	8.31	3.69	3.10	8.20	19.23	42.37	45.22	12.35	46.36	20.47	46.36 CMS	
Min	0.88	2.36	1.17	0.61	1.24	1.05	2.76	4.58	4.03	2.15	1.94	3.44	0.61 CMS	
Runoff	8.47	11.51	8.43	3.70	5.62	6.68	15.53	49.31	37.08	12.26	31.54	19.80	209.94 MCM	
Momentary Peak	56.32	CMS.	CMS.	at 10.83 m. (MSL.)	at 21.00 Hours									
Runoff Yield	50.82	Liters/Second/Square KM.			Momentary Peak Yield	429.92	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PENINSULA - UPPER EAST COAST BASIN

## Lower Khlong Lang Suan at Thanon Luk Suea , Chumphon (X.212)

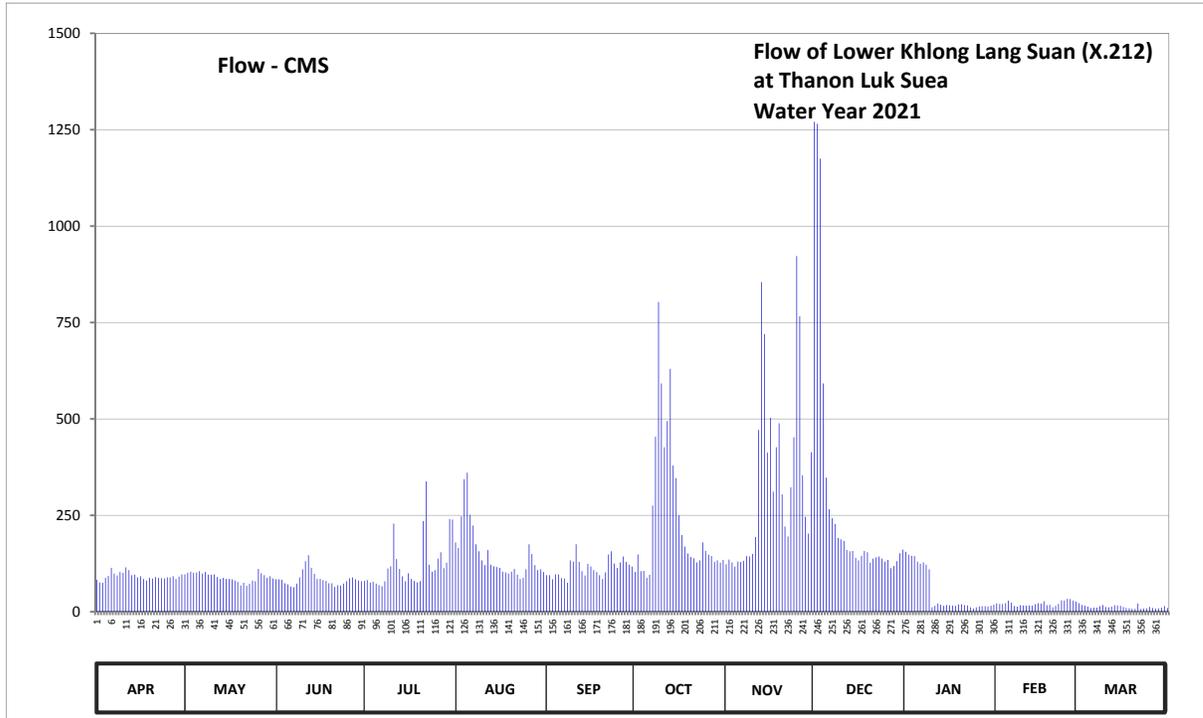
Lat 09 - 57 - 17 N Long 99 - 04 - 48 E

Location : on left bank at the bridge.

	<b>Ban -</b>	<b>Amphoe</b> Lang Suan	<b>Changwat</b> Chumphon
<b>Drainage Area</b>	1,407	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)	
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On the footpath in the middle of the bridge downstream.		<b>Elevation</b> +9.486 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 4.95 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records Very good. Stage-discharge relation defined by 17 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.27	0.14	0.10	1.04	0.25	0.33	0.53	6.68	0.83	0.64	0.65	
2	0.06	0.31	0.14	0.12	0.92	0.25	0.77	0.65	6.66	0.76	0.60	0.53	
3	0.05	0.34	0.13	0.06	1.58	0.14	0.35	0.58	6.30	0.74	0.60	0.49	
4	0.18	0.31	0.04	0.08	2.29	0.27	0.36	0.47	3.76	0.73	0.65	0.43	
5	0.23	0.32	0.01	0.03	2.41	0.27	0.18	0.60	2.32	0.60	0.80	0.31	
6	0.44	0.35	-0.05	-0.01	1.61	0.17	0.26	0.59	1.73	0.54	0.68	0.35	
7	0.29	0.29	-0.07	-0.04	1.39	0.16	1.80	0.62	1.54	0.58	0.47	0.35	
8	0.24	0.33	0.03	0.09	1.00	0.05	3.00	0.73	1.42	0.52	0.43	0.46	
9	0.33	0.26	0.19	0.42	0.84	0.63	4.77	0.72	1.13	0.40	0.52	0.54	
10	0.31	0.26	0.40	0.48	0.63	0.60	3.76	0.78	1.10	0.39	0.50	0.41	
11	0.45	0.27	0.61	1.43	0.51	1.00	2.83	1.15	1.07	0.48	0.49	0.39	
12	0.38	0.20	0.75	0.66	0.87	0.59	3.23	3.10	0.87	0.63	0.51	0.43	
13	0.25	0.15	0.44	0.41	0.52	0.35	3.95	5.00	0.84	0.55	0.49	0.52	
14	0.26	0.18	0.28	0.22	0.48	0.24	2.53	4.39	0.85	0.49	0.58	0.50	
15	0.19	0.15	0.15	0.09	0.46	0.54	2.31	2.74	0.69	0.53	0.65	0.48	
16	0.22	0.15	0.15	0.30	0.44	0.47	1.60	3.28	0.63	0.52	0.62	0.41	
17	0.15	0.14	0.12	0.15	0.34	0.38	1.19	2.06	0.74	0.50	0.76	0.33	
18	0.11	0.11	0.10	0.10	0.32	0.33	0.95	2.83	0.85	0.48	0.52	0.30	
19	0.18	0.07	0.04	0.06	0.29	0.25	0.79	3.20	0.82	0.57	0.55	0.26	
20	0.16	-0.02	0.04	0.09	0.34	0.15	0.71	2.01	0.57	0.58	0.38	0.25	
21	0.20	0.05	-0.06	1.48	0.41	0.32	0.68	1.37	0.67	0.53	0.48	0.63	
22	0.18	-0.03	-0.01	2.25	0.26	0.77	0.58	1.16	0.70	0.51	0.60	0.24	
23	0.17	0.02	-0.02	0.52	0.15	0.84	0.63	2.14	0.72	0.38	0.81	0.27	
24	0.16	0.11	0.03	0.34	0.18	0.55	1.04	2.99	0.67	0.28	0.80	0.29	
25	0.19	0.09	0.09	0.38	0.40	0.44	0.85	5.29	0.60	0.39	0.87	0.41	
26	0.19	0.41	0.17	0.67	1.00	0.58	0.76	4.60	0.64	0.45	0.86	0.33	
27	0.22	0.30	0.19	0.82	0.78	0.72	0.73	2.36	0.43	0.46	0.80	0.27	
28	0.15	0.25	0.14	0.43	0.51	0.59	0.59	1.57	0.49	0.46	0.74	0.29	
29	0.21	0.18	0.11	0.57	0.38	0.52	0.63	1.22	0.61	0.45		0.35	
30	0.27	0.22	0.09	1.52	0.40	0.47	0.57	2.75	0.80	0.49		0.47	
31		0.16		1.51	0.33		0.64		0.88	0.55		0.31	
Mean	0.22	0.20	0.15	0.49	0.74	0.43	1.40	2.05	1.54	0.53	0.62	0.40	
Max	0.45	0.41	0.75	2.25	2.41	1.00	4.77	5.29	6.68	0.83	0.87	0.65	6.68
Min	0.05	-0.03	-0.07	-0.04	0.15	0.05	0.18	0.47	0.43	0.28	0.38	0.24	-0.07
Annual Max Momentary Gage Height	7.13			m. (MSL.) ,			at 19.00 Hours ,						on Dec 1, 2021
Zero Gage at Bottom Elevation	0.00			m. (MSL.) ,			River Bed -3.11						m. (MSL.)
Left Bank Elevation	6.00			m. (MSL.) ,									
Right Bank Elevation	4.94			m. (MSL.) ,			Drainage Are	1,407					Square Kilometers



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	83.00	97.00	84.00	80.00	180.00	95.00	103.00	123.00	1270.80	155.45	21.80	22.25	
2	76.00	101.00	84.00	82.00	165.80	95.00	148.70	135.50	1265.60	147.60	20.00	17.20	
3	75.00	104.00	83.00	76.00	247.50	84.00	105.00	128.00	1175.00	145.40	20.00	15.60	
4	88.00	101.00	74.00	78.00	343.60	97.00	106.00	117.00	592.20	144.30	22.25	13.20	
5	93.00	102.00	71.00	73.00	360.55	97.00	88.00	130.00	347.80	130.00	29.00	9.30	
6	114.00	105.00	65.25	69.05	251.25	87.00	96.00	129.00	266.25	124.00	23.60	10.50	
7	99.00	99.00	63.35	66.20	223.75	86.00	275.00	132.20	242.50	128.00	14.80	10.50	
8	94.00	103.00	73.00	79.00	175.00	75.00	454.00	144.30	227.50	122.00	13.20	14.40	
9	103.00	96.00	89.00	112.00	156.60	133.30	803.40	143.20	191.25	110.00	16.80	17.60	
10	101.00	96.00	110.00	118.00	133.30	130.00	592.20	149.80	187.50	11.70	16.00	12.40	
11	115.00	97.00	131.10	228.75	121.00	175.00	426.80	193.75	183.75	15.20	15.60	11.70	
12	108.00	90.00	146.50	136.60	160.05	129.00	494.25	471.50	160.05	21.35	16.40	13.20	
13	95.00	85.00	114.00	111.00	122.00	105.00	630.00	855.00	156.60	18.00	15.60	16.80	
14	96.00	88.00	98.00	92.00	118.00	94.00	379.15	719.90	157.75	15.60	19.20	16.00	
15	89.00	85.00	85.00	79.00	116.00	124.00	346.40	412.40	139.90	17.20	22.25	15.20	
16	92.00	85.00	85.00	100.00	114.00	117.00	250.00	503.00	133.30	16.80	20.90	12.40	
17	85.00	84.00	82.00	85.00	104.00	108.00	198.75	311.40	145.40	16.00	27.20	9.90	
18	81.00	81.00	80.00	80.00	102.00	103.00	169.25	426.80	157.75	15.20	16.80	9.00	
19	88.00	77.00	74.00	76.00	99.00	95.00	150.90	489.00	154.30	18.80	18.00	7.80	
20	86.00	68.10	74.00	79.00	104.00	85.00	142.10	304.40	127.00	19.20	11.40	7.50	
21	90.00	75.00	64.30	235.00	111.00	102.00	138.80	221.25	137.70	17.20	15.20	21.35	
22	88.00	67.15	69.05	338.00	96.00	148.70	128.00	195.00	141.00	16.40	20.00	7.20	
23	87.00	72.00	68.10	122.00	85.00	156.60	133.30	322.60	143.20	11.40	29.65	8.10	
24	86.00	81.00	73.00	104.00	88.00	125.00	180.00	452.40	137.70	8.40	29.00	8.70	
25	89.00	79.00	79.00	108.00	110.00	114.00	157.75	922.50	130.00	11.70	33.55	12.40	
26	89.00	111.00	87.00	137.70	175.00	128.00	147.60	766.00	134.40	14.00	32.90	9.90	
27	92.00	100.00	89.00	154.30	149.80	143.20	144.30	353.40	113.00	14.40	29.00	8.10	
28	85.00	95.00	84.00	113.00	121.00	129.00	129.00	246.25	119.00	14.40	26.30	8.70	
29	91.00	88.00	81.00	127.00	108.00	122.00	133.30	202.50	131.10	14.00		10.50	
30	97.00	92.00	79.00	240.00	110.00	117.00	127.00	414.00	152.00	15.60		14.80	
31		86.00		238.75	103.00		134.40		161.20	18.00		9.30	
Total	2755.00	2790.25	2539.65	3818.35	4654.20	3399.80	7512.35	10115.05	8782.50	1547.30	596.40	381.50	48892.35 CMSDAY
Mean	91.83	90.01	84.65	123.17	150.14	113.33	242.33	337.17	283.31	49.91	21.30	12.31	133.95 CMS
Max	115.00	111.00	146.50	338.00	360.55	175.00	803.40	922.50	1270.80	155.45	33.55	22.25	1270.80 CMS
Min	75.00	67.15	63.35	66.20	85.00	75.00	88.00	117.00	113.00	8.40	11.40	7.20	7.20 CMS
Runoff	238.03	241.08	219.43	329.91	402.12	293.74	649.07	873.94	758.81	133.69	51.53	32.96	4224.30 MCM
Momentary Peak	1395.88	CMS.	at 7.13 m. (MSL.)				at 19.00 Hours ,						on Dec 1, 2021
Runoff Yield	95.20	Liters/Second/Square KM.					Momentary Peak Yield	992.10	Liters/Second/Square KM.				

## WATER YEAR : 2021

## PENINSULA - UPPER EAST COAST BASIN

## Upper Khlong Lang Suan at Ban Phato , Chumphon (X.213)

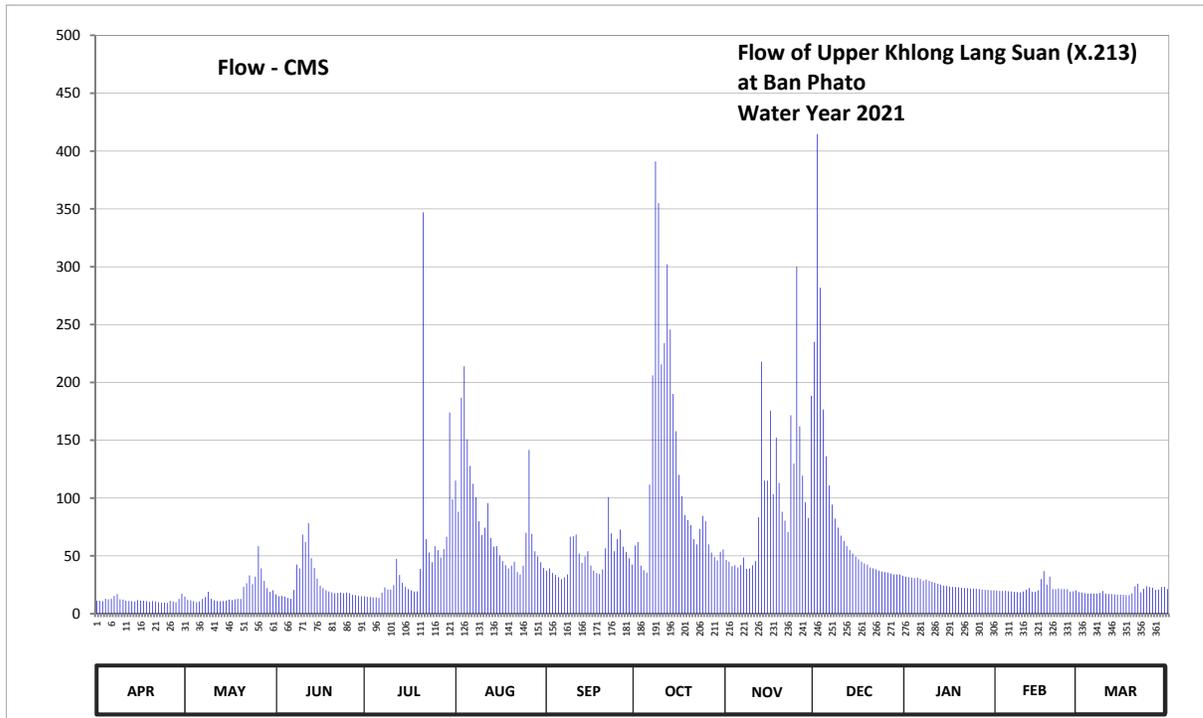
Lat 09 - 47 - 01 N Long 98 - 46 - 40 E

Location : on left bank at the bridge.

	<b>Ban Phato</b>	<b>Amphoe Phato</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	712 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+40.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	beside the bridge on the left side downstream.		<b>Elevation</b> 53.360 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 48.010 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

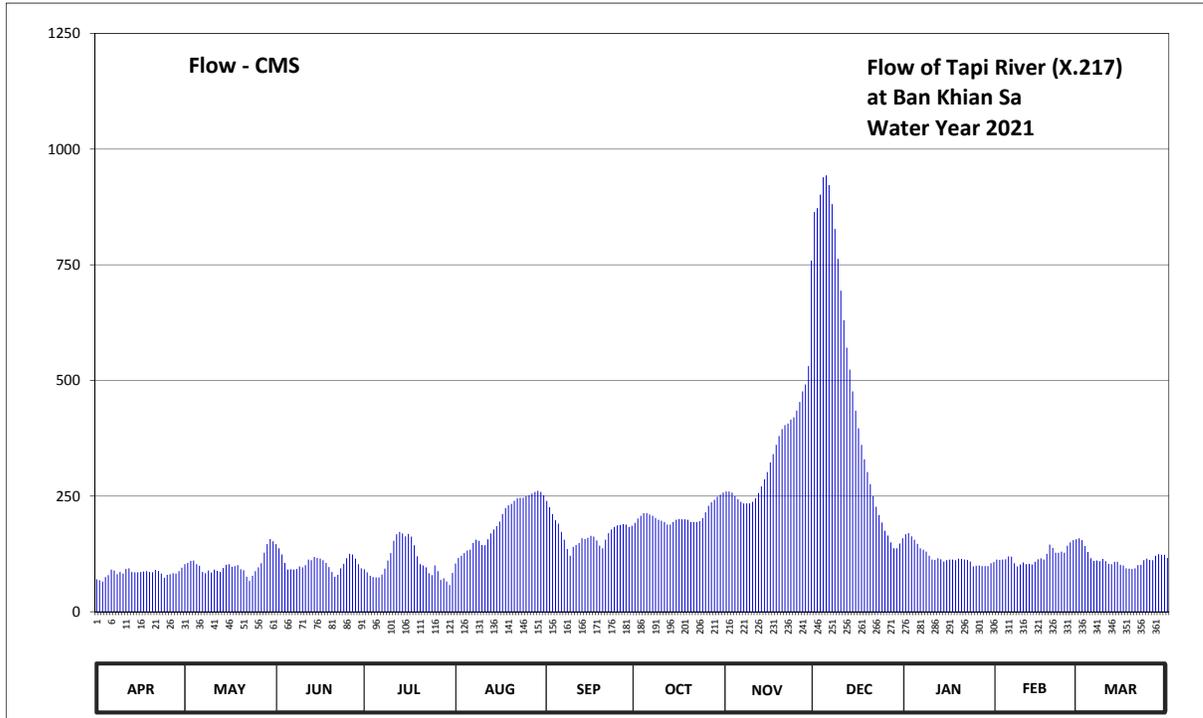
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.47	42.62	42.70	42.63	44.73	43.33	43.78	43.53	46.30	43.20	42.83	42.78	
2	42.47	42.50	42.63	42.61	44.32	43.38	43.84	43.50	48.11	43.19	42.82	42.76	
3	42.45	42.48	42.64	42.60	45.71	43.28	43.43	43.42	46.82	43.18	42.82	42.74	
4	42.54	42.45	42.62	42.59	46.05	43.24	43.34	43.44	45.58	43.17	42.83	42.73	
5	42.52	42.42	42.57	42.59	45.24	43.19	43.29	43.40	45.03	43.18	42.81	42.73	
6	42.54	42.44	42.54	42.57	44.91	43.15	44.68	43.44	44.67	43.15	42.80	42.73	
7	42.64	42.53	42.86	42.76	44.69	43.19	45.95	43.57	44.42	43.11	42.79	42.73	
8	42.71	42.60	43.45	42.95	44.52	43.25	47.90	43.37	44.22	43.14	42.78	42.75	
9	42.52	42.79	43.38	42.87	44.18	43.93	47.57	43.38	44.08	43.11	42.77	42.82	
10	42.51	42.54	43.97	42.87	43.96	43.94	46.07	43.44	43.95	43.09	42.80	42.73	
11	42.47	42.48	43.84	43.02	44.08	43.97	46.29	43.51	43.86	43.07	42.87	42.71	
12	42.46	42.46	44.15	43.55	44.44	43.64	47.04	44.24	43.77	43.05	42.93	42.71	
13	42.45	42.45	43.56	43.24	43.91	43.48	46.42	46.10	43.70	43.03	42.79	42.70	
14	42.44	42.46	43.39	43.07	43.76	43.59	45.75	44.73	43.64	43.01	42.79	42.69	
15	42.49	42.47	43.16	42.97	43.77	43.68	45.34	44.73	43.59	43.00	42.84	42.69	
16	42.47	42.51	43.01	42.89	43.61	43.43	44.80	45.57	43.54	42.98	43.15	42.68	
17	42.47	42.49	42.92	42.84	43.51	43.33	44.53	44.56	43.50	42.97	43.32	42.67	
18	42.45	42.52	42.85	42.80	43.44	43.28	44.27	45.26	43.47	42.96	43.03	42.67	
19	42.43	42.54	42.80	42.81	43.38	43.26	44.20	44.70	43.45	42.95	43.20	42.74	
20	42.46	42.53	42.77	43.37	43.43	43.36	44.12	44.32	43.40	42.94	42.89	42.99	
21	42.44	42.97	42.74	47.49	43.50	43.73	43.89	44.19	43.38	42.93	42.88	43.05	
22	42.42	43.06	42.75	43.89	43.30	44.52	43.80	44.01	43.36	42.92	42.91	42.77	
23	42.40	43.23	42.76	43.66	43.25	43.99	44.06	45.52	43.33	42.91	42.89	42.90	
24	42.40	43.04	42.74	43.49	43.43	43.68	44.26	44.94	43.31	42.91	42.89	42.99	
25	42.39	43.20	42.76	43.77	44.00	43.89	44.18	47.02	43.30	42.90	42.88	42.96	
26	42.47	43.77	42.74	43.70	45.11	44.05	43.80	45.40	43.29	42.89	42.80	42.94	
27	42.44	43.38	42.68	43.57	43.98	43.76	43.66	44.79	43.27	42.87	42.81	42.86	
28	42.41	43.11	42.67	43.72	43.68	43.67	43.58	44.45	43.25	42.86	42.84	42.87	
29	42.53	42.92	42.64	43.93	43.59	43.56	43.52	44.23	43.25	42.86		42.96	
30	42.72	42.79	42.63	45.55	43.49	43.45	43.67	45.73	43.25	42.85		42.97	
31		42.85		44.49	43.39		43.71		43.22	42.84		42.89	
Mean	42.49	42.73	42.96	43.38	44.08	43.57	44.67	44.42	44.04	43.01	42.88	42.80	
Max	42.72	43.77	44.15	47.49	46.05	44.52	47.90	47.02	48.11	43.20	43.32	43.05	48.11
Min	42.39	42.42	42.54	42.57	43.25	43.15	43.29	43.37	43.22	42.84	42.77	42.67	42.39
Annual Max Momentary Gage Height	49.06		m. (MSL.) ,				at 11.00 Hours ,						on Oct 8, 2021
Zero Gage at Bottom Elevation	40.00		m. (MSL.) ,			River Bed	39.30		m. (MSL.)				
Left Bank Elevation		49.97		m. (MSL.) ,									
Right Bank Elevation		48.00		m. (MSL.) ,		Drainage Are	712		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.28	14.88	16.80	15.12	115.10	37.20	59.00	46.50	235.00	32.00	19.92	18.72	
2	11.28	12.00	15.12	14.64	88.20	39.20	62.00	45.00	414.65	31.60	19.68	18.24	
3	10.80	11.52	15.36	14.40	186.80	35.20	41.50	41.00	281.80	31.20	19.68	17.76	
4	12.96	10.80	14.88	14.16	214.00	33.60	37.60	42.00	176.40	30.80	19.92	17.52	
5	12.48	10.08	13.68	14.16	150.80	31.60	35.60	40.00	136.10	31.20	19.44	17.52	
6	12.96	10.56	12.96	13.68	127.70	30.00	111.60	42.00	110.90	30.00	19.20	17.52	
7	15.36	12.72	20.64	18.24	112.30	31.60	206.00	48.50	94.30	28.40	18.96	17.52	
8	17.04	14.40	42.50	22.80	100.80	34.00	391.00	38.80	82.20	29.60	18.72	18.00	
9	12.48	18.96	39.20	20.88	79.90	66.50	355.00	39.20	74.40	28.40	18.48	19.68	
10	12.24	12.96	68.50	20.88	68.00	67.00	215.60	42.00	67.50	27.60	19.20	17.52	
11	11.28	11.52	62.00	24.80	74.40	68.50	234.10	45.50	63.00	26.80	20.88	17.04	
12	11.04	11.04	78.25	47.50	95.60	52.00	302.00	83.40	58.50	26.00	22.32	17.04	
13	10.80	10.80	48.00	33.60	65.50	44.00	245.80	218.00	55.00	25.20	18.96	16.80	
14	10.56	11.04	39.60	26.80	58.00	49.50	190.00	115.10	52.00	24.40	18.96	16.56	
15	11.76	11.28	30.40	23.28	58.50	54.00	157.80	115.10	49.50	24.00	20.16	16.56	
16	11.28	12.24	24.40	21.36	50.50	41.50	120.00	175.60	47.00	23.52	30.00	16.32	
17	11.28	11.76	22.08	20.16	45.50	37.20	101.45	103.40	45.00	23.28	36.80	16.08	
18	10.80	12.48	20.40	19.20	42.00	35.20	85.20	152.20	43.50	23.04	25.20	16.08	
19	10.32	12.96	19.20	19.44	39.20	34.40	81.00	113.00	42.50	22.80	32.00	17.76	
20	11.04	12.72	18.48	38.80	41.50	38.40	76.60	88.20	40.00	22.56	21.36	23.76	
21	10.56	23.28	17.76	347.00	45.00	56.50	64.50	80.45	39.20	22.32	21.12	26.00	
22	10.08	26.40	18.00	64.50	36.00	100.80	60.00	70.55	38.40	22.08	21.84	18.48	
23	9.60	33.20	18.24	53.00	34.00	69.50	73.30	171.60	37.20	21.84	21.36	21.60	
24	9.60	25.60	17.76	44.50	41.50	54.00	84.60	129.80	36.40	21.84	21.36	23.76	
25	9.36	32.00	18.24	58.50	70.00	64.50	79.90	300.00	36.00	21.60	21.12	23.04	
26	11.28	58.50	17.76	55.00	141.70	72.75	60.00	162.00	35.60	21.36	19.20	22.56	
27	10.56	39.20	16.32	48.50	69.00	58.00	53.00	119.30	34.80	20.88	19.44	20.64	
28	9.84	28.40	16.08	56.00	54.00	53.50	49.00	96.25	34.00	20.64	20.16	20.88	
29	12.72	22.08	15.36	66.50	49.50	48.00	46.00	82.80	34.00	20.64		23.04	
30	17.28	18.96	15.12	174.00	44.50	42.50	53.50	188.40	34.00	20.40		23.28	
31		20.40		98.85	39.60		55.50		32.80	20.16		21.36	
Total	349.92	574.74	793.09	1510.25	2439.10	1480.65	3788.15	3035.65	2561.65	776.16	605.44	598.64	18513.44 CMSDAY
Mean	11.66	18.54	26.44	48.72	78.68	49.36	122.20	101.19	82.63	25.04	21.62	19.31	50.72 CMS
Max	17.28	58.50	78.25	347.00	214.00	100.80	391.00	300.00	414.65	32.00	36.80	26.00	414.65 CMS
Min	9.36	10.08	12.96	13.68	34.00	30.00	35.60	38.80	32.80	20.16	18.48	16.08	9.36 CMS
Runoff	30.23	49.66	68.52	130.49	210.74	127.93	327.30	262.28	221.33	67.06	52.31	51.72	1599.56 MCM
Momentary Peak	531.10	CMS.	at 49.06 m. (MSL.)	at 11.00 Hours	on Oct 8, 2021								
Runoff Yield	71.24	Liters/Second/Square KM.		Momentary Peak Yield	745.93	Liters/Second/Square KM.							

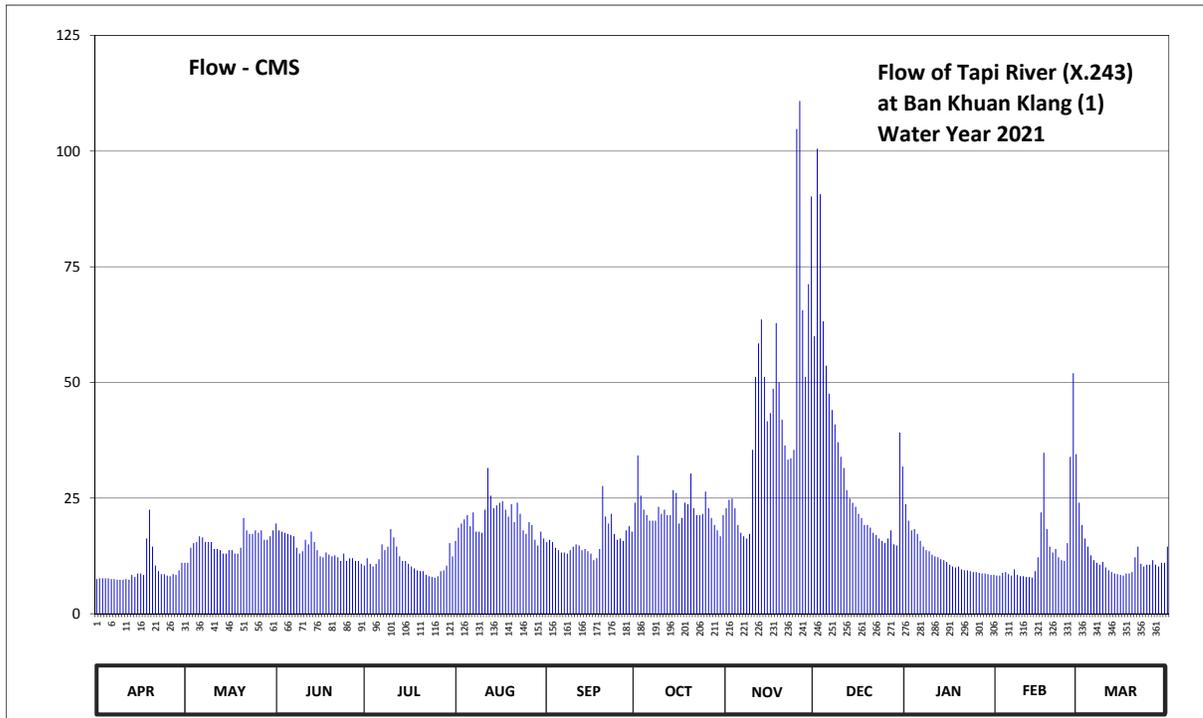




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	70.00	102.90	146.00	91.70	104.30	239.70	192.10	260.00	864.15	167.35	112.70	158.85		
2	68.05	105.70	137.20	85.40	116.20	226.00	201.55	260.00	872.45	169.90	112.00	154.80		
3	65.45	109.90	123.90	77.70	121.10	211.05	207.25	257.60	901.50	163.10	112.70	142.00		
4	74.90	110.60	105.70	74.90	126.80	197.75	213.00	249.60	938.85	155.60	113.40	129.20		
5	79.10	102.90	91.00	74.20	132.40	190.30	213.00	243.00	943.00	146.80	119.70	115.50		
6	91.00	99.40	91.70	74.20	134.00	172.45	210.10	237.50	922.25	137.20	119.00	109.90		
7	88.90	86.10	91.00	80.50	148.40	155.60	207.25	234.20	880.75	134.00	105.00	110.60		
8	81.20	83.30	92.40	93.10	155.60	135.60	202.50	234.20	827.20	130.00	98.00	109.20		
9	86.10	88.90	98.00	110.60	153.20	121.10	198.70	234.20	762.60	121.10	102.20	114.10		
10	82.60	84.70	95.90	126.80	144.40	140.40	196.80	237.50	693.90	112.70	106.40	109.20		
11	92.40	91.00	100.80	153.20	143.60	144.40	193.95	245.20	630.00	112.00	102.90	103.60		
12	93.80	88.20	112.70	167.35	156.40	148.40	188.50	256.40	570.60	115.50	103.60	102.90		
13	86.10	86.10	111.30	172.45	169.05	158.85	188.50	270.80	523.20	113.40	102.20	107.80		
14	85.40	94.50	118.30	169.05	177.70	157.20	193.95	286.40	476.25	108.50	107.80	107.80		
15	85.40	101.50	116.20	163.10	184.90	159.70	198.70	302.00	434.60	111.30	113.40	101.50		
16	86.10	102.90	114.80	168.20	194.90	163.95	200.60	322.80	396.50	112.70	115.50	100.10		
17	86.80	97.30	111.30	162.25	211.05	162.25	199.65	340.60	360.80	112.70	112.70	93.80		
18	87.50	98.70	105.70	143.60	224.00	154.00	199.65	360.80	329.40	111.30	125.30	93.10		
19	86.10	100.80	96.60	119.70	230.00	142.80	198.70	380.00	302.00	114.80	145.20	92.40		
20	85.40	91.70	86.10	102.90	233.10	137.20	193.95	394.80	275.60	114.10	138.00	93.80		
21	90.30	89.60	75.60	100.10	239.70	155.60	193.95	403.30	249.60	112.70	127.60	100.80		
22	88.20	75.60	79.80	95.90	245.20	169.90	193.95	406.70	227.00	112.00	127.60	101.50		
23	82.60	66.75	93.80	83.30	246.30	177.70	195.85	415.20	209.15	108.50	130.00	111.30		
24	73.50	77.70	103.60	79.10	246.30	183.10	202.50	420.30	193.00	98.00	127.60	114.80		
25	79.80	87.50	115.50	100.10	249.60	186.70	215.00	434.60	175.00	99.40	142.80	112.00		
26	81.20	95.90	125.30	87.50	251.80	187.60	229.00	453.50	164.80	100.10	150.00	111.30		
27	83.30	105.00	123.90	68.70	255.20	189.40	236.40	476.25	150.00	98.70	154.80	121.10		
28	82.60	127.60	114.80	72.10	258.80	188.50	241.90	490.95	137.20	98.70	156.40	124.60		
29	87.50	146.00	102.90	65.45	261.20	183.10	248.50	530.85	137.20	98.70		123.20		
30	95.20	157.20	93.80	57.65	258.80	185.80	252.90	758.75	147.60	105.00		123.20		
31		152.40		84.00	251.80		257.60		158.85	107.10		116.20		
<b>Total</b>	<b>2506.50</b>	<b>3108.35</b>	<b>3175.60</b>	<b>3304.80</b>	<b>6025.80</b>	<b>5126.10</b>	<b>6465.95</b>	<b>10398.00</b>	<b>14855.00</b>	<b>3702.95</b>	<b>3384.50</b>	<b>3510.15</b>	<b>65563.70</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>83.55</b>	<b>100.27</b>	<b>105.85</b>	<b>106.61</b>	<b>194.38</b>	<b>170.87</b>	<b>208.58</b>	<b>346.60</b>	<b>479.19</b>	<b>119.45</b>	<b>120.88</b>	<b>113.23</b>	<b>179.63</b>	<b>CMS</b>
<b>Max</b>	<b>95.20</b>	<b>157.20</b>	<b>146.00</b>	<b>172.45</b>	<b>261.20</b>	<b>239.70</b>	<b>257.60</b>	<b>758.75</b>	<b>943.00</b>	<b>169.90</b>	<b>156.40</b>	<b>158.85</b>	<b>943.00</b>	<b>CMS</b>
<b>Min</b>	<b>65.45</b>	<b>66.75</b>	<b>75.60</b>	<b>57.65</b>	<b>104.30</b>	<b>121.10</b>	<b>188.50</b>	<b>234.20</b>	<b>137.20</b>	<b>98.00</b>	<b>98.00</b>	<b>92.40</b>	<b>57.65</b>	<b>CMS</b>
<b>Runoff</b>	<b>216.56</b>	<b>268.56</b>	<b>274.37</b>	<b>285.53</b>	<b>520.63</b>	<b>442.90</b>	<b>558.66</b>	<b>898.39</b>	<b>1283.47</b>	<b>319.93</b>	<b>292.42</b>	<b>303.28</b>	<b>5664.70</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>947.85</b>	<b>CMS.</b>	<b>at 5.21 m. (MSL.)</b>	<b>at 21.00 Hours</b>	<b>on Dec 4, 2021</b>									
<b>Runoff Yield</b>	<b>26.60</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>140.38</b>	<b>Liters/Second/Square KM.</b>							





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.50	11.00	19.50	10.40	15.75	15.50	24.00	22.80	60.00	23.70	8.25	24.00		
2	7.65	11.00	18.00	12.00	18.60	16.00	34.20	24.60	100.50	20.10	8.25	19.20		
3	7.65	14.25	17.75	10.80	19.50	15.50	25.50	24.90	90.65	18.00	8.85	16.25		
4	7.65	15.25	17.50	10.20	20.40	14.25	22.50	22.80	63.20	18.30	9.00	14.50		
5	7.65	15.50	17.25	10.80	21.30	13.75	21.30	19.20	53.60	17.25	8.55	12.60		
6	7.50	16.75	17.00	11.80	18.90	13.25	20.10	17.50	47.55	15.75	8.25	11.60		
7	7.50	16.50	16.75	15.00	21.90	13.25	20.10	16.75	44.05	14.50	9.60	11.00		
8	7.35	15.50	14.25	13.75	17.75	13.00	20.10	16.25	40.90	13.75	8.40	10.60		
9	7.35	15.50	13.00	14.50	17.75	13.75	23.10	17.25	37.05	13.50	8.10	11.20		
10	7.35	15.50	13.50	18.30	17.50	14.50	21.60	35.40	33.90	12.80	8.10	10.00		
11	7.50	14.00	16.00	16.50	22.50	15.00	22.50	51.20	31.50	12.40	7.95	9.40		
12	7.35	14.00	15.00	14.50	31.50	14.75	21.30	58.40	26.70	12.20	7.95	9.00		
13	8.40	13.75	17.75	12.40	25.50	13.75	21.30	63.60	24.90	11.80	7.80	8.70		
14	7.95	13.00	15.50	11.40	22.80	14.00	26.70	51.20	24.00	11.60	9.20	8.55		
15	8.70	13.00	13.75	11.40	23.40	13.50	26.10	41.60	23.10	11.20	12.20	8.40		
16	8.70	13.75	12.40	10.80	24.00	13.00	19.50	43.35	21.60	10.60	21.90	8.25		
17	8.40	13.75	12.20	10.20	24.30	11.60	20.70	48.60	20.70	10.20	34.80	8.70		
18	16.25	13.00	13.25	9.80	22.50	12.00	24.00	62.80	19.20	10.00	18.30	8.70		
19	22.50	13.00	12.80	9.40	21.00	14.00	23.70	50.00	19.20	10.20	14.50	9.00		
20	14.50	14.25	12.40	9.20	23.70	27.60	30.30	41.95	18.60	9.60	13.25	12.20		
21	10.40	20.70	12.60	9.20	19.80	21.00	22.80	36.35	17.50	9.40	14.00	14.50		
22	9.20	18.00	12.20	8.40	24.00	19.50	21.30	33.30	17.00	9.40	12.20	10.80		
23	8.55	17.25	11.40	8.10	21.60	21.60	21.30	33.60	16.25	9.20	11.60	10.20		
24	8.55	17.25	13.00	7.95	18.00	17.25	21.60	35.40	15.75	9.00	11.40	10.60		
25	8.25	18.00	11.40	7.80	17.25	16.00	26.40	104.75	15.25	9.00	15.25	10.60		
26	8.10	17.50	12.00	8.10	19.80	16.25	22.80	110.80	16.25	8.85	33.90	11.60		
27	8.55	18.00	12.00	9.20	19.20	15.75	20.70	65.60	18.00	8.70	52.00	10.60		
28	8.40	16.00	11.40	9.40	16.00	18.00	19.20	51.20	15.00	8.70	34.50	10.20		
29	9.40	16.00	11.40	10.40	14.75	18.90	18.00	71.20	14.75	8.55		11.00		
30	11.00	16.75	10.80	15.25	17.75	17.75	16.75	90.20	39.15	8.40		11.00		
31		18.00		12.40	16.25		21.30		31.80	8.40		14.50		
<b>Total</b>	<b>275.80</b>	<b>475.70</b>	<b>423.75</b>	<b>349.35</b>	<b>634.95</b>	<b>473.95</b>	<b>700.75</b>	<b>1362.55</b>	<b>1017.60</b>	<b>375.05</b>	<b>418.05</b>	<b>357.45</b>	<b>6864.95</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>9.19</b>	<b>15.35</b>	<b>14.12</b>	<b>11.27</b>	<b>20.48</b>	<b>15.80</b>	<b>22.60</b>	<b>45.42</b>	<b>32.83</b>	<b>12.10</b>	<b>14.93</b>	<b>11.53</b>	<b>18.81</b>	<b>CMS</b>
<b>Max</b>	<b>22.50</b>	<b>20.70</b>	<b>19.50</b>	<b>18.30</b>	<b>31.50</b>	<b>27.60</b>	<b>34.20</b>	<b>110.80</b>	<b>100.50</b>	<b>23.70</b>	<b>52.00</b>	<b>24.00</b>	<b>110.80</b>	<b>CMS</b>
<b>Min</b>	<b>7.35</b>	<b>11.00</b>	<b>10.80</b>	<b>7.80</b>	<b>14.75</b>	<b>11.60</b>	<b>16.75</b>	<b>16.25</b>	<b>14.75</b>	<b>8.40</b>	<b>7.80</b>	<b>8.25</b>	<b>7.35</b>	<b>CMS</b>
<b>Runoff</b>	<b>23.83</b>	<b>41.10</b>	<b>36.61</b>	<b>30.18</b>	<b>54.86</b>	<b>40.95</b>	<b>60.54</b>	<b>117.72</b>	<b>87.92</b>	<b>32.40</b>	<b>36.12</b>	<b>30.88</b>	<b>593.13</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>235.00 CMS. at 44.00 m. (MSL.) at 19.00 Hours , on Nov 25, 2021</b>													
<b>Runoff Yield</b>	<b>55.16</b>	<b>Liters/Second/Square KM.</b>		<b>689.15</b>	<b>Liters/Second/Square KM.</b>									

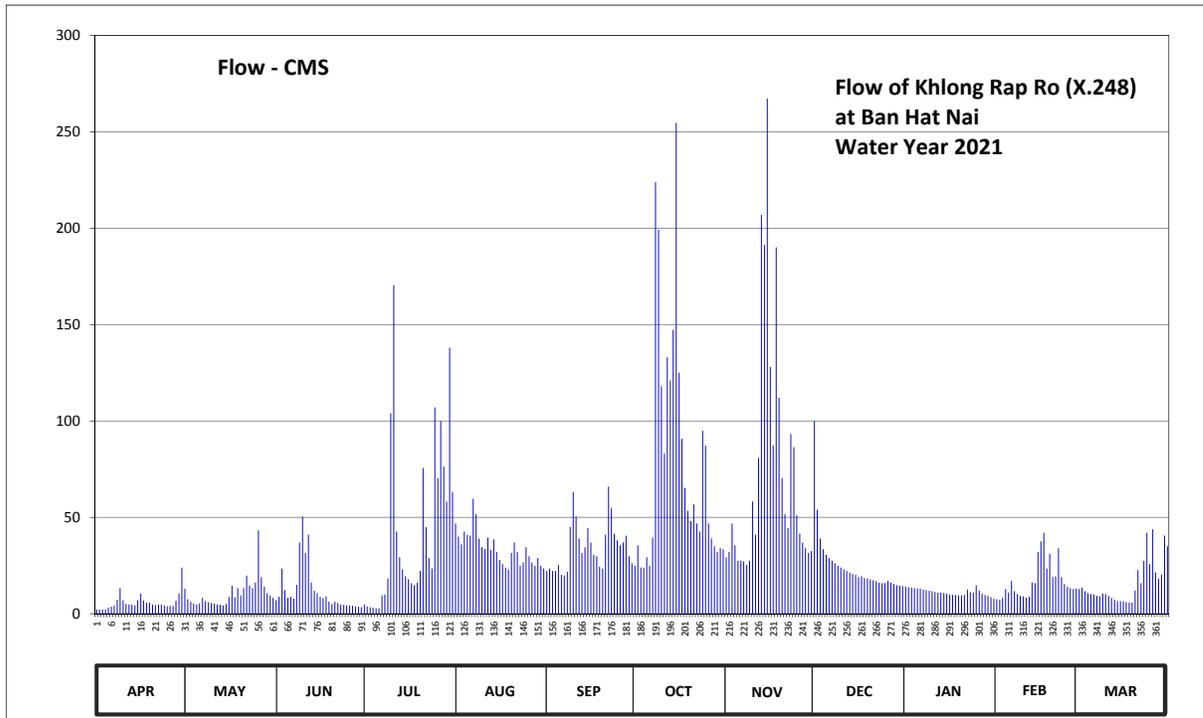
**WATER YEAR : 2021**  
**PENINSULA - UPPER EAST COAST BASIN**  
**Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)**  
 Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

Location : on left bank at Ban Hat Nai.

	<b>Ban Hat Nai</b>	<b>Amphoe Tha Sae</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	626 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	+31.337 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

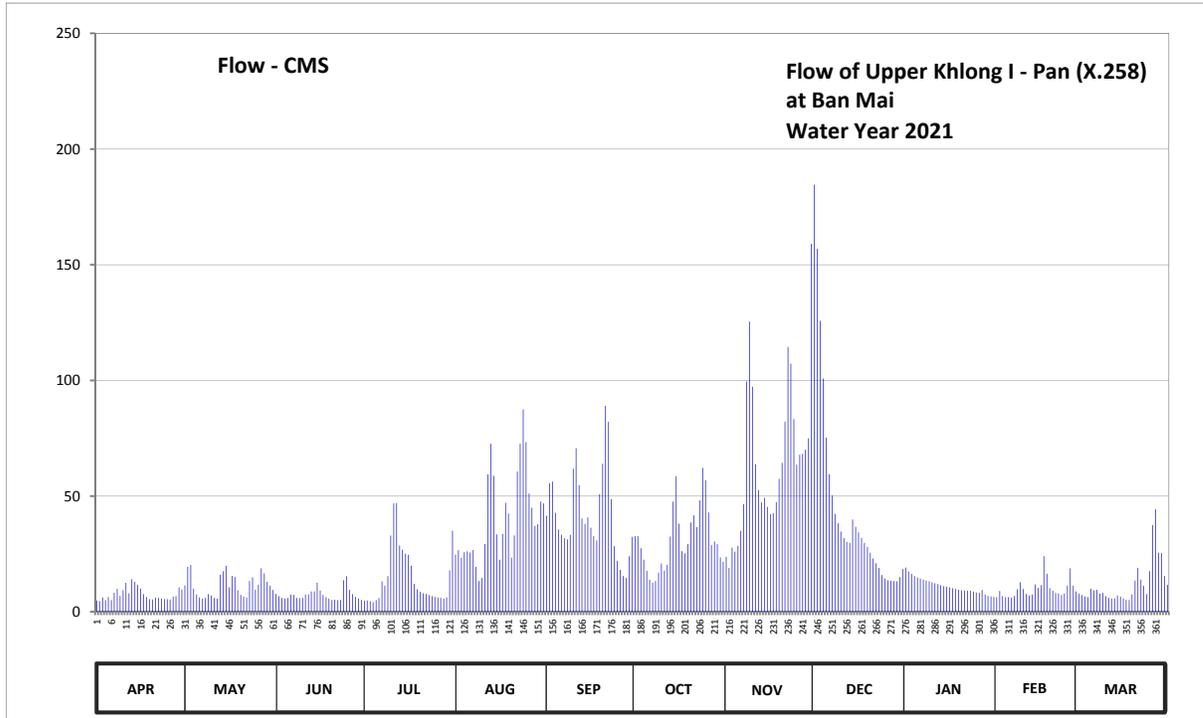
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.92	18.52	18.28	18.18	19.28	18.78	18.84	18.94	20.00	18.56	18.30	18.51	
2	17.92	18.30	18.35	18.08	19.16	18.81	19.07	19.00	19.40	18.55	18.29	18.54	
3	17.92	18.25	18.81	18.04	19.08	18.78	18.82	19.28	19.14	18.54	18.33	18.47	
4	17.92	18.21	18.49	18.01	19.21	18.78	18.82	19.07	19.03	18.53	18.51	18.43	
5	18.02	18.18	18.33	17.98	19.18	18.85	18.94	18.90	18.97	18.52	18.44	18.41	
6	18.06	18.21	18.35	17.98	19.17	18.73	18.84	18.90	18.93	18.52	18.65	18.40	
7	18.12	18.33	18.31	18.38	19.48	18.72	19.15	18.89	18.90	18.50	18.47	18.37	
8	18.29	18.26	18.60	18.40	19.36	18.77	21.06	18.85	18.87	18.49	18.41	18.36	
9	18.53	18.24	19.10	18.68	19.14	19.25	20.87	18.90	18.84	18.48	18.37	18.42	
10	18.28	18.22	19.34	20.04	19.05	19.53	20.18	19.46	18.82	18.47	18.36	18.41	
11	18.20	18.21	18.99	20.65	19.03	19.34	19.80	19.18	18.80	18.45	18.33	18.37	
12	18.19	18.18	19.18	19.21	19.15	19.14	20.33	19.77	18.78	18.44	18.35	18.33	
13	18.17	18.16	18.63	18.94	19.02	18.99	20.21	20.93	18.76	18.44	18.63	18.29	
14	18.13	18.13	18.48	18.80	19.13	19.05	20.46	20.81	18.74	18.43	18.62	18.26	
15	18.28	18.20	18.43	18.71	19.00	19.24	21.29	21.38	18.73	18.42	19.00	18.26	
16	18.42	18.35	18.35	18.67	18.91	19.10	20.25	20.28	18.70	18.40	19.11	18.26	
17	18.27	18.58	18.32	18.62	18.86	18.97	19.89	19.85	18.71	18.39	19.20	18.24	
18	18.23	18.34	18.36	18.59	18.82	18.95	19.56	20.80	18.69	18.39	18.81	18.23	
19	18.23	18.53	18.25	18.63	18.80	18.83	19.39	20.12	18.68	18.38	18.98	18.23	
20	18.18	18.38	18.20	18.78	18.99	18.81	19.30	19.63	18.67	18.38	18.70	18.48	
21	18.15	18.53	18.25	19.70	19.10	19.18	19.44	19.36	18.66	18.39	18.71	18.79	
22	18.18	18.72	18.22	19.25	19.00	19.57	19.28	19.24	18.65	18.50	19.04	18.62	
23	18.17	18.58	18.16	18.93	18.84	19.41	19.21	19.92	18.63	18.45	18.70	18.90	
24	18.13	18.53	18.15	18.81	18.88	19.19	19.94	19.84	18.62	18.44	18.61	19.20	
25	18.09	18.63	18.12	20.07	19.05	19.12	19.85	19.35	18.62	18.59	18.56	18.86	
26	18.11	19.22	18.12	19.63	18.95	19.07	19.28	19.19	18.65	18.48	18.53	19.23	
27	18.10	18.70	18.12	20.00	18.88	19.10	19.14	19.10	18.63	18.42	18.51	18.76	
28	18.27	18.56	18.08	19.71	18.84	19.17	19.06	19.04	18.61	18.39	18.52	18.68	
29	18.42	18.43	18.06	19.46	18.93	18.95	19.00	18.99	18.59	18.37	18.73	18.73	
30	18.82	18.38	18.04	20.38	18.84	18.87	19.04	19.01	18.58	18.34	18.23	19.17	
31		18.33		19.53	18.81		19.03		18.57	18.31		19.06	
Mean	18.19	18.40	18.42	18.99	19.03	19.04	19.59	19.53	18.81	18.45	18.61	18.56	
Max	18.82	19.22	19.34	20.65	19.48	19.57	21.29	21.38	20.00	18.59	19.20	19.23	21.38
Min	17.92	18.13	18.04	17.98	18.80	18.72	18.82	18.85	18.57	18.31	18.29	18.23	17.92
Annual Max Momentary Gage Height	22.76		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed 17.06		m. (MSL.)				
Left Bank Elevation		27.09		m. (MSL.) ,									
Right Bank Elevation		23.89		m. (MSL.) ,			Drainage Are 626		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.20	13.00	7.00	4.80	46.80	22.20	24.80	29.30	100.00	14.00	7.50	12.75		
2	2.20	7.50	8.75	3.80	40.00	23.45	35.50	32.00	54.00	13.75	7.25	13.50		
3	2.20	6.25	23.45	3.40	36.00	22.20	23.90	46.80	39.00	13.50	8.25	11.75		
4	2.20	5.25	12.25	3.10	42.60	22.20	23.90	35.50	33.50	13.25	12.75	10.75		
5	3.20	4.80	8.25	2.80	41.00	25.25	29.30	27.50	30.65	13.00	11.00	10.25		
6	3.60	5.25	8.75	2.80	40.50	20.20	24.80	27.50	28.85	13.00	17.00	10.00		
7	4.20	8.25	7.75	9.50	59.60	19.80	39.50	27.05	27.50	12.50	11.75	9.25		
8	7.25	6.50	15.00	10.00	51.60	21.80	223.80	25.25	26.15	12.25	10.25	9.00		
9	13.25	6.00	37.00	18.20	39.00	45.00	199.10	27.50	24.80	12.00	9.25	10.50		
10	7.00	5.50	50.40	104.00	34.50	63.10	118.00	58.20	23.90	11.75	9.00	10.25		
11	5.00	5.25	31.55	170.50	33.50	50.40	83.00	41.00	23.00	11.25	8.25	9.25		
12	4.90	4.80	41.00	42.60	39.50	39.00	133.00	80.75	22.20	11.00	8.75	8.25		
13	4.70	4.60	16.20	29.30	33.00	31.55	121.00	206.90	21.40	11.00	16.20	7.25		
14	4.30	4.30	12.00	23.00	38.50	34.50	147.20	191.30	20.60	10.75	15.80	6.50		
15	7.00	5.00	10.75	19.40	32.00	44.40	254.60	267.20	20.20	10.50	32.00	6.50		
16	10.50	8.75	8.75	17.80	27.95	37.00	125.00	128.00	19.00	10.00	37.50	6.50		
17	6.75	14.50	8.00	15.80	25.70	30.65	90.65	87.25	19.40	9.75	42.00	6.00		
18	5.75	8.50	9.00	14.75	23.90	29.75	65.20	190.00	18.60	9.75	23.45	5.75		
19	5.75	13.25	6.25	16.20	23.00	24.35	53.40	112.00	18.20	9.50	31.10	5.75		
20	4.80	9.50	5.00	22.20	31.55	23.45	48.00	70.25	17.80	9.50	19.00	12.00		
21	4.50	13.25	6.25	75.50	37.00	41.00	56.80	51.60	17.40	9.75	19.40	22.60		
22	4.80	19.80	5.50	45.00	32.00	65.90	46.80	44.40	17.00	12.50	34.00	15.80		
23	4.70	14.50	4.60	28.85	24.80	54.70	42.60	93.20	16.20	11.25	19.00	27.50		
24	4.30	13.25	4.50	23.45	26.60	41.50	94.90	86.40	15.80	11.00	15.40	42.00		
25	3.90	16.20	4.20	107.00	34.50	38.00	87.25	51.00	15.80	14.75	14.00	25.70		
26	4.10	43.20	4.20	70.25	29.75	35.50	46.80	41.50	17.00	12.00	13.25	43.80		
27	4.00	19.00	4.20	100.00	26.60	37.00	39.00	37.00	16.20	10.50	12.75	21.40		
28	6.75	14.00	3.80	76.25	24.80	40.50	35.00	34.00	15.40	9.75	13.00	18.20		
29	10.50	10.75	3.60	58.20	28.85	29.75	32.00	31.55	14.75	9.25		20.20		
30	23.90	9.50	3.40	138.00	24.80	26.15	34.00	32.50	14.50	8.50		40.50		
31		8.25		63.10	23.45		33.50		14.25	7.75		35.00		
<b>Total</b>	178.20	328.45	371.35	1319.55	1053.35	1040.25	2412.30	2214.40	763.05	349.00	478.85	494.45	11003.20	CMSDAY
<b>Mean</b>	5.94	10.60	12.38	42.57	33.98	34.67	77.82	73.81	24.61	11.26	17.10	15.95	30.15	CMS
<b>Max</b>	23.90	43.20	50.40	170.50	59.60	65.90	254.60	267.20	100.00	14.75	42.00	43.80	267.20	CMS
<b>Min</b>	2.20	4.30	3.40	2.80	23.00	19.80	23.90	25.25	14.25	7.75	7.25	5.75	2.20	CMS
<b>Runoff</b>	15.40	28.38	32.08	114.01	91.01	89.88	208.42	191.32	65.93	30.15	41.37	42.72	950.68	MCM
<b>Momentary Peak</b>		473.60	CMS.	at 22.76 m. (MSL.)	at 18.00 Hours		on Nov 15, 2021							
<b>Runoff Yield</b>		48.16	Liters/Second/Square KM.		Momentary Peak Yield		756.55	Liters/Second/Square KM.						





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.90	11.40	7.70	4.80	24.70	41.55	32.65	23.80	184.60	19.10	6.30	7.80		
2	4.60	19.40	6.70	4.90	26.60	55.51	32.65	19.00	156.85	17.40	9.00	7.20		
3	6.20	20.20	6.00	4.50	23.30	56.27	27.40	27.70	125.80	16.40	6.70	6.60		
4	5.00	10.00	5.70	4.20	25.70	42.75	22.50	26.00	100.80	15.50	6.30	6.30		
5	6.40	7.50	5.90	5.00	26.10	35.55	17.70	28.48	75.20	14.80	6.30	10.00		
6	5.00	6.20	7.40	5.90	25.60	33.28	13.80	34.90	59.50	14.40	6.10	9.30		
7	8.20	5.60	7.30	13.10	26.70	31.78	12.60	46.50	50.25	13.90	6.80	9.50		
8	10.00	5.90	6.00	11.30	19.40	31.28	13.30	99.60	42.30	13.50	9.70	7.80		
9	6.90	7.60	5.90	15.40	13.30	33.28	16.90	125.35	38.25	13.20	12.80	8.20		
10	9.30	7.00	6.00	32.90	14.60	61.79	20.90	97.20	34.65	12.70	9.80	6.70		
11	12.50	6.00	7.40	46.80	29.32	70.71	17.80	63.74	31.78	12.30	7.70	6.00		
12	8.00	5.60	7.50	46.95	59.31	54.75	20.30	52.61	30.16	12.00	7.00	5.70		
13	14.00	16.00	8.80	28.60	72.59	40.20	32.53	47.25	29.80	11.50	7.40	5.80		
14	12.90	17.50	8.80	26.80	58.74	37.95	47.55	49.20	39.90	11.10	11.80	7.00		
15	11.60	19.90	12.60	25.10	33.40	40.80	58.55	45.30	36.75	10.80	10.30	6.50		
16	10.00	10.50	9.20	24.60	22.50	36.30	38.10	42.15	34.28	10.50	11.50	5.80		
17	7.60	15.50	7.30	19.90	33.65	32.65	26.20	42.60	31.90	10.20	24.00	5.20		
18	6.30	15.00	6.30	12.00	47.10	30.78	25.20	47.40	29.80	9.90	16.40	5.10		
19	5.40	9.30	5.60	9.70	42.45	50.74	29.20	57.41	28.00	9.50	10.20	7.50		
20	5.30	7.30	5.10	8.60	23.40	63.94	38.55	64.33	25.50	9.30	9.10	13.50		
21	6.10	6.50	5.20	8.00	33.03	89.00	41.70	82.10	23.00	9.20	8.10	19.00		
22	6.00	6.10	5.00	7.70	60.64	82.10	36.60	114.40	21.00	9.10	7.90	13.90		
23	5.70	13.30	5.10	7.20	72.59	48.60	48.15	107.20	18.90	9.10	7.30	11.20		
24	5.50	14.90	13.60	6.70	87.50	28.36	62.18	83.30	15.90	8.70	7.90	7.60		
25	5.40	9.50	15.30	6.40	73.30	22.00	56.84	63.55	14.40	8.30	11.30	17.50		
26	5.30	11.70	9.50	6.20	51.08	18.10	42.90	67.90	13.60	8.20	18.80	37.50		
27	6.50	18.80	7.60	6.00	45.00	15.40	28.84	68.30	13.40	9.40	11.30	44.25		
28	6.70	16.60	6.40	5.60	37.05	14.60	30.40	70.01	13.30	7.40	8.80	25.50		
29	10.50	12.90	5.60	6.20	37.80	24.00	29.20	74.90	13.10	6.80		25.30		
30	9.60	11.30	5.10	17.90	47.55	32.40	23.50	159.05	15.00	6.60		15.50		
31		9.40		35.03	46.80		21.60		18.50	6.40		11.60		
Total	227.40	354.40	221.60	463.98	1240.80	1256.42	966.29	1931.23	1366.17	347.20	276.60	376.35	9028.44	CMSDAY
Mean	7.58	11.43	7.39	14.97	40.03	41.88	31.17	64.37	44.07	11.20	9.88	12.14	24.74	CMS
Max	14.00	20.20	15.30	46.95	87.50	89.00	62.18	159.05	184.60	19.10	24.00	44.25	184.60	CMS
Min	4.60	5.60	5.00	4.20	13.30	14.60	12.60	19.00	13.10	6.40	6.10	5.10	4.20	CMS
Runoff	19.65	30.62	19.15	40.09	107.21	108.55	83.49	166.86	118.04	30.00	23.90	32.52	780.06	MCM
Momentary Peak	190.90	CMS.	at 58.46 m. (MSL.) at 07.00 Hours , on Dec 1, 2021											
Runoff Yield	23.69	Liters/Second/Square KM.		Momentary Peak Yield		182.85	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PENINSULA - UPPER EAST COAST BASIN

## Lower Khlong I - Pan at Ban Apat, Surat Thani (X.260)

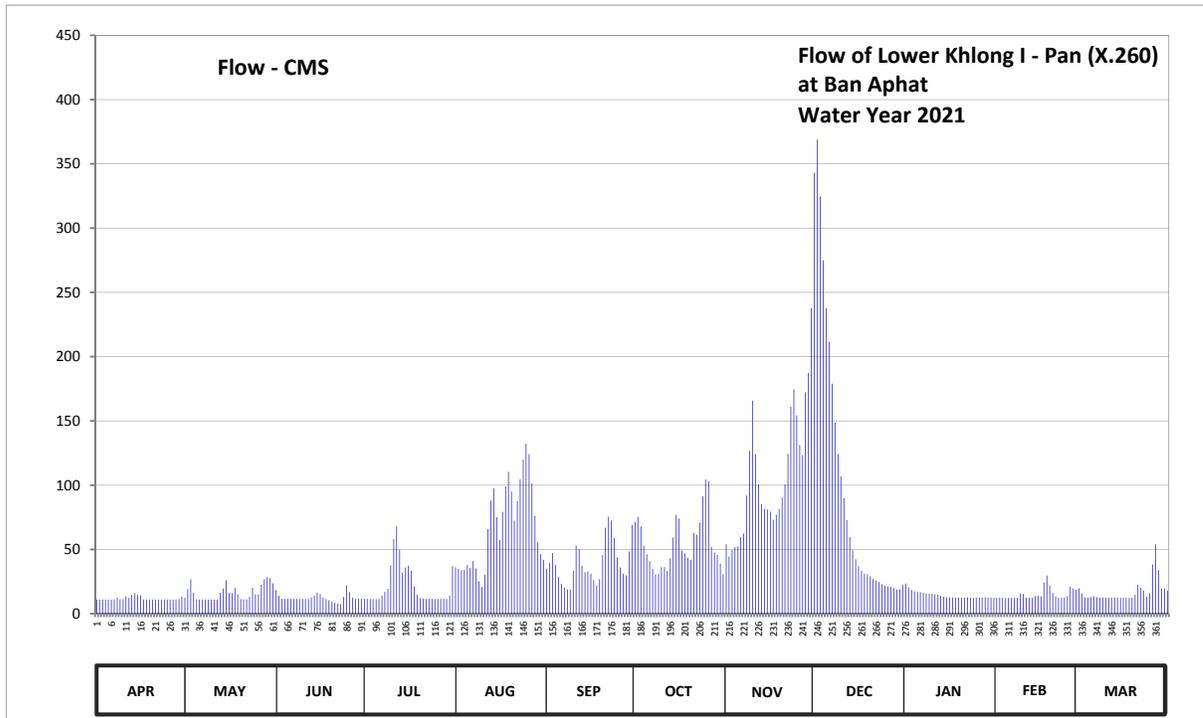
Lat 08 - 32 - 37 N Long 99 - 13 - 24 E

Location : on right bank of stream.

	<b>Ban Apat</b>	<b>Amphoe Phrasaeng</b>	<b>Changwat</b>	<b>Surat Thani</b>
<b>Drainage Area</b>	2,027 sq.km.			
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+3.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On left bank downstream at the footpath		<b>Elevation</b>	+29.381 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	2007 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2007 to date			
<b>Rated by Float</b>	-			
<b>Rated by Current Meter</b>	2007 to date			
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.			
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 12.050 m.(MSL.), records are channel flow only.			
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2021.			

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.96	6.07	6.54	6.00	7.74	7.68	9.17	8.57	11.99	6.96	6.07	6.66	
2	5.96	6.62	6.21	6.00	7.69	7.92	9.28	8.16	12.12	6.72	6.08	6.35	
3	5.96	7.19	6.01	5.99	7.62	8.28	9.06	8.38	11.89	6.56	6.07	6.10	
4	5.96	6.39	6.00	5.99	7.64	7.85	8.52	8.47	11.60	6.48	6.07	6.08	
5	5.96	5.97	6.00	5.99	7.85	7.32	8.23	8.50	11.36	6.44	6.07	6.12	
6	5.96	5.96	6.00	5.99	7.72	6.94	8.00	8.78	11.11	6.43	6.07	6.17	
7	5.97	5.96	6.00	6.21	8.01	6.71	7.67	8.88	10.80	6.39	6.07	6.11	
8	6.08	5.96	6.00	6.45	7.70	6.59	7.44	9.66	10.48	6.33	6.08	6.08	
9	5.97	5.96	6.00	6.63	7.08	6.59	7.46	10.22	10.19	6.33	6.34	6.08	
10	5.98	5.96	6.00	7.83	6.74	7.60	7.76	10.66	9.93	6.33	6.31	6.08	
11	6.17	5.96	6.00	8.72	7.42	8.52	7.76	10.74	9.62	6.29	6.08	6.08	
12	6.08	5.96	6.00	9.06	9.00	8.41	7.58	10.47	9.21	6.27	6.07	6.08	
13	6.26	6.39	6.10	8.39	9.58	7.82	8.10	10.25	8.78	6.20	6.07	6.08	
14	6.36	6.65	6.20	7.50	9.77	7.53	8.77	10.19	8.37	6.14	6.18	6.08	
15	6.26	7.14	6.41	7.74	9.27	7.56	9.32	10.18	8.06	6.10	6.20	6.08	
16	6.22	6.38	6.31	7.82	8.69	7.47	9.24	10.15	7.80	6.09	6.16	6.08	
17	5.97	6.37	6.09	7.59	9.38	7.15	8.36	10.02	7.60	6.09	7.02	6.08	
18	5.96	6.69	5.99	6.77	9.80	6.83	8.26	10.10	7.46	6.08	7.38	6.07	
19	5.96	6.28	5.92	6.27	9.99	7.20	8.11	10.19	7.44	6.08	6.82	6.07	
20	5.96	5.99	5.84	6.05	9.72	8.20	8.04	10.33	7.35	6.08	6.37	6.26	
21	5.96	5.97	5.77	6.01	9.20	9.03	8.89	10.47	7.20	6.08	6.16	6.89	
22	5.96	5.97	5.69	6.00	9.57	9.28	8.85	10.74	7.12	6.10	6.08	6.70	
23	5.96	6.13	5.65	6.00	9.89	9.20	9.15	11.06	7.04	6.08	6.08	6.51	
24	5.96	6.69	6.12	6.00	10.13	8.76	9.65	11.16	6.92	6.08	6.08	6.16	
25	5.96	6.29	6.84	6.00	10.29	8.13	9.89	11.01	6.83	6.08	6.19	6.36	
26	5.96	6.28	6.43	6.00	10.19	7.74	9.87	10.81	6.78	6.09	6.76	7.87	
27	5.96	6.88	6.08	6.00	9.84	7.47	9.49	10.73	6.74	6.10	6.65	8.56	
28	5.96	7.18	6.00	6.00	9.30	7.39	9.35	10.73	6.67	6.10	6.58	7.62	
29	6.00	7.29	6.00	6.00	8.63	8.33	9.29	10.88	6.59	6.08		6.63	
30	6.13	7.26	6.00	6.22	8.24	9.09	9.02	11.36	6.59	6.08		6.66	
31		6.97		7.79	8.04		8.64		6.87	6.07		6.52	
Mean	6.03	6.41	6.07	6.68	8.77	7.82	8.65	10.06	8.66	6.24	6.29	6.43	
Max	6.36	7.29	6.84	9.06	10.29	9.28	9.89	11.36	12.12	6.96	7.38	8.56	12.12
Min	5.96	5.96	5.65	5.99	6.74	6.59	7.44	8.16	6.59	6.07	6.07	6.07	5.65
Annual Max Momentary Gage Height	12.15												
Zero Gage at Bottom Elevation	3.00												
Left Bank Elevation	12.04												
Right Bank Elevation	12.41												
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation		</											



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.00	12.38	18.25	11.50	35.95	34.90	71.53	54.25	343.15	23.50	12.38	19.75	
2	11.00	19.25	14.13	11.50	35.08	39.40	75.50	44.60	369.00	20.50	12.50	15.88	
3	11.00	26.85	11.63	11.38	33.85	47.30	67.95	49.55	324.65	18.50	12.38	12.75	
4	11.00	16.38	11.50	11.38	34.20	38.00	53.00	51.75	275.00	17.50	12.38	12.50	
5	11.00	11.13	11.50	11.38	38.00	28.80	46.18	52.50	237.80	17.00	12.38	13.00	
6	11.00	11.00	11.50	11.38	35.60	23.25	41.00	59.50	211.55	16.88	12.38	13.63	
7	11.13	11.00	11.50	14.13	41.23	20.38	34.73	62.40	179.00	16.38	12.38	12.88	
8	12.50	11.00	11.50	17.13	35.25	18.88	30.70	92.00	148.60	15.63	12.50	12.50	
9	11.13	11.00	11.50	19.38	25.20	18.88	31.05	126.60	124.30	15.63	15.75	12.50	
10	11.25	11.00	11.50	37.60	20.75	33.50	36.30	165.70	106.80	15.63	15.38	12.50	
11	13.63	11.00	11.50	58.00	30.35	53.00	36.30	124.30	90.00	15.13	12.50	12.50	
12	12.50	11.00	11.50	67.95	66.00	50.25	33.15	100.60	72.88	14.88	12.38	12.50	
13	14.75	16.38	12.75	49.78	88.10	37.40	43.25	85.25	59.50	14.00	12.38	12.50	
14	16.00	19.63	14.00	31.75	97.50	32.28	59.25	81.50	49.33	13.25	13.75	12.50	
15	14.75	26.10	16.63	35.95	75.13	32.80	77.00	81.00	42.35	12.75	14.00	12.50	
16	14.25	16.25	15.38	37.40	57.25	31.23	74.00	79.50	37.00	12.63	13.50	12.50	
17	11.13	16.13	12.63	33.33	79.25	26.25	49.10	73.00	33.50	12.63	24.30	12.50	
18	11.00	20.13	11.38	21.13	99.00	21.88	46.85	77.00	31.05	12.50	29.70	12.38	
19	11.00	15.00	10.50	14.88	110.40	27.00	43.48	81.50	30.70	12.50	21.75	12.38	
20	11.00	11.38	9.50	12.13	95.00	45.50	41.90	90.45	29.25	12.50	16.13	14.75	
21	11.00	11.13	8.70	11.63	72.50	66.98	62.70	100.60	27.00	12.50	13.50	22.63	
22	11.00	11.13	7.90	11.50	87.65	75.50	61.50	124.30	25.80	12.75	12.50	20.25	
23	11.00	13.13	7.50	11.50	104.40	72.50	70.88	161.10	24.60	12.50	12.50	17.88	
24	11.00	20.13	13.00	11.50	120.10	59.00	91.50	174.60	23.00	12.50	12.50	13.50	
25	11.00	15.13	22.00	11.50	132.20	43.93	104.40	154.35	21.88	12.50	13.88	16.00	
26	11.00	15.00	16.88	11.50	124.30	35.95	103.20	131.15	21.25	12.63	21.00	38.40	
27	11.00	22.50	12.50	11.50	101.40	31.23	52.15	123.35	20.75	12.75	19.63	54.00	
28	11.00	26.70	11.50	11.50	76.25	29.85	47.50	172.35	19.88	12.75	18.75	33.85	
29	11.50	28.35	11.50	11.50	55.75	48.43	45.70	187.40	18.88	12.50		19.38	
30	13.13	27.90	11.50	14.25	46.40	68.93	38.95	237.80	18.88	12.50		19.75	
31		23.63		36.83	41.90		30.80		22.38	12.38		18.00	
Total	354.65	518.72	373.26	673.77	2095.94	1193.18	1701.50	3199.95	3039.71	448.18	425.06	538.54	14562.46 CMSDAY
Mean	11.82	16.73	12.44	21.73	67.61	39.77	54.89	106.66	98.06	14.46	15.18	17.37	39.90 CMS
Max	16.00	28.35	22.00	67.95	132.20	75.50	104.40	237.80	369.00	23.50	29.70	54.00	369.00 CMS
Min	11.00	11.00	7.50	11.38	20.75	18.88	30.70	44.60	18.88	12.38	12.38	12.38	7.50 CMS
Runoff	30.64	44.82	32.25	58.21	181.09	103.09	147.01	276.48	262.63	38.72	36.73	46.53	1258.20 MCM
Momentary Peak	375.00 CMS. at 12.15 m. (MSL.) at 02.00 Hours , on Dec 2, 2021												
Runoff Yield	19.68	Liters/Second/Square KM.		Momentary Peak Yield		185.00	Liters/Second/Square KM.						

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Sao Thong at Thalung Thong Temple , Nakhon Si Thammarat (X.289)

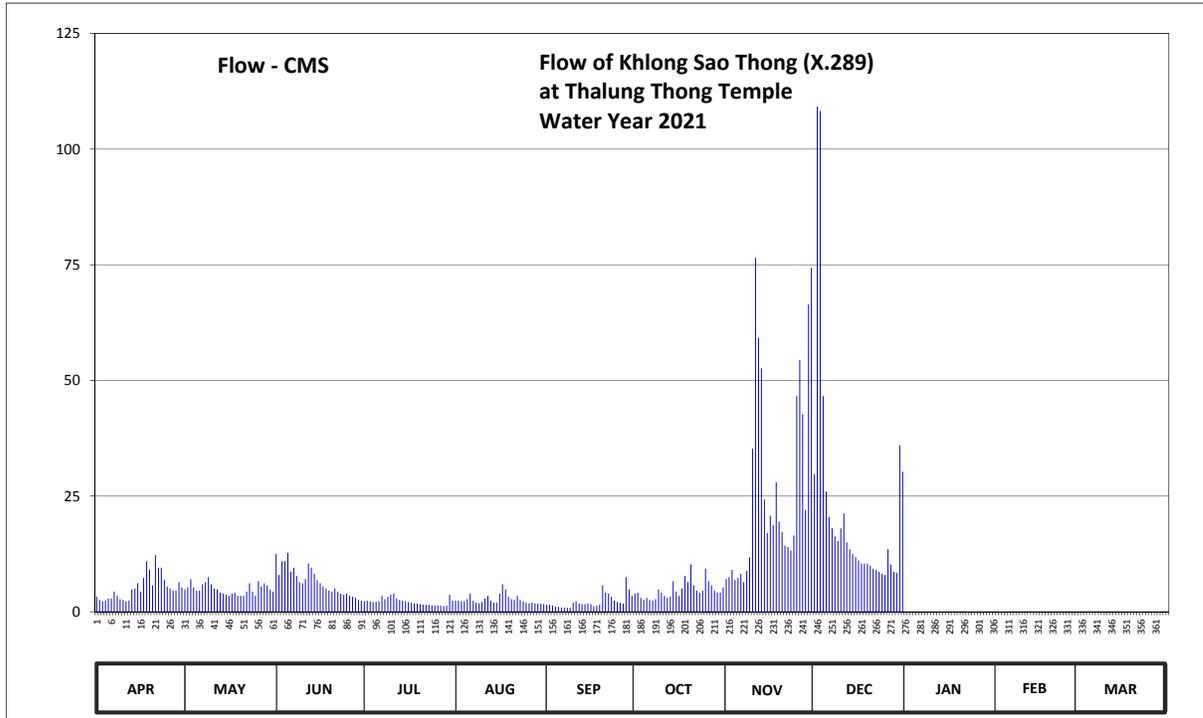
Lat 08 - 18 - 22 N Long 99 - 51 - 36 E

Location : on right bank at the bridge.

	<b>Thalung Thong Temple</b>	<b>Amphoe</b> Ron Phibun	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	193 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	-	<b>Elevation</b>	- m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2021 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2021 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2021 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2021.		
<b>Remark</b>	Due to the bridge construction, discharge can not be completed.However,the Momentary peak can be observed.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

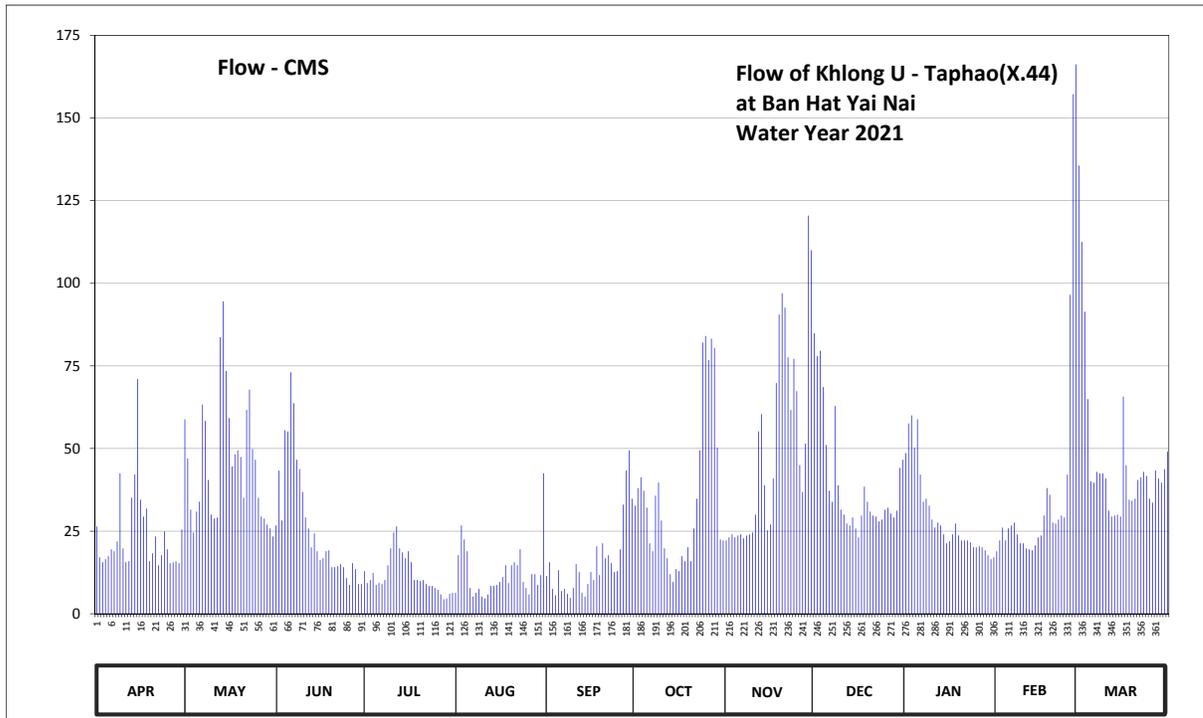
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.41	15.48	15.82	15.35	15.36	15.30	15.44	15.58	16.51				
2	15.37	15.50	15.62	15.36	15.36	15.30	15.45	15.60	18.87				
3	15.35	15.58	15.75	15.35	15.35	15.29	15.40	15.67	18.85				
4	15.36	15.50	15.75	15.34	15.35	15.27	15.37	15.57	17.12				
5	15.39	15.47	15.83	15.34	15.38	15.27	15.40	15.59	16.36				
6	15.39	15.47	15.65	15.35	15.44	15.26	15.37	15.63	16.14				
7	15.46	15.53	15.69	15.42	15.36	15.26	15.36	15.55	16.04				
8	15.42	15.55	15.61	15.38	15.33	15.26	15.38	15.66	15.97				
9	15.38	15.60	15.55	15.41	15.32	15.26	15.48	15.79	15.93				
10	15.37	15.53	15.54	15.43	15.34	15.33	15.45	16.73	16.04				
11	15.35	15.49	15.58	15.44	15.39	15.35	15.42	18.07	16.17				
12	15.36	15.48	15.73	15.39	15.42	15.32	15.40	17.54	15.92				
13	15.48	15.45	15.69	15.37	15.36	15.31	15.41	17.32	15.86				
14	15.49	15.44	15.63	15.36	15.33	15.31	15.56	16.29	15.82				
15	15.54	15.43	15.57	15.35	15.33	15.32	15.46	16.00	15.79				
16	15.46	15.42	15.54	15.34	15.44	15.31	15.42	16.15	15.76				
17	15.59	15.44	15.51	15.33	15.53	15.28	15.49	16.07	15.73				
18	15.75	15.45	15.49	15.32	15.48	15.29	15.61	16.44	15.73				
19	15.67	15.42	15.47	15.32	15.41	15.30	15.55	16.10	15.73				
20	15.52	15.42	15.46	15.31	15.38	15.52	15.72	16.01	15.71				
21	15.81	15.42	15.49	15.30	15.37	15.45	15.52	15.89	15.68				
22	15.69	15.46	15.46	15.30	15.42	15.44	15.47	15.88	15.67				
23	15.69	15.54	15.44	15.30	15.37	15.41	15.45	15.85	15.65				
24	15.57	15.46	15.43	15.29	15.35	15.36	15.47	15.98	15.63				
25	15.51	15.42	15.44	15.29	15.33	15.34	15.68	17.12	15.62				
26	15.49	15.56	15.42	15.29	15.32	15.33	15.56	17.38	15.86				
27	15.47	15.51	15.41	15.29	15.33	15.32	15.52	16.99	15.72				
28	15.47	15.54	15.40	15.28	15.32	15.60	15.47	16.20	15.65				
29	15.55	15.52	15.37	15.29	15.32	15.48	15.45	17.78	15.64				
30	15.50	15.48	15.36	15.43	15.32	15.42	15.45	18.01	16.76				
31		15.46		15.36	15.31		15.50		16.53				
Mean	15.50	15.48	15.56	15.34	15.37	15.34	15.47	16.35	16.14				
Max	15.81	15.60	15.83	15.44	15.53	15.60	15.72	18.07	18.87				18.87
Min	15.35	15.42	15.36	15.28	15.31	15.26	15.36	15.55	15.62				15.26
Annual Max Momentary Gage Height	20.18		m. (MSL.) ,			at 16.00 Hours ,	on Dec 2, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	13.73	m. (MSL.)					
Left Bank Elevation		22.53		m. (MSL.) ,									
Right Bank Elevation		22.55		m. (MSL.) ,		Drainage Are	193	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

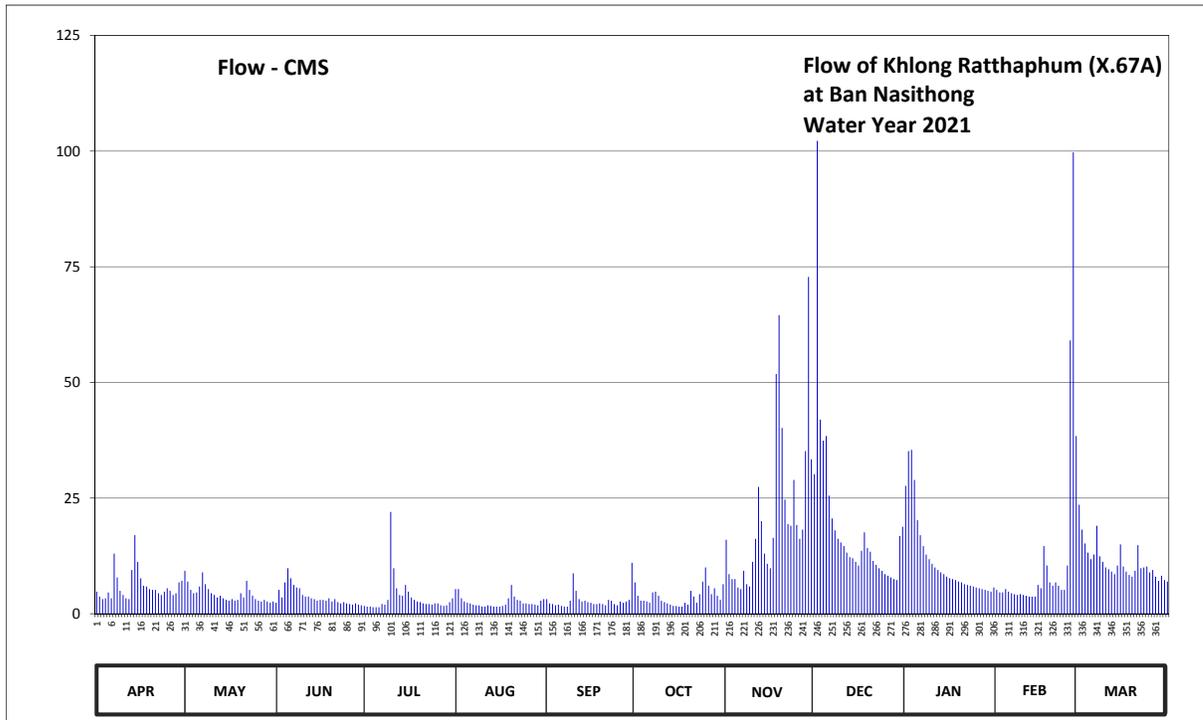
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.23	4.80	12.50	2.25	2.40	1.50	3.90	7.05	29.75				
2	2.55	5.25	7.95	2.40	2.40	1.50	4.13	7.50	109.15				
3	2.25	7.05	10.88	2.25	2.25	1.35	3.00	9.08	108.25				
4	2.40	5.25	10.88	2.10	2.25	1.05	2.55	6.83	46.60				
5	2.85	4.58	12.75	2.10	2.70	1.05	3.00	7.28	26.00				
6	2.85	4.58	8.63	2.25	3.90	0.90	2.55	8.18	20.50				
7	4.35	5.93	9.53	3.45	2.40	0.90	2.40	6.38	18.00				
8	3.45	6.38	7.73	2.70	1.95	0.90	2.70	8.85	16.25				
9	2.70	7.50	6.38	3.23	1.80	0.90	4.80	11.78	15.25				
10	2.55	5.93	6.15	3.68	2.10	1.95	4.13	35.25	18.00				
11	2.25	5.03	7.05	3.90	2.85	2.25	3.45	76.45	21.25				
12	2.40	4.80	10.43	2.85	3.45	1.80	3.00	59.20	15.00				
13	4.80	4.13	9.53	2.55	2.40	1.65	3.23	52.60	13.50				
14	5.03	3.90	8.18	2.40	1.95	1.65	6.60	24.25	12.50				
15	6.15	3.68	6.83	2.25	1.95	1.80	4.35	17.00	11.78				
16	4.35	3.45	6.15	2.10	3.90	1.65	3.45	20.75	11.10				
17	7.28	3.90	5.48	1.95	5.93	1.20	5.03	18.75	10.43				
18	10.88	4.13	5.03	1.80	4.80	1.35	7.73	28.00	10.43				
19	9.08	3.45	4.58	1.80	3.23	1.50	6.38	19.50	10.43				
20	5.70	3.45	4.35	1.65	2.70	5.70	10.20	17.25	9.98				
21	12.25	3.45	5.03	1.50	2.55	4.13	5.70	14.25	9.30				
22	9.53	4.35	4.35	1.50	3.45	3.90	4.58	14.00	9.08				
23	9.53	6.15	3.90	1.50	2.55	3.23	4.13	13.25	8.63				
24	6.83	4.35	3.68	1.35	2.25	2.40	4.58	16.50	8.18				
25	5.48	3.45	3.90	1.35	1.95	2.10	9.30	46.60	7.95				
26	5.03	6.60	3.45	1.35	1.80	1.95	6.60	54.40	13.50				
27	4.58	5.48	3.23	1.35	1.95	1.80	5.70	42.70	10.20				
28	4.58	6.15	3.00	1.20	1.80	7.50	4.58	22.00	8.63				
29	6.38	5.70	2.55	1.35	1.80	4.80	4.13	66.40	8.40				
30	5.25	4.80	2.40	3.68	1.80	3.45	4.13	74.35	36.00				
31		4.35		2.40	1.65		5.25		30.25				
<b>Total</b>	156.54	152.00	196.48	68.19	80.86	67.81	145.26	806.38	684.27				2357.79 CMSDAY
<b>Mean</b>	5.22	4.90	6.55	2.20	2.61	2.26	4.69	26.88	22.07				8.57 CMS
<b>Max</b>	12.25	7.50	12.75	3.90	5.93	7.50	10.20	76.45	109.15				109.15 CMS
<b>Min</b>	2.25	3.45	2.40	1.20	1.65	0.90	2.40	6.38	7.95				0.90 CMS
<b>Runoff</b>	13.53	13.13	16.98	5.89	6.99	5.86	12.55	69.67	59.12				203.71 MCM
<b>Momentary Peak</b>	183.60	CMS.	at 20.18 m. (MSL.)	at 16.00 Hours	on Dec 2, 2021								
<b>Runoff Yield</b>	33.47	Liters/Second/Square KM.		Momentary Peak Yield	951.30	Liters/Second/Square KM.							





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.40	58.80	26.70	12.90	6.30	11.40	32.70	22.20	84.86	48.62	18.90	135.60		
2	17.10	46.99	43.33	9.30	17.70	15.60	38.04	23.10	77.94	57.58	22.20	112.50		
3	15.60	31.50	28.20	10.20	26.70	7.50	41.29	24.00	79.56	60.02	26.10	91.37		
4	16.50	24.60	55.54	12.30	22.50	5.60	37.22	23.10	68.57	50.25	22.20	64.91		
5	17.40	30.90	55.14	8.70	18.90	13.20	32.10	23.70	51.06	58.80	25.80	40.07		
6	19.50	33.90	73.05	9.30	7.80	6.90	21.30	24.00	37.22	42.11	26.70	39.66		
7	18.90	63.28	63.69	9.00	5.20	7.50	18.90	22.80	33.90	33.90	27.60	42.92		
8	21.90	58.39	46.59	10.20	6.30	6.00	35.70	23.70	62.87	34.80	24.00	42.51		
9	42.51	40.48	43.74	14.70	7.50	4.80	39.66	24.00	38.85	32.70	21.30	42.51		
10	19.80	30.00	36.81	19.80	5.20	7.80	28.20	24.60	31.50	28.50	21.30	40.89		
11	15.60	28.80	29.10	24.60	4.60	15.00	19.80	30.00	30.00	26.10	19.80	31.20		
12	15.90	29.10	25.80	26.40	5.80	12.60	16.80	55.14	27.30	27.60	19.50	29.40		
13	35.10	83.64	20.10	19.80	8.40	6.30	12.00	60.43	26.70	26.70	19.20	29.70		
14	42.11	94.50	24.30	18.60	8.40	5.20	9.60	38.85	29.10	24.00	20.70	30.00		
15	71.01	73.46	18.90	16.80	8.70	9.00	13.50	25.20	25.80	21.30	23.10	29.40		
16	34.50	59.21	16.20	18.90	9.60	12.60	12.90	27.00	23.10	21.90	23.70	65.72		
17	29.40	44.55	16.80	15.60	11.10	10.20	17.40	40.89	29.70	24.00	29.70	44.96		
18	31.80	48.21	18.90	10.20	14.70	20.40	15.90	69.79	38.44	27.30	38.04	34.50		
19	15.90	49.44	19.20	10.20	9.30	11.70	20.10	90.56	33.90	23.70	36.00	34.20		
20	18.30	47.40	14.10	9.90	14.70	21.30	15.90	97.00	30.90	22.20	27.60	34.80		
21	23.40	35.10	14.10	10.20	15.60	16.80	25.80	92.59	29.70	22.20	27.30	40.48		
22	14.70	61.65	14.40	9.00	14.70	17.70	34.80	77.53	29.40	22.20	28.50	41.29		
23	17.70	67.76	15.00	8.40	19.50	15.30	49.44	61.65	27.90	21.60	29.70	42.92		
24	24.90	49.84	14.10	8.40	9.60	12.60	82.01	77.12	28.50	20.10	29.10	41.70		
25	19.50	46.59	10.80	7.80	7.80	12.90	84.04	67.35	31.50	20.10	42.11	34.80		
26	15.30	35.10	8.70	7.20	5.80	19.50	76.71	44.96	32.10	20.40	96.50	33.60		
27	15.60	29.40	15.30	5.80	12.00	33.00	83.23	36.81	30.30	20.10	157.20	43.33		
28	15.90	28.80	13.50	4.40	12.00	43.33	80.38	51.47	29.10	19.20	166.20	40.89		
29	15.30	27.00	9.00	4.60	8.70	49.44	50.25	120.50	31.20	17.70		39.66		
30	25.50	25.80	9.00	6.00	11.70	34.80	22.50	110.00	44.14	16.50		43.74		
31		23.40		6.30	42.51		22.20		46.59	17.10		49.03		
Total	713.03	1407.59	800.09	365.50	379.31	465.97	1090.37	1510.04	1221.70	909.28	1070.05	1468.26	11401.19	CMSDAY
Mean	23.77	45.41	26.67	11.79	12.24	15.53	35.17	50.33	39.41	29.33	38.22	47.36	31.24	CMS
Max	71.01	94.50	73.05	26.40	42.51	49.44	84.04	120.50	84.86	60.02	166.20	135.60	166.20	CMS
Min	14.70	23.40	8.70	4.40	4.60	4.80	9.60	22.20	23.10	16.50	18.90	29.40	4.40	CMS
Runoff	61.61	121.62	69.13	31.58	32.77	40.26	94.21	130.47	105.55	78.56	92.45	126.86	985.06	MCM
Momentary Peak	172.50 CMS. at 3.82 m. (MSL.) at 01.00 Hours , on Feb 28, 2022													
Runoff Yield	18.35	Liters/Second/Square KM.		Momentary Peak Yield		101.29	Liters/Second/Square KM.							





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.78	9.28	2.38	1.68	5.32	3.16	6.76	16.00	30.15	27.65	5.14	23.54	
2	3.70	6.94	5.14	1.54	5.32	2.24	3.88	8.56	102.18	35.15	4.60	18.20	
3	3.16	5.14	3.52	1.54	3.34	2.10	2.80	7.48	41.96	35.40	4.60	15.20	
4	3.34	4.42	6.76	1.40	2.66	1.82	2.80	7.48	37.40	28.90	5.32	13.20	
5	4.60	4.60	9.82	1.40	2.38	1.96	2.66	5.68	38.40	20.20	4.78	11.80	
6	3.34	5.86	7.66	1.40	2.24	1.68	2.38	5.32	25.52	17.00	4.42	12.80	
7	13.00	8.92	6.22	2.10	1.96	1.54	4.60	9.28	20.60	14.60	4.24	19.00	
8	7.84	6.40	5.68	1.96	1.82	1.54	4.78	6.40	18.00	12.80	4.06	12.40	
9	4.96	5.32	5.50	2.98	1.82	2.80	3.88	5.86	16.20	11.80	4.24	11.20	
10	4.06	4.42	4.06	22.00	1.54	8.74	2.80	11.20	15.40	10.80	4.06	10.00	
11	3.34	4.06	3.70	9.82	1.54	4.96	2.52	16.20	14.60	10.00	3.88	9.64	
12	3.16	3.52	3.70	5.50	1.82	3.16	2.24	27.40	13.20	9.46	3.70	9.10	
13	9.46	3.88	3.34	4.06	1.68	2.66	1.96	20.00	12.20	8.92	3.70	8.56	
14	17.00	3.34	3.16	3.88	1.54	2.80	1.68	13.00	12.00	8.56	3.70	10.40	
15	11.20	2.98	2.80	6.22	1.54	2.52	1.68	10.80	11.20	8.02	6.22	15.00	
16	7.66	2.80	2.98	4.78	1.54	2.38	1.54	9.82	10.40	7.66	5.50	10.20	
17	6.04	3.16	2.98	3.52	1.68	2.10	1.54	16.40	13.60	7.48	14.60	9.10	
18	5.86	2.80	2.80	2.98	1.96	2.10	2.38	51.80	17.60	7.30	10.40	8.38	
19	5.32	2.98	3.34	2.66	3.34	2.24	1.96	64.52	14.20	6.94	6.76	8.02	
20	5.14	4.42	2.66	2.52	6.22	2.10	4.96	40.15	13.40	6.76	6.04	9.28	
21	5.14	3.52	3.16	2.24	3.70	1.82	3.70	24.64	11.40	6.40	6.76	14.80	
22	4.42	7.12	2.52	2.10	2.98	2.98	2.38	19.40	10.60	6.22	6.04	9.82	
23	4.06	5.14	2.24	2.10	2.80	2.80	4.24	19.00	9.82	6.04	5.14	10.00	
24	4.78	3.88	2.52	1.96	2.24	2.10	6.94	28.90	9.28	5.86	5.14	10.20	
25	5.50	3.16	2.24	2.24	2.24	1.82	10.00	19.20	8.56	5.68	10.40	8.92	
26	4.96	2.80	2.10	2.24	2.10	2.66	6.04	16.20	8.20	5.50	59.08	9.46	
27	4.06	2.66	1.96	1.82	2.10	2.38	4.24	18.20	7.84	5.32	99.72	8.02	
28	4.42	2.98	2.24	1.68	1.96	2.66	5.50	35.15	7.48	5.14	38.40	7.12	
29	6.76	2.66	1.96	1.82	1.82	2.98	3.88	72.80	7.30	4.96		8.20	
30	7.12	2.38	1.82	2.52	2.80	11.00	2.98	33.40	16.80	4.78		7.30	
31		2.66		3.34	3.16		6.40		18.80	5.68		6.94	
<b>Total</b>	178.18	134.20	110.96	108.00	79.16	87.80	116.10	640.24	594.29	356.98	340.64	345.80	3092.35 CMSDAY
<b>Mean</b>	5.94	4.33	3.70	3.48	2.55	2.93	3.75	21.34	19.17	11.52	12.17	11.15	8.47 CMS
<b>Max</b>	17.00	9.28	9.82	22.00	6.22	11.00	10.00	72.80	102.18	35.40	99.72	23.54	102.18 CMS
<b>Min</b>	3.16	2.38	1.82	1.40	1.54	1.54	1.54	5.32	7.30	4.78	3.70	6.94	1.40 CMS
<b>Runoff</b>	15.39	11.59	9.59	9.33	6.84	7.59	10.03	55.32	51.35	30.84	29.43	29.88	267.18 MCM
<b>Momentary Peak</b>	167.85 CMS. at 4.67 m. (A.D.) at 02.00 Hours , on Feb 27, 2022												
<b>Runoff Yield</b>	32.97 Liters/Second/Square KM. Momentary Peak Yield 653.11 Liters/Second/Square KM.												

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong Tha Khae at Ban Tha Khae , Phatthalung (X.68)

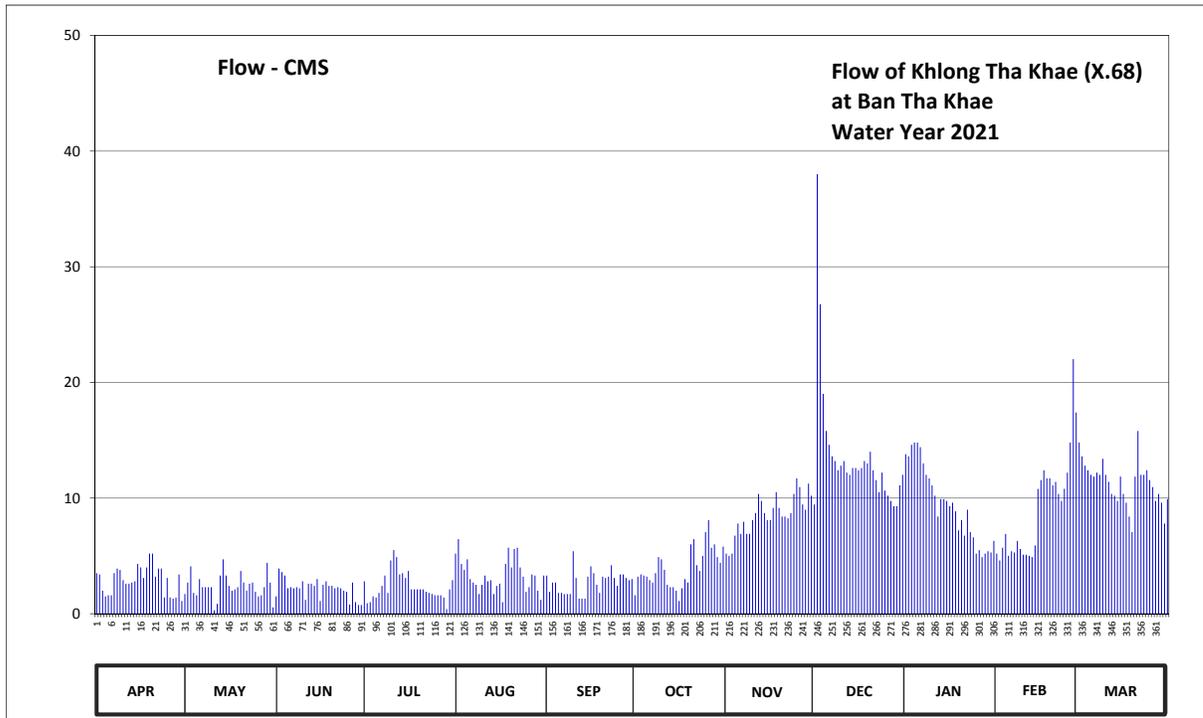
Lat 07 - 34 - 07 N Long 100 - 02 - 55 E

Location : on left bank downstream side of the bridge of Phatthalung - Hat Yai Highway.

	Ban Tha Khae	Amphoe Mueang	Changwat Phatthalung
<b>Drainage Area</b>	233 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Front of staff.		<b>Elevation</b> +15.966 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 - 1972 , 1983 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1967 - 1972 , 1983 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 15.610 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Flow regulated by Tha Khae Weir. Stage-discharge relation defined by 14 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.45	13.27	13.25	13.38	13.62	13.43	13.26	13.62	13.93	14.19	13.62	14.24	
2	13.44	13.37	13.49	13.18	13.73	13.29	13.42	13.60	15.26	14.18	13.56	14.18	
3	13.30	13.51	13.46	13.20	13.53	13.37	13.44	13.62	14.81	14.23	13.67	14.14	
4	13.25	13.28	13.43	13.25	13.48	13.37	13.43	13.75	14.45	14.24	13.76	14.12	
5	13.26	13.26	13.32	13.24	13.57	13.28	13.42	13.82	14.29	14.24	13.60	14.10	
6	13.26	13.40	13.33	13.28	13.40	13.28	13.39	13.76	14.23	14.22	13.64	14.09	
7	13.45	13.33	13.32	13.34	13.37	13.27	13.37	13.83	14.18	14.15	13.63	14.11	
8	13.49	13.33	13.33	13.43	13.35	13.27	13.45	13.76	14.16	14.10	13.72	14.10	
9	13.48	13.33	13.32	13.28	13.27	13.27	13.59	13.76	14.12	14.08	13.66	14.17	
10	13.39	13.33	13.38	13.56	13.35	13.64	13.57	13.84	14.14	14.04	13.61	14.10	
11	13.36	13.06	13.22	13.65	13.43	13.41	13.48	13.88	14.16	13.98	13.61	14.06	
12	13.36	13.17	13.36	13.59	13.38	13.23	13.35	13.99	14.11	13.86	13.60	13.99	
13	13.37	13.43	13.36	13.44	13.39	13.23	13.33	13.95	14.10	13.96	13.59	13.98	
14	13.38	13.57	13.34	13.45	13.27	13.23	13.33	13.88	14.13	13.96	13.69	13.95	
15	13.53	13.43	13.40	13.41	13.34	13.42	13.30	13.84	14.13	13.95	14.02	14.09	
16	13.50	13.34	13.21	13.47	13.36	13.51	13.21	13.84	14.12	13.92	14.07	13.99	
17	13.41	13.30	13.35	13.31	13.20	13.45	13.32	13.91	14.13	13.94	14.12	13.94	
18	13.50	13.31	13.38	13.31	13.53	13.35	13.40	14.00	14.16	13.89	14.08	13.86	
19	13.62	13.33	13.34	13.31	13.67	13.28	13.37	13.91	14.15	13.78	14.08	13.77	
20	13.62	13.47	13.34	13.31	13.50	13.42	13.70	13.86	14.20	13.84	14.04	14.09	
21	13.42	13.37	13.32	13.31	13.66	13.41	13.73	13.86	14.12	13.75	14.06	14.29	
22	13.49	13.30	13.33	13.29	13.67	13.42	13.52	13.85	14.07	13.90	13.99	14.10	
23	13.49	13.36	13.32	13.28	13.50	13.52	13.47	13.88	14.00	13.77	13.95	14.10	
24	13.24	13.37	13.30	13.27	13.42	13.41	13.60	13.99	14.11	13.74	14.02	14.12	
25	13.41	13.29	13.29	13.26	13.29	13.34	13.77	14.08	14.01	13.62	14.11	14.07	
26	13.24	13.25	13.16	13.26	13.33	13.44	13.84	14.03	13.98	13.65	14.24	14.03	
27	13.23	13.26	13.37	13.26	13.44	13.44	13.67	13.93	13.95	13.59	14.60	13.95	
28	13.24	13.33	13.20	13.24	13.43	13.41	13.70	13.90	13.92	13.62	14.37	13.99	
29	13.44	13.54	13.15	13.08	13.30	13.39	13.59	14.05	13.92	13.64		13.94	
30	13.21	13.37	13.15	13.31	13.22	13.40	13.54	13.98	14.04	13.63		13.82	
31		13.11		13.39	13.43		13.68		14.10	13.72		13.96	
Mean	13.39	13.33	13.32	13.33	13.43	13.37	13.49	13.87	14.17	13.92	13.88	14.05	
Max	13.62	13.57	13.49	13.65	13.73	13.64	13.84	14.08	15.26	14.24	14.60	14.29	15.26
Min	13.21	13.06	13.15	13.08	13.20	13.23	13.21	13.60	13.92	13.59	13.56	13.77	13.06
Annual Max Momentary Gage Height	16.11		m. (MSL.) ,				at 17.00 Hours ,						on Dec 2, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	12.35	m. (MSL.)					
Left Bank Elevation		15.60		m. (MSL.) ,									
Right Bank Elevation		16.25		m. (MSL.) ,		Drainage Are	233	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.50	1.70	1.50	2.80	5.20	3.30	1.60	5.20	9.45	13.80	5.20	14.80		
2	3.40	2.70	3.90	0.90	6.45	1.90	3.20	5.00	38.00	13.60	4.60	13.60		
3	2.00	4.10	3.60	1.00	4.30	2.70	3.40	5.20	26.75	14.60	5.70	12.80		
4	1.50	1.80	3.30	1.50	3.80	2.70	3.30	6.75	19.00	14.80	6.90	12.40		
5	1.60	1.60	2.20	1.40	4.70	1.80	3.20	7.80	15.80	14.80	5.00	12.00		
6	1.60	3.00	2.30	1.80	3.00	1.80	2.90	6.90	14.60	14.40	5.40	11.85		
7	3.50	2.30	2.20	2.40	2.70	1.70	2.70	7.95	13.60	13.00	5.30	12.20		
8	3.90	2.30	2.30	3.30	2.50	1.70	3.50	6.90	13.20	12.00	6.30	12.00		
9	3.80	2.30	2.20	1.80	1.70	1.70	4.90	6.90	12.40	11.70	5.60	13.40		
10	2.90	2.30	2.80	4.60	2.50	5.40	4.70	8.10	12.80	11.10	5.10	12.00		
11	2.60	0.30	1.20	5.50	3.30	3.10	3.80	8.70	13.20	10.20	5.10	11.40		
12	2.60	0.85	2.60	4.90	2.80	1.30	2.50	10.35	12.20	8.40	5.00	10.35		
13	2.70	3.30	2.60	3.40	2.90	1.30	2.30	9.75	12.00	9.90	4.90	10.20		
14	2.80	4.70	2.40	3.50	1.70	1.30	2.30	8.70	12.60	9.90	5.90	9.75		
15	4.30	3.30	3.00	3.10	2.40	3.20	2.00	8.10	12.60	9.75	10.80	11.85		
16	4.00	2.40	1.10	3.70	2.60	4.10	1.10	8.10	12.40	9.30	11.55	10.35		
17	3.10	2.00	2.50	2.10	1.00	3.50	2.20	9.15	12.60	9.60	12.40	9.60		
18	4.00	2.10	2.80	2.10	4.30	2.50	3.00	10.50	13.20	8.85	11.70	8.40		
19	5.20	2.30	2.40	2.10	5.70	1.80	2.70	9.15	13.00	7.20	11.70	7.05		
20	5.20	3.70	2.40	2.10	4.00	3.20	6.00	8.40	14.00	8.10	11.10	11.85		
21	3.20	2.70	2.20	2.10	5.60	3.10	6.45	8.40	12.40	6.75	11.40	15.80		
22	3.90	2.00	2.30	1.90	5.70	3.20	4.20	8.25	11.55	9.00	10.35	12.00		
23	3.90	2.60	2.20	1.80	4.00	4.20	3.70	8.70	10.50	7.05	9.75	12.00		
24	1.40	2.70	2.00	1.70	3.20	3.10	5.00	10.35	12.20	6.60	10.80	12.40		
25	3.10	1.90	1.90	1.60	1.90	2.40	7.05	11.70	10.65	5.20	12.20	11.55		
26	1.40	1.50	0.80	1.60	2.30	3.40	8.10	10.95	10.20	5.50	14.80	10.95		
27	1.30	1.60	2.70	1.60	3.40	3.40	5.70	9.45	9.75	4.90	22.00	9.75		
28	1.40	2.30	1.00	1.40	3.30	3.10	6.00	9.00	9.30	5.20	17.40	10.35		
29	3.40	4.40	0.75	0.40	2.00	2.90	4.90	11.25	9.30	5.40		9.60		
30	1.10	2.70	0.75	2.10	1.20	3.00	4.40	10.20	11.10	5.30		7.80		
31		0.55		2.90	3.30		5.80		12.00	6.30		9.90		
<b>Total</b>	<b>88.30</b>	<b>74.00</b>	<b>65.90</b>	<b>73.10</b>	<b>103.45</b>	<b>81.80</b>	<b>122.60</b>	<b>255.85</b>	<b>422.35</b>	<b>292.20</b>	<b>253.95</b>	<b>349.95</b>	<b>2183.45</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>2.94</b>	<b>2.39</b>	<b>2.20</b>	<b>2.36</b>	<b>3.34</b>	<b>2.73</b>	<b>3.95</b>	<b>8.53</b>	<b>13.62</b>	<b>9.43</b>	<b>9.07</b>	<b>11.29</b>	<b>5.98</b>	<b>CMS</b>
<b>Max</b>	<b>5.20</b>	<b>4.70</b>	<b>3.90</b>	<b>5.50</b>	<b>6.45</b>	<b>5.40</b>	<b>8.10</b>	<b>11.70</b>	<b>38.00</b>	<b>14.80</b>	<b>22.00</b>	<b>15.80</b>	<b>38.00</b>	<b>CMS</b>
<b>Min</b>	<b>1.10</b>	<b>0.30</b>	<b>0.75</b>	<b>0.40</b>	<b>1.00</b>	<b>1.30</b>	<b>1.10</b>	<b>5.00</b>	<b>9.30</b>	<b>4.90</b>	<b>4.60</b>	<b>7.05</b>	<b>0.30</b>	<b>CMS</b>
<b>Runoff</b>	<b>7.63</b>	<b>6.39</b>	<b>5.69</b>	<b>6.32</b>	<b>8.94</b>	<b>7.07</b>	<b>10.59</b>	<b>22.11</b>	<b>36.49</b>	<b>25.25</b>	<b>21.94</b>	<b>30.24</b>	<b>188.65</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>65.40 CMS. at 16.11 m. (MSL.) at 17.00 Hours, on Dec 2, 2021</b>													
<b>Runoff Yield</b>	<b>25.67</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>				<b>280.69</b>	<b>Liters/Second/Square KM.</b>					

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)

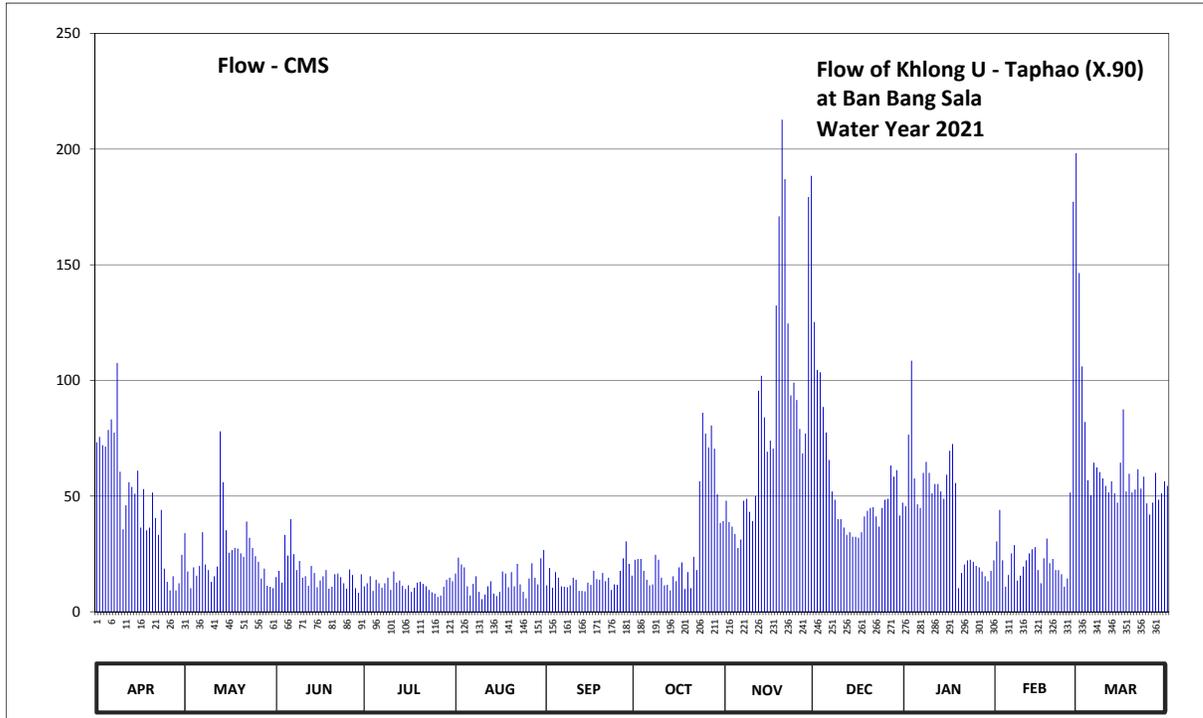
Lat 06 - 55 - 52 N Long 100 - 26 - 24 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

	<b>Ban</b>	Bang Sala	<b>Amphoe</b>	Khlong Hoi Khong	<b>Changwat</b>	Songkhla
<b>Drainage Area</b>	1,534	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On the bridge over the water.				<b>Elevation</b>	+11.201 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1971 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1971 - 1972 , 1979 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1971 - 1972 , 1979 to date					
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.07	3.30	2.70	2.55	2.75	2.57	2.95	2.85	4.47	2.79	3.21	4.82	
2	4.11	2.78	2.79	2.61	2.98	2.83	2.96	2.62	4.09	3.53	3.52	4.12	
3	4.05	2.51	2.62	2.71	2.88	2.52	2.96	2.57	4.07	4.17	2.94	3.64	
4	4.04	2.84	3.28	2.45	2.84	2.77	2.79	2.49	3.77	3.09	2.54	3.07	
5	4.16	2.72	3.01	2.66	2.55	2.69	2.66	2.34	3.55	2.81	2.73	2.91	
6	4.23	2.86	3.44	2.61	2.35	2.55	2.57	2.43	3.29	2.77	3.04	3.26	
7	4.14	3.31	3.03	2.52	2.60	2.54	2.59	2.85	2.95	3.15	3.16	3.21	
8	4.57	2.88	2.80	2.61	2.71	2.53	3.02	2.87	2.86	3.27	2.65	3.16	
9	3.85	2.80	2.93	2.69	2.43	2.57	2.95	2.73	2.65	3.15	2.72	3.09	
10	3.34	2.63	2.69	2.47	2.27	2.69	2.69	2.63	2.65	2.93	2.85	3.01	
11	3.56	2.71	2.71	2.78	2.37	2.66	2.57	2.90	2.56	3.03	2.94	2.94	
12	3.76	2.85	2.56	2.62	2.55	2.45	2.58	3.91	2.48	3.03	3.04	3.06	
13	3.72	4.15	2.86	2.65	2.64	2.45	2.46	4.04	2.51	2.95	3.10	2.93	
14	3.66	3.76	2.76	2.56	2.39	2.44	2.71	3.68	2.46	2.87	3.13	2.83	
15	3.86	3.33	2.53	2.49	2.34	2.62	2.64	3.38	2.46	3.13	2.80	3.26	
16	3.36	3.05	2.65	2.57	2.43	2.58	2.84	3.48	2.45	3.39	2.61	3.75	
17	3.70	3.09	2.71	2.43	2.78	2.79	2.91	3.41	2.51	3.45	2.97	2.95	
18	3.33	3.12	2.80	2.52	2.75	2.67	2.49	4.59	2.68	3.04	3.24	3.14	
19	3.36	3.11	2.50	2.62	2.53	2.66	2.77	5.17	2.74	2.51	2.90	2.94	
20	3.67	3.04	2.54	2.63	2.77	2.76	2.51	5.73	2.77	2.76	2.96	2.97	
21	3.45	2.99	2.74	2.60	2.55	2.64	2.99	5.40	2.78	2.88	2.80	3.19	
22	3.28	3.42	2.75	2.55	2.89	2.69	2.80	4.46	2.68	2.94	2.80	2.98	
23	3.52	3.25	2.70	2.47	2.59	2.47	3.06	3.87	2.57	2.95	2.74	3.11	
24	2.82	3.12	2.61	2.42	2.43	2.59	3.72	3.98	2.77	2.92	2.54	2.82	
25	2.63	3.00	2.50	2.39	2.29	2.58	3.54	3.83	2.86	2.86	2.68	2.70	
26	2.46	2.92	2.81	2.32	2.68	2.79	3.42	3.58	2.87	2.84	3.67	2.83	
27	2.71	2.68	2.73	2.35	2.90	2.97	3.61	3.36	3.23	2.78	5.26	3.15	
28	2.46	2.82	2.51	2.54	2.69	3.21	3.41	3.54	3.11	2.71	5.56	2.86	
29	2.61	2.56	2.41	2.66	2.59	2.89	2.92	5.29	3.18	2.64		2.93	
30	3.02	2.54	2.74	2.69	2.97	2.72	2.61	5.42	2.69	2.79		3.06	
31		2.51		2.64	3.09		2.63		2.83	2.94		3.01	
Mean	3.52	2.99	2.75	2.56	2.63	2.66	2.88	3.65	2.95	3.00	3.11	3.15	
Max	4.57	4.15	3.44	2.78	3.09	3.21	3.72	5.73	4.47	4.17	5.56	4.82	5.73
Min	2.46	2.51	2.41	2.32	2.27	2.44	2.46	2.34	2.45	2.51	2.54	2.70	2.27
Annual Max Momentary Gage Height	5.91												at 16.00 Hours , on Nov 20, 2021
Zero Gage at Bottom Elevation	0.00												River Bed -0.75 m. (MSL.)
Left Bank Elevation		9.53											m. (MSL.) ,
Right Bank Elevation		9.10											m. (MSL.) ,
								Drainage Are	1,534				Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.20	34.00	15.00	11.00	16.50	11.40	22.50	48.00	125.20	45.60	30.40	146.40	
2	75.60	17.40	17.70	12.30	23.40	18.90	22.80	38.80	104.50	76.50	44.00	106.00	
3	72.00	10.20	12.60	15.30	20.40	10.40	22.80	36.80	103.50	108.50	22.20	82.00	
4	71.40	19.20	33.20	9.00	19.20	17.10	17.70	33.60	88.50	57.60	10.80	56.80	
5	78.60	15.60	24.30	13.80	11.00	14.70	13.80	27.60	77.50	46.40	15.90	50.40	
6	83.15	19.80	40.00	12.30	7.00	11.00	11.40	31.20	65.60	44.80	25.20	64.40	
7	77.40	34.40	24.90	10.40	12.00	10.80	11.80	48.00	52.00	60.00	28.80	62.40	
8	107.52	20.40	18.00	12.30	15.30	10.60	24.60	48.80	48.40	64.80	13.50	60.40	
9	60.50	18.00	21.90	14.70	8.60	11.40	22.50	43.20	40.00	60.00	15.60	57.60	
10	35.60	12.90	14.70	9.40	5.40	14.70	14.70	39.20	40.00	51.20	19.50	54.40	
11	46.00	15.30	15.30	17.40	7.40	13.80	11.40	50.00	36.40	55.20	22.20	51.60	
12	56.00	19.50	11.20	12.60	11.00	9.00	11.60	95.50	33.20	55.20	25.20	56.40	
13	54.00	78.00	19.80	13.50	13.20	9.00	9.20	102.00	34.40	52.00	27.00	51.20	
14	51.00	56.00	16.80	11.20	7.80	8.80	15.30	84.00	32.40	48.80	27.90	47.20	
15	61.00	35.20	10.60	9.80	6.80	12.60	13.20	69.20	32.40	59.20	18.00	64.40	
16	36.40	25.50	13.50	11.40	8.60	11.60	19.20	74.00	32.00	69.60	12.30	87.50	
17	53.00	26.70	15.30	8.60	17.40	17.70	21.30	70.50	34.40	72.50	23.10	52.00	
18	35.20	27.60	18.00	10.40	16.50	14.10	9.80	132.40	41.20	55.60	31.60	59.60	
19	36.40	27.30	10.00	12.60	10.60	13.80	17.10	170.90	43.60	10.20	21.00	51.60	
20	51.50	25.20	10.80	12.90	17.10	16.80	10.20	212.70	44.80	16.80	22.80	52.80	
21	40.50	23.70	16.20	12.00	11.00	13.20	23.70	187.00	45.20	20.40	18.00	61.60	
22	33.20	39.00	16.50	11.00	20.70	14.70	18.00	124.60	41.20	22.20	18.00	53.20	
23	44.00	32.00	15.00	9.40	11.80	9.40	56.40	93.50	36.80	22.50	16.20	58.40	
24	18.60	27.60	12.30	8.40	8.60	11.80	86.00	99.00	44.80	21.60	10.80	46.80	
25	12.90	24.00	10.00	7.80	5.80	11.60	77.00	91.50	48.40	19.80	14.40	42.00	
26	9.20	21.60	18.30	6.40	14.40	17.70	71.00	79.00	48.80	19.20	51.50	47.20	
27	15.30	14.40	15.90	7.00	21.00	23.10	80.50	68.40	63.20	17.40	177.20	60.00	
28	9.20	18.60	10.20	10.80	14.70	30.40	70.50	77.00	58.40	15.30	198.20	48.40	
29	12.30	11.20	8.20	13.80	11.80	20.70	50.80	179.30	61.20	13.20		51.20	
30	24.60	10.80	16.20	14.70	23.10	15.60	38.40	188.40	41.60	17.70		56.40	
31		10.20		13.20	26.70		39.20		47.20	22.20		54.40	
Total	1435.27	771.30	502.40	355.40	424.80	426.40	934.40	2644.10	1646.80	1322.00	961.30	1894.70	13318.87 CMSDAY
Mean	47.84	24.88	16.75	11.46	13.70	14.21	30.14	88.14	53.12	42.65	34.33	61.12	36.49 CMS
Max	107.52	78.00	40.00	17.40	26.70	30.40	86.00	212.70	125.20	108.50	198.20	146.40	212.70 CMS
Min	9.20	10.20	8.20	6.40	5.40	8.80	9.20	27.60	32.00	10.20	10.80	42.00	5.40 CMS
Runoff	124.01	66.64	43.41	30.71	36.70	36.84	80.73	228.45	142.28	114.22	83.06	163.70	1150.75 MCM
Momentary Peak		230.00		CMS. at 5.91 m. (MSL.)									at 16.00 Hours , on Nov 20, 2021
Runoff Yield		23.79		Liters/Second/Square KM.									Momentary Peak Yield 149.93 Liters/Second/Square KM.

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong Bang Kaeo at Ban Khuan In No Mo , Phutthalung (X.109)

Lat 07 - 20 - 43 N Long 100 - 03 - 24 E

Location : on left bank at Ban Khuan In No Mo.

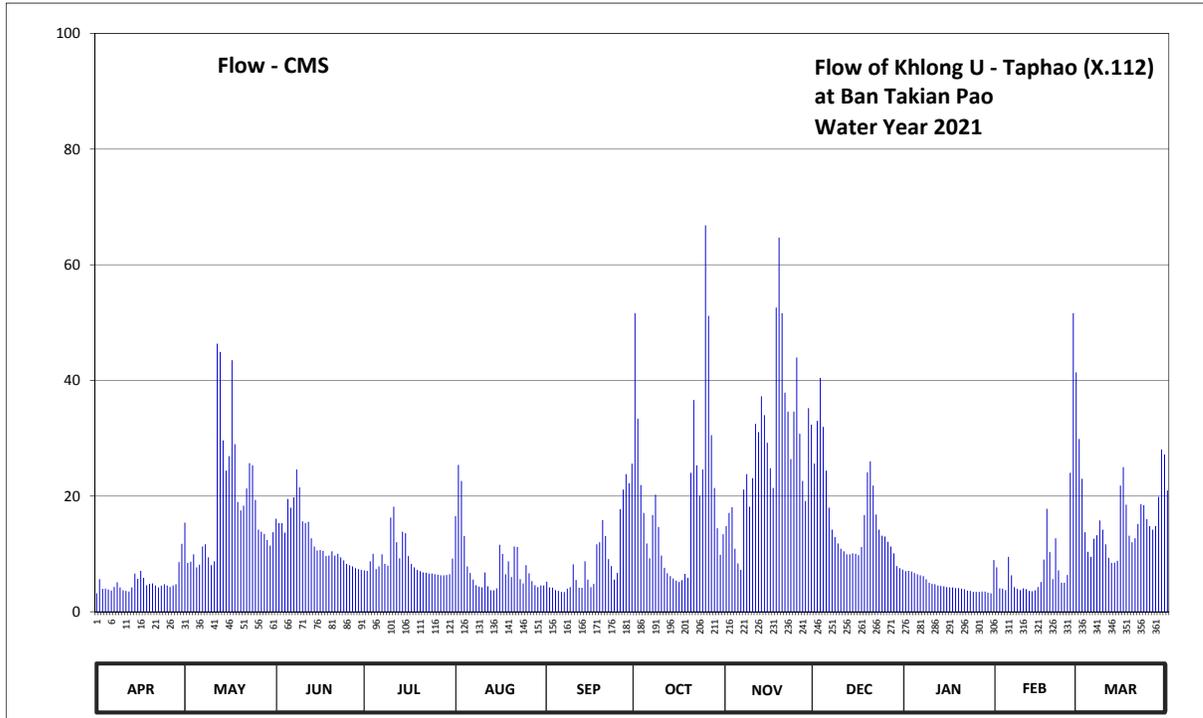
	<b>Ban</b>	<b>Khuan In No Mo</b>	<b>Amphoe</b>	<b>Ta Mot</b>	<b>Changwat</b>	<b>Phatthalung</b>
<b>Drainage Area</b>	121	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the Meteorological Station.				<b>Elevation</b>	+32.764 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1979 to date.					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1979 to date.					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1979 to date.					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 30.800 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.29	26.39	26.28	26.26	27.57	26.13	26.18	26.18	26.82	27.83	26.24	27.93	
2	26.29	26.40	26.28	26.25	26.28	26.13	26.18	26.19	30.68	27.90	26.25	27.69	
3	26.29	26.30	26.28	26.24	26.25	26.12	26.18	26.18	28.85	28.62	26.24	27.49	
4	26.29	26.30	26.28	26.23	26.20	26.11	26.17	26.19	27.60	27.80	26.24	27.25	
5	26.29	26.30	26.28	26.22	26.20	26.10	26.17	26.25	27.02	27.72	26.24	26.93	
6	26.29	26.30	26.28	26.21	26.18	26.10	26.18	26.18	26.83	27.22	26.24	26.86	
7	26.54	26.41	26.28	26.20	26.18	26.09	26.24	27.01	26.71	26.93	26.24	26.98	
8	26.31	26.31	26.28	26.26	26.17	26.09	26.21	26.47	26.63	26.65	26.24	26.85	
9	26.29	26.52	26.28	26.39	26.17	26.25	26.19	26.42	26.59	26.55	26.23	26.77	
10	26.29	26.30	26.28	26.40	26.17	26.26	26.18	26.78	26.53	26.51	26.23	26.72	
11	26.29	26.30	26.30	26.39	26.17	26.20	26.18	26.71	26.47	26.50	26.23	26.68	
12	26.29	26.30	26.30	26.38	26.17	26.20	26.19	27.90	26.44	26.50	26.23	26.60	
13	26.29	26.36	26.29	26.37	26.16	26.18	26.17	26.85	26.43	26.46	26.22	26.60	
14	26.29	26.30	26.29	26.36	26.16	26.18	26.16	26.64	26.42	26.45	26.22	26.79	
15	26.29	26.30	26.29	26.35	26.16	26.18	26.15	26.60	26.42	26.44	26.51	27.01	
16	26.29	26.30	26.28	26.34	26.27	26.16	26.15	26.60	26.42	26.42	26.69	26.86	
17	26.29	26.62	26.26	26.33	26.33	26.16	26.15	26.92	26.43	26.40	26.36	26.70	
18	26.64	26.34	26.26	26.32	26.26	26.16	26.21	27.18	26.54	26.38	26.67	26.67	
19	26.44	26.28	26.26	26.31	26.22	26.15	26.20	27.18	26.50	26.36	26.69	26.64	
20	26.30	26.31	26.26	26.30	26.22	26.15	26.77	26.67	26.48	26.34	26.37	26.60	
21	26.30	26.31	26.26	26.29	26.21	26.15	26.17	26.65	26.46	26.32	26.70	26.70	
22	26.30	26.30	26.26	26.28	26.21	26.23	26.15	26.60	26.45	26.30	26.50	26.66	
23	26.30	26.30	26.26	26.27	26.21	26.20	26.14	26.65	26.43	26.30	26.43	26.63	
24	26.36	26.30	26.26	26.26	26.19	26.17	26.14	26.98	26.63	26.28	26.40	26.59	
25	26.30	26.30	26.26	26.25	26.19	26.15	26.30	27.04	26.66	26.27	27.83	26.59	
26	26.30	26.33	26.26	26.24	26.19	26.15	26.16	26.91	26.54	26.24	29.63	26.59	
27	26.29	26.41	26.26	26.22	26.18	26.15	26.10	26.98	26.49	26.22	31.25	26.54	
28	26.29	26.33	26.26	26.21	26.18	26.15	26.10	27.01	26.45	26.22	29.20	26.59	
29	26.29	26.30	26.26	26.20	26.16	26.55	26.10	27.37	26.39	26.22		26.58	
30	26.28	26.28	26.26	26.19	26.16	26.19	26.24	26.98	27.88	26.21		26.53	
31		26.27		26.18	26.15		26.20		28.81	26.21		26.53	
Mean	26.32	26.33	26.27	26.28	26.24	26.17	26.19	26.74	26.90	26.67	26.80	26.81	
Max	26.64	26.62	26.30	26.40	27.57	26.55	26.77	27.90	30.68	28.62	31.25	27.93	31.25
Min	26.28	26.27	26.26	26.18	26.15	26.09	26.10	26.18	26.39	26.21	26.22	26.53	26.09
Annual Max Momentary Gage Height	31.70		m. (MSL.) ,										at 06.00 Hours , on Feb 27, 2022
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				25.68						m. (MSL.)
Left Bank Elevation		30.79		m. (MSL.) ,									
Right Bank Elevation		33.13		m. (MSL.) ,		Drainage Are	121						Square Kilometers







Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	15.40	16.09	7.15	16.54	5.20	51.64	14.80	25.60	7.00	7.68	29.87	
2	5.65	8.43	15.33	7.08	25.40	4.20	33.40	17.08	33.00	7.08	4.05	23.00	
3	3.95	8.65	15.33	8.73	22.60	4.15	21.90	18.07	40.44	6.95	4.00	13.75	
4	4.00	9.93	13.68	10.00	13.08	3.75	17.08	10.90	31.95	6.70	3.75	10.38	
5	3.85	7.68	19.51	7.38	7.83	3.60	11.80	8.35	24.40	6.45	9.48	9.48	
6	3.65	8.13	17.98	7.83	6.70	3.45	9.25	7.23	17.98	6.30	6.30	12.63	
7	4.30	11.28	19.78	9.93	5.55	3.40	16.72	21.13	14.20	6.15	4.25	13.23	
8	5.10	11.65	24.60	8.28	4.60	4.00	20.23	23.80	12.93	5.60	3.95	15.78	
9	4.20	9.40	21.50	7.98	4.35	4.25	14.65	18.16	11.80	5.00	3.75	14.20	
10	3.70	8.05	15.63	16.27	4.20	8.20	9.70	23.10	10.90	4.80	4.05	11.65	
11	3.60	8.73	15.33	18.16	6.80	5.50	7.60	32.47	10.45	4.75	3.90	9.33	
12	3.50	46.36	15.55	12.03	4.40	4.15	6.65	31.04	9.93	4.55	3.60	8.43	
13	4.20	44.92	12.70	9.25	3.70	4.15	6.15	37.24	9.93	4.45	3.55	8.50	
14	6.60	29.61	11.28	13.83	3.70	8.73	5.75	34.00	10.08	4.40	3.70	8.80	
15	5.70	24.40	10.60	13.60	4.05	5.55	5.40	29.22	10.00	4.25	4.25	21.80	
16	7.08	26.90	10.68	9.63	11.58	4.25	5.15	24.80	9.78	4.20	5.15	25.00	
17	5.85	43.48	10.53	8.28	10.00	4.80	5.45	21.40	11.20	4.20	9.03	18.52	
18	4.60	28.96	9.63	7.68	6.50	11.65	6.55	52.60	16.72	4.10	17.80	13.15	
19	4.80	18.97	9.70	7.23	8.73	12.03	5.85	64.70	24.10	4.10	10.30	12.03	
20	4.90	17.53	10.45	7.00	6.00	15.85	24.00	51.64	26.00	4.00	5.65	12.70	
21	4.55	18.34	9.70	6.80	11.28	13.08	36.60	37.88	21.80	3.90	12.70	15.18	
22	4.20	21.31	10.00	6.75	11.20	9.10	25.30	34.60	16.81	3.65	7.15	18.61	
23	4.50	25.70	9.40	6.60	5.65	7.90	20.05	26.40	14.20	3.60	5.00	18.43	
24	4.75	25.30	8.88	6.60	4.90	5.55	24.60	34.60	13.15	3.45	5.00	16.00	
25	4.55	19.33	8.28	6.50	8.05	6.70	66.80	43.96	13.00	3.45	6.35	14.80	
26	4.30	14.20	8.05	6.40	6.65	17.71	51.16	30.78	12.10	3.45	24.00	14.20	
27	4.55	13.83	7.83	6.30	5.30	21.13	30.52	22.60	11.28	3.50	51.64	14.80	
28	4.75	13.45	7.53	6.30	4.60	23.80	21.40	19.15	10.08	3.50	41.40	19.87	
29	8.58	12.40	7.38	6.35	4.25	22.20	14.43	35.20	7.90	3.30		28.05	
30	11.73	11.43	7.23	6.50	4.55	25.60	9.85	32.34	7.53	3.20		27.20	
31		13.75		9.18	4.55		13.38		7.30	8.95		20.95	
<b>Total</b>	148.89	577.50	380.16	271.60	247.29	273.63	599.01	859.24	496.54	148.98	271.43	500.32	4774.59 CMSDAY
<b>Mean</b>	4.96	18.63	12.67	8.76	7.98	9.12	19.32	28.64	16.02	4.81	9.69	16.14	13.08 CMS
<b>Max</b>	11.73	46.36	24.60	18.16	25.40	25.60	66.80	64.70	40.44	8.95	51.64	29.87	66.80 CMS
<b>Min</b>	3.20	7.68	7.23	6.30	3.70	3.40	5.15	7.23	7.30	3.20	3.55	8.43	3.20 CMS
<b>Runoff</b>	12.86	49.90	32.85	23.47	21.37	23.64	51.75	74.24	42.90	12.87	23.45	43.23	412.52 MCM
<b>Momentary Peak</b>	74.50	CMS. at 25.35 m. (MSL.) at 16.00 Hours , on Oct 25, 2021											
<b>Runoff Yield</b>	24.40	Liters/Second/Square KM.		Momentary Peak Yield		138.99	Liters/Second/Square KM.						

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong La Pang at Ban Thung Prap , Songkhla (X.113)

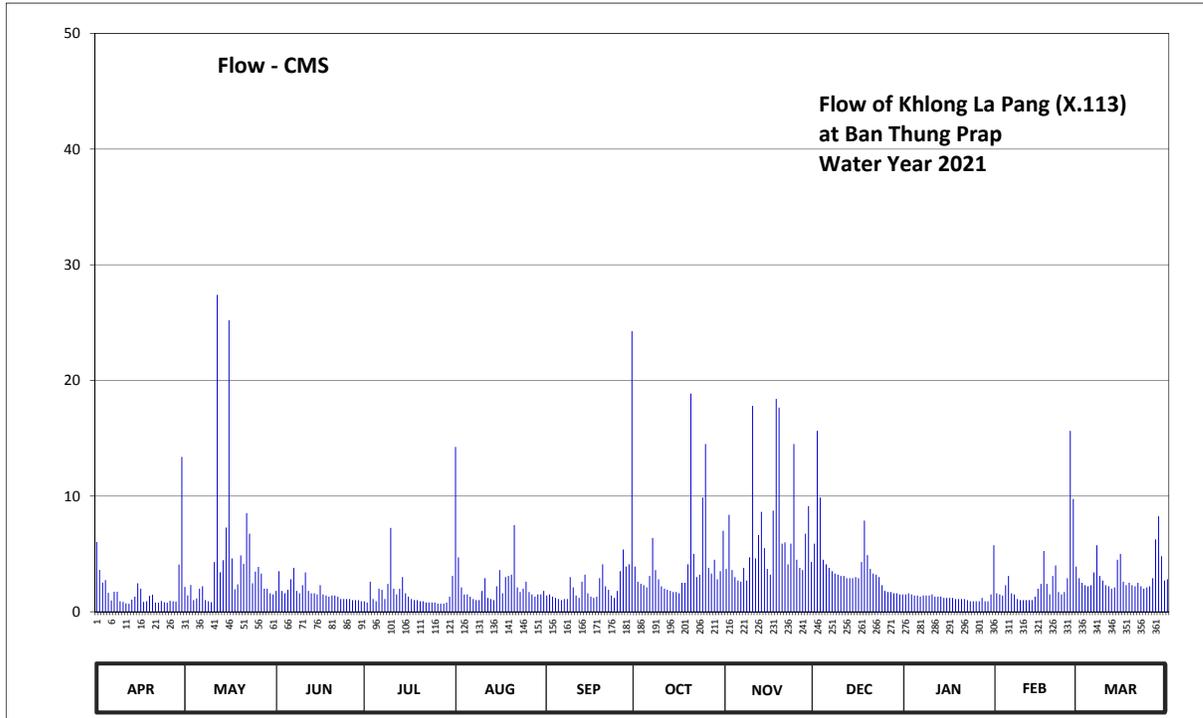
Lat 06 - 38 - 06 N Long 100 - 23 - 36 E

Location : on right bank at Ban Thung Prap.

	<b>Ban Thung Prap</b>	<b>Amphoe Sadao</b>	<b>Changwat Songkhla</b>
<b>Drainage Area</b>	117 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 15 meters from the gage observer's house.	<b>Elevation</b>	+37.552 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 34.760 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

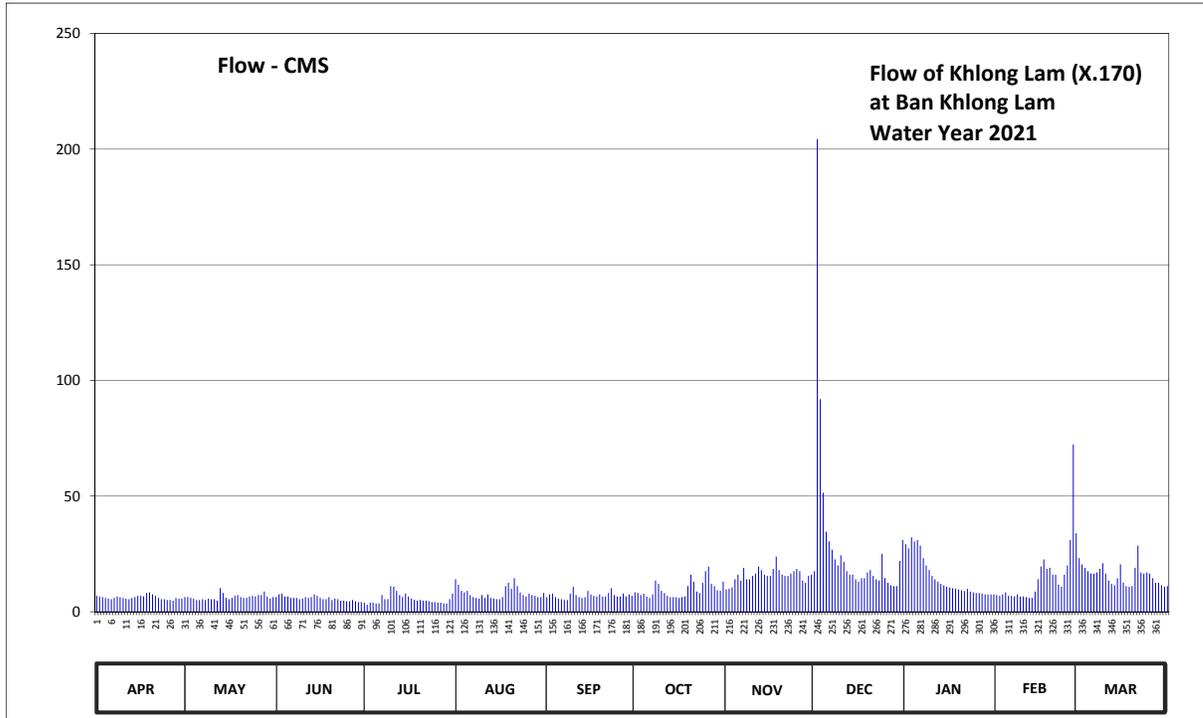
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.06	32.32	32.88	32.79	33.94	32.84	33.09	33.07	33.27	32.85	32.86	32.99	
2	32.60	32.18	33.05	32.78	33.17	32.85	32.96	33.47	34.05	32.86	32.85	32.95	
3	32.39	32.35	32.88	32.96	32.91	32.83	32.94	33.06	33.59	32.85	32.84	32.93	
4	32.43	32.10	32.86	32.81	32.85	32.82	32.93	33.00	33.15	32.84	32.93	32.92	
5	32.22	32.13	32.89	32.79	32.85	32.81	32.91	32.97	33.11	32.84	33.01	32.93	
6	32.09	32.29	32.98	32.90	32.83	32.80	33.01	32.96	33.08	32.83	32.86	33.04	
7	32.24	32.33	33.08	32.89	32.81	32.81	33.31	33.08	33.05	32.84	32.85	33.26	
8	32.24	32.10	32.88	32.81	32.80	32.81	33.06	32.97	33.03	32.84	32.81	33.01	
9	32.06	32.06	32.86	32.94	32.80	33.00	32.98	33.17	33.02	32.84	32.80	32.97	
10	32.04	32.03	32.93	33.38	32.88	32.91	32.92	34.22	33.01	32.85	32.80	32.93	
11	31.99	32.73	33.04	32.90	32.99	32.84	32.90	33.16	33.01	32.83	32.80	32.92	
12	31.97	34.82	32.88	32.85	32.82	32.82	32.89	33.33	32.99	32.83	32.80	32.90	
13	32.11	32.56	32.86	32.90	32.81	32.96	32.88	33.49	32.99	32.83	32.80	32.91	
14	32.16	32.76	32.86	33.00	32.80	33.02	32.87	33.24	32.99	32.82	32.83	33.15	
15	32.38	33.27	32.85	32.86	32.92	32.86	32.87	33.07	33.00	32.82	32.90	33.20	
16	32.29	34.71	32.93	32.83	33.06	32.83	32.86	33.02	32.99	32.82	32.94	32.96	
17	32.04	32.79	32.85	32.81	32.86	32.82	32.95	33.50	33.13	32.82	33.22	32.93	
18	32.06	32.28	32.84	32.80	33.00	32.83	32.95	34.26	33.43	32.81	32.94	32.95	
19	32.17	32.36	32.83	32.80	33.01	32.99	33.11	34.21	33.19	32.81	32.85	32.93	
20	32.19	32.84	32.84	32.79	33.02	33.11	34.29	33.27	33.07	32.81	33.01	32.92	
21	32.02	32.70	32.84	32.79	33.40	32.92	33.20	33.28	33.03	32.81	33.10	32.95	
22	32.01	33.43	32.83	32.78	32.91	32.89	33.00	33.11	33.02	32.80	32.87	32.92	
23	32.07	33.20	32.81	32.78	32.87	32.84	33.02	33.27	33.00	32.79	32.85	32.90	
24	32.03	32.38	32.81	32.78	32.90	32.82	33.59	33.96	32.93	32.79	32.87	32.91	
25	32.01	32.57	32.81	32.78	32.96	32.88	33.96	33.15	32.88	32.79	32.99	32.92	
26	32.08	32.65	32.81	32.77	32.87	33.05	33.08	33.08	32.87	32.79	34.05	32.99	
27	32.06	32.54	32.80	32.77	32.85	33.23	33.03	33.06	32.87	32.82	33.58	33.30	
28	32.05	32.90	32.80	32.77	32.83	33.09	33.15	33.34	32.86	32.79	33.09	33.46	
29	32.69	32.90	32.80	32.78	32.85	33.11	32.98	33.53	32.86	32.79		33.18	
30	33.87	32.86	32.79	32.83	32.85	34.65	33.05	33.13	32.85	32.85		32.97	
31		32.85		33.01	32.88		33.36		32.85	33.26		32.98	
Mean	32.25	32.71	32.87	32.85	32.95	32.97	33.10	33.31	33.07	32.84	32.97	33.01	
Max	33.87	34.82	33.08	33.38	33.94	34.65	34.29	34.26	34.05	33.26	34.05	33.46	34.82
Min	31.97	32.03	32.79	32.77	32.80	32.80	32.86	32.96	32.85	32.79	32.80	32.90	31.97
Annual Max Momentary Gage Height	36.42		m. (MSL.) ,				at 02.00 Hours ,						on May 12, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	31.33		m. (MSL.)				
Left Bank Elevation		34.75		m. (MSL.) ,									
Right Bank Elevation		36.48		m. (MSL.) ,		Drainage Are	117		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.02	2.15	1.80	0.90	14.25	1.40	3.90	3.70	5.88	1.50	1.60	2.90	
2	3.61	1.42	3.50	0.80	4.70	1.50	2.60	8.38	15.63	1.60	1.50	2.50	
3	2.52	2.31	1.80	2.60	2.10	1.30	2.40	3.60	9.88	1.50	1.40	2.30	
4	2.73	1.00	1.60	1.10	1.50	1.20	2.30	3.00	4.50	1.40	2.30	2.20	
5	1.63	1.16	1.90	0.90	1.50	1.10	2.10	2.70	4.10	1.40	3.10	2.30	
6	0.98	1.99	2.80	2.00	1.30	1.00	3.10	2.60	3.80	1.30	1.60	3.40	
7	1.73	2.20	3.80	1.90	1.10	1.10	6.38	3.80	3.50	1.40	1.50	5.75	
8	1.73	1.00	1.80	1.10	1.00	1.10	3.60	2.70	3.30	1.40	1.10	3.10	
9	0.90	0.90	1.60	2.40	1.00	3.00	2.80	4.70	3.20	1.40	1.00	2.70	
10	0.85	0.83	2.30	7.25	1.80	2.10	2.20	17.80	3.10	1.50	1.00	2.30	
11	0.73	4.29	3.40	2.00	2.90	1.40	2.00	4.60	3.10	1.30	1.00	2.20	
12	0.68	27.40	1.80	1.50	1.20	1.20	1.90	6.63	2.90	1.30	1.00	2.00	
13	1.05	3.41	1.60	2.00	1.10	2.60	1.80	8.63	2.90	1.30	1.00	2.10	
14	1.31	4.45	1.60	3.00	1.00	3.20	1.70	5.50	2.90	1.20	1.30	4.50	
15	2.46	7.28	1.50	1.60	2.20	1.60	1.70	3.70	3.00	1.20	2.00	5.00	
16	1.99	25.20	2.30	1.30	3.60	1.30	1.60	3.20	2.90	1.20	2.40	2.60	
17	0.85	4.61	1.50	1.10	1.60	1.20	2.50	8.75	4.30	1.20	5.25	2.30	
18	0.90	1.94	1.40	1.00	3.00	1.30	2.50	18.40	7.88	1.10	2.40	2.50	
19	1.37	2.36	1.30	1.00	3.10	2.90	4.10	17.65	4.90	1.10	1.50	2.30	
20	1.47	4.87	1.40	0.90	3.20	4.10	18.85	5.88	3.70	1.10	3.10	2.20	
21	0.80	4.14	1.40	0.90	7.50	2.20	5.00	6.00	3.30	1.10	4.00	2.50	
22	0.78	8.52	1.30	0.80	2.10	1.90	3.00	4.10	3.20	1.00	1.70	2.20	
23	0.93	6.75	1.10	0.80	1.70	1.40	3.20	5.88	3.00	0.90	1.50	2.00	
24	0.83	2.46	1.10	0.80	2.00	1.20	9.88	14.50	2.30	0.90	1.70	2.10	
25	0.78	3.46	1.10	0.80	2.60	1.80	14.50	4.50	1.80	0.90	2.90	2.20	
26	0.95	3.88	1.10	0.70	1.70	3.50	3.80	3.80	1.70	0.90	15.63	2.90	
27	0.90	3.30	1.00	0.70	1.50	5.38	3.30	3.60	1.70	1.20	9.75	6.25	
28	0.88	2.00	1.00	0.70	1.30	3.90	4.50	6.75	1.60	0.90	3.90	8.25	
29	4.08	2.00	1.00	0.80	1.50	4.10	2.80	9.13	1.60	0.90		4.80	
30	13.38	1.60	0.90	1.30	1.50	24.25	3.50	4.30	1.50	1.50		2.70	
31		1.50		3.10	1.80		7.00		1.50	5.75		2.80	
Total	59.82	140.38	51.70	47.75	78.35	85.23	130.51	198.48	118.57	42.35	78.13	95.85	1127.12 CMSDAY
Mean	1.99	4.53	1.72	1.54	2.53	2.84	4.21	6.62	3.82	1.37	2.79	3.09	3.09 CMS
Max	13.38	27.40	3.80	7.25	14.25	24.25	18.85	18.40	15.63	5.75	15.63	8.25	27.40 CMS
Min	0.68	0.83	0.90	0.70	1.00	1.00	1.60	2.60	1.50	0.90	1.00	2.00	0.68 CMS
Runoff	5.17	12.13	4.47	4.13	6.77	7.36	11.28	17.15	10.24	3.66	6.75	8.28	97.38 MCM
Momentary Peak	92.20 CMS. at 36.42 m. (MSL.) at 02.00 Hours , on May 12, 2021												
Runoff Yield	26.39 Liters/Second/Square KM.			Momentary Peak Yield			788.03 Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.90	6.30	6.30	3.90	14.00	6.30	8.40	9.60	17.50	29.20	7.20	23.20	
2	6.60	6.30	7.50	3.00	11.70	7.50	8.10	9.90	204.30	27.40	6.90	20.50	
3	6.30	6.00	7.80	3.90	9.00	7.80	7.20	10.50	91.90	32.20	7.50	19.00	
4	6.00	5.70	6.60	3.90	8.40	6.30	7.80	14.00	51.40	30.40	8.40	17.50	
5	5.70	5.10	6.60	3.60	9.00	5.70	6.60	16.00	34.60	31.00	6.90	16.50	
6	5.40	5.10	6.00	3.60	7.20	5.40	6.00	13.50	30.40	28.60	6.90	16.50	
7	6.00	5.40	6.00	7.20	6.30	5.10	7.50	19.00	26.80	23.20	6.60	17.00	
8	6.60	5.10	6.00	5.40	6.00	5.10	13.50	14.00	22.60	20.00	7.50	18.50	
9	6.30	5.70	5.40	5.40	5.70	7.80	12.00	14.00	20.00	18.00	6.60	21.00	
10	6.00	5.40	5.70	11.10	7.20	10.80	9.00	15.50	24.40	15.50	6.60	16.50	
11	5.70	5.40	6.30	10.80	6.00	7.20	8.10	16.50	21.50	14.00	6.30	13.50	
12	5.40	4.80	6.00	9.00	7.50	6.30	6.90	19.50	17.50	13.00	6.00	12.00	
13	6.00	10.20	6.30	7.20	6.00	6.00	6.30	18.00	16.00	12.00	6.00	11.40	
14	6.30	8.10	7.50	6.30	5.70	6.30	6.30	16.00	16.00	11.40	8.70	14.50	
15	6.90	6.00	6.90	7.80	5.40	9.00	6.30	15.50	14.00	10.80	14.00	20.50	
16	6.90	5.40	6.00	6.60	5.40	7.50	6.00	15.50	13.00	10.50	19.50	12.50	
17	6.60	6.00	5.40	5.70	6.30	6.90	6.30	18.50	14.50	10.20	22.60	11.10	
18	8.10	6.90	5.40	5.10	11.10	6.60	6.60	23.80	14.50	9.90	18.50	10.80	
19	8.40	7.20	6.30	4.80	12.50	7.50	11.10	18.00	17.00	9.60	19.00	11.10	
20	7.50	6.30	5.10	5.10	9.90	6.60	16.00	16.00	18.00	9.30	16.00	19.00	
21	6.90	6.00	5.70	4.80	14.50	6.60	13.00	15.50	15.50	9.00	16.00	28.60	
22	6.00	6.00	5.40	4.80	11.10	8.10	8.70	15.50	14.00	9.90	11.70	17.00	
23	5.40	6.60	4.80	4.50	8.40	10.20	8.10	16.50	13.50	8.70	10.80	16.50	
24	5.40	6.90	4.80	4.20	7.20	7.20	12.50	17.50	25.00	8.40	16.00	17.00	
25	5.10	6.60	4.50	4.20	6.60	6.60	17.50	18.50	14.50	8.10	20.00	16.50	
26	5.10	7.20	4.50	3.90	7.80	6.60	19.50	17.50	12.50	8.10	31.00	14.50	
27	4.80	7.20	5.10	3.90	7.20	7.80	12.00	13.50	11.40	7.80	72.30	12.50	
28	6.00	8.70	4.50	3.60	6.90	6.60	11.10	12.50	11.10	7.50	34.00	12.50	
29	5.70	6.60	4.20	3.60	6.30	7.50	9.30	15.50	11.10	7.50		11.40	
30	5.70	5.70	4.20	5.40	6.30	6.90	9.00	16.00	22.00	7.50		10.80	
31		6.30		7.80	8.10		13.00		31.00	7.50		11.10	
<b>Total</b>	<b>185.70</b>	<b>196.20</b>	<b>172.80</b>	<b>170.10</b>	<b>250.70</b>	<b>211.80</b>	<b>299.70</b>	<b>471.80</b>	<b>867.50</b>	<b>456.20</b>	<b>419.50</b>	<b>491.00</b>	<b>4193.00</b> CMSDAY
<b>Mean</b>	<b>6.19</b>	<b>6.33</b>	<b>5.76</b>	<b>5.49</b>	<b>8.09</b>	<b>7.06</b>	<b>9.67</b>	<b>15.73</b>	<b>27.98</b>	<b>14.72</b>	<b>14.98</b>	<b>15.84</b>	<b>11.49</b> CMS
<b>Max</b>	<b>8.40</b>	<b>10.20</b>	<b>7.80</b>	<b>11.10</b>	<b>14.50</b>	<b>10.80</b>	<b>19.50</b>	<b>23.80</b>	<b>204.30</b>	<b>32.20</b>	<b>72.30</b>	<b>28.60</b>	<b>204.30</b> CMS
<b>Min</b>	<b>4.80</b>	<b>4.80</b>	<b>4.20</b>	<b>3.00</b>	<b>5.40</b>	<b>5.10</b>	<b>6.00</b>	<b>9.60</b>	<b>11.10</b>	<b>7.50</b>	<b>6.00</b>	<b>10.80</b>	<b>3.00</b> CMS
<b>Runoff</b>	<b>16.04</b>	<b>16.95</b>	<b>14.93</b>	<b>14.70</b>	<b>21.66</b>	<b>18.30</b>	<b>25.89</b>	<b>40.76</b>	<b>74.95</b>	<b>39.42</b>	<b>36.24</b>	<b>42.42</b>	<b>362.28</b> MCM
<b>Momentary Peak</b>	<b>435.80 CMS. at 25.67 m. (MSL.) at 11.00 Hours , on Dec 2, 2021</b>												
<b>Runoff Yield</b>	<b>54.96 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 2085.17 Liters/Second/Square KM.</b>									

## WATER YEAR : 2021

## THALE SAP SONGKHLA

Khlong U - Taphao at Ban Muang Kong , Songkhla (X.173A)

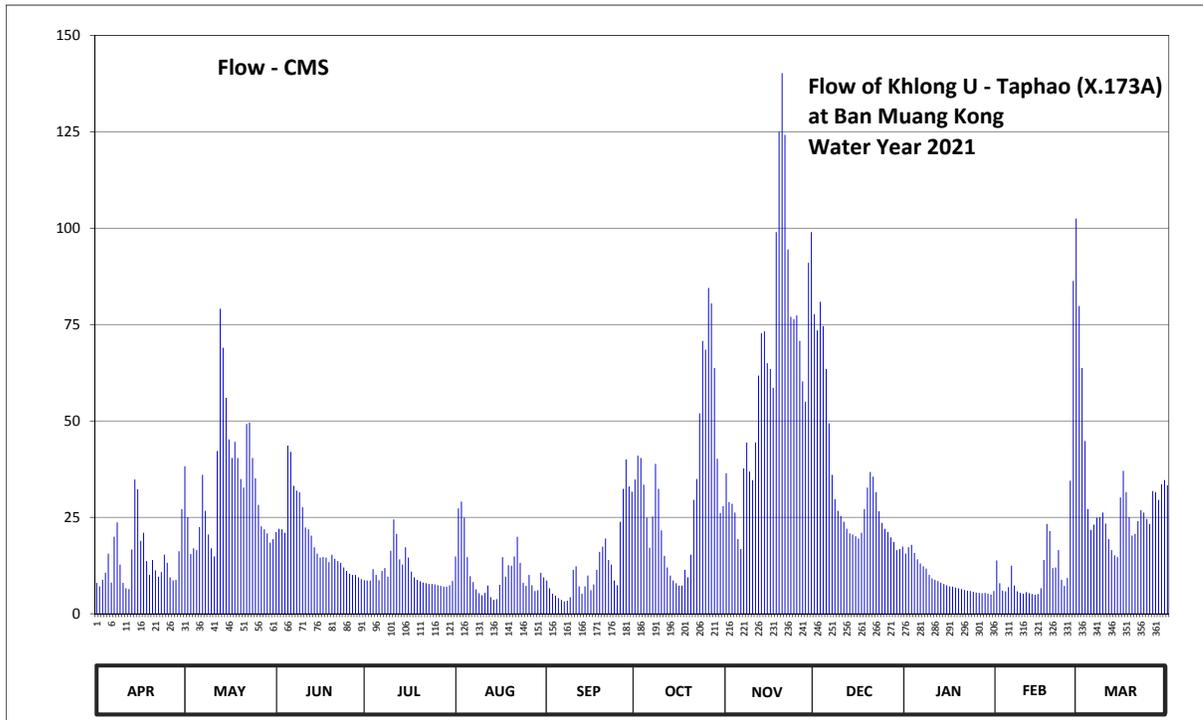
Lat 06 - 49 - 24 N Long 100 - 26 - 18 E

Location : on right bank at the bridge on Hat Yai - Sadao Highway.

	Ban Muang Kong	Amphoe Sadao	Changwat Songkhla
<b>Drainage Area</b>	997 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Beside the telemeter fort building.	<b>Elevation</b>	+16.125 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 14.120 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.10	12.15	11.01	10.17	10.59	10.16	11.92	12.03	13.92	10.64	10.52	13.98	
2	10.01	11.27	11.07	10.16	11.42	9.96	12.30	11.53	13.78	10.75	10.09	13.39	
3	10.18	10.63	11.06	10.16	11.54	9.82	12.27	11.50	14.01	10.79	9.90	12.49	
4	10.31	10.73	11.00	10.37	11.26	9.77	11.83	11.35	13.82	10.65	9.88	11.41	
5	10.64	10.70	12.43	10.27	10.58	9.71	11.26	10.89	13.38	10.54	9.99	11.05	
6	10.11	11.10	12.35	10.17	10.25	9.66	10.74	10.72	12.72	10.47	10.43	11.14	
7	10.93	12.00	11.81	10.34	10.12	9.62	11.28	12.11	12.00	10.42	10.03	11.26	
8	11.18	11.38	11.73	10.39	9.93	9.64	12.19	12.47	11.58	10.38	9.88	11.27	
9	10.45	10.97	11.70	10.24	9.83	9.73	11.76	12.06	11.38	10.27	9.84	11.35	
10	10.10	10.73	11.44	10.69	9.78	10.36	11.04	11.91	11.29	10.21	9.82	11.16	
11	9.96	10.59	11.09	11.23	9.84	10.42	10.60	12.47	11.19	10.18	9.86	10.89	
12	9.94	12.36	11.06	10.98	10.03	10.01	10.40	13.31	11.07	10.15	9.83	10.70	
13	10.71	13.96	10.95	10.54	9.73	9.82	10.26	13.75	10.99	10.11	9.81	10.61	
14	11.92	13.60	10.75	10.45	9.66	10.01	10.16	13.77	10.97	10.07	9.79	10.58	
15	11.75	13.05	10.64	10.75	10.68	10.26	10.09	13.44	10.94	10.04	9.81	11.61	
16	10.86	12.51	10.57	10.57	10.05	9.91	10.03	13.38	10.90	10.01	9.96	12.07	
17	11.00	12.27	10.58	10.33	10.58	10.06	10.03	13.18	11.00	10.00	10.53	11.70	
18	10.51	12.48	10.57	10.23	10.24	10.36	10.36	14.40	11.41	9.98	11.15	11.27	
19	10.27	12.27	10.49	10.18	10.44	10.67	10.23	14.75	11.78	9.96	11.03	10.95	
20	10.53	11.93	10.62	10.14	10.43	10.76	10.62	14.94	12.05	9.94	10.39	10.98	
21	10.35	11.78	10.55	10.11	10.59	10.90	11.57	14.74	11.97	9.92	10.40	11.20	
22	10.24	12.71	10.51	10.09	10.93	10.53	11.93	14.31	11.70	9.90	10.70	11.39	
23	10.32	12.73	10.48	10.07	10.48	10.45	12.85	13.90	11.37	9.89	10.18	11.35	
24	10.62	12.27	10.40	10.07	10.10	10.16	13.67	13.88	11.17	9.87	10.02	11.24	
25	10.48	11.94	10.34	10.06	10.02	10.04	13.58	13.91	11.07	9.85	10.22	11.15	
26	10.23	11.48	10.29	10.04	10.27	11.19	14.10	13.67	11.01	9.84	11.90	11.72	
27	10.16	11.11	10.27	10.02	10.04	11.76	14.00	13.25	10.92	9.83	14.14	11.70	
28	10.18	11.06	10.27	10.00	9.89	12.25	13.39	13.00	10.84	9.84	14.45	11.57	
29	10.68	10.99	10.23	10.00	9.91	11.80	12.26	14.24	10.70	9.82		11.84	
30	11.41	10.83	10.20	10.04	10.31	11.71	11.34	14.40	10.72	9.80		11.91	
31		10.89		10.15	10.23		11.46		10.76	9.89		11.82	
Mean	10.54	11.76	10.88	10.29	10.28	10.38	11.60	13.11	11.69	10.13	10.52	11.51	
Max	11.92	13.96	12.43	11.23	11.54	12.25	14.10	14.94	14.01	10.79	14.45	13.98	14.94
Min	9.94	10.59	10.20	10.00	9.66	9.62	10.03	10.72	10.70	9.80	9.79	10.58	9.62
Annual Max Momentary Gage Height	14.97		m. (MSL.) ,				at 01.00 Hours ,						on Nov 20, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	8.55	m. (MSL.)					
Left Bank Elevation		14.11	m. (MSL.) ,										
Right Bank Elevation		16.13	m. (MSL.) ,			Drainage Are	997	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.00	38.25	21.15	8.70	14.85	8.60	34.80	36.45	77.70	15.60	13.80	79.80		
2	7.10	25.05	22.05	8.60	27.30	6.60	41.00	28.95	73.50	17.25	7.90	63.75		
3	8.80	15.45	21.90	8.60	29.10	5.20	40.40	28.50	80.90	17.85	6.00	44.80		
4	10.65	16.95	21.00	11.55	24.90	4.70	33.45	26.25	74.60	15.75	5.80	27.15		
5	15.60	16.50	43.60	10.05	14.70	4.10	24.90	19.35	63.50	14.10	6.90	21.75		
6	8.10	22.50	42.00	8.70	9.75	3.60	17.10	16.80	49.40	13.05	12.45	23.10		
7	19.95	36.00	33.15	11.10	8.20	3.20	25.20	37.65	36.00	12.30	7.30	24.90		
8	23.70	26.70	31.95	11.85	6.30	3.40	38.85	44.40	29.70	11.70	5.80	25.05		
9	12.75	20.55	31.50	9.60	5.30	4.30	32.40	36.90	26.70	10.05	5.40	26.25		
10	8.00	16.95	27.60	16.35	4.80	11.40	21.60	34.65	25.35	9.15	5.20	23.40		
11	6.60	14.85	22.35	24.45	5.40	12.30	15.00	44.40	23.85	8.80	5.60	19.35		
12	6.40	42.20	21.90	20.70	7.30	7.10	12.00	61.75	22.05	8.50	5.30	16.50		
13	16.65	79.10	20.25	14.10	4.30	5.20	9.90	72.75	20.85	8.10	5.10	15.15		
14	34.80	69.00	17.25	12.75	3.60	7.10	8.60	73.25	20.55	7.70	4.90	14.70		
15	32.25	56.00	15.60	17.25	3.80	9.90	7.90	65.00	20.10	7.40	5.10	30.15		
16	18.90	45.20	14.55	14.55	7.50	6.10	7.30	63.50	19.50	7.10	6.60	37.05		
17	21.00	40.40	14.70	10.95	14.70	7.60	7.30	58.60	21.00	7.00	13.95	31.50		
18	13.65	44.60	14.55	9.45	9.60	11.40	11.40	99.00	27.15	6.80	23.25	25.05		
19	10.05	40.40	13.35	8.80	12.60	16.05	9.45	125.00	32.70	6.60	21.45	20.25		
20	13.95	34.95	15.30	8.40	12.45	17.40	15.30	140.20	36.75	6.40	11.85	20.70		
21	11.25	32.70	14.25	8.10	14.85	19.50	29.55	124.20	35.55	6.20	12.00	24.00		
22	9.60	49.20	13.65	7.90	19.95	13.95	34.95	94.50	31.50	6.00	16.50	26.85		
23	10.80	49.60	13.20	7.70	13.20	12.75	52.00	77.00	26.55	5.90	8.80	26.25		
24	15.30	40.40	12.00	7.70	8.00	8.60	70.75	76.40	23.55	5.70	7.20	24.60		
25	13.20	35.10	11.10	7.60	7.20	7.40	68.50	77.35	22.05	5.50	9.30	23.25		
26	9.45	28.20	10.35	7.40	10.05	23.85	84.50	70.75	21.15	5.40	34.50	31.80		
27	8.60	22.65	10.05	7.20	7.40	32.40	80.50	60.25	19.80	5.30	86.30	31.50		
28	8.80	21.90	10.05	7.00	5.90	40.00	63.75	55.00	18.60	5.40	102.50	29.55		
29	16.20	20.85	9.45	7.00	6.10	33.00	40.20	91.00	16.50	5.20		33.60		
30	27.15	18.45	9.00	7.40	10.65	31.65	26.10	99.00	16.80	5.00		34.65		
31		19.35		8.50	9.45		27.90		17.40	5.90		33.30		
<b>Total</b>	<b>427.25</b>	<b>1040.00</b>	<b>578.80</b>	<b>330.00</b>	<b>339.20</b>	<b>378.35</b>	<b>992.55</b>	<b>1938.80</b>	<b>1031.30</b>	<b>272.70</b>	<b>456.75</b>	<b>909.70</b>	<b>8695.40</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>14.24</b>	<b>33.55</b>	<b>19.29</b>	<b>10.65</b>	<b>10.94</b>	<b>12.61</b>	<b>32.02</b>	<b>64.63</b>	<b>33.27</b>	<b>8.80</b>	<b>16.31</b>	<b>29.35</b>	<b>23.82</b>	<b>CMS</b>
<b>Max</b>	<b>34.80</b>	<b>79.10</b>	<b>43.60</b>	<b>24.45</b>	<b>29.10</b>	<b>40.00</b>	<b>84.50</b>	<b>140.20</b>	<b>80.90</b>	<b>17.85</b>	<b>102.50</b>	<b>79.80</b>	<b>140.20</b>	<b>CMS</b>
<b>Min</b>	<b>6.40</b>	<b>14.85</b>	<b>9.00</b>	<b>7.00</b>	<b>3.60</b>	<b>3.20</b>	<b>7.30</b>	<b>16.80</b>	<b>16.50</b>	<b>5.00</b>	<b>4.90</b>	<b>14.70</b>	<b>3.20</b>	<b>CMS</b>
<b>Runoff</b>	<b>36.91</b>	<b>89.86</b>	<b>50.01</b>	<b>28.51</b>	<b>29.31</b>	<b>32.69</b>	<b>85.76</b>	<b>167.51</b>	<b>89.10</b>	<b>23.56</b>	<b>39.46</b>	<b>78.60</b>	<b>751.28</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>142.60 CMS. at 14.97 m. (MSL.) at 01.00 Hours , on Nov 20, 2021</b>													
<b>Runoff Yield</b>	<b>23.89 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 143.03 Liters/Second/Square KM.</b>										

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong Wa at Ban Khlong Wa , Songkhla (X.174)

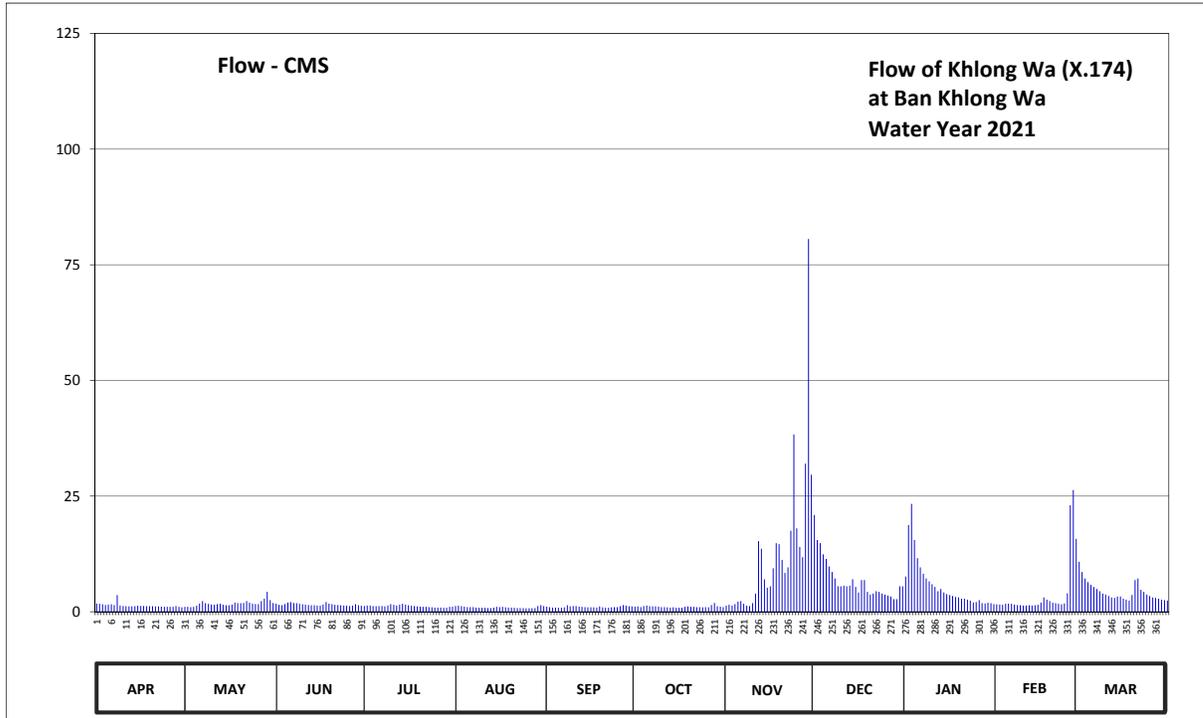
Lat 06 - 59 - 11 N Long 100 - 28 - 55 E

Location : on right bank at the bridge.

	Ban Khlong Wa	Amphoe Hat Yai	Changwat Songkhla
<b>Drainage Area</b>	106 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+11.138 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1989 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.35	4.21	4.35	4.25	4.25	4.22	4.22	4.26	5.43	4.83	4.32	4.99	
2	4.34	4.21	4.30	4.27	4.26	4.20	4.23	4.30	5.22	5.35	4.31	4.88	
3	4.32	4.20	4.28	4.27	4.24	4.18	4.20	4.27	5.19	5.51	4.30	4.81	
4	4.29	4.21	4.33	4.25	4.22	4.18	4.25	4.33	5.07	5.22	4.34	4.76	
5	4.31	4.26	4.40	4.24	4.20	4.17	4.27	4.42	5.02	5.03	4.35	4.72	
6	4.32	4.35	4.41	4.25	4.20	4.17	4.24	4.43	4.94	4.93	4.34	4.69	
7	4.29	4.43	4.38	4.25	4.20	4.19	4.23	4.34	4.88	4.86	4.31	4.66	
8	4.56	4.37	4.37	4.23	4.18	4.28	4.23	4.26	4.81	4.81	4.29	4.63	
9	4.27	4.34	4.34	4.27	4.17	4.23	4.22	4.25	4.70	4.77	4.28	4.59	
10	4.25	4.31	4.32	4.33	4.17	4.25	4.20	4.37	4.70	4.73	4.27	4.57	
11	4.24	4.30	4.31	4.30	4.17	4.25	4.20	4.59	4.71	4.69	4.27	4.54	
12	4.23	4.33	4.29	4.27	4.16	4.22	4.19	5.21	4.70	4.63	4.28	4.51	
13	4.23	4.34	4.28	4.30	4.16	4.21	4.18	5.13	4.71	4.66	4.27	4.50	
14	4.24	4.30	4.28	4.34	4.18	4.20	4.19	4.80	4.80	4.61	4.28	4.53	
15	4.26	4.28	4.27	4.31	4.21	4.19	4.17	4.68	4.69	4.58	4.30	4.53	
16	4.25	4.28	4.26	4.28	4.20	4.19	4.17	4.70	4.61	4.56	4.40	4.48	
17	4.25	4.31	4.31	4.26	4.21	4.19	4.17	4.92	4.79	4.54	4.51	4.46	
18	4.24	4.39	4.41	4.25	4.19	4.18	4.21	5.19	4.79	4.52	4.46	4.44	
19	4.24	4.37	4.35	4.23	4.18	4.23	4.23	5.18	4.62	4.51	4.43	4.56	
20	4.24	4.37	4.33	4.22	4.18	4.19	4.21	5.01	4.57	4.48	4.39	4.79	
21	4.23	4.38	4.30	4.21	4.17	4.17	4.21	4.87	4.59	4.48	4.37	4.81	
22	4.23	4.43	4.29	4.21	4.16	4.17	4.20	4.93	4.63	4.46	4.34	4.65	
23	4.22	4.39	4.28	4.20	4.16	4.19	4.20	5.30	4.62	4.44	4.32	4.62	
24	4.21	4.35	4.27	4.19	4.16	4.20	4.19	6.01	4.59	4.40	4.36	4.57	
25	4.21	4.33	4.26	4.18	4.15	4.20	4.20	5.32	4.57	4.41	4.60	4.54	
26	4.21	4.33	4.25	4.18	4.15	4.24	4.19	5.15	4.55	4.45	5.50	4.51	
27	4.21	4.43	4.26	4.18	4.15	4.29	4.29	5.04	4.53	4.37	5.61	4.50	
28	4.25	4.48	4.33	4.17	4.16	4.26	4.38	5.80	4.47	4.36	5.23	4.48	
29	4.21	4.62	4.28	4.17	4.25	4.24	4.24	7.09	4.47	4.39		4.46	
30	4.19	4.45	4.26	4.21	4.29	4.23	4.22	5.72	4.70	4.37		4.45	
31		4.38		4.22	4.25		4.20		4.70	4.33		4.44	
Mean	4.26	4.35	4.31	4.24	4.19	4.21	4.22	4.93	4.75	4.65	4.47	4.60	
Max	4.56	4.62	4.41	4.34	4.29	4.29	4.38	7.09	5.43	5.51	5.61	4.99	7.09
Min	4.19	4.20	4.25	4.17	4.15	4.17	4.17	4.25	4.47	4.33	4.27	4.44	4.15
Annual Max Momentary Gage Height	7.75		m. (MSL.) ,				at 07.00 Hours ,						on Nov 29, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	3.65	m. (MSL.)					
Left Bank Elevation		9.00	m. (MSL.) ,										
Right Bank Elevation		8.88	m. (MSL.) ,			Drainage Are	106	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.75	1.05	1.75	1.25	1.25	1.10	1.10	1.30	20.90	7.60	1.60	10.80		
2	1.70	1.05	1.50	1.35	1.30	1.00	1.15	1.50	15.50	18.75	1.55	8.60		
3	1.60	1.00	1.40	1.35	1.20	0.90	1.00	1.35	14.80	23.30	1.50	7.20		
4	1.45	1.05	1.65	1.25	1.10	0.90	1.25	1.65	12.40	15.50	1.70	6.40		
5	1.55	1.30	2.00	1.20	1.00	0.85	1.35	2.20	11.40	11.60	1.75	5.80		
6	1.60	1.75	2.10	1.25	1.00	0.85	1.20	2.30	9.80	9.60	1.70	5.35		
7	1.45	2.30	1.90	1.25	1.00	0.95	1.15	1.70	8.60	8.20	1.55	4.90		
8	3.60	1.85	1.85	1.15	0.90	1.40	1.15	1.30	7.20	7.20	1.45	4.45		
9	1.35	1.70	1.70	1.35	0.85	1.15	1.10	1.25	5.50	6.55	1.40	3.90		
10	1.25	1.55	1.60	1.65	0.85	1.25	1.00	1.85	5.50	5.95	1.35	3.70		
11	1.20	1.50	1.55	1.50	0.85	1.25	1.00	3.90	5.65	5.35	1.35	3.40		
12	1.15	1.65	1.45	1.35	0.80	1.10	0.95	15.25	5.50	4.45	1.40	3.10		
13	1.15	1.70	1.40	1.50	0.80	1.05	0.90	13.60	5.65	4.90	1.35	3.00		
14	1.20	1.50	1.40	1.70	0.90	1.00	0.95	7.00	7.00	4.15	1.40	3.30		
15	1.30	1.40	1.35	1.55	1.05	0.95	0.85	5.20	5.35	3.80	1.50	3.30		
16	1.25	1.40	1.30	1.40	1.00	0.95	0.85	5.50	4.15	3.60	2.00	2.80		
17	1.25	1.55	1.55	1.30	1.05	0.95	0.85	9.40	6.85	3.40	3.10	2.60		
18	1.20	1.95	2.10	1.25	0.95	0.90	1.05	14.80	6.85	3.20	2.60	2.40		
19	1.20	1.85	1.75	1.15	0.90	1.15	1.15	14.60	4.30	3.10	2.30	3.60		
20	1.20	1.85	1.65	1.10	0.90	0.95	1.05	11.20	3.70	2.80	1.95	6.85		
21	1.15	1.90	1.50	1.05	0.85	0.85	1.05	8.40	3.90	2.80	1.85	7.20		
22	1.15	2.30	1.45	1.05	0.80	0.85	1.00	9.60	4.45	2.60	1.70	4.75		
23	1.10	1.95	1.40	1.00	0.80	0.95	1.00	17.50	4.30	2.40	1.60	4.30		
24	1.05	1.75	1.35	0.95	0.80	1.00	0.95	38.30	3.90	2.00	1.80	3.70		
25	1.05	1.65	1.30	0.90	0.75	1.00	1.00	18.00	3.70	2.10	4.00	3.40		
26	1.05	1.65	1.25	0.90	0.75	1.20	0.95	14.00	3.50	2.50	23.00	3.10		
27	1.05	2.30	1.30	0.90	0.75	1.45	1.45	11.80	3.30	1.85	26.30	3.00		
28	1.25	2.80	1.65	0.85	0.80	1.30	1.90	32.00	2.70	1.80	15.75	2.80		
29	1.05	4.30	1.40	0.85	1.25	1.20	1.20	80.55	2.70	1.95		2.60		
30	0.95	2.50	1.30	1.05	1.45	1.15	1.10	29.60	5.50	1.85		2.50		
31		1.90		1.10	1.25		1.00		5.50	1.65		2.40		
Total	40.25	55.95	46.85	37.45	29.90	31.55	33.65	376.60	210.05	176.50	110.50	135.20	1284.45	CMSDAY
Mean	1.34	1.80	1.56	1.21	0.96	1.05	1.09	12.55	6.78	5.69	3.95	4.36	3.52	CMS
Max	3.60	4.30	2.10	1.70	1.45	1.45	1.90	80.55	20.90	23.30	26.30	10.80	80.55	CMS
Min	0.95	1.00	1.25	0.85	0.75	0.85	0.85	1.25	2.70	1.65	1.35	2.40	0.75	CMS
Runoff	3.48	4.83	4.05	3.24	2.58	2.73	2.91	32.54	18.15	15.25	9.55	11.68	110.98	MCM
Momentary Peak		117.00	CMS. at 7.75 m. (MSL.) at 07.00 Hours , on Nov 29, 2021											
Runoff Yield		33.20	Liters/Second/Square KM.		Momentary Peak Yield		1103.77	Liters/Second/Square KM.						

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)

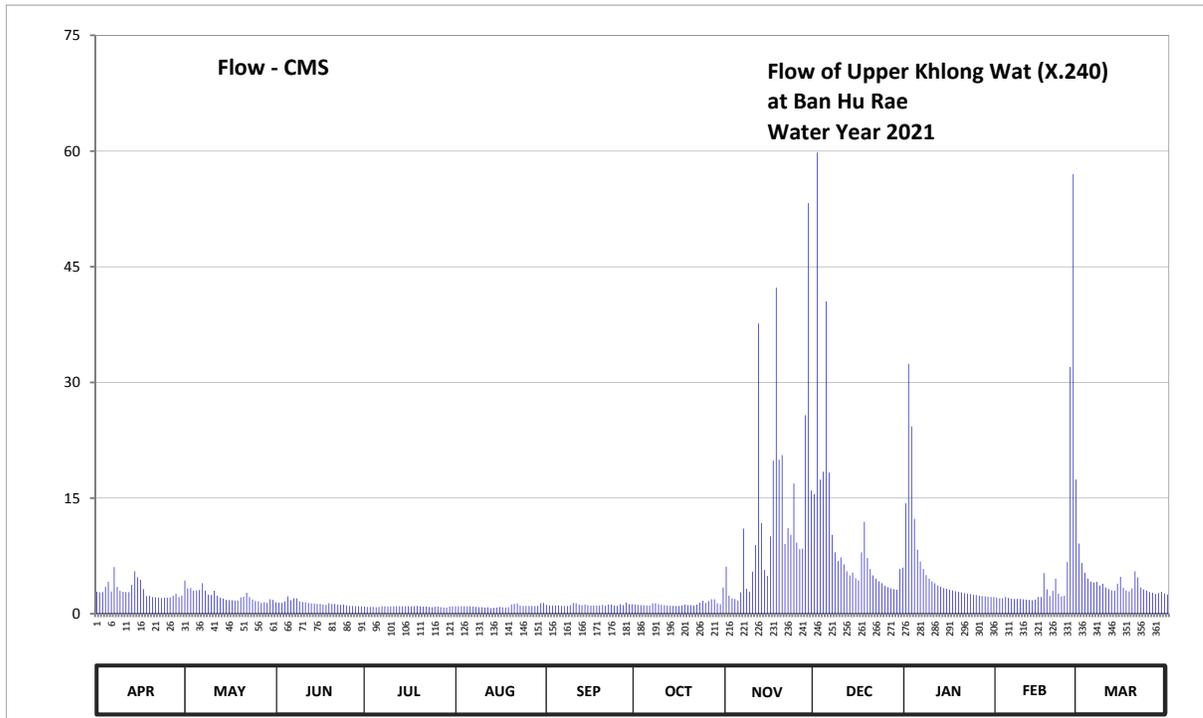
Lat 06 - 58 - 59 N Long 100 - 19 - 42 E

Location : on right bank at the bridge.

	<b>Ban Hu Rae</b>	<b>Amphoe Hat Yai</b>	<b>Changwat Songkhla</b>
<b>Drainage Area</b>	119 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the top staff gage.	<b>Elevation</b>	+25.224 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 21.940 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.01	18.34	17.67	17.53	17.54	17.59	17.60	18.65	19.99	19.84	17.82	19.15	
2	17.99	18.12	17.66	17.52	17.54	17.57	17.59	17.89	22.28	21.30	17.80	18.73	
3	18.00	18.13	17.65	17.52	17.54	17.57	17.58	17.80	20.61	20.79	17.80	18.52	
4	18.17	18.05	17.70	17.52	17.54	17.57	17.58	17.78	20.74	19.59	17.84	18.39	
5	18.31	18.06	17.86	17.51	17.54	17.57	17.57	17.73	21.65	19.02	17.81	18.31	
6	18.02	18.07	17.74	17.52	17.54	17.56	17.57	17.99	20.27	18.76	17.79	18.29	
7	18.64	18.27	17.80	17.54	17.53	17.55	17.64	19.43	19.32	18.60	17.78	18.31	
8	18.17	18.05	17.80	17.54	17.52	17.55	17.64	18.11	18.96	18.47	17.78	18.21	
9	18.04	17.92	17.70	17.53	17.51	17.58	17.61	18.01	18.77	18.39	17.78	18.26	
10	18.01	17.91	17.68	17.54	17.51	17.65	17.59	18.54	18.85	18.32	17.77	18.15	
11	18.00	18.05	17.67	17.54	17.50	17.64	17.58	19.12	18.70	18.27	17.76	18.10	
12	18.00	17.88	17.65	17.54	17.51	17.60	17.57	21.54	18.55	18.21	17.75	18.06	
13	18.23	17.82	17.64	17.54	17.48	17.58	17.56	19.52	18.46	18.17	17.74	18.04	
14	18.55	17.79	17.63	17.54	17.49	17.60	17.56	18.58	18.52	18.13	17.76	18.26	
15	18.42	17.75	17.62	17.54	17.50	17.58	17.55	18.45	18.40	18.11	17.84	18.43	
16	18.36	17.74	17.62	17.54	17.52	17.57	17.55	19.29	18.34	18.08	17.84	18.14	
17	18.10	17.74	17.60	17.54	17.51	17.57	17.57	20.42	18.96	18.06	18.51	18.06	
18	17.87	17.73	17.59	17.54	17.50	17.57	17.60	21.71	19.54	18.03	18.09	18.02	
19	17.88	17.73	17.64	17.55	17.51	17.57	17.58	20.43	18.84	18.01	17.87	18.12	
20	17.84	17.83	17.62	17.54	17.60	17.59	17.58	20.48	18.60	17.99	18.04	18.55	
21	17.83	17.85	17.62	17.53	17.62	17.56	17.57	19.14	18.46	17.97	18.39	18.42	
22	17.82	17.98	17.60	17.53	17.63	17.60	17.60	19.44	18.39	17.95	17.95	18.15	
23	17.81	17.84	17.59	17.52	17.57	17.60	17.66	19.32	18.32	17.94	17.86	18.09	
24	17.82	17.76	17.60	17.51	17.55	17.57	17.72	20.13	18.27	17.92	17.88	18.05	
25	17.82	17.71	17.57	17.53	17.55	17.56	17.65	19.17	18.20	17.91	18.75	18.00	
26	17.83	17.70	17.55	17.53	17.55	17.61	17.71	19.03	18.16	17.88	21.28	17.98	
27	17.88	17.65	17.55	17.51	17.55	17.58	17.77	19.04	18.12	17.87	22.20	17.94	
28	17.95	17.67	17.54	17.50	17.55	17.66	17.77	20.89	18.10	17.86	20.18	17.97	
29	17.84	17.65	17.54	17.50	17.55	17.61	17.64	22.75	18.08	17.85		18.01	
30	17.89	17.77	17.54	17.53	17.64	17.61	17.61	20.41	18.60	17.84		17.96	
31		17.75		17.54	17.65		18.15		18.63	17.84		17.92	
Mean	18.04	17.88	17.64	17.53	17.54	17.59	17.63	19.36	19.02	18.42	18.27	18.21	
Max	18.64	18.34	17.86	17.55	17.65	17.66	18.15	22.75	22.28	21.30	22.20	19.15	22.75
Min	17.81	17.65	17.54	17.50	17.48	17.55	17.55	17.73	18.08	17.84	17.74	17.92	17.48
Annual Max Momentary Gage Height	23.45		m. (MSL.) ,					at 02.00 Hours , on Nov 29, 2021					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed 16.76	m. (MSL.)					
Left Bank Elevation		21.93	m. (MSL.) ,										
Right Bank Elevation		21.94	m. (MSL.) ,			Drainage Are	119	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.84	4.30	1.48	0.92	0.96	1.16	1.20	6.10	15.52	14.32	2.08	9.10		
2	2.76	3.28	1.44	0.88	0.96	1.08	1.16	2.36	59.80	32.40	2.00	6.58		
3	2.80	3.32	1.40	0.88	0.96	1.08	1.12	2.00	17.38	24.28	2.00	5.32		
4	3.48	3.00	1.60	0.88	0.96	1.08	1.12	1.92	18.42	12.32	2.16	4.55		
5	4.15	3.04	2.24	0.84	0.96	1.08	1.08	1.72	40.50	8.32	2.04	4.15		
6	2.88	3.08	1.76	0.88	0.96	1.04	1.08	2.76	18.30	6.76	1.96	4.05		
7	6.04	3.95	2.00	0.96	0.92	1.00	1.36	11.04	10.24	5.80	1.92	4.15		
8	3.48	3.00	2.00	0.96	0.88	1.00	1.36	3.24	7.96	5.02	1.92	3.65		
9	2.96	2.48	1.60	0.92	0.84	1.12	1.24	2.84	6.82	4.55	1.92	3.90		
10	2.84	2.44	1.52	0.96	0.84	1.40	1.16	5.44	7.30	4.20	1.88	3.40		
11	2.80	3.00	1.48	0.96	0.80	1.36	1.12	8.92	6.40	3.95	1.84	3.20		
12	2.80	2.32	1.40	0.96	0.84	1.20	1.08	37.62	5.50	3.65	1.80	3.04		
13	3.75	2.08	1.36	0.96	0.72	1.12	1.04	11.76	4.96	3.48	1.76	2.96		
14	5.50	1.96	1.32	0.96	0.76	1.20	1.04	5.68	5.32	3.32	1.84	3.90		
15	4.72	1.80	1.28	0.96	0.80	1.12	1.00	4.90	4.60	3.24	2.16	4.78		
16	4.40	1.76	1.28	0.96	0.88	1.08	1.00	10.03	4.30	3.12	2.16	3.36		
17	3.20	1.76	1.20	0.96	0.84	1.08	1.08	19.84	7.96	3.04	5.26	3.04		
18	2.28	1.72	1.16	0.96	0.80	1.08	1.20	42.30	11.92	2.92	3.16	2.88		
19	2.32	1.72	1.36	1.00	0.84	1.08	1.12	19.96	7.24	2.84	2.28	3.28		
20	2.16	2.12	1.28	0.96	1.20	1.16	1.12	20.56	5.80	2.76	2.96	5.50		
21	2.12	2.20	1.28	0.92	1.28	1.04	1.08	9.04	4.96	2.68	4.55	4.72		
22	2.08	2.72	1.20	0.92	1.32	1.20	1.20	11.12	4.55	2.60	2.60	3.40		
23	2.04	2.16	1.16	0.88	1.08	1.20	1.44	10.24	4.20	2.56	2.24	3.16		
24	2.08	1.84	1.20	0.84	1.00	1.08	1.68	16.90	3.95	2.48	2.32	3.00		
25	2.08	1.64	1.08	0.92	1.00	1.04	1.40	9.22	3.60	2.44	6.70	2.80		
26	2.12	1.60	1.00	0.92	1.00	1.24	1.64	8.38	3.44	2.32	32.00	2.72		
27	2.32	1.40	1.00	0.84	1.00	1.12	1.88	8.44	3.28	2.28	57.00	2.56		
28	2.60	1.48	0.96	0.80	1.00	1.44	1.88	25.75	3.20	2.24	17.40	2.68		
29	2.16	1.40	0.96	0.80	1.00	1.24	1.36	53.25	3.12	2.20		2.84		
30	2.36	1.88	0.96	0.92	1.36	1.24	1.24	15.97	5.80	2.16		2.64		
31		1.80		0.96	1.40		3.40		5.98	2.16		2.48		
<b>Total</b>	<b>90.12</b>	<b>72.25</b>	<b>40.96</b>	<b>28.44</b>	<b>30.16</b>	<b>34.36</b>	<b>40.88</b>	<b>389.30</b>	<b>312.32</b>	<b>176.41</b>	<b>169.91</b>	<b>117.79</b>	<b>1502.90</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>3.00</b>	<b>2.33</b>	<b>1.37</b>	<b>0.92</b>	<b>0.97</b>	<b>1.15</b>	<b>1.32</b>	<b>12.98</b>	<b>10.07</b>	<b>5.69</b>	<b>6.07</b>	<b>3.80</b>	<b>4.12</b>	<b>CMS</b>
<b>Max</b>	<b>6.04</b>	<b>4.30</b>	<b>2.24</b>	<b>1.00</b>	<b>1.40</b>	<b>1.44</b>	<b>3.40</b>	<b>53.25</b>	<b>59.80</b>	<b>32.40</b>	<b>57.00</b>	<b>9.10</b>	<b>59.80</b>	<b>CMS</b>
<b>Min</b>	<b>2.04</b>	<b>1.40</b>	<b>0.96</b>	<b>0.80</b>	<b>0.72</b>	<b>1.00</b>	<b>1.00</b>	<b>1.72</b>	<b>3.12</b>	<b>2.16</b>	<b>1.76</b>	<b>2.48</b>	<b>0.72</b>	<b>CMS</b>
<b>Runoff</b>	<b>7.79</b>	<b>6.24</b>	<b>3.54</b>	<b>2.46</b>	<b>2.61</b>	<b>2.97</b>	<b>3.53</b>	<b>33.64</b>	<b>26.98</b>	<b>15.24</b>	<b>14.68</b>	<b>10.18</b>	<b>129.85</b>	<b>MCM</b>
<b>Momentary Peak</b>	109.75 CMS. at 23.45 m. (MSL.) at 02.00 Hours , on Nov 29, 2021													
<b>Runoff Yield</b>	34.60 Liters/Second/Square KM.			Momentary Peak Yield				922.27 Liters/Second/Square KM.						

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong Pa Bon at Ban Lo Han , Phatthalung (X.266)

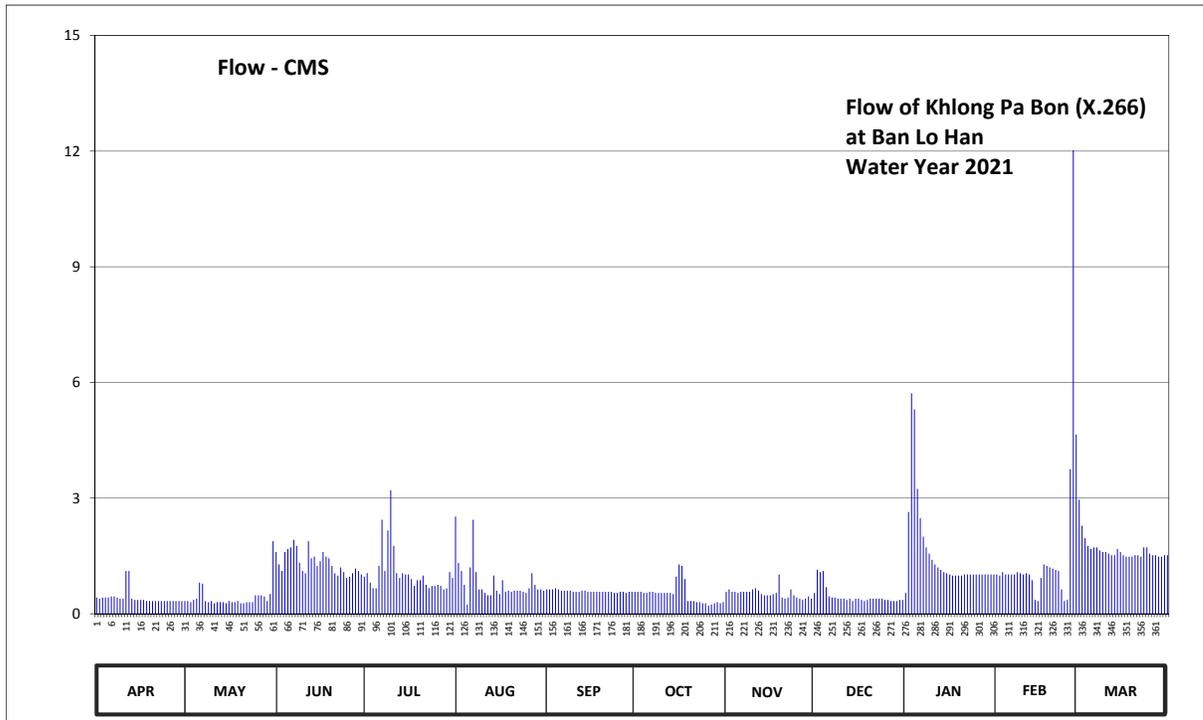
Lat 07 - 11 - 33 N Long 100 - 05 - 50 E

Location : on left bank at Ban Lo Han.

	<b>Ban</b> Lo Han	<b>Amphoe</b> Pa Bon	<b>Changwat</b> Phatthalung
<b>Drainage Area</b>	39 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+7.165 m. (A.D.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records poor. Stage-discharge relation defined by 4 discharge measurements made in 2021.		

## Gage Height in Meter (A.D.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.06	-0.09	0.30	0.12	0.53	0.01	-0.01	-0.01	-0.02	-0.02	0.14	0.64	
2	-0.07	-0.09	0.22	0.15	0.23	0.01	-0.01	0.01	0.18	0.56	0.13	0.47	
3	-0.06	-0.10	0.17	0.07	0.17	0.01	-0.01	-0.01	0.16	1.22	0.16	0.39	
4	-0.06	-0.08	0.30	0.02	0.05	0.02	-0.02	-0.01	0.17	1.14	0.14	0.34	
5	-0.06	-0.07	0.32	0.02	-0.12	0.01	-0.02	-0.02	0.03	0.71	0.14	0.32	
6	-0.05	0.07	0.33	0.21	0.20	0.00	-0.01	-0.01	-0.05	0.52	0.14	0.33	
7	-0.05	0.06	0.38	0.51	0.51	0.00	-0.01	-0.01	-0.06	0.40	0.14	0.33	
8	-0.06	-0.09	0.34	0.17	0.16	0.00	-0.02	-0.01	-0.06	0.33	0.16	0.31	
9	-0.07	-0.10	0.23	0.44	0.01	0.00	-0.02	-0.01	-0.07	0.29	0.15	0.30	
10	-0.07	-0.09	0.17	0.70	0.01	-0.01	-0.02	0.01	-0.07	0.25	0.14	0.30	
11	0.17	-0.11	0.15	0.34	-0.02	-0.01	-0.02	0.02	-0.07	0.22	0.15	0.29	
12	0.17	-0.10	0.37	0.15	-0.04	-0.01	-0.02	0.00	-0.08	0.20	0.14	0.28	
13	-0.07	-0.10	0.26	0.11	-0.04	0.00	-0.02	-0.03	-0.07	0.18	0.09	0.28	
14	-0.08	-0.10	0.27	0.15	0.13	0.00	-0.03	-0.04	-0.09	0.16	-0.08	0.32	
15	-0.08	-0.11	0.21	0.14	0.00	-0.01	0.12	-0.04	-0.07	0.15	-0.09	0.30	
16	-0.08	-0.09	0.24	0.14	-0.03	-0.01	0.22	-0.04	-0.07	0.14	0.11	0.28	
17	-0.08	-0.10	0.30	0.10	0.09	-0.01	0.21	-0.03	-0.08	0.13	0.22	0.27	
18	-0.09	-0.10	0.27	0.04	-0.01	-0.01	0.10	-0.02	-0.09	0.13	0.21	0.27	
19	-0.09	-0.09	0.26	0.09	0.00	-0.01	-0.09	0.14	-0.08	0.13	0.20	0.27	
20	-0.09	-0.11	0.21	0.09	-0.01	-0.01	-0.09	-0.06	-0.07	0.13	0.19	0.28	
21	-0.09	-0.11	0.15	0.13	0.00	-0.01	-0.09	-0.07	-0.07	0.14	0.18	0.28	
22	-0.09	-0.10	0.13	0.05	0.00	-0.01	-0.10	-0.06	-0.07	0.14	0.17	0.27	
23	-0.09	-0.10	0.20	0.02	0.00	-0.01	-0.10	0.01	-0.07	0.14	0.01	0.33	
24	-0.09	-0.10	0.16	0.04	-0.01	-0.02	-0.11	-0.04	-0.07	0.14	-0.09	0.33	
25	-0.09	-0.04	0.11	0.04	-0.02	-0.02	-0.11	-0.06	-0.08	0.14	-0.08	0.29	
26	-0.09	-0.04	0.12	0.05	0.02	-0.01	-0.13	-0.07	-0.08	0.14	0.83	0.28	
27	-0.09	-0.04	0.15	0.04	0.15	-0.01	-0.12	-0.08	-0.09	0.14	2.02	0.28	
28	-0.09	-0.05	0.19	0.01	0.05	-0.02	-0.11	-0.07	-0.09	0.14	1.01	0.27	
29	-0.09	-0.09	0.17	0.02	0.01	-0.01	-0.10	-0.05	-0.09	0.14		0.27	
30	-0.09	-0.03	0.14	0.16	0.01	-0.01	-0.11	-0.07	-0.08	0.14		0.28	
31		0.37		0.11	0.00		-0.10		-0.08	0.14		0.28	
Mean	-0.06	-0.06	0.23	0.14	0.07	-0.01	-0.03	-0.02	-0.05	0.27	0.24	0.31	
Max	0.17	0.37	0.38	0.70	0.53	0.02	0.22	0.14	0.18	1.22	2.02	0.64	2.02
Min	-0.09	-0.11	0.11	0.01	-0.12	-0.02	-0.13	-0.08	-0.09	-0.02	-0.09	0.27	-0.13
Annual Max Momentary Gage Height	3.05												at 23.00 Hours , on Feb 26, 2022
Zero Gage at Bottom Elevation	0.00						River Bed -0.27						m. (A.D.)
Left Bank Elevation	4.80												m. (A.D.)
Right Bank Elevation	6.01					Drainage Are	39						Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.33	1.60	0.96	2.52	0.63	0.57	0.57	0.54	0.54	1.02	2.96	
2	0.39	0.33	1.28	1.05	1.32	0.63	0.57	0.63	1.14	2.64	0.99	2.28	
3	0.42	0.30	1.11	0.81	1.11	0.63	0.57	0.57	1.08	5.72	1.08	1.96	
4	0.42	0.36	1.60	0.66	0.75	0.66	0.54	0.57	1.11	5.30	1.02	1.76	
5	0.42	0.39	1.68	0.66	0.24	0.63	0.54	0.54	0.69	3.24	1.02	1.68	
6	0.45	0.81	1.72	1.24	1.20	0.60	0.57	0.57	0.45	2.48	1.02	1.72	
7	0.45	0.78	1.92	2.44	2.44	0.60	0.57	0.57	0.42	2.00	1.02	1.72	
8	0.42	0.33	1.76	1.11	1.08	0.60	0.54	0.57	0.42	1.72	1.08	1.64	
9	0.39	0.30	1.32	2.16	0.63	0.60	0.54	0.57	0.39	1.56	1.05	1.60	
10	0.39	0.33	1.11	3.20	0.63	0.57	0.54	0.63	0.39	1.40	1.02	1.60	
11	1.11	0.27	1.05	1.76	0.54	0.57	0.54	0.66	0.39	1.28	1.05	1.56	
12	1.11	0.30	1.88	1.05	0.48	0.57	0.54	0.60	0.36	1.20	1.02	1.52	
13	0.39	0.30	1.44	0.93	0.48	0.60	0.54	0.51	0.39	1.14	0.87	1.52	
14	0.36	0.30	1.48	1.05	0.99	0.60	0.51	0.48	0.33	1.08	0.36	1.68	
15	0.36	0.27	1.24	1.02	0.60	0.57	0.96	0.48	0.39	1.05	0.33	1.60	
16	0.36	0.33	1.36	1.02	0.51	0.57	1.28	0.48	0.39	1.02	0.93	1.52	
17	0.36	0.30	1.60	0.90	0.87	0.57	1.24	0.51	0.36	0.99	1.28	1.48	
18	0.33	0.30	1.48	0.72	0.57	0.57	0.90	0.54	0.33	0.99	1.24	1.48	
19	0.33	0.33	1.44	0.87	0.60	0.57	0.33	1.02	0.36	0.99	1.20	1.48	
20	0.33	0.27	1.24	0.87	0.57	0.57	0.33	0.42	0.39	0.99	1.17	1.52	
21	0.33	0.27	1.05	0.99	0.60	0.57	0.33	0.39	0.39	1.02	1.14	1.52	
22	0.33	0.30	0.99	0.75	0.60	0.57	0.30	0.42	0.39	1.02	1.11	1.48	
23	0.33	0.30	1.20	0.66	0.60	0.57	0.30	0.63	0.39	1.02	0.63	1.72	
24	0.33	0.30	1.08	0.72	0.57	0.54	0.27	0.48	0.39	1.02	0.33	1.72	
25	0.33	0.48	0.93	0.72	0.54	0.54	0.27	0.42	0.36	1.02	0.36	1.56	
26	0.33	0.48	0.96	0.75	0.66	0.57	0.21	0.39	0.36	1.02	3.75	1.52	
27	0.33	0.48	1.05	0.72	1.05	0.57	0.24	0.36	0.33	1.02	12.02	1.52	
28	0.33	0.45	1.17	0.63	0.75	0.54	0.27	0.39	0.33	1.02	4.65	1.48	
29	0.33	0.33	1.11	0.66	0.63	0.57	0.30	0.45	0.33	1.02		1.48	
30	0.33	0.51	1.02	1.08	0.63	0.57	0.27	0.39	0.36	1.02		1.52	
31		1.88		0.93	0.60		0.30		0.36	1.02		1.52	
<b>Total</b>	12.51	13.01	39.87	33.09	25.36	17.52	15.78	15.81	14.31	48.55	43.76	51.32	330.89 CMSDAY
<b>Mean</b>	0.42	0.42	1.33	1.07	0.82	0.58	0.51	0.53	0.46	1.57	1.56	1.66	0.91 CMS
<b>Max</b>	1.11	1.88	1.92	3.20	2.52	0.66	1.28	1.02	1.14	5.72	12.02	2.96	12.02 CMS
<b>Min</b>	0.33	0.27	0.93	0.63	0.24	0.54	0.21	0.36	0.33	0.54	0.33	1.48	0.21 CMS
<b>Runoff</b>	1.08	1.12	3.44	2.86	2.19	1.51	1.36	1.37	1.24	4.19	3.78	4.43	28.59 MCM
<b>Momentary Peak</b>	25.65	CMS. at 3.05 m. (A.D.) at 23.00 Hours , on Feb 26, 2022											
<b>Runoff Yield</b>	23.24	Liters/Second/Square KM.		Momentary Peak Yield		657.69	Liters/Second/Square KM.						

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong Tha Cheat at Ban Mae Khree , Phatthalung (X.267)

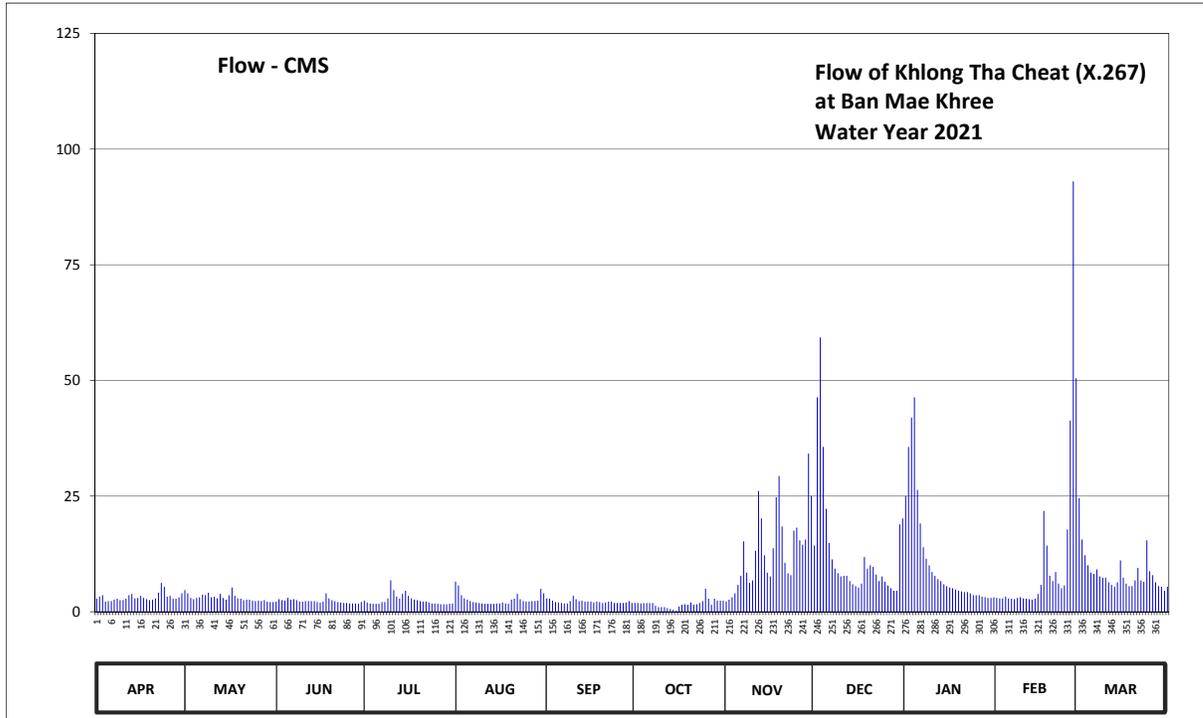
Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

	Ban Mae Khree	Amphoe Tamot	Changwat Phatthalung
<b>Drainage Area</b>	143 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 15 meters from the bridge.	<b>Elevation</b>	+27.878 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.98	22.12	21.92	21.94	22.25	21.99	21.89	21.92	22.71	23.20	22.00	23.18	
2	22.02	22.07	21.97	21.90	22.19	21.98	21.89	21.96	23.91	23.58	21.99	22.78	
3	22.04	22.00	21.95	21.88	22.04	21.94	21.88	22.01	24.27	23.78	21.99	22.60	
4	21.92	21.97	21.94	21.87	21.99	21.91	21.89	22.07	23.58	23.91	22.02	22.48	
5	21.93	22.00	22.00	21.87	21.96	21.90	21.89	22.20	23.08	23.25	21.99	22.39	
6	21.93	22.01	21.96	21.87	21.93	21.89	21.89	22.34	22.74	22.94	21.98	22.37	
7	21.96	22.05	21.97	21.91	21.91	21.88	21.89	22.76	22.55	22.69	21.97	22.43	
8	21.98	22.04	21.95	21.91	21.90	21.88	21.83	22.39	22.44	22.56	22.00	22.33	
9	21.95	22.08	21.92	21.99	21.89	21.93	21.80	22.23	22.38	22.48	22.01	22.31	
10	21.95	22.01	21.92	22.27	21.88	22.03	21.80	22.27	22.33	22.40	21.99	22.31	
11	21.98	22.02	21.93	22.12	21.87	21.97	21.80	22.65	22.34	22.34	21.98	22.24	
12	22.04	21.99	21.93	22.02	21.87	21.93	21.78	23.24	22.34	22.29	21.97	22.20	
13	22.06	22.06	21.93	21.98	21.87	21.94	21.76	22.99	22.26	22.26	21.96	22.17	
14	21.99	22.00	21.93	22.06	21.87	21.92	21.74	22.60	22.21	22.21	21.98	22.24	
15	22.00	21.96	21.91	22.11	21.88	21.92	21.72	22.39	22.18	22.18	22.06	22.54	
16	22.03	22.04	21.90	22.03	21.88	21.92	21.81	22.33	22.16	22.16	22.20	22.31	
17	22.00	22.16	21.92	21.99	21.90	21.90	21.85	22.68	22.22	22.15	23.06	22.22	
18	21.97	22.03	22.07	21.96	21.88	21.92	21.86	23.19	22.58	22.13	22.71	22.18	
19	21.95	21.99	21.99	21.95	21.87	21.91	21.85	23.36	22.44	22.11	22.34	22.18	
20	21.96	21.98	21.95	21.93	21.96	21.89	21.90	22.91	22.48	22.10	22.26	22.27	
21	21.99	21.95	21.93	21.92	21.98	21.90	21.85	22.51	22.46	22.09	22.40	22.45	
22	22.08	21.96	21.91	21.92	22.06	21.92	21.86	22.38	22.36	22.09	22.22	22.27	
23	22.23	21.96	21.90	21.90	21.97	21.92	21.89	22.35	22.26	22.07	22.15	22.25	
24	22.17	21.94	21.89	21.88	21.93	21.89	21.93	22.87	22.33	22.04	22.19	22.77	
25	22.02	21.93	21.89	21.88	21.92	21.89	22.14	22.90	22.25	22.04	22.88	22.41	
26	22.03	21.94	21.88	21.87	21.92	21.89	21.98	22.77	22.19	22.04	23.76	22.35	
27	21.98	21.93	21.88	21.86	21.93	21.89	21.85	22.72	22.15	22.02	25.04	22.24	
28	21.98	21.95	21.88	21.86	21.93	21.90	21.98	22.78	22.11	22.01	24.03	22.18	
29	22.01	21.92	21.87	21.86	21.94	21.93	21.94	23.53	22.11	22.00		22.17	
30	22.07	21.91	21.91	21.87	22.14	21.89	21.94	23.20	22.93	22.00		22.11	
31		21.91		21.88	22.07		21.94		22.99	22.01		22.17	
Mean	22.01	22.00	21.93	21.94	21.95	21.92	21.87	22.62	22.56	22.42	22.40	22.36	
Max	22.23	22.16	22.07	22.27	22.25	22.03	22.14	23.53	24.27	23.91	25.04	23.18	25.04
Min	21.92	21.91	21.87	21.86	21.87	21.88	21.72	21.92	22.11	22.00	21.96	22.11	21.72
Annual Max Momentary Gage Height	25.29		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed 21.40						
Left Bank Elevation		26.67		m. (MSL.) ,									
Right Bank Elevation		26.52		m. (MSL.) ,			Drainage Are 143						
							Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.80	4.68	2.20	2.40	6.50	2.90	1.90	2.20	14.29	25.00	3.00	24.54		
2	3.28	3.98	2.70	2.00	5.66	2.80	1.90	2.60	46.34	35.62	2.90	15.62		
3	3.56	3.00	2.50	1.80	3.56	2.40	1.80	3.14	59.26	41.96	2.90	12.20		
4	2.20	2.70	2.40	1.70	2.90	2.10	1.90	3.98	35.62	46.34	3.28	10.04		
5	2.30	3.00	3.00	1.70	2.60	2.00	1.90	5.80	22.24	26.35	2.90	8.46		
6	2.30	3.14	2.60	1.70	2.30	1.90	1.90	7.76	14.86	19.08	2.80	8.18		
7	2.60	3.70	2.70	2.10	2.10	1.80	1.90	15.24	11.30	13.91	2.70	9.14		
8	2.80	3.56	2.50	2.10	2.00	1.80	1.30	8.46	9.32	11.48	3.00	7.62		
9	2.50	4.12	2.20	2.90	1.90	2.30	1.00	6.22	8.32	10.04	3.14	7.34		
10	2.50	3.14	2.20	6.78	1.80	3.42	1.00	6.78	7.62	8.60	2.90	7.34		
11	2.80	3.28	2.30	4.68	1.70	2.70	1.00	13.15	7.76	7.76	2.80	6.36		
12	3.56	2.90	2.30	3.28	1.70	2.30	0.80	26.08	7.76	7.06	2.70	5.80		
13	3.84	3.84	2.30	2.80	1.70	2.40	0.60	20.18	6.64	6.64	2.60	5.38		
14	2.90	3.00	2.30	3.84	1.70	2.20	0.40	12.20	5.94	5.94	2.80	6.36		
15	3.00	2.60	2.10	4.54	1.80	2.20	0.20	8.46	5.52	5.52	3.84	11.12		
16	3.42	3.56	2.00	3.42	1.80	2.20	1.10	7.62	5.24	5.24	5.80	7.34		
17	3.00	5.24	2.20	2.90	2.00	2.00	1.50	13.72	6.08	5.10	21.78	6.08		
18	2.70	3.42	3.98	2.60	1.80	2.20	1.60	24.77	11.84	4.82	14.29	5.52		
19	2.50	2.90	2.90	2.50	1.70	2.10	1.50	29.32	9.32	4.54	7.76	5.52		
20	2.60	2.80	2.50	2.30	2.60	1.90	2.00	18.42	10.04	4.40	6.64	6.78		
21	2.90	2.50	2.30	2.20	2.80	2.00	1.50	10.58	9.68	4.26	8.60	9.50		
22	4.12	2.60	2.10	2.20	3.84	2.20	1.60	8.32	8.04	4.26	6.08	6.78		
23	6.22	2.60	2.00	2.00	2.70	2.20	1.90	7.90	6.64	3.98	5.10	6.50		
24	5.38	2.40	1.90	1.80	2.30	1.90	2.30	17.54	7.62	3.56	5.66	15.43		
25	3.28	2.30	1.90	1.80	2.20	1.90	4.96	18.20	6.50	3.56	17.76	8.78		
26	3.42	2.40	1.80	1.70	2.20	1.90	2.80	15.43	5.66	3.56	41.32	7.90		
27	2.80	2.30	1.80	1.60	2.30	1.90	1.50	14.48	5.10	3.28	93.00	6.36		
28	2.80	2.50	1.80	1.60	2.30	2.00	2.80	15.62	4.54	3.14	50.48	5.52		
29	3.14	2.20	1.70	1.60	2.40	2.30	2.40	34.17	4.54	3.00		5.38		
30	3.98	2.10	2.10	1.70	4.96	1.90	2.40	25.00	18.86	3.00		4.54		
31		2.10		1.80	3.98		2.40		20.18	3.14		5.38		
<b>Total</b>	<b>95.20</b>	<b>94.56</b>	<b>69.28</b>	<b>78.04</b>	<b>81.80</b>	<b>65.82</b>	<b>53.76</b>	<b>403.34</b>	<b>402.67</b>	<b>334.14</b>	<b>328.53</b>	<b>258.81</b>	<b>2265.95</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>3.17</b>	<b>3.05</b>	<b>2.31</b>	<b>2.52</b>	<b>2.64</b>	<b>2.19</b>	<b>1.73</b>	<b>13.44</b>	<b>12.99</b>	<b>10.78</b>	<b>11.73</b>	<b>8.35</b>	<b>6.21</b>	<b>CMS</b>
<b>Max</b>	<b>6.22</b>	<b>5.24</b>	<b>3.98</b>	<b>6.78</b>	<b>6.50</b>	<b>3.42</b>	<b>4.96</b>	<b>34.17</b>	<b>59.26</b>	<b>46.34</b>	<b>93.00</b>	<b>24.54</b>	<b>93.00</b>	<b>CMS</b>
<b>Min</b>	<b>2.20</b>	<b>2.10</b>	<b>1.70</b>	<b>1.60</b>	<b>1.70</b>	<b>1.80</b>	<b>0.20</b>	<b>2.20</b>	<b>4.54</b>	<b>3.00</b>	<b>2.60</b>	<b>4.54</b>	<b>0.20</b>	<b>CMS</b>
<b>Runoff</b>	<b>8.23</b>	<b>8.17</b>	<b>5.99</b>	<b>6.74</b>	<b>7.07</b>	<b>5.69</b>	<b>4.64</b>	<b>34.85</b>	<b>34.79</b>	<b>28.87</b>	<b>28.38</b>	<b>22.36</b>	<b>195.78</b>	<b>MCM</b>
<b>Momentary Peak</b>	106.40 CMS. at 25.29 m. (MSL.) at 09.00 Hours , on Feb 27, 2022													
<b>Runoff Yield</b>	43.41 Liters/Second/Square KM.			Momentary Peak Yield				744.06 Liters/Second/Square KM.						

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)

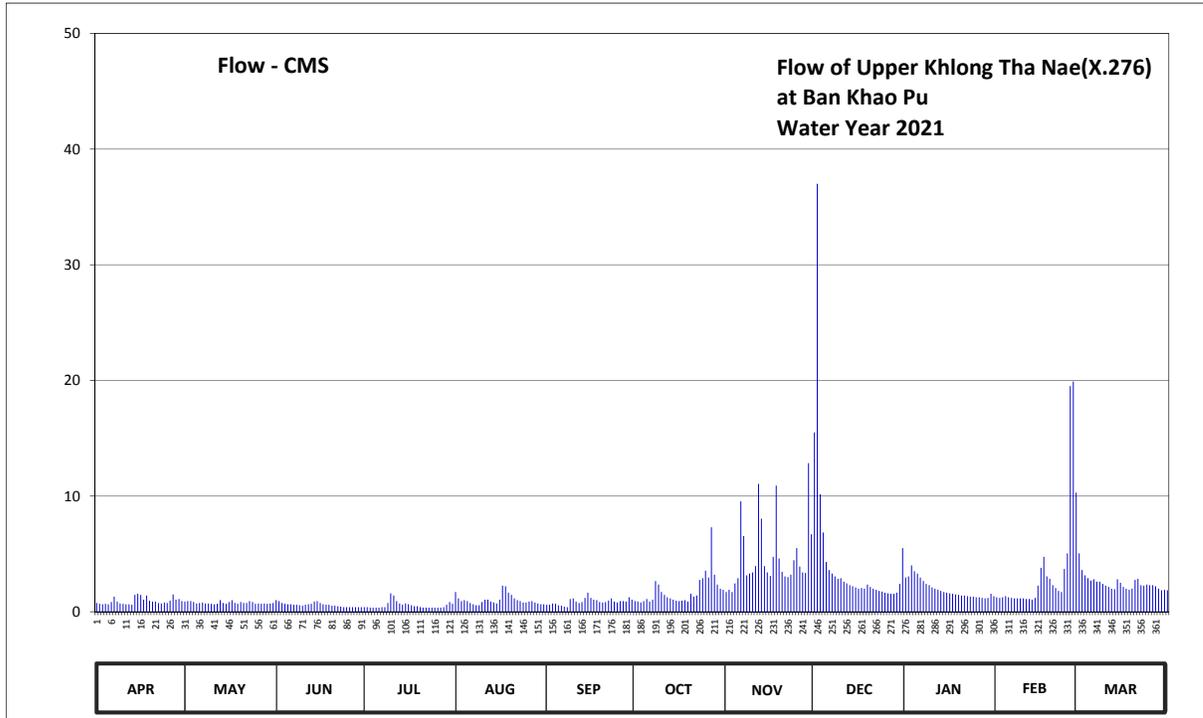
Lat 07 - 42 - 26 N Long 99 - 50 - 30 E

Location : on right bank at the bridge.

	<b>Ban</b> Khao Pu	<b>Amphoe</b> Si Banphot	<b>Changwat</b> Phatthalung
<b>Drainage Area</b>	53 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	beside the telemeter building.	<b>Elevation</b>	+55.054 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 53.880 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.34	50.37	50.40	50.25	50.54	50.30	50.38	50.54	51.75	50.79	50.45	51.07	
2	50.32	50.38	50.38	50.25	50.43	50.30	50.37	50.58	52.72	50.81	50.44	50.92	
3	50.31	50.38	50.34	50.24	50.38	50.33	50.35	50.54	51.41	51.00	50.45	50.83	
4	50.32	50.36	50.32	50.24	50.40	50.32	50.38	50.69	51.19	50.90	50.47	50.78	
5	50.31	50.33	50.31	50.24	50.38	50.29	50.42	50.78	51.02	50.86	50.45	50.74	
6	50.36	50.34	50.31	50.24	50.34	50.28	50.37	51.37	50.92	50.79	50.44	50.76	
7	50.46	50.35	50.30	50.25	50.31	50.26	50.41	51.17	50.86	50.73	50.43	50.72	
8	50.37	50.33	50.30	50.25	50.29	50.25	50.73	50.83	50.81	50.68	50.43	50.72	
9	50.33	50.33	50.29	50.34	50.29	50.42	50.67	50.86	50.77	50.66	50.43	50.68	
10	50.32	50.32	50.28	50.52	50.36	50.43	50.54	50.88	50.78	50.62	50.43	50.65	
11	50.31	50.31	50.30	50.48	50.41	50.37	50.49	50.99	50.72	50.60	50.42	50.63	
12	50.31	50.32	50.31	50.38	50.41	50.34	50.45	51.47	50.69	50.58	50.42	50.60	
13	50.30	50.40	50.32	50.33	50.37	50.36	50.43	51.27	50.66	50.56	50.41	50.59	
14	50.49	50.34	50.37	50.30	50.35	50.44	50.41	50.99	50.64	50.54	50.44	50.76	
15	50.51	50.32	50.38	50.33	50.33	50.53	50.39	50.88	50.62	50.53	50.65	50.70	
16	50.49	50.36	50.34	50.31	50.41	50.44	50.38	50.82	50.60	50.52	50.96	50.63	
17	50.41	50.40	50.31	50.29	50.65	50.41	50.39	51.05	50.61	50.51	51.05	50.60	
18	50.48	50.34	50.30	50.27	50.64	50.40	50.40	51.46	50.60	50.50	50.81	50.58	
19	50.39	50.32	50.30	50.27	50.53	50.36	50.37	51.04	50.67	50.49	50.77	50.60	
20	50.37	50.36	50.28	50.25	50.49	50.35	50.51	50.89	50.63	50.48	50.66	50.75	
21	50.37	50.34	50.28	50.24	50.43	50.36	50.46	50.81	50.60	50.48	50.61	50.77	
22	50.34	50.34	50.27	50.24	50.40	50.39	50.48	50.80	50.58	50.47	50.56	50.66	
23	50.33	50.38	50.26	50.24	50.38	50.43	50.75	50.84	50.56	50.46	50.54	50.65	
24	50.35	50.36	50.25	50.24	50.35	50.37	50.78	51.03	50.55	50.46	50.94	50.67	
25	50.34	50.32	50.25	50.24	50.35	50.35	50.91	51.10	50.53	50.45	51.07	50.66	
26	50.39	50.33	50.25	50.24	50.37	50.38	50.79	50.98	50.52	50.45	51.95	50.66	
27	50.50	50.32	50.25	50.24	50.38	50.38	51.22	50.88	50.51	50.44	51.97	50.64	
28	50.41	50.33	50.25	50.25	50.35	50.37	50.84	50.87	50.51	50.43	51.42	50.60	
29	50.42	50.32	50.25	50.30	50.33	50.45	50.67	51.59	50.53	50.44		50.57	
30	50.38	50.33	50.25	50.36	50.31	50.41	50.60	51.18	50.68	50.51		50.58	
31		50.34		50.32	50.31		50.58		51.10	50.47		50.57	
Mean	50.38	50.34	50.30	50.29	50.40	50.37	50.55	50.97	50.82	50.59	50.72	50.69	
Max	50.51	50.40	50.40	50.52	50.65	50.53	51.22	51.59	52.72	51.00	51.97	51.07	52.72
Min	50.30	50.31	50.25	50.24	50.29	50.25	50.35	50.54	50.51	50.43	50.41	50.57	50.24
Annual Max Momentary Gage Height	54.49		m. (MSL.) ,				at 07.00 Hours ,						
Zero Gage at Bottom Elevation		0.00	m. (MSL.) ,			River Bed	50.00	m. (MSL.)					
Left Bank Elevation		54.21	m. (MSL.) ,										
Right Bank Elevation		53.87	m. (MSL.) ,		Drainage Are	53	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	0.88	1.00	0.40	1.70	0.60	0.92	1.70	15.50	2.95	1.25	5.05	
2	0.68	0.92	0.92	0.40	1.15	0.60	0.88	1.90	37.00	3.05	1.20	3.60	
3	0.64	0.92	0.76	0.36	0.92	0.72	0.80	1.70	10.15	4.00	1.25	3.15	
4	0.68	0.84	0.68	0.36	1.00	0.68	0.92	2.45	6.85	3.50	1.35	2.90	
5	0.64	0.72	0.64	0.36	0.92	0.56	1.10	2.90	4.30	3.30	1.25	2.70	
6	0.84	0.76	0.64	0.36	0.76	0.52	0.88	9.55	3.60	2.95	1.20	2.80	
7	1.30	0.80	0.60	0.40	0.64	0.44	1.05	6.55	3.30	2.65	1.15	2.60	
8	0.88	0.72	0.60	0.40	0.56	0.40	2.65	3.15	3.05	2.40	1.15	2.60	
9	0.72	0.72	0.56	0.76	0.56	1.10	2.35	3.30	2.85	2.30	1.15	2.40	
10	0.68	0.68	0.52	1.60	0.84	1.15	1.70	3.40	2.90	2.10	1.15	2.25	
11	0.64	0.64	0.60	1.40	1.05	0.88	1.45	3.95	2.60	2.00	1.10	2.15	
12	0.64	0.68	0.64	0.92	1.05	0.76	1.25	11.05	2.45	1.90	1.10	2.00	
13	0.60	1.00	0.68	0.72	0.88	0.84	1.15	8.05	2.30	1.80	1.05	1.95	
14	1.45	0.76	0.88	0.60	0.80	1.20	1.05	3.95	2.20	1.70	1.20	2.80	
15	1.55	0.68	0.92	0.72	0.72	1.65	0.96	3.40	2.10	1.65	2.25	2.50	
16	1.45	0.84	0.76	0.64	1.05	1.20	0.92	3.10	2.00	1.60	3.80	2.15	
17	1.05	1.00	0.64	0.56	2.25	1.05	0.96	4.75	2.05	1.55	4.75	2.00	
18	1.40	0.76	0.60	0.48	2.20	1.00	1.00	10.90	2.00	1.50	3.05	1.90	
19	0.96	0.68	0.60	0.48	1.65	0.84	0.88	4.60	2.35	1.45	2.85	2.00	
20	0.88	0.84	0.52	0.40	1.45	0.80	1.55	3.45	2.15	1.40	2.30	2.75	
21	0.88	0.76	0.52	0.36	1.15	0.84	1.30	3.05	2.00	1.40	2.05	2.85	
22	0.76	0.76	0.48	0.36	1.00	0.96	1.40	3.00	1.90	1.35	1.80	2.30	
23	0.72	0.92	0.44	0.36	0.92	1.15	2.75	3.20	1.80	1.30	1.70	2.25	
24	0.80	0.84	0.40	0.36	0.80	0.88	2.90	4.45	1.75	1.30	3.70	2.35	
25	0.76	0.68	0.40	0.36	0.80	0.80	3.55	5.50	1.65	1.25	5.05	2.30	
26	0.96	0.72	0.40	0.36	0.88	0.92	2.95	3.90	1.60	1.25	19.50	2.30	
27	1.50	0.68	0.40	0.36	0.92	0.92	7.30	3.40	1.55	1.20	19.90	2.20	
28	1.05	0.72	0.40	0.40	0.80	0.88	3.20	3.35	1.55	1.15	10.30	2.00	
29	1.10	0.68	0.40	0.60	0.72	1.25	2.35	12.85	1.65	1.20		1.85	
30	0.92	0.72	0.40	0.84	0.64	1.05	2.00	6.70	2.40	1.55		1.90	
31		0.76		0.68	0.64		1.90		5.50	1.35		1.85	
Total	27.89	24.08	18.00	17.36	31.42	26.64	56.02	143.20	135.05	60.05	99.55	76.40	715.66 CMSDAY
Mean	0.93	0.78	0.60	0.56	1.01	0.89	1.81	4.77	4.36	1.94	3.56	2.46	1.96 CMS
Max	1.55	1.00	1.00	1.60	2.25	1.65	7.30	12.85	37.00	4.00	19.90	5.05	37.00 CMS
Min	0.60	0.64	0.40	0.36	0.56	0.40	0.80	1.70	1.55	1.15	1.05	1.85	0.36 CMS
Runoff	2.41	2.08	1.56	1.50	2.71	2.30	4.84	12.37	11.67	5.19	8.60	6.60	61.83 MCM
Momentary Peak	96.05 CMS. at 54.49 m. (MSL.) at 07.00 Hours , on Dec 2, 2021												
Runoff Yield	36.99 Liters/Second/Square KM.			Momentary Peak Yield			1812.26 Liters/Second/Square KM.						

## WATER YEAR : 2021

## PATTANI RIVER BASIN

## Pattani River at Ban Tha Sap, Yala (X.40A)

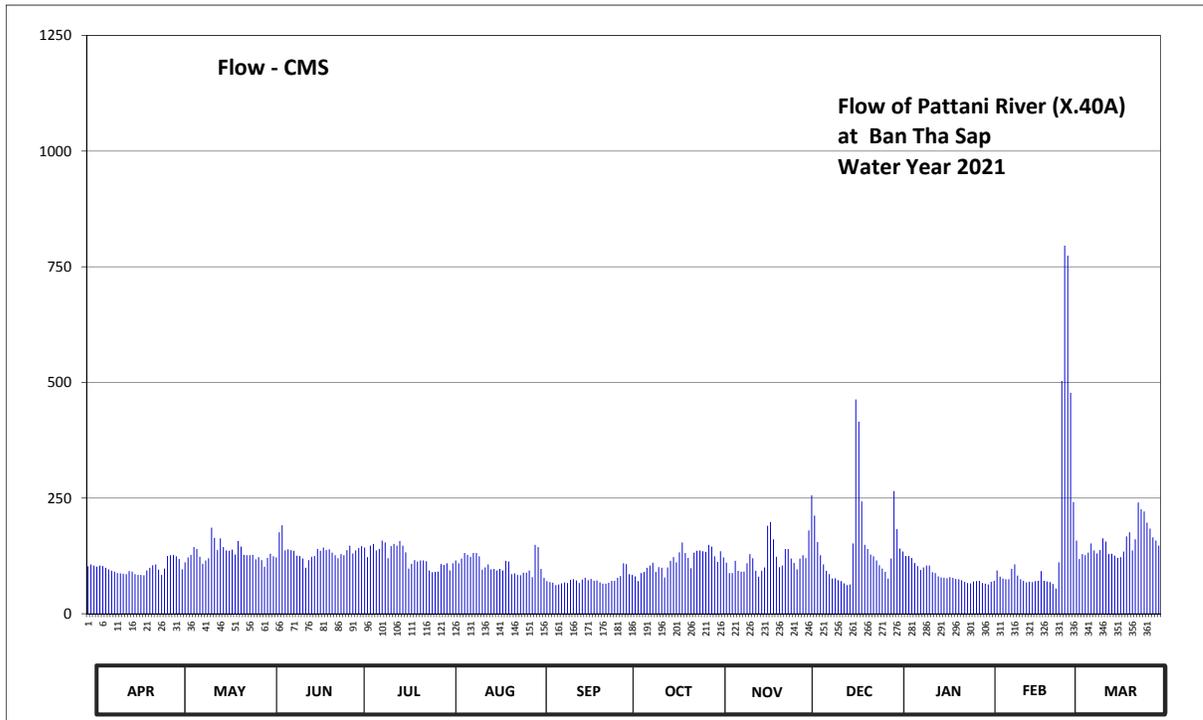
Lat 06 - 33 - 10 N Long 101 - 15 - 59 E

Location : on left bank at the bridge of Yala - Ban Niang Road.

	Ban Tha Sap	Amphoe Mueang	Changwat Yala
<b>Drainage Area</b>	3,295 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank between the fourth and the fifth staff gage.	<b>Elevation</b>	+22.740 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1988 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 16.510 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Flow regulated by Bang Lang Dam upstream. Stage-discharge relation defined by 24 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

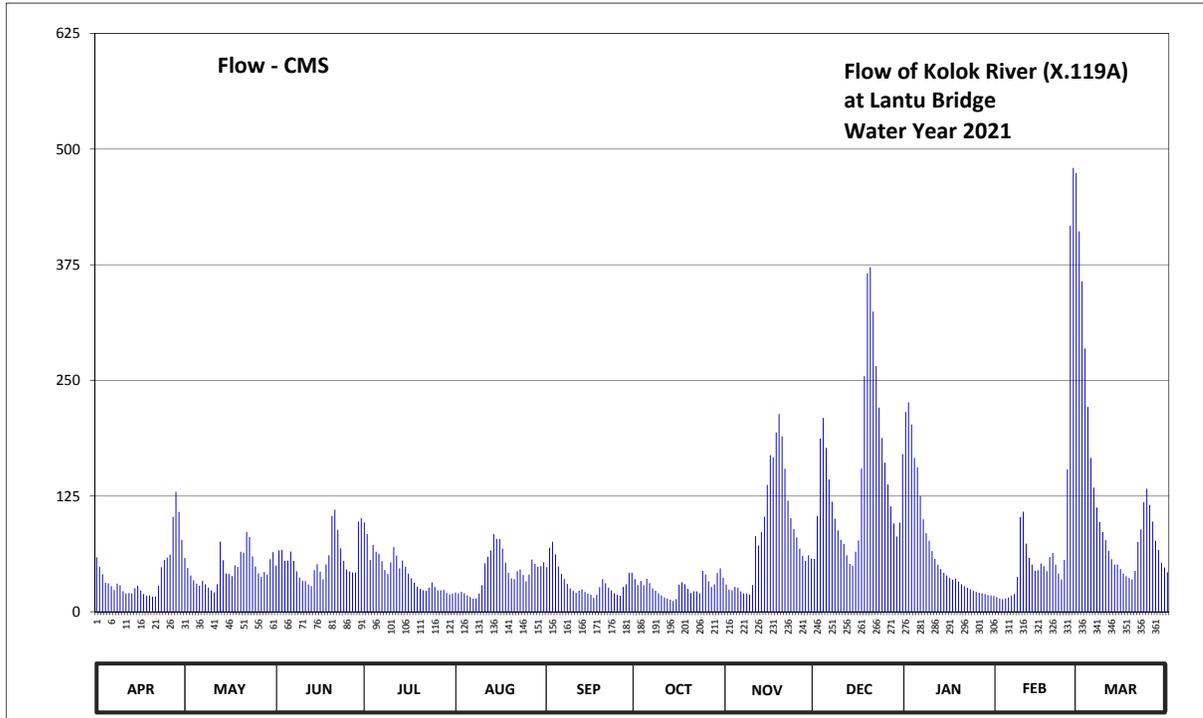
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.93	13.20	13.16	13.36	13.01	13.44	12.99	13.05	13.15	13.83	12.42	15.77	
2	12.98	13.13	13.27	13.42	12.82	12.86	12.72	13.34	13.80	13.41	12.50	14.35	
3	12.95	12.85	13.20	13.46	13.01	12.62	12.70	13.17	14.46	13.33	12.53	13.58	
4	12.92	13.04	13.17	13.43	13.09	12.52	12.66	13.03	14.11	13.21	12.82	13.13	
5	12.95	13.17	13.76	13.18	13.01	12.49	12.52	12.75	13.55	13.21	12.65	13.26	
6	12.94	13.24	13.91	13.47	13.14	12.47	12.75	12.75	13.23	13.16	12.60	13.23	
7	12.89	13.44	13.36	13.51	13.29	12.40	12.78	13.08	12.98	13.02	12.58	13.30	
8	12.85	13.40	13.39	13.36	13.24	12.42	12.89	12.81	12.81	12.94	12.58	13.52	
9	12.81	13.19	13.37	13.40	13.19	12.45	12.95	12.79	12.72	12.83	12.86	13.36	
10	12.79	13.00	13.35	13.58	13.29	12.48	13.03	12.79	12.60	12.90	12.98	13.28	
11	12.75	13.09	13.22	13.54	13.29	12.46	12.78	13.01	12.61	12.95	12.68	13.37	
12	12.74	13.15	13.21	13.15	13.20	12.56	12.91	13.26	12.55	12.95	12.58	13.63	
13	12.73	13.86	13.14	13.46	12.84	12.58	12.89	13.15	12.52	12.77	12.53	13.56	
14	12.72	13.64	12.89	13.51	12.90	12.54	12.63	12.81	12.45	12.75	12.48	13.26	
15	12.80	13.37	13.10	13.47	12.98	12.46	12.90	12.65	12.40	12.66	12.50	13.27	
16	12.79	13.63	13.19	13.57	12.85	12.57	13.08	12.81	12.42	12.63	12.49	13.22	
17	12.72	13.44	13.21	13.47	12.86	12.62	13.18	12.90	13.52	12.62	12.52	13.16	
18	12.70	13.36	13.40	13.31	12.82	12.55	13.04	13.90	15.70	12.61	12.53	13.18	
19	12.70	13.35	13.35	12.87	12.86	12.59	13.31	13.98	15.45	12.64	12.80	13.33	
20	12.69	13.38	13.43	13.00	12.82	12.53	13.54	13.61	14.36	12.62	12.53	13.67	
21	12.82	13.25	13.37	13.10	13.08	12.54	13.29	13.19	13.49	12.59	12.51	13.76	
22	12.89	13.57	13.39	13.06	13.06	12.48	13.16	12.91	13.40	12.58	12.49	13.36	
23	12.96	13.45	13.30	13.09	12.72	12.44	12.88	12.95	13.25	12.55	12.43	13.61	
24	12.98	13.24	13.23	13.09	12.74	12.44	13.30	13.40	13.20	12.50	12.29	14.34	
25	12.84	13.23	13.15	13.07	12.70	12.47	13.35	13.40	13.09	12.46	13.04	14.23	
26	12.70	13.23	13.26	12.82	12.69	12.53	13.36	13.14	12.96	12.45	15.89	14.19	
27	12.87	13.24	13.23	12.77	12.76	12.53	13.34	13.02	12.87	12.51	17.11	13.97	
28	13.21	13.12	13.37	12.78	12.76	12.62	13.32	12.85	12.78	12.52	17.03	13.84	
29	13.23	13.18	13.47	12.79	12.82	12.67	13.49	13.14	12.60	12.53		13.65	
30	13.24	13.10	13.28	12.99	12.64	13.01	13.45	13.23	13.14	12.46		13.58	
31		12.92		12.97	13.49		13.20		14.53	12.44		13.47	
Mean	12.87	13.27	13.30	13.23	12.97	12.58	13.04	13.10	13.31	12.79	13.03	13.63	
Max	13.24	13.86	13.91	13.58	13.49	13.44	13.54	13.98	15.70	13.83	17.11	15.77	17.11
Min	12.69	12.85	12.89	12.77	12.64	12.40	12.52	12.65	12.40	12.44	12.29	13.13	12.29
Annual Max Momentary Gage Height	17.37		m. (MSL.) ,				at 21.00 Hours ,						on Feb 27, 2022
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	8.43	m. (MSL.)					
Left Bank Elevation		16.50	m. (MSL.) ,										
Right Bank Elevation		18.70	m. (MSL.) ,			Drainage Are	3,295	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	102.40	124.00	120.80	136.80	108.80	144.00	107.20	112.00	120.00	183.00	63.40	477.70		
2	106.40	118.40	129.60	142.00	93.60	96.80	85.60	135.20	180.00	141.00	69.00	241.50		
3	104.00	96.00	124.00	146.00	108.80	77.60	84.00	121.60	255.80	134.40	71.10	158.00		
4	101.60	111.20	121.60	143.00	115.20	70.40	80.80	110.40	212.10	124.80	93.60	118.40		
5	104.00	121.60	176.00	122.40	108.80	68.30	70.40	88.00	155.00	124.80	80.00	128.80		
6	103.20	127.20	191.00	147.00	119.20	66.90	88.00	88.00	126.40	120.80	76.00	126.40		
7	99.20	144.00	136.80	151.00	131.20	62.00	90.40	114.40	106.40	109.60	74.60	132.00		
8	96.00	140.00	139.20	136.80	127.20	63.40	99.20	92.80	92.80	103.20	74.60	152.00		
9	92.80	123.20	137.60	140.00	123.20	65.50	104.00	91.20	85.60	94.40	96.80	136.80		
10	91.20	108.00	136.00	158.00	131.20	67.60	110.40	91.20	76.00	100.00	106.40	130.40		
11	88.00	115.20	125.60	154.00	131.20	66.20	90.40	108.80	76.80	104.00	82.40	137.60		
12	87.20	120.00	124.80	120.00	124.00	73.20	100.80	128.80	72.50	104.00	74.60	163.00		
13	86.40	186.00	119.20	146.00	95.20	74.60	99.20	120.00	70.40	89.60	71.10	156.00		
14	85.60	164.00	99.20	151.00	100.00	71.80	78.40	92.80	65.50	88.00	67.60	128.80		
15	92.00	137.60	116.00	147.00	106.40	66.20	100.00	80.00	62.00	80.80	69.00	129.60		
16	91.20	163.00	123.20	157.00	96.00	73.90	114.40	92.80	63.40	78.40	68.30	125.60		
17	85.60	144.00	124.80	147.00	96.80	77.60	122.40	100.00	152.00	77.60	70.40	120.80		
18	84.00	136.80	140.00	132.80	93.60	72.50	111.20	190.00	463.00	76.80	71.10	122.40		
19	84.00	136.00	136.00	97.60	96.80	75.30	132.80	198.00	415.00	79.20	92.00	134.40		
20	83.20	138.40	143.00	108.00	93.60	71.10	154.00	161.00	242.80	77.60	71.10	167.00		
21	93.60	128.00	137.60	116.00	114.40	71.80	131.20	123.20	149.00	75.30	69.70	176.00		
22	99.20	157.00	139.20	112.80	112.80	67.60	120.80	100.80	140.00	74.60	68.30	136.80		
23	104.80	145.00	132.00	115.20	85.60	64.80	98.40	104.00	128.00	72.50	64.10	161.00		
24	106.40	127.20	126.40	115.20	87.20	64.80	132.00	140.00	124.00	69.00	54.30	240.20		
25	95.20	126.40	120.00	113.60	84.00	66.90	136.00	140.00	115.20	66.20	111.20	225.90		
26	84.00	126.40	128.80	93.60	83.20	71.10	136.80	119.20	104.80	65.50	502.90	220.90		
27	97.60	127.20	126.40	89.60	88.80	71.10	135.20	109.60	97.60	69.70	795.70	197.00		
28	124.80	117.60	137.60	90.40	88.80	77.60	133.60	96.00	90.40	70.40	774.10	184.00		
29	126.40	122.40	147.00	91.20	93.60	81.60	149.00	119.20	76.00	71.10		165.00		
30	127.20	116.00	130.40	107.20	79.20	108.80	145.00	126.40	119.20	66.20		158.00		
31		101.60		105.60	149.00		124.00		264.90	64.80		147.00		
<b>Total</b>	<b>2927.20</b>	<b>4049.40</b>	<b>3989.80</b>	<b>3933.80</b>	<b>3267.40</b>	<b>2251.00</b>	<b>3465.60</b>	<b>3495.40</b>	<b>4502.60</b>	<b>2857.30</b>	<b>3983.40</b>	<b>5199.00</b>	<b>43921.90</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>97.57</b>	<b>130.63</b>	<b>132.99</b>	<b>126.90</b>	<b>105.40</b>	<b>75.03</b>	<b>111.79</b>	<b>116.51</b>	<b>145.25</b>	<b>92.17</b>	<b>142.26</b>	<b>167.71</b>	<b>120.33</b>	<b>CMS</b>
<b>Max</b>	<b>127.20</b>	<b>186.00</b>	<b>191.00</b>	<b>158.00</b>	<b>149.00</b>	<b>144.00</b>	<b>154.00</b>	<b>198.00</b>	<b>463.00</b>	<b>183.00</b>	<b>795.70</b>	<b>477.70</b>	<b>795.70</b>	<b>CMS</b>
<b>Min</b>	<b>83.20</b>	<b>96.00</b>	<b>99.20</b>	<b>89.60</b>	<b>79.20</b>	<b>62.00</b>	<b>70.40</b>	<b>80.00</b>	<b>62.00</b>	<b>64.80</b>	<b>54.30</b>	<b>118.40</b>	<b>54.30</b>	<b>CMS</b>
<b>Runoff</b>	<b>252.91</b>	<b>349.87</b>	<b>344.72</b>	<b>339.88</b>	<b>282.30</b>	<b>194.49</b>	<b>299.43</b>	<b>302.00</b>	<b>389.02</b>	<b>246.87</b>	<b>344.17</b>	<b>449.19</b>	<b>3794.85</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>867.60</b>	<b>CMS.</b>	<b>at 17.37 m. (MSL.) at 21.00 Hours , on Feb 27, 2022</b>										
<b>Runoff Yield</b>		<b>36.52</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>263.31</b>	<b>Liters/Second/Square KM.</b>							

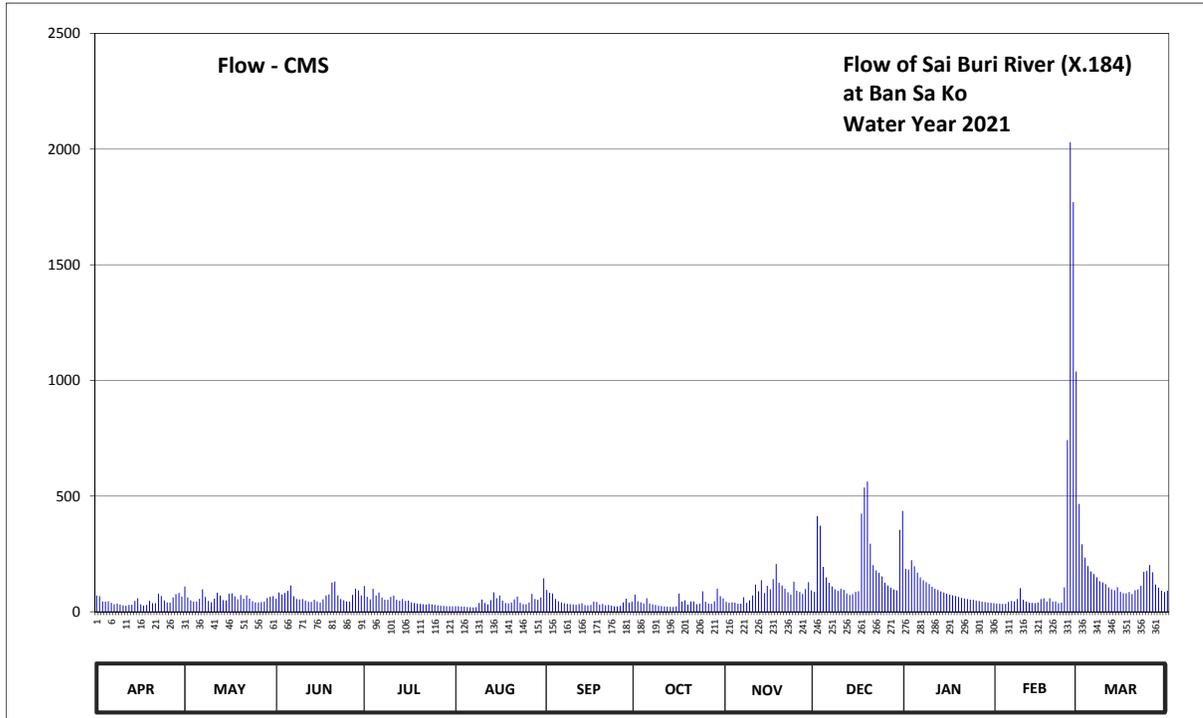




**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	58.85	58.15	49.90	96.60	20.75	48.10	35.20	29.50	57.10	215.70	15.75	411.00		
2	48.70	47.20	66.20	83.80	19.75	69.35	28.90	24.00	103.40	226.20	14.50	357.00		
3	40.60	39.10	66.90	56.05	21.50	75.65	33.40	23.25	187.20	202.40	13.50	284.50		
4	31.30	34.00	55.00	72.15	20.00	62.00	28.60	26.80	209.40	166.20	14.25	221.30		
5	30.70	30.40	55.35	64.80	17.75	49.00	35.50	25.90	177.00	156.00	15.50	166.20		
6	27.70	28.00	65.15	62.70	16.00	40.90	31.00	22.00	143.00	125.00	17.50	134.00		
7	23.50	33.40	55.00	54.70	14.25	35.20	25.30	20.00	119.00	99.80	19.25	112.60		
8	30.40	29.80	43.60	45.10	14.50	30.10	22.75	19.50	100.60	85.00	37.60	97.00		
9	28.60	26.20	37.00	40.90	19.50	25.30	20.00	18.50	87.80	76.70	102.20	86.20		
10	22.25	23.00	33.70	53.50	28.60	22.50	17.75	28.90	77.75	65.50	108.20	77.40		
11	19.75	21.00	33.10	69.70	52.30	20.50	15.50	81.60	73.20	57.10	73.55	65.85		
12	20.25	29.80	29.50	60.60	59.55	22.75	14.25	71.45	60.95	50.80	58.15	56.75		
13	19.75	75.65	27.70	46.90	66.20	24.25	13.00	86.20	51.70	46.00	50.80	51.10		
14	25.30	55.70	44.80	55.35	83.80	21.25	11.75	102.60	49.90	42.10	44.20	51.10		
15	28.00	41.20	51.40	48.70	78.80	19.50	13.50	137.00	64.80	39.10	44.80	46.30		
16	23.00	40.90	43.30	41.20	78.80	18.25	29.20	169.20	77.05	36.40	52.00	41.50		
17	19.00	38.50	34.90	36.10	68.30	15.00	31.90	166.80	155.00	34.60	49.30	38.50		
18	17.25	50.20	51.10	31.30	52.90	18.25	29.80	193.80	254.60	35.80	43.90	36.40		
19	17.75	48.40	60.95	27.10	42.10	26.50	24.75	213.60	365.50	32.50	59.20	34.90		
20	16.25	64.80	103.40	24.75	36.10	35.20	20.25	189.60	372.30	29.80	63.40	44.20		
21	16.50	63.75	110.20	23.25	35.20	30.70	22.25	154.50	324.40	27.70	50.80	75.30		
22	28.00	86.20	88.60	22.50	43.90	26.20	22.00	120.00	265.50	25.90	41.20	89.00		
23	48.10	80.55	68.65	26.20	45.70	23.00	20.00	101.00	220.60	24.25	34.90	118.50		
24	56.05	59.90	55.00	31.60	39.70	20.00	44.20	89.40	187.80	22.75	56.05	133.00		
25	58.50	49.00	45.70	26.80	32.80	18.25	40.30	80.20	161.00	21.50	154.00	115.50		
26	61.65	41.50	43.60	23.00	40.30	17.25	32.80	68.30	137.50	20.50	417.00	97.40		
27	102.60	37.60	42.40	23.25	56.40	26.80	26.80	60.25	113.80	19.75	479.60	76.70		
28	129.50	43.00	42.40	23.50	51.70	29.80	29.50	55.00	95.40	19.00	474.20	66.90		
29	107.80	40.30	97.40	20.25	48.70	42.10	41.80	60.95	81.25	18.00		52.90		
30	77.75	56.75	101.00	18.75	49.30	42.10	46.90	57.45	96.20	17.50		47.80		
31		64.45		19.50	53.50		36.70		170.40	17.00		42.70		
<b>Total</b>	1235.35	1438.40	1702.90	1330.60	1308.65	955.75	845.55	2497.25	4641.10	2056.55	2605.30	3329.50	23946.90	CMSDAY
<b>Mean</b>	41.18	46.40	56.76	42.92	42.21	31.86	27.28	83.24	149.71	66.34	93.05	107.40	65.61	CMS
<b>Max</b>	129.50	86.20	110.20	96.60	83.80	75.65	46.90	213.60	372.30	226.20	479.60	411.00	479.60	CMS
<b>Min</b>	16.25	21.00	27.70	18.75	14.25	15.00	11.75	18.50	49.90	17.00	13.50	34.90	11.75	CMS
<b>Runoff</b>	106.73	124.28	147.13	114.96	113.07	82.58	73.06	215.76	400.99	177.69	225.10	287.67	2069.01	MCM
<b>Momentary Peak</b>	541.25 CMS. at 10.55 m. (MSL.) at 23.00 Hours , on Feb 27, 2022													
<b>Runoff Yield</b>	48.31		Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		398.56		Liters/Second/Square KM.					





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	70.00	109.00	55.60	111.10	24.10	94.00	74.00	42.40	86.00	185.60	36.00	466.00		
2	67.30	61.90	83.00	64.60	24.10	82.00	45.60	38.40	413.20	182.00	34.60	291.50		
3	44.80	48.80	74.00	53.80	22.70	79.00	40.80	40.80	372.10	222.80	33.90	233.60		
4	44.00	44.00	81.00	99.00	22.00	54.70	36.00	39.20	194.00	196.40	34.60	197.60		
5	45.60	44.00	90.00	70.00	20.80	45.60	58.30	34.60	148.50	169.40	42.40	173.80		
6	38.40	55.60	113.30	83.00	19.60	40.80	35.30	35.30	125.40	148.50	46.40	162.80		
7	32.50	97.00	66.40	61.00	18.40	36.80	31.80	62.80	109.00	136.40	44.80	148.50		
8	35.30	63.70	54.70	52.00	20.20	34.60	29.70	38.40	97.00	127.60	54.70	132.00		
9	31.10	46.40	52.90	51.20	37.60	33.20	26.20	49.60	90.00	119.90	102.00	126.50		
10	27.60	40.80	54.70	63.70	52.90	31.80	24.80	70.00	99.00	108.00	51.20	119.90		
11	26.20	56.50	48.00	70.00	37.60	30.40	23.40	117.70	94.00	100.00	44.00	105.00		
12	29.70	82.00	43.20	51.20	31.80	33.90	22.00	89.00	78.00	94.00	39.20	97.00		
13	30.40	70.00	42.40	47.20	50.40	36.80	21.40	136.40	72.00	88.00	38.40	93.00		
14	46.40	50.40	51.20	54.70	84.00	29.00	20.80	81.00	76.00	83.00	36.80	106.00		
15	58.30	48.80	44.80	46.40	58.30	27.60	22.70	112.20	86.00	78.00	40.00	86.00		
16	32.50	78.00	40.00	48.00	70.00	29.70	78.00	97.00	89.00	74.00	54.70	80.00		
17	26.90	80.00	53.80	40.80	48.00	44.00	44.00	140.80	424.40	71.00	57.40	80.00		
18	29.70	66.40	70.00	37.60	37.60	41.60	49.60	206.00	537.30	68.20	44.00	85.00		
19	46.40	53.80	75.00	35.30	36.00	31.10	31.10	125.40	562.80	63.70	58.30	76.00		
20	36.80	72.00	126.50	33.90	40.00	33.90	44.80	113.30	294.10	60.10	44.00	93.00		
21	36.80	56.50	130.90	32.50	53.80	27.60	44.80	99.00	201.20	57.40	44.80	97.00		
22	78.00	71.00	71.00	31.10	65.50	29.70	32.50	84.00	178.40	54.70	36.80	112.20		
23	68.20	56.50	54.70	33.90	39.20	26.90	35.30	74.00	168.30	52.00	39.20	172.70		
24	48.80	45.60	49.60	31.80	33.20	23.40	88.00	129.80	152.90	51.20	105.00	176.00		
25	40.00	40.80	44.80	29.70	32.50	23.40	43.20	91.00	125.40	48.00	742.00	202.40		
26	40.00	40.00	43.20	27.60	40.00	25.50	35.30	85.00	113.30	46.40	2028.40	170.50		
27	61.90	41.60	73.00	26.20	77.00	40.80	34.60	77.00	104.00	44.00	1770.40	117.70		
28	76.00	43.20	100.00	25.50	54.70	56.50	45.60	98.00	96.00	41.60	1038.30	104.00		
29	81.00	59.20	92.00	24.10	51.20	39.20	100.00	127.60	92.00	40.00		91.00		
30	65.50	65.50	71.00	24.10	61.90	44.00	67.30	92.00	353.90	38.40		85.00		
31	67.30			23.40	144.10		57.40		436.00	36.80		91.00		
<b>Total</b>	1396.10	1856.30	2050.70	1484.40	1409.20	1207.50	1344.30	2627.70	6069.20	2887.10	6742.30	4372.70	33447.50	CMSDAY
<b>Mean</b>	46.54	59.88	68.36	47.88	45.46	40.25	43.36	87.59	195.78	93.13	240.80	141.05	91.64	CMS
<b>Max</b>	81.00	109.00	130.90	111.10	144.10	94.00	100.00	206.00	562.80	222.80	2028.40	466.00	2028.40	CMS
<b>Min</b>	26.20	40.00	40.00	23.40	18.40	23.40	20.80	34.60	72.00	36.80	33.90	76.00	18.40	CMS
<b>Runoff</b>	120.62	160.38	177.18	128.25	121.75	104.33	116.15	227.03	524.38	249.45	582.53	377.80	2889.86	MCM
<b>Momentary Peak</b>	2207.50 CMS. at 32.61 m. (MSL.) at 24.00 Hours , on Feb 25, 2022													
<b>Runoff Yield</b>	73.84 Liters/Second/Square KM.			<b>Momentary Peak Yield</b> 1778.81				Liters/Second/Square KM.						

## WATER YEAR : 2021

## Peninsula-Lower East Coast

## Kolok River at Ban Bu Kae Ta , Narathiwat (X.274)

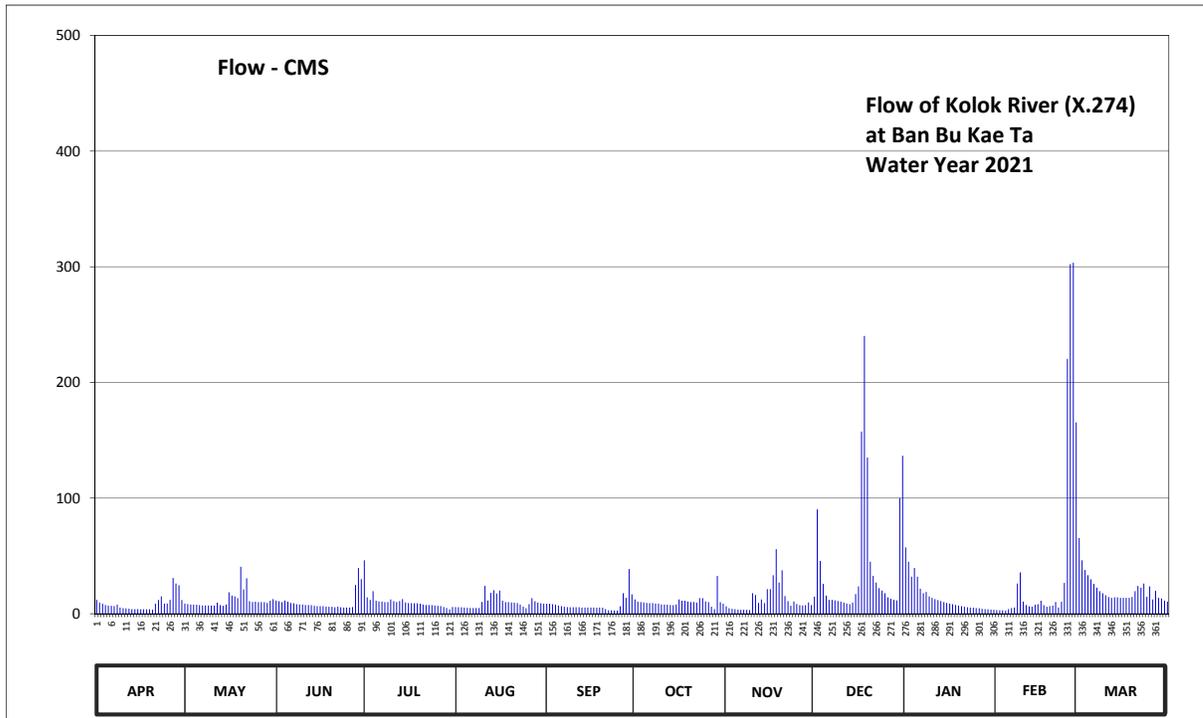
Lat 05 - 50 - 21 N Long 101 - 53 - 32 E

Location : on left bank at Ban Bu Kae Ta.

	Ban Bu Kae Ta	Amphoe Waeng	Changwat Narathiwat
<b>Drainage Area</b>	78 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	28.193 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 24.190 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.00	18.84	18.97	20.14	18.69	18.83	19.01	18.72	19.09	20.51	18.56	20.71	
2	18.88	18.82	18.94	19.07	18.68	18.83	18.92	18.64	21.33	20.10	18.55	20.14	
3	18.83	18.80	18.90	19.00	18.68	18.81	18.90	18.61	20.12	19.67	18.55	19.86	
4	18.78	18.79	18.97	19.25	18.67	18.79	18.89	18.60	19.46	19.92	18.54	19.71	
5	18.75	18.79	18.92	18.96	18.66	18.76	18.87	18.58	19.12	19.67	18.60	19.59	
6	18.74	18.77	18.87	18.93	18.65	18.73	18.86	18.57	19.00	19.32	18.65	19.46	
7	18.73	18.76	18.85	18.92	18.65	18.70	18.86	18.57	19.00	19.19	18.67	19.35	
8	18.79	18.76	18.81	18.90	18.65	18.69	18.84	18.57	18.98	19.23	19.47	19.25	
9	18.67	18.76	18.80	18.91	18.65	18.68	18.83	18.56	18.95	19.10	19.79	19.19	
10	18.64	18.75	18.80	19.01	18.91	18.68	18.80	19.19	18.92	19.06	18.92	19.13	
11	18.63	18.75	18.78	18.94	19.40	18.68	18.80	19.14	18.88	19.02	18.78	19.08	
12	18.62	18.88	18.78	18.91	18.97	18.68	18.79	18.87	18.84	18.99	18.72	19.06	
13	18.60	18.77	18.77	18.95	19.20	18.67	18.78	19.01	18.81	18.95	18.70	19.07	
14	18.60	18.74	18.74	19.02	19.28	18.67	18.77	18.86	18.88	18.91	18.79	19.07	
15	18.60	18.80	18.73	18.89	19.18	18.67	18.80	19.31	19.17	18.87	18.81	19.06	
16	18.59	19.22	18.73	18.86	19.27	18.67	19.01	19.31	19.39	18.84	18.96	19.06	
17	18.59	19.12	18.73	18.86	18.96	18.67	18.96	19.71	22.55	18.81	18.77	19.06	
18	18.59	19.10	18.71	18.85	18.90	18.66	18.96	20.46	23.41	18.78	18.70	19.06	
19	18.59	19.05	18.70	18.85	18.90	18.67	18.93	19.50	22.23	18.75	18.73	19.08	
20	18.57	19.95	18.70	18.83	18.89	18.66	18.90	19.85	20.10	18.73	18.75	19.25	
21	18.83	19.30	18.68	18.80	18.88	18.60	18.91	19.11	19.69	18.70	18.91	19.40	
22	19.00	19.62	18.71	18.78	18.86	18.55	18.88	18.94	19.50	18.68	18.67	19.35	
23	19.10	18.94	18.68	18.78	18.80	18.55	19.05	18.75	19.34	18.67	18.92	19.47	
24	18.84	18.91	18.67	18.77	18.71	18.54	19.05	18.93	19.27	18.66	19.49	19.09	
25	18.84	18.92	18.67	18.76	18.64	18.54	18.93	18.82	19.19	18.65	23.23	19.39	
26	19.00	18.90	18.67	18.74	18.81	18.72	18.90	18.77	19.07	18.64	23.96	19.01	
27	19.63	18.90	18.69	18.73	19.05	19.19	18.70	18.76	19.03	18.61	23.97	19.26	
28	19.47	18.90	19.43	18.69	18.94	19.06	18.60	18.77	19.00	18.60	22.65	19.06	
29	19.42	18.87	19.92	18.65	18.89	19.89	19.69	18.89	18.98	18.59		19.04	
30	18.99	18.96	19.60	18.59	18.85	19.16	18.90	18.78	21.57	18.58		18.97	
31		19.02		18.69	18.83		18.83		22.25	18.57		18.92	
Mean	18.83	18.95	18.86	18.90	18.87	18.77	18.90	18.97	19.78	19.01	19.49	19.30	
Max	19.63	19.95	19.92	20.14	19.40	19.89	19.69	20.46	23.41	20.51	23.97	20.71	23.97
Min	18.57	18.74	18.67	18.59	18.64	18.54	18.60	18.56	18.81	18.57	18.54	18.92	18.54
Annual Max Momentary Gage Height	24.73		m. (MSL.) ,				at 01.00 Hours ,		on Feb 26, 2022				
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	18.00	m. (MSL.)					
Left Bank Elevation		24.18	m. (MSL.) ,										
Right Bank Elevation		24.22	m. (MSL.) ,			Drainage Are	78	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.00	8.80	11.40	46.20	5.80	8.60	12.30	6.40	14.70	57.40	3.20	65.40	
2	9.60	8.40	10.80	14.10	5.60	8.60	10.40	4.80	90.20	45.00	3.00	46.20	
3	8.60	8.00	10.00	12.00	5.60	8.20	10.00	4.20	45.60	32.10	3.00	37.80	
4	7.60	7.80	11.40	19.50	5.40	7.80	9.80	4.00	25.80	39.60	2.80	33.30	
5	7.00	7.80	10.40	11.20	5.20	7.20	9.40	3.60	15.60	32.10	4.00	29.70	
6	6.80	7.40	9.40	10.60	5.00	6.60	9.20	3.40	12.00	21.60	5.00	25.80	
7	6.60	7.20	9.00	10.40	5.00	6.00	9.20	3.40	12.00	17.70	5.40	22.50	
8	7.80	7.20	8.20	10.00	5.00	5.80	8.80	3.40	11.60	18.90	26.10	19.50	
9	5.40	7.20	8.00	10.20	5.00	5.60	8.60	3.20	11.00	15.00	35.70	17.70	
10	4.80	7.00	8.00	12.30	10.20	5.60	8.00	17.70	10.40	13.80	10.40	15.90	
11	4.60	7.00	7.60	10.80	24.00	5.60	8.00	16.20	9.60	12.60	7.60	14.40	
12	4.40	9.60	7.60	10.20	11.40	5.60	7.80	9.40	8.80	11.80	6.40	13.80	
13	4.00	7.40	7.40	11.00	18.00	5.40	7.60	12.30	8.20	11.00	6.00	14.10	
14	4.00	6.80	6.80	12.60	20.40	5.40	7.40	9.20	9.60	10.20	7.80	14.10	
15	4.00	8.00	6.60	9.80	17.40	5.40	8.00	21.30	17.10	9.40	8.20	13.80	
16	3.80	18.60	6.60	9.20	20.10	5.40	12.30	21.30	23.70	8.80	11.20	13.80	
17	3.80	15.60	6.60	9.20	11.20	5.40	11.20	33.30	157.50	8.20	7.40	13.80	
18	3.80	15.00	6.20	9.00	10.00	5.20	11.20	55.80	240.10	7.60	6.00	13.80	
19	3.80	13.50	6.00	9.00	10.00	5.40	10.60	27.00	135.10	7.00	6.60	14.40	
20	3.40	40.50	6.00	8.60	9.80	5.20	10.00	37.50	45.00	6.60	7.00	19.50	
21	8.60	21.00	5.60	8.00	9.60	4.00	10.20	15.30	32.70	6.00	10.20	24.00	
22	12.00	30.60	6.20	7.60	9.20	3.00	9.60	10.80	27.00	5.60	5.40	22.50	
23	15.00	10.80	5.60	7.60	8.00	3.00	13.50	7.00	22.20	5.40	10.40	26.10	
24	8.80	10.20	5.40	7.40	6.20	2.80	13.50	10.60	20.10	5.20	26.70	14.70	
25	8.80	10.40	5.40	7.20	4.80	2.80	10.60	8.40	17.70	5.00	220.30	23.70	
26	12.00	10.00	5.40	6.80	8.20	6.40	10.00	7.40	14.10	4.80	302.20	12.30	
27	30.90	10.00	5.80	6.60	13.50	17.70	6.00	7.20	12.90	4.20	303.40	19.80	
28	26.10	10.00	24.90	5.80	10.80	13.80	4.00	7.40	12.00	4.00	165.50	13.80	
29	24.60	9.40	39.60	5.00	9.80	38.70	32.70	9.80	11.60	3.80		13.20	
30	11.80	11.20	30.00	3.80	9.00	16.80	10.00	7.60	99.80	3.60		11.40	
31		12.60		5.80	8.60		8.60		136.50	3.40		10.40	
<b>Total</b>	274.40	365.00	297.90	327.50	307.80	233.00	318.50	388.90	1310.20	437.40	1216.90	651.20	6128.70 CMSDAY
<b>Mean</b>	9.15	11.77	9.93	10.56	9.93	7.77	10.27	12.96	42.26	14.11	43.46	21.01	16.79 CMS
<b>Max</b>	30.90	40.50	39.60	46.20	24.00	38.70	32.70	55.80	240.10	57.40	303.40	65.40	303.40 CMS
<b>Min</b>	3.40	6.80	5.40	3.80	4.80	2.80	4.00	3.20	8.20	3.40	2.80	10.40	2.80 CMS
<b>Runoff</b>	23.71	31.54	25.74	28.30	26.59	20.13	27.52	33.60	113.20	37.79	105.14	56.26	529.52 MCM
<b>Momentary Peak</b>		413.80 CMS.		at 24.73 m. (MSL.) at 01.00 Hours , on Feb 26, 2022									
<b>Runoff Yield</b>		215.27	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>		5305.13	Liters/Second/Square KM.				

## WATER YEAR : 2021

## Peninsula-Lower East Coast

## Pattani River at Ban Pree Kee, Pattani (X.283)

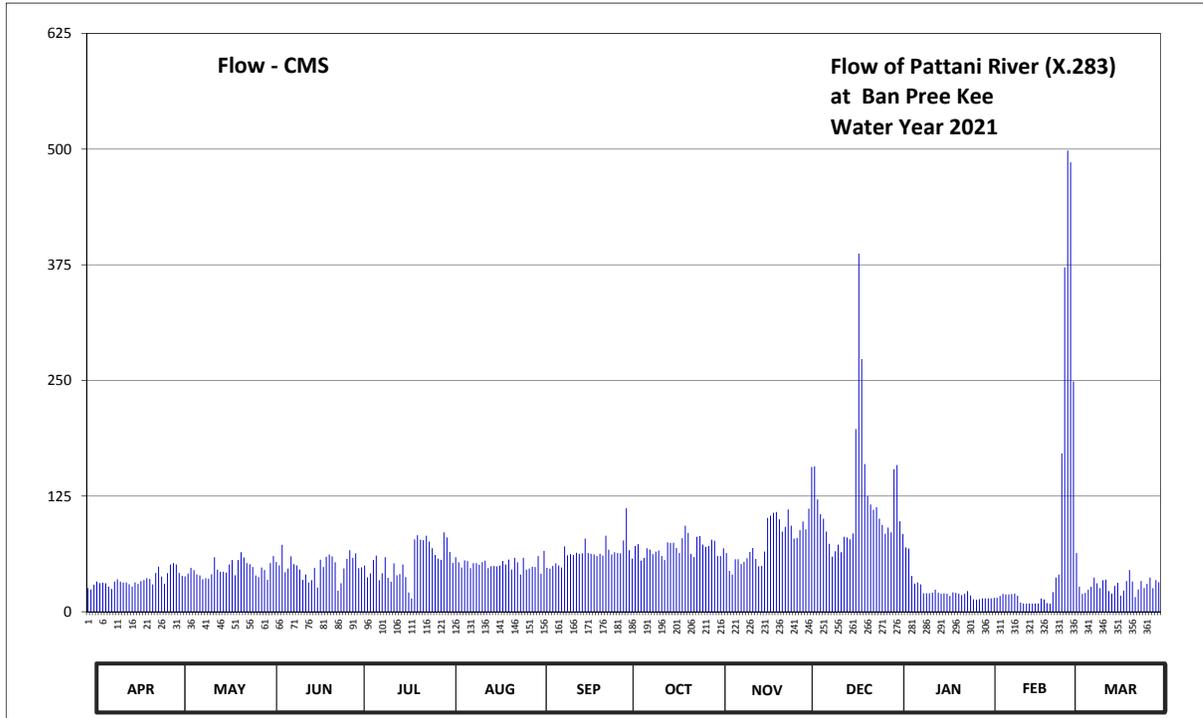
Lat 06 - 42 - 56 N Long 101 - 17 - 07 E

Location : on left bank at the bridge .

	<b>Ban Pree Kee</b>	<b>Amphoe Yarang</b>	<b>Changwat Pattani</b>
<b>Drainage Area</b>	3,527 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+11.400 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2019 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2019 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2019 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 7.520 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.42	6.60	5.88	6.90	5.18	4.68	5.97	4.68	5.40	6.97	4.85	10.33	
2	5.35	6.25	6.64	6.47	4.79	4.07	4.84	4.68	5.96	5.62	4.85	9.22	
3	5.61	6.09	6.83	6.50	4.46	4.82	4.61	4.89	6.93	5.27	4.89	6.91	
4	5.78	6.06	6.67	6.56	4.65	4.28	4.95	4.76	6.94	4.91	4.91	5.50	
5	5.70	6.21	6.57	6.01	4.48	4.25	5.00	4.17	6.21	4.88	5.00	5.11	
6	5.72	6.48	7.12	6.22	4.29	4.35	4.54	4.04	5.81	6.08	5.11	5.16	
7	5.69	6.39	6.28	6.72	4.55	4.44	4.63	4.59	5.69	5.67	5.09	5.34	
8	5.51	6.16	6.45	6.84	4.53	4.37	4.89	4.59	5.34	5.73	5.09	5.50	
9	5.39	6.11	6.82	5.85	4.27	4.29	4.85	4.42	5.01	5.63	5.10	6.00	
10	5.78	5.90	6.61	6.23	4.45	4.94	4.73	4.50	4.66	5.15	5.13	5.69	
11	5.90	5.96	6.57	6.80	4.45	4.70	4.80	4.62	4.81	5.15	5.02	5.42	
12	5.77	5.93	6.42	5.98	4.39	4.73	4.83	4.79	4.99	5.15	4.38	5.85	
13	5.73	6.18	5.87	5.77	4.49	4.71	4.68	4.90	4.78	5.18	4.30	5.89	
14	5.73	6.80	6.16	6.63	4.54	4.77	4.56	4.60	5.20	5.34	4.28	5.27	
15	5.64	6.42	5.73	6.12	4.27	4.74	5.05	4.34	5.18	5.18	4.29	5.13	
16	5.51	6.31	5.86	6.19	4.34	4.75	5.03	4.35	5.13	5.12	4.28	5.54	
17	5.73	6.31	6.48	6.60	4.35	5.15	5.04	4.80	5.29	5.15	4.29	5.71	
18	5.65	6.26	5.46	6.02	4.33	4.76	4.90	5.71	7.62	5.12	4.30	5.02	
19	5.81	6.60	6.73	5.19	4.36	4.74	4.76	5.77	9.50	5.00	4.83	5.29	
20	5.86	6.72	6.51	4.84	4.53	4.72	5.16	5.85	8.53	5.20	4.72	5.81	
21	5.96	6.12	6.81	5.13	4.40	4.68	5.50	5.87	6.99	5.17	4.32	6.40	
22	5.92	6.72	6.87	5.24	4.58	4.74	5.30	5.67	6.30	5.13	4.27	5.78	
23	5.63	6.93	6.82	5.12	4.22	4.69	4.74	5.34	6.07	5.05	5.21	4.94	
24	6.25	6.79	6.66	5.11	4.63	5.23	4.65	5.47	5.93	5.12	6.00	5.35	
25	6.52	6.64	5.28	5.23	4.48	4.85	5.20	5.94	6.00	5.27	6.16	5.81	
26	6.05	6.61	5.69	5.07	4.04	4.72	5.22	5.50	5.69	5.03	8.59	5.43	
27	5.66	6.51	6.46	4.89	4.63	4.78	4.99	5.15	5.52	4.74	9.91	5.65	
28	6.24	6.11	6.75	4.71	4.22	4.76	4.93	5.17	5.28	4.71	10.37	6.00	
29	6.60	6.02	6.99	4.61	4.25	4.75	4.95	5.38	5.45	4.75		5.42	
30	6.64	6.49	6.78	4.57	4.32	5.10	5.12	5.61	5.32	4.84		5.86	
31		6.40		5.32	4.31		5.09		6.88	4.85		5.74	
Mean	5.83	6.36	6.43	5.79	4.44	4.69	4.95	5.00	5.95	5.23	5.34	5.87	
Max	6.64	6.93	7.12	6.90	5.18	5.23	5.97	5.94	9.50	6.97	10.37	10.33	10.37
Min	5.35	5.90	5.28	4.57	4.04	4.07	4.54	4.04	4.66	4.71	4.27	4.94	4.04
Annual Max Momentary Gage Height	10.46		m. (MSL.) ,				at 22.00 Hours ,						on Feb 28, 2022
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.08	m. (MSL.)					
Left Bank Elevation		7.51	m. (MSL.) ,										
Right Bank Elevation		10.09	m. (MSL.) ,			Drainage Are	3,527	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.40	51.00	34.60	63.00	80.20	60.20	111.80	60.20	89.00	158.50	14.50	485.60		
2	24.00	42.00	52.60	47.10	64.60	41.10	66.60	60.20	111.40	97.80	14.50	249.00		
3	29.20	38.80	60.20	48.00	52.80	65.80	57.40	68.60	156.50	83.80	14.90	63.40		
4	32.60	38.20	53.80	49.80	59.00	47.40	71.00	63.40	157.00	69.40	15.20	27.00		
5	31.00	41.20	50.10	37.20	53.40	46.50	73.00	44.10	121.40	68.20	17.00	19.20		
6	31.40	47.40	72.40	41.40	47.70	49.50	55.20	40.20	105.40	38.60	19.20	20.20		
7	30.80	44.80	42.60	55.80	55.50	52.20	58.20	56.70	100.60	30.40	18.80	23.80		
8	27.20	40.20	46.50	60.60	54.90	50.10	68.60	56.70	86.60	31.60	18.80	27.00		
9	24.80	39.20	59.80	34.00	47.10	47.70	67.00	51.60	73.40	29.60	19.00	37.00		
10	32.60	35.00	51.40	41.60	52.50	70.60	62.20	54.00	59.40	20.00	19.60	30.80		
11	35.00	36.20	50.10	59.00	52.50	61.00	65.00	57.80	65.40	20.00	17.40	25.40		
12	32.40	35.60	45.60	36.60	50.70	62.20	66.20	64.60	72.60	20.00	9.80	34.00		
13	31.60	40.60	34.40	32.40	53.70	61.40	60.20	69.00	64.20	20.60	9.00	34.80		
14	31.60	59.00	40.20	52.20	55.20	63.80	55.80	57.00	81.00	23.80	8.80	22.40		
15	29.80	45.60	31.60	39.40	47.10	62.60	75.00	49.20	80.20	20.60	8.90	19.60		
16	27.20	43.20	34.20	40.80	49.20	63.00	74.20	49.50	78.20	19.40	8.80	27.80		
17	31.60	43.20	47.40	51.00	49.50	79.00	74.60	65.00	84.60	20.00	8.90	31.20		
18	30.00	42.20	26.20	37.40	48.90	63.40	69.00	101.40	197.40	19.40	9.00	17.40		
19	33.20	51.00	56.20	20.80	49.80	62.60	63.40	103.80	387.00	17.00	14.30	22.80		
20	34.20	55.80	48.30	14.40	54.90	61.80	79.40	107.00	273.00	21.00	13.20	33.20		
21	36.20	39.40	59.40	78.20	51.00	60.20	93.00	107.80	159.50	20.40	9.20	45.00		
22	35.40	55.80	61.80	82.60	56.40	62.60	85.00	99.80	125.00	19.60	8.70	32.60		
23	29.60	64.20	59.80	77.80	45.60	60.60	62.60	86.60	115.80	18.00	21.20	15.80		
24	42.00	58.60	53.40	77.40	58.20	82.20	59.00	91.80	110.20	19.40	37.00	24.00		
25	48.60	52.60	22.60	82.20	53.40	67.00	81.00	110.60	113.00	22.40	40.20	33.20		
26	38.00	51.40	30.80	75.80	40.20	61.80	81.80	93.00	100.60	17.60	171.10	25.60		
27	30.20	48.30	46.80	68.60	58.20	64.20	72.60	79.00	93.80	13.40	372.00	30.00		
28	41.80	39.20	57.00	61.40	45.60	63.40	70.20	79.80	84.20	13.10	498.40	37.00		
29	51.00	37.40	66.60	57.40	46.50	63.00	71.00	88.20	91.00	13.50		25.40		
30	52.60	47.70	58.20	56.10	48.60	77.00	77.80	97.40	85.80	14.40		34.20		
31		45.00		85.80	48.30		76.60		154.00	14.50		31.80		
<b>Total</b>	1011.00	1409.80	1454.60	1665.80	1631.20	1833.90	2204.40	2214.00	3677.20	1016.00	1437.40	1586.20	21141.50	CMSDAY
<b>Mean</b>	33.70	45.48	48.49	53.74	52.62	61.13	71.11	73.80	118.62	32.77	51.34	51.17	57.92	CMS
<b>Max</b>	52.60	64.20	72.40	85.80	80.20	82.20	111.80	110.60	387.00	158.50	498.40	485.60	498.40	CMS
<b>Min</b>	24.00	35.00	22.60	14.40	40.20	41.10	55.20	40.20	59.40	13.10	8.70	15.80	8.70	CMS
<b>Runoff</b>	87.35	121.81	125.68	143.93	140.94	158.45	190.46	191.29	317.71	87.78	124.19	137.05	1826.63	MCM
<b>Momentary Peak</b>	528.40 CMS. at 10.46 m. (MSL.) at 22.00 Hours , on Feb 28, 2022													
<b>Runoff Yield</b>	16.42 Liters/Second/Square KM.			Momentary Peak Yield			149.82 Liters/Second/Square KM.							





## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlong Lamphu La at Ban Lamphu La , Trang (X.110)

Lat 07 - 40 - 31 N Long 99 - 34 - 55 E

Location : on left bank at Ban Lamphu La.

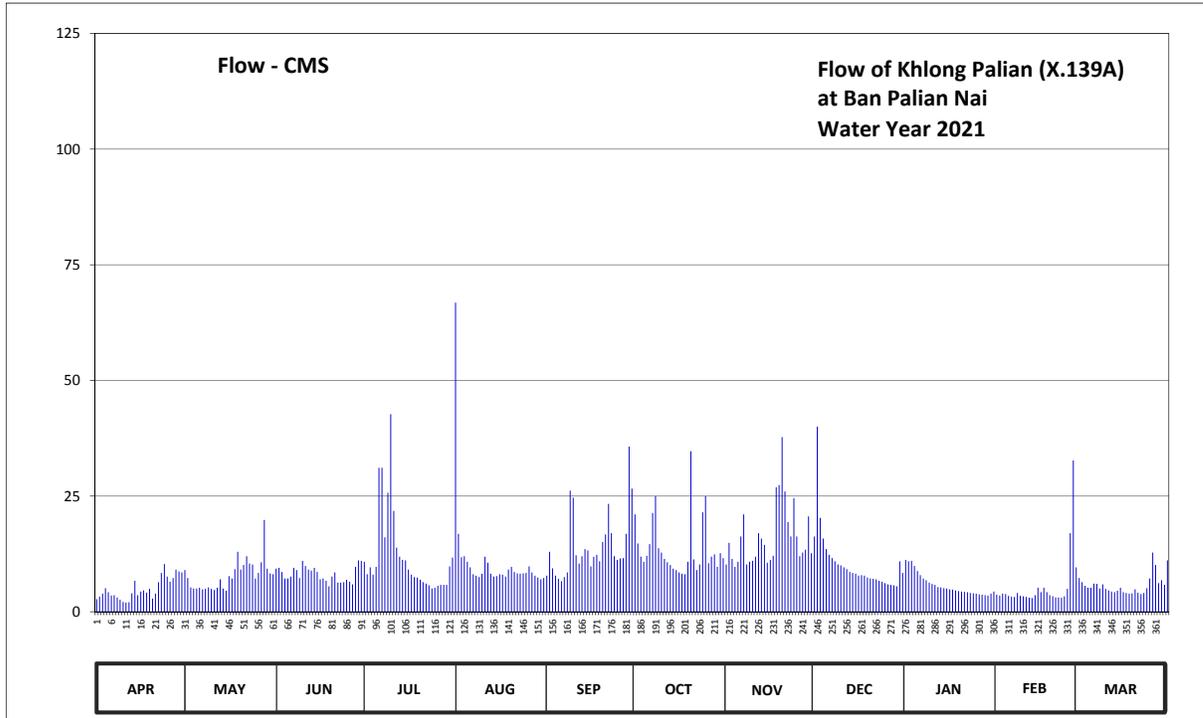
	<b>Ban</b>	Lamphu La	<b>Amphoe</b>	Huai Yot	<b>Changwat</b>	Trang
<b>Drainage Area</b>	257	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the top staff gage.				<b>Elevation</b>	+17.544 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	5-time daily at 06.00,09.00,12.00,15.00 and 18.00 hours.					
<b>Period of Available Gage Records</b>	1979-1989 ,2021 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1979-1989 ,2021 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	1979-1989 ,2021 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.51	10.86	10.71	10.50	11.91	10.76	11.36	11.05	11.95	10.98	10.65	11.44	
2	10.48	10.78	10.72	10.50	11.16	10.75	11.03	11.07	14.17	10.93	10.64	11.16	
3	10.49	10.68	10.66	10.49	10.94	10.76	10.93	11.07	12.61	11.13	10.62	11.04	
4	10.46	10.69	10.62	10.55	10.93	10.76	10.93	10.98	12.14	11.00	10.65	10.95	
5	10.48	10.65	10.62	10.51	10.85	10.71	11.18	11.14	11.80	10.96	10.64	10.91	
6	10.46	10.60	10.61	11.58	10.77	10.68	10.93	11.00	11.60	10.90	10.62	10.89	
7	10.45	10.60	10.58	11.15	10.72	10.66	11.01	13.46	11.47	10.85	10.62	10.95	
8	10.44	10.57	10.57	10.80	10.68	10.65	12.31	11.44	11.37	10.81	10.60	10.85	
9	10.44	10.56	10.55	11.40	10.65	11.10	11.96	11.26	11.30	10.80	10.63	10.85	
10	10.44	10.55	10.55	11.69	10.73	11.32	11.40	11.22	11.24	10.78	10.63	10.80	
11	10.44	10.53	10.56	11.49	11.01	10.96	11.14	11.22	11.23	10.77	10.63	10.77	
12	10.44	10.52	10.58	11.15	11.07	10.84	11.01	12.20	11.16	10.78	10.61	10.75	
13	10.44	10.60	10.60	10.89	10.86	10.95	10.94	12.56	11.11	10.72	10.59	10.73	
14	10.60	10.56	10.64	10.85	10.98	10.92	10.88	11.92	11.09	10.73	10.60	10.72	
15	10.53	10.70	10.64	10.87	10.89	11.51	10.83	11.62	11.05	10.72	10.68	10.89	
16	10.75	10.79	10.60	10.80	10.82	11.07	10.79	11.45	11.01	10.71	11.15	10.74	
17	10.77	10.78	10.65	10.74	11.36	10.93	10.82	11.51	10.98	10.69	11.51	10.70	
18	10.62	10.73	10.60	10.70	12.43	10.87	10.86	12.02	10.99	10.68	10.86	10.68	
19	10.58	10.75	10.56	10.68	11.35	10.88	10.78	12.03	11.01	10.66	10.82	10.69	
20	10.55	10.92	10.54	10.66	11.07	11.06	11.62	11.60	11.01	10.66	10.78	10.91	
21	10.56	10.89	10.57	10.64	11.05	10.98	11.18	11.39	10.96	10.66	10.87	11.10	
22	10.58	10.93	10.56	10.62	11.25	11.17	10.95	11.28	10.93	10.67	10.71	10.81	
23	10.61	10.83	10.52	10.61	11.03	11.42	11.43	11.41	10.92	10.67	10.66	10.78	
24	10.67	10.74	10.51	10.60	10.91	11.06	12.15	11.72	10.91	10.65	10.67	10.76	
25	10.56	10.67	10.53	10.66	10.86	10.96	12.32	11.56	10.91	10.65	11.37	10.77	
26	10.58	10.67	10.52	10.61	10.91	11.02	12.22	11.54	10.86	10.64	11.18	11.51	
27	10.91	10.72	10.52	10.60	11.28	10.95	11.65	11.38	10.87	10.63	12.87	11.03	
28	10.79	10.96	10.51	10.59	11.00	11.02	12.30	11.40	10.86	10.63	12.05	11.01	
29	11.23	10.77	10.50	10.75	10.88	11.75	11.42	12.66	10.86	10.64		10.88	
30	10.92	10.70	10.50	10.80	10.83	11.18	11.21	12.97	10.86	10.71		10.91	
31		10.69		10.84	10.83		11.12		11.23	10.71		10.98	
Mean	10.59	10.71	10.58	10.82	11.03	10.99	11.31	11.64	11.31	10.76	10.89	10.90	
Max	11.23	10.96	10.72	11.69	12.43	11.75	12.32	13.46	14.17	11.13	12.87	11.51	14.17
Min	10.44	10.52	10.50	10.49	10.65	10.65	10.78	10.98	10.86	10.63	10.59	10.68	10.44
Annual Max Momentary Gage Height	14.39		m. (MSL.) ,				at 18.00 Hours ,						on Dec 2, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	10.11	m. (MSL.)					
Left Bank Elevation		14.85	m. (MSL.) ,										
Right Bank Elevation		14.68	m. (MSL.) ,		Drainage Are	257	Square Kilometers						







**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	9.00	9.30	10.80	66.80	7.80	21.05	10.20	16.25	11.20	3.66	7.30		
2	3.26	7.30	9.50	8.10	16.85	12.95	14.75	14.90	40.00	10.90	3.50	6.40		
3	3.90	5.26	8.60	9.60	11.80	9.40	11.90	11.40	20.30	11.00	3.90	5.60		
4	5.10	5.02	7.20	8.00	12.00	7.80	10.80	9.70	15.80	9.90	3.82	5.18		
5	4.22	5.02	7.20	9.70	10.80	7.10	12.10	10.80	13.55	8.80	3.42	5.18		
6	3.50	5.18	7.60	31.10	9.60	6.60	14.60	16.25	12.30	7.90	3.26	6.10		
7	3.58	4.86	9.50	31.10	8.10	7.50	21.35	21.05	11.60	7.20	3.18	6.00		
8	3.10	4.94	9.00	16.10	7.80	8.50	24.95	10.20	10.90	6.80	4.06	5.02		
9	2.62	5.26	7.30	25.70	7.50	26.15	13.70	10.80	10.20	6.30	3.42	5.90		
10	2.14	4.94	11.00	42.70	8.20	24.65	12.80	11.00	10.00	6.00	3.34	4.94		
11	1.98	4.70	9.90	21.80	11.90	12.20	11.40	11.90	9.60	5.80	3.18	4.62		
12	2.06	5.18	9.10	13.85	10.60	10.40	10.70	17.00	9.20	5.34	3.02	4.38		
13	3.98	7.00	8.90	11.90	8.20	12.00	10.10	15.80	8.60	5.26	2.94	4.22		
14	6.70	5.02	9.50	11.20	7.60	13.55	9.30	14.45	8.40	5.10	3.58	4.54		
15	3.58	4.54	8.60	11.10	7.70	13.25	9.00	10.60	8.20	5.02	5.18	5.18		
16	4.38	7.70	7.00	9.10	8.10	9.80	8.50	11.20	7.80	4.86	4.22	4.22		
17	4.62	7.20	7.20	8.00	8.00	11.90	8.20	12.10	7.90	4.78	5.18	4.06		
18	4.14	9.20	6.70	7.50	7.60	12.30	8.10	26.90	7.80	4.62	4.22	3.90		
19	4.94	12.95	5.50	7.40	9.10	10.90	10.80	27.35	7.40	4.46	3.58	3.98		
20	2.86	9.10	7.60	6.90	9.70	15.05	34.70	37.75	7.20	4.38	3.34	4.86		
21	3.90	10.10	8.50	6.40	8.60	16.70	11.30	26.00	7.10	4.30	3.10	4.14		
22	6.40	12.00	6.30	6.10	8.30	23.30	9.00	19.40	7.00	4.22	3.10	3.82		
23	8.40	10.40	6.30	5.70	8.20	17.00	10.20	16.25	6.70	4.06	3.02	4.06		
24	10.30	10.20	6.40	5.02	8.30	12.00	21.50	24.50	6.50	3.98	3.34	5.10		
25	7.60	7.20	6.90	5.18	8.40	11.20	24.95	16.25	6.20	3.90	4.94	7.20		
26	6.50	8.40	6.50	5.60	9.80	11.50	10.50	12.00	5.90	3.74	17.00	12.80		
27	7.30	10.70	5.90	5.80	8.50	11.60	11.90	12.80	5.80	3.66	32.70	10.10		
28	9.10	19.85	9.70	5.80	7.80	16.85	12.40	13.40	5.70	3.58	9.60	6.20		
29	8.70	9.30	11.10	5.80	7.40	35.70	9.70	20.60	5.50	3.50		6.80		
30	8.50	8.30	11.00	9.80	7.00	26.60	12.65	12.65	10.90	3.90		5.80		
31		8.10		11.70	7.30		11.60		8.40	4.38		11.10		
<b>Total</b>	150.06	243.92	244.80	374.55	337.55	422.25	424.50	485.20	318.70	178.84	150.80	178.70	3509.87	CMSDAY
<b>Mean</b>	5.00	7.87	8.16	12.08	10.89	14.08	13.69	16.17	10.28	5.77	5.39	5.76	9.62	CMS
<b>Max</b>	10.30	19.85	11.10	42.70	66.80	35.70	34.70	37.75	40.00	11.20	32.70	12.80	66.80	CMS
<b>Min</b>	1.98	4.54	5.50	5.02	7.00	6.60	8.10	9.70	5.50	3.50	2.94	3.82	1.98	CMS
<b>Runoff</b>	12.97	21.07	21.15	32.36	29.16	36.48	36.68	41.92	27.54	15.45	13.03	15.44	303.25	MCM
<b>Momentary Peak</b>	133.40 CMS. at 4.79 m. (A.D.) at 05.00 Hours , on Aug 1, 2021													
<b>Runoff Yield</b>	60.48 Liters/Second/Square KM. Momentary Peak Yield 838.99 Liters/Second/Square KM.													

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlong Lam Lon at Ban U-Dai Tai , Satun (X.148)

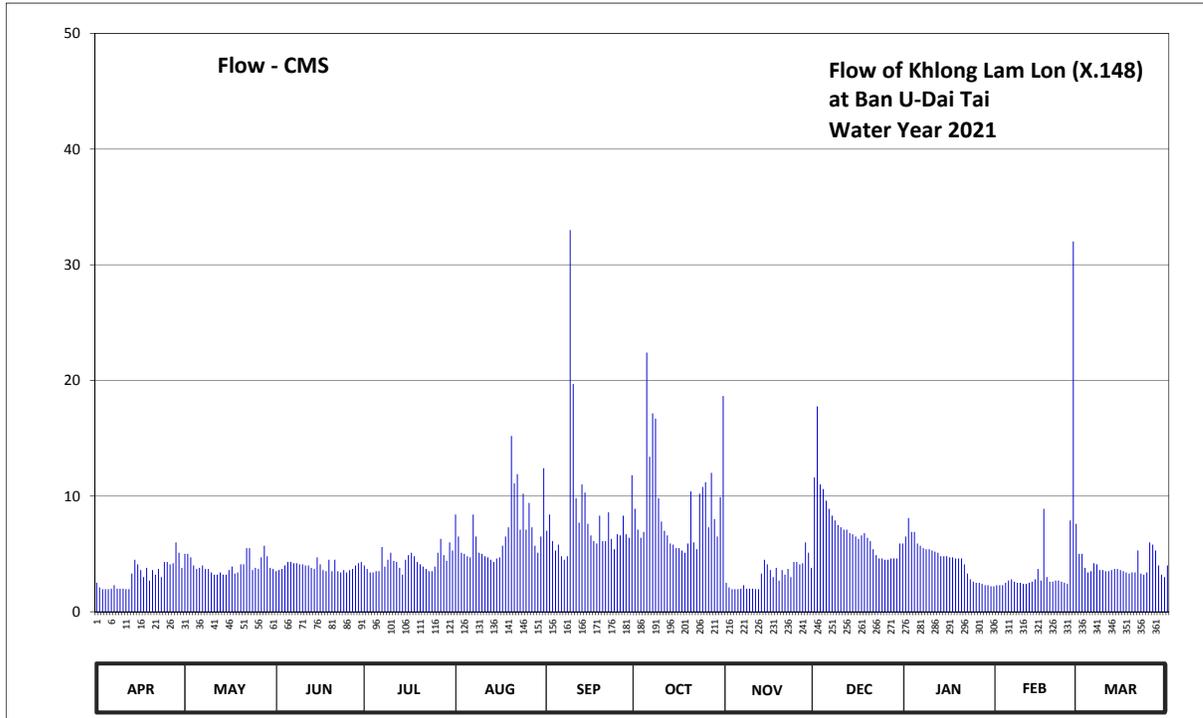
Lat 06 - 55 - 42 N Long 99 - 56 - 09 E

Location : on right bank at Ban U-Dai Tai.

	<b>Ban U-Dai Tai</b>	<b>Amphoe Khuan Ka Long</b>	<b>Changwat Satun</b>
<b>Drainage Area</b>	157 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Beside the teremeter fort.	<b>Elevation</b>	+31.806 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	5-time daily reading at 06.00,09.00,12.00,15.00,18.00 hours.		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2021 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2021 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.45	23.70	23.55	23.60	24.04	23.90	24.09	23.45	24.36	23.85	23.43	23.70	
2	23.41	23.70	23.56	23.57	23.85	24.04	23.91	23.41	24.85	24.01	23.43	23.70	
3	23.39	23.67	23.57	23.54	23.71	23.81	23.84	23.39	24.30	23.89	23.43	23.58	
4	23.39	23.60	23.60	23.54	23.70	23.73	23.89	23.39	24.26	23.89	23.45	23.54	
5	23.39	23.57	23.63	23.55	23.68	23.78	25.12	23.39	24.16	23.79	23.47	23.55	
6	23.40	23.58	23.63	23.55	23.67	23.68	24.54	23.40	24.09	23.77	23.48	23.62	
7	23.43	23.60	23.62	23.76	24.04	23.65	24.81	23.43	24.03	23.75	23.46	23.61	
8	23.40	23.57	23.62	23.59	23.85	23.68	24.78	23.40	23.99	23.74	23.45	23.56	
9	23.40	23.57	23.61	23.65	23.71	25.65	24.18	23.40	23.95	23.74	23.45	23.56	
10	23.40	23.54	23.61	23.71	23.70	24.98	23.98	23.40	23.93	23.73	23.44	23.55	
11	23.39	23.52	23.60	23.64	23.68	24.18	23.90	23.39	23.91	23.72	23.44	23.55	
12	23.39	23.52	23.60	23.63	23.67	23.97	23.86	23.39	23.91	23.71	23.45	23.56	
13	23.53	23.54	23.58	23.58	23.65	24.30	23.79	23.53	23.88	23.68	23.46	23.57	
14	23.65	23.52	23.57	23.52	23.63	24.23	23.78	23.65	23.87	23.68	23.48	23.57	
15	23.61	23.52	23.67	23.65	23.66	23.96	23.75	23.61	23.85	23.68	23.57	23.56	
16	23.56	23.56	23.61	23.69	23.67	23.86	23.75	23.56	23.83	23.67	23.47	23.55	
17	23.50	23.59	23.56	23.71	23.77	23.81	23.73	23.50	23.86	23.67	24.09	23.54	
18	23.58	23.53	23.55	23.68	23.85	23.79	23.71	23.58	23.88	23.66	23.50	23.53	
19	23.47	23.54	23.65	23.63	23.93	24.03	23.79	23.47	23.84	23.66	23.46	23.54	
20	23.56	23.61	23.55	23.61	24.68	23.81	24.24	23.56	23.81	23.66	23.46	23.54	
21	23.52	23.61	23.65	23.59	24.31	23.81	23.80	23.52	23.74	23.61	23.47	23.73	
22	23.57	23.75	23.55	23.57	24.39	24.06	23.74	23.57	23.69	23.53	23.47	23.53	
23	23.50	23.75	23.54	23.55	23.91	23.83	24.22	23.50	23.66	23.48	23.46	23.52	
24	23.63	23.56	23.56	23.55	24.22	23.74	24.28	23.63	23.66	23.46	23.45	23.54	
25	23.63	23.58	23.54	23.59	23.91	23.87	24.32	23.63	23.65	23.45	23.44	23.80	
26	23.61	23.57	23.56	23.71	24.14	23.86	23.93	23.61	23.65	23.45	23.99	23.78	
27	23.62	23.67	23.57	23.83	23.93	24.03	24.40	23.62	23.66	23.44	25.60	23.73	
28	23.80	23.77	23.60	23.69	23.77	23.87	24.00	23.80	23.66	23.43	23.96	23.60	
29	23.71	23.68	23.62	23.64	23.71	23.84	23.85	23.71	23.66	23.43		23.52	
30	23.58	23.58	23.63	23.80	23.85	24.38	24.19	23.58	23.79	23.42		23.50	
31		23.57		23.73	24.44		24.91		23.79	23.42		23.60	
Mean	23.52	23.60	23.59	23.63	23.89	24.00	24.10	23.52	23.91	23.65	23.60	23.59	
Max	23.80	23.77	23.67	23.83	24.68	25.65	25.12	23.80	24.85	24.01	25.60	23.80	25.65
Min	23.39	23.52	23.54	23.52	23.63	23.65	23.71	23.39	23.65	23.42	23.43	23.50	23.39
Annual Max Momentary Gage Height	26.65		m. (MSL.) ,				at 18.00 Hours , on Aug 20, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	22.53	m. (MSL.)					
Left Bank Elevation		29.65		m. (MSL.) ,									
Right Bank Elevation		32.78		m. (MSL.) ,		Drainage Are	157	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	5.00	3.50	4.00	8.40	7.00	8.90	2.50	11.60	6.50	2.30	5.00	
2	2.10	5.00	3.60	3.70	6.50	8.40	7.10	2.10	17.75	8.10	2.30	5.00	
3	1.95	4.70	3.70	3.40	5.10	6.10	6.40	1.95	11.00	6.90	2.30	3.80	
4	1.95	4.00	4.00	3.40	5.00	5.30	6.90	1.95	10.60	6.90	2.50	3.40	
5	1.95	3.70	4.30	3.50	4.80	5.80	22.40	1.95	9.60	5.90	2.70	3.50	
6	2.00	3.80	4.30	3.50	4.70	4.80	13.40	2.00	8.90	5.70	2.80	4.20	
7	2.30	4.00	4.20	5.60	8.40	4.50	17.15	2.30	8.30	5.50	2.60	4.10	
8	2.00	3.70	4.20	3.90	6.50	4.80	16.70	2.00	7.90	5.40	2.50	3.60	
9	2.00	3.70	4.10	4.50	5.10	33.00	9.80	2.00	7.50	5.40	2.50	3.60	
10	2.00	3.40	4.10	5.10	5.00	19.70	7.80	2.00	7.30	5.30	2.40	3.50	
11	1.95	3.20	4.00	4.40	4.80	9.80	7.00	1.95	7.10	5.20	2.40	3.50	
12	1.95	3.20	4.00	4.30	4.70	7.70	6.60	1.95	7.10	5.10	2.50	3.60	
13	3.30	3.40	3.80	3.80	4.50	11.00	5.90	3.30	6.80	4.80	2.60	3.70	
14	4.50	3.20	3.70	3.20	4.30	10.30	5.80	4.50	6.70	4.80	2.80	3.70	
15	4.10	3.20	4.70	4.50	4.60	7.60	5.50	4.10	6.50	4.80	3.70	3.60	
16	3.60	3.60	4.10	4.90	4.70	6.60	5.50	3.60	6.30	4.70	2.70	3.50	
17	3.00	3.90	3.60	5.10	5.70	6.10	5.30	3.00	6.60	4.70	8.90	3.40	
18	3.80	3.30	3.50	4.80	6.50	5.90	5.10	3.80	6.80	4.60	3.00	3.30	
19	2.70	3.40	4.50	4.30	7.30	8.30	5.90	2.70	6.40	4.60	2.60	3.40	
20	3.60	4.10	3.50	4.10	15.20	6.10	10.40	3.60	6.10	4.60	2.60	3.40	
21	3.20	4.10	4.50	3.90	11.10	6.10	6.00	3.20	5.40	4.10	2.70	5.30	
22	3.70	5.50	3.50	3.70	11.90	8.60	5.40	3.70	4.90	3.30	2.70	3.30	
23	3.00	5.50	3.40	3.50	7.10	6.30	10.20	3.00	4.60	2.80	2.60	3.20	
24	4.30	3.60	3.60	3.50	10.20	5.40	10.80	4.30	4.60	2.60	2.50	3.40	
25	4.30	3.80	3.40	3.90	7.10	6.70	11.20	4.30	4.50	2.50	2.40	6.00	
26	4.10	3.70	3.60	5.10	9.40	6.60	7.30	4.10	4.50	2.50	7.90	5.80	
27	4.20	4.70	3.70	6.30	7.30	8.30	12.00	4.20	4.60	2.40	32.00	5.30	
28	6.00	5.70	4.00	4.90	5.70	6.70	8.00	6.00	4.60	2.30	7.60	4.00	
29	5.10	4.80	4.20	4.40	5.10	6.40	6.50	5.10	4.60	2.30		3.20	
30	3.80	3.80	4.30	6.00	6.50	11.80	9.90	3.80	5.90	2.20		3.00	
31		3.70		5.30	12.40		18.65		5.90	2.20		4.00	
<b>Total</b>	94.95	124.40	117.60	134.50	215.60	251.70	285.50	94.95	220.95	138.70	119.10	121.30	1919.25 CMSDAY
<b>Mean</b>	3.17	4.01	3.92	4.34	6.95	8.39	9.21	3.17	7.13	4.47	4.25	3.91	5.26 CMS
<b>Max</b>	6.00	5.70	4.70	6.30	15.20	33.00	22.40	6.00	17.75	8.10	32.00	6.00	33.00 CMS
<b>Min</b>	1.95	3.20	3.40	3.20	4.30	4.50	5.10	1.95	4.50	2.20	2.30	3.00	1.95 CMS
<b>Runoff</b>	8.20	10.75	10.16	11.62	18.63	21.75	24.67	8.20	19.09	11.98	10.29	10.48	165.82 MCM
<b>Momentary Peak</b>	53.00 CMS. at 26.65 m. (MSL.) at 18.00 Hours , on Aug 20, 2021												
<b>Runoff Yield</b>	33.49 Liters/Second/Square KM.			Momentary Peak Yield 337.58 Liters/Second/Square KM.									

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlong Langu at Ban Wang Pa Khian , Satun (X.150)

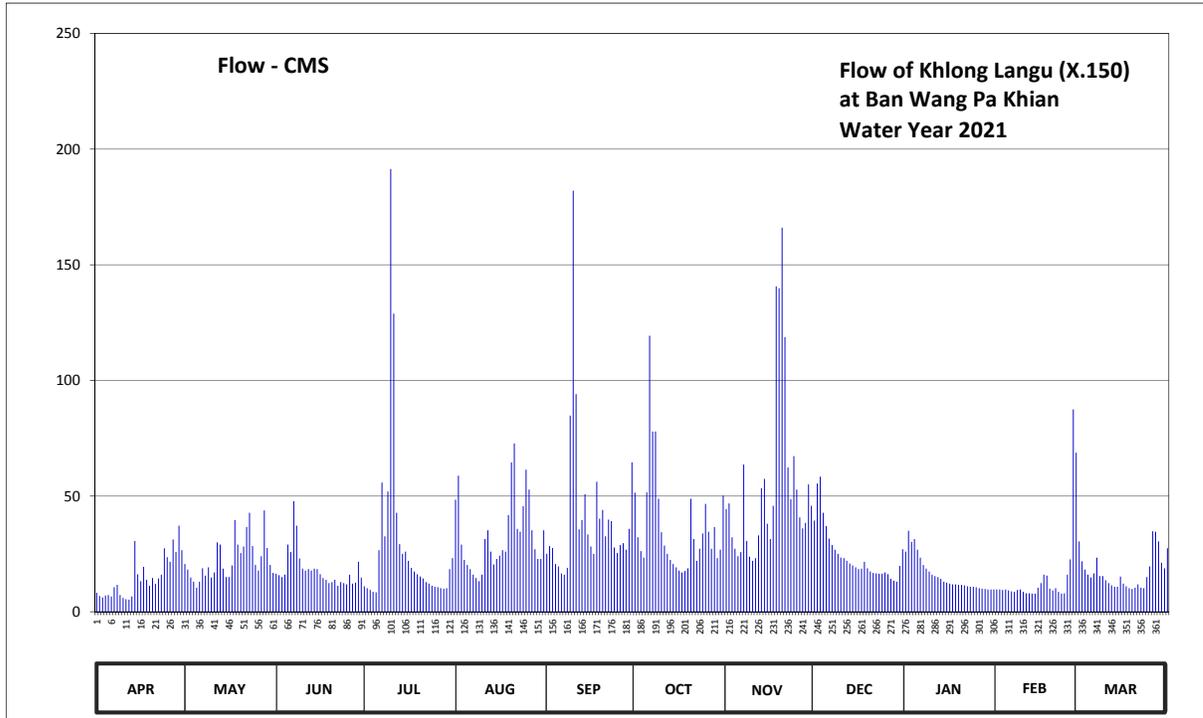
Lat 06 - 56 - 27 N Long 99 - 52 - 22 E

Location : on right bank at Ban Wang Pa Khian.

	Ban Wang Pa Khian	Amphoe Langu	Changwat Satun
<b>Drainage Area</b>	517 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On the footpath on the left side above the water.	<b>Elevation</b>	+16.164 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

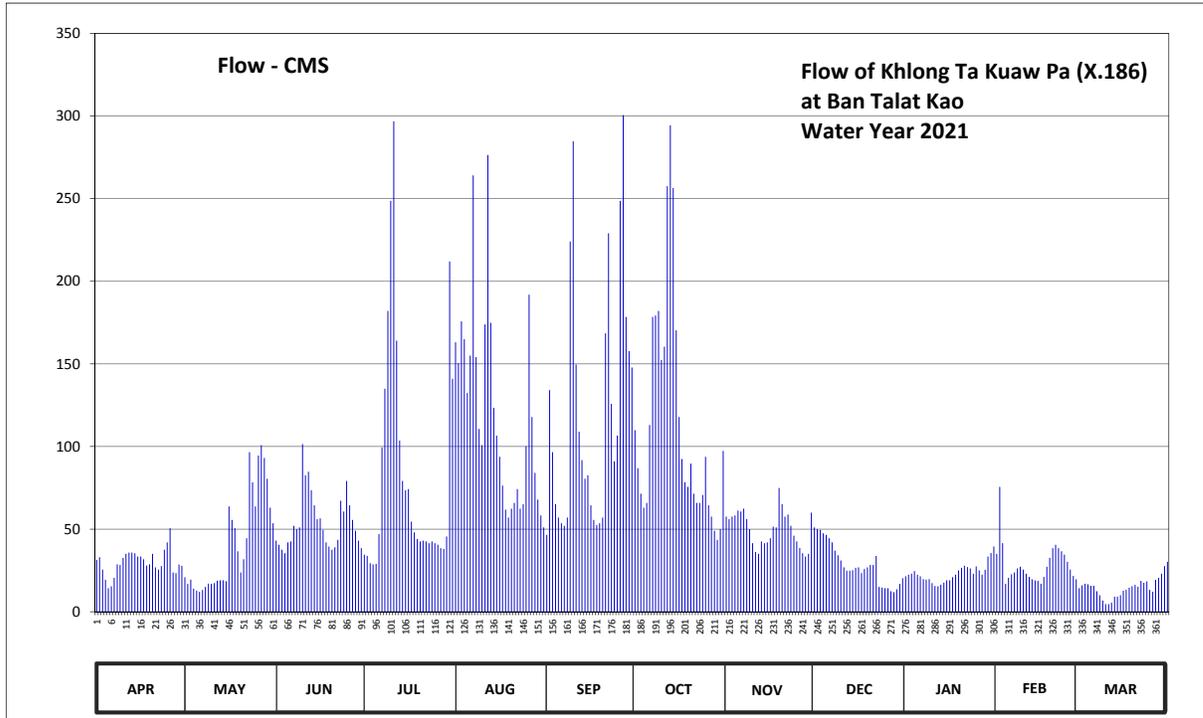
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.46	6.08	5.87	5.60	7.47	6.30	7.62	7.27	7.02	6.35	5.53	6.57	
2	5.39	5.96	5.84	5.56	7.99	6.47	6.66	7.39	7.82	6.80	5.53	6.14	
3	5.36	5.79	5.80	5.52	6.50	6.43	6.36	6.66	7.97	6.56	5.52	5.96	
4	5.40	5.70	5.85	5.48	6.17	6.08	6.22	6.41	7.19	6.62	5.53	5.85	
5	5.41	5.57	6.50	5.47	6.06	6.03	7.63	6.25	6.90	6.39	5.51	5.79	
6	5.38	5.70	6.34	6.38	5.97	5.88	10.21	6.34	6.63	6.22	5.49	5.88	
7	5.58	5.99	7.44	7.84	5.85	5.85	8.83	8.23	6.49	6.06	5.48	6.22	
8	5.63	5.83	6.91	6.68	5.78	6.00	8.83	6.58	6.39	5.98	5.52	5.82	
9	5.41	6.01	6.20	7.65	5.71	9.06	7.49	6.24	6.30	5.92	5.53	5.82	
10	5.35	5.79	5.98	11.94	5.85	11.76	6.77	6.15	6.22	5.85	5.48	5.73	
11	5.32	5.90	5.94	10.51	6.62	9.37	6.48	6.21	6.21	5.82	5.45	5.67	
12	5.31	6.55	5.97	7.19	6.81	6.83	6.30	6.70	6.15	5.80	5.45	5.62	
13	5.38	6.50	5.94	6.51	6.35	7.03	6.17	7.72	6.09	5.76	5.44	5.59	
14	6.58	5.98	5.98	6.30	6.07	7.59	6.08	7.92	6.05	5.70	5.44	5.59	
15	5.86	5.80	5.97	6.35	6.19	6.72	6.01	6.95	6.01	5.68	5.57	5.81	
16	5.71	5.80	5.86	6.15	6.26	6.46	5.94	6.62	5.97	5.66	5.67	5.66	
17	6.02	6.05	5.78	6.00	6.38	6.30	5.90	7.34	5.98	5.64	5.85	5.60	
18	5.74	7.03	5.74	5.92	6.35	7.86	5.93	10.84	6.13	5.64	5.83	5.56	
19	5.61	6.50	5.67	5.86	7.14	7.06	5.99	10.82	5.99	5.63	5.55	5.54	
20	5.78	6.32	5.69	5.81	8.28	7.25	7.49	11.44	5.92	5.63	5.51	5.57	
21	5.65	6.46	5.74	5.77	8.63	6.68	6.62	10.19	5.89	5.62	5.56	5.64	
22	5.77	6.88	5.61	5.69	6.84	7.04	6.15	8.17	5.88	5.60	5.48	5.57	
23	5.85	7.19	5.69	5.66	6.78	7.01	6.41	7.48	5.87	5.59	5.44	5.56	
24	6.42	6.47	5.67	5.61	7.33	6.44	6.74	8.41	5.87	5.59	5.45	5.80	
25	6.23	6.06	5.64	5.59	8.12	6.32	7.38	7.69	5.90	5.58	5.85	6.03	
26	6.13	5.94	5.85	5.58	7.69	6.49	6.78	7.09	5.86	5.56	6.18	6.79	
27	6.61	6.25	5.66	5.56	6.81	6.53	6.41	6.85	5.76	5.55	9.15	6.78	
28	6.34	7.24	5.68	5.55	6.40	6.39	6.88	6.97	5.72	5.54	8.47	6.57	
29	6.91	6.43	6.13	5.56	6.19	6.84	6.21	7.80	5.70	5.53		6.11	
30	6.38	6.06	5.79	5.97	6.19	8.28	6.39	7.34	6.04	5.53		5.99	
31		5.89		6.21	6.81		7.56		6.40	5.53		6.42	
Mean	5.80	6.18	5.96	6.37	6.70	7.01	6.85	7.60	6.27	5.84	5.80	5.91	
Max	6.91	7.24	7.44	11.94	8.63	11.76	10.21	11.44	7.97	6.80	9.15	6.79	11.94
Min	5.31	5.57	5.61	5.47	5.71	5.85	5.90	6.15	5.70	5.53	5.44	5.54	5.31
Annual Max Momentary Gage Height	12.15		m. (MSL.) ,				at 16.00 Hours ,						on Jul 10, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	4.51	m. (MSL.)					
Left Bank Elevation		12.80	m. (MSL.) ,										
Right Bank Elevation		12.97	m. (MSL.) ,			Drainage Are	517	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.20	20.60	16.40	11.00	48.40	25.00	51.40	44.40	39.40	26.00	9.60	30.40		
2	6.80	18.20	15.80	10.20	58.80	28.40	32.20	46.80	55.40	35.00	9.60	21.80		
3	6.20	14.80	15.00	9.40	29.00	27.60	26.20	32.20	58.40	30.20	9.40	18.20		
4	7.00	13.00	16.00	8.60	22.40	20.60	23.40	27.20	42.80	31.40	9.60	16.00		
5	7.20	10.40	29.00	8.40	20.20	19.60	51.60	24.00	37.00	26.80	9.20	14.80		
6	6.60	13.00	25.80	26.60	18.40	16.60	119.30	25.80	31.60	23.40	8.80	16.60		
7	10.60	18.80	47.80	55.80	16.00	16.00	77.90	63.60	28.80	20.20	8.60	23.40		
8	11.60	15.60	37.20	32.60	14.60	19.00	77.90	30.60	26.80	18.60	9.40	15.40		
9	7.20	19.20	23.00	52.00	13.20	84.80	48.80	23.80	25.00	17.40	9.60	15.40		
10	6.00	14.80	18.60	191.40	16.00	182.00	34.40	22.00	23.40	16.00	8.60	13.60		
11	5.40	17.00	17.80	128.85	31.40	94.10	28.60	23.20	23.20	15.40	8.00	12.40		
12	5.20	30.00	18.40	42.80	35.20	35.60	25.00	33.00	22.00	15.00	8.00	11.40		
13	6.60	29.00	17.80	29.20	26.00	39.60	22.40	53.40	20.80	14.20	7.80	10.80		
14	30.60	18.60	18.60	25.00	20.40	50.80	20.60	57.40	20.00	13.00	7.80	10.80		
15	16.20	15.00	18.40	26.00	22.80	33.40	19.20	38.00	19.20	12.60	10.40	15.20		
16	13.20	15.00	16.20	22.00	24.20	28.20	17.80	31.40	18.40	12.20	12.40	12.20		
17	19.40	20.00	14.60	19.00	26.60	25.00	17.00	45.80	18.60	11.80	16.00	11.00		
18	13.80	39.60	13.80	17.40	26.00	56.20	17.60	140.60	21.60	11.80	15.60	10.20		
19	11.20	29.00	12.40	16.20	41.80	40.20	18.80	139.80	18.80	11.60	10.00	9.80		
20	14.60	25.40	12.80	15.20	64.60	44.00	48.80	166.00	17.40	11.60	9.20	10.40		
21	12.00	28.20	13.80	14.40	72.75	32.60	31.40	118.70	16.80	11.40	10.20	11.80		
22	14.40	36.60	11.20	12.80	35.80	39.80	22.00	62.40	16.60	11.00	8.60	10.40		
23	16.00	42.80	12.80	12.20	34.60	39.20	27.20	48.60	16.40	10.80	7.80	10.20		
24	27.40	28.40	12.40	11.20	45.60	27.80	33.80	67.25	16.40	10.80	8.00	15.00		
25	23.60	20.20	11.80	10.80	61.40	25.40	46.60	52.80	17.00	10.60	16.00	19.60		
26	21.60	17.80	16.00	10.60	52.80	28.80	34.60	40.80	16.20	10.20	22.60	34.80		
27	31.20	24.00	12.20	10.20	35.20	29.60	27.20	36.00	14.20	10.00	87.50	34.60		
28	25.80	43.80	12.60	10.00	27.00	26.80	36.60	38.40	13.40	9.80	68.75	30.40		
29	37.20	27.60	21.60	10.20	22.80	35.80	23.20	55.00	13.00	9.60		21.20		
30	26.60	20.20	14.80	18.40	22.80	64.60	26.80	45.80	19.80	9.60		18.80		
31		16.80		23.20	35.20		50.20		27.00	9.60		27.40		
<b>Total</b>	<b>449.40</b>	<b>703.40</b>	<b>544.60</b>	<b>891.65</b>	<b>1021.95</b>	<b>1237.10</b>	<b>1138.50</b>	<b>1634.75</b>	<b>755.40</b>	<b>487.60</b>	<b>427.05</b>	<b>534.00</b>	<b>9825.40</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>14.98</b>	<b>22.69</b>	<b>18.15</b>	<b>28.76</b>	<b>32.97</b>	<b>41.24</b>	<b>36.73</b>	<b>54.49</b>	<b>24.37</b>	<b>15.73</b>	<b>15.25</b>	<b>17.23</b>	<b>26.92</b>	<b>CMS</b>
<b>Max</b>	<b>37.20</b>	<b>43.80</b>	<b>47.80</b>	<b>191.40</b>	<b>72.75</b>	<b>182.00</b>	<b>119.30</b>	<b>166.00</b>	<b>58.40</b>	<b>35.00</b>	<b>87.50</b>	<b>34.80</b>	<b>191.40</b>	<b>CMS</b>
<b>Min</b>	<b>5.20</b>	<b>10.40</b>	<b>11.20</b>	<b>8.40</b>	<b>13.20</b>	<b>16.00</b>	<b>17.00</b>	<b>22.00</b>	<b>13.00</b>	<b>9.60</b>	<b>7.80</b>	<b>9.80</b>	<b>5.20</b>	<b>CMS</b>
<b>Runoff</b>	<b>38.83</b>	<b>60.77</b>	<b>47.05</b>	<b>77.04</b>	<b>88.30</b>	<b>106.89</b>	<b>98.37</b>	<b>141.24</b>	<b>65.27</b>	<b>42.13</b>	<b>36.90</b>	<b>46.14</b>	<b>848.91</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>204.00</b>	<b>CMS.</b>	<b>at 12.15 m. (MSL.)</b>	<b>at 16.00 Hours</b>	<b>on Jul 10, 2021</b>									
<b>Runoff Yield</b>	<b>52.07</b>	<b>Liters/Second/Square KM.</b>	<b>Momentary Peak Yield</b>		<b>394.58</b>	<b>Liters/Second/Square KM.</b>								

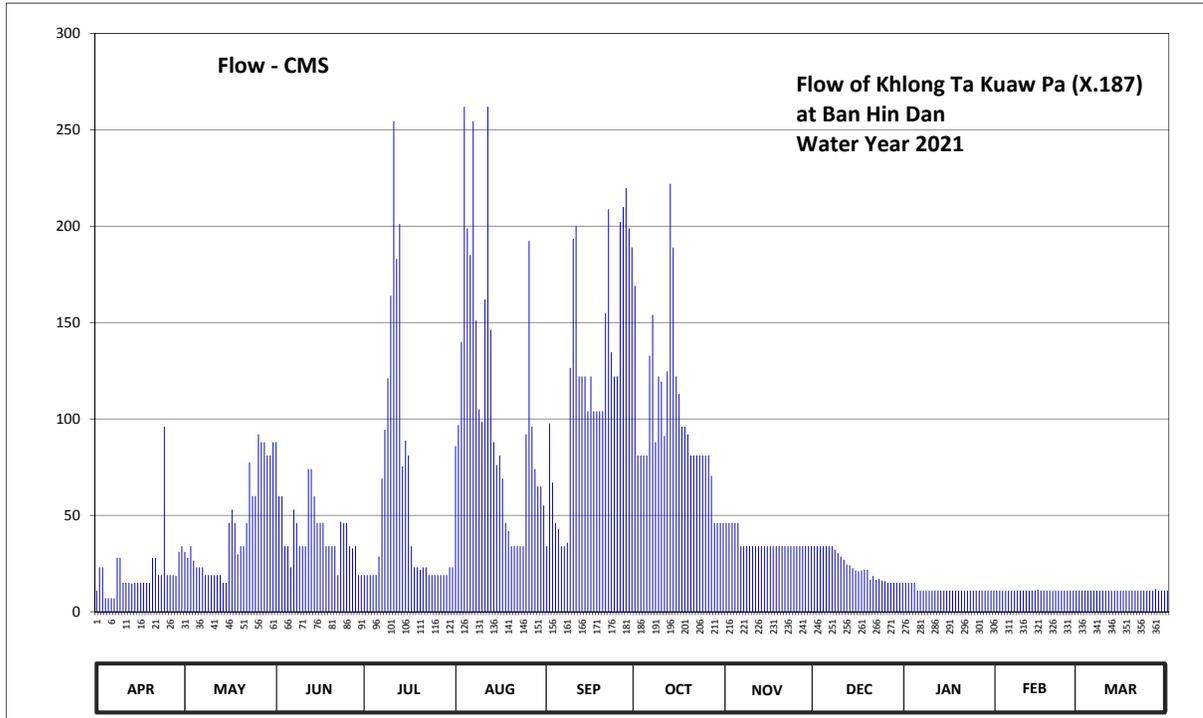




Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.40	20.90	43.00	34.60	163.10	46.50	109.80	57.60	51.00	21.50	35.00	14.20	
2	33.00	16.80	40.50	33.80	150.50	134.10	86.80	56.00	50.00	22.40	75.60	16.00	
3	25.50	19.40	37.50	29.40	175.70	96.60	71.40	57.60	49.50	23.00	41.50	16.90	
4	19.30	14.00	35.40	28.65	164.90	65.10	63.00	58.20	47.50	24.60	16.90	16.60	
5	14.20	12.80	42.00	29.00	132.40	57.00	65.80	61.20	46.50	22.40	20.50	15.70	
6	15.40	12.00	42.50	47.00	155.00	53.50	113.00	60.60	44.50	21.50	22.70	15.70	
7	20.50	13.20	52.00	99.40	264.10	52.00	178.40	62.40	42.00	19.70	23.75	12.40	
8	28.65	15.00	50.00	134.95	154.10	57.00	179.30	56.00	37.00	19.40	26.20	10.00	
9	28.30	17.00	51.00	182.00	110.60	224.00	182.00	50.00	34.20	19.70	27.25	6.70	
10	32.60	16.80	101.50	248.70	100.80	284.80	152.30	41.50	31.00	17.30	25.50	4.60	
11	35.00	17.30	82.60	296.80	173.90	149.60	160.40	36.20	26.90	15.60	23.05	4.60	
12	35.80	18.80	84.70	164.00	276.40	109.00	257.50	35.00	24.80	15.40	21.10	5.50	
13	35.80	19.10	73.50	103.60	174.80	91.70	294.40	42.50	24.80	16.40	19.60	9.10	
14	35.40	19.10	64.40	79.10	123.40	80.50	256.40	41.50	25.15	17.60	19.00	9.10	
15	33.40	18.50	56.00	73.50	106.60	82.60	170.30	42.00	26.55	19.10	18.70	10.00	
16	33.40	63.70	56.50	74.20	93.80	64.40	117.80	44.50	26.90	19.10	16.90	12.70	
17	31.80	55.50	49.50	54.50	76.30	55.50	92.40	51.50	23.40	20.90	21.10	13.30	
18	27.95	50.50	42.00	48.00	61.80	52.50	78.40	51.00	25.85	22.40	27.25	14.50	
19	28.65	36.60	39.50	44.00	57.00	53.50	75.60	74.90	26.90	25.00	32.60	15.40	
20	35.00	23.75	37.50	42.50	62.40	57.00	89.60	65.10	28.30	26.60	38.50	16.30	
21	26.90	31.80	39.00	43.00	65.80	168.50	71.40	57.60	28.30	27.80	40.50	15.10	
22	25.50	44.50	43.50	42.50	74.20	229.00	65.80	58.80	33.80	27.00	38.50	18.70	
23	27.60	96.60	67.20	41.50	62.40	125.80	65.80	52.00	15.00	26.20	36.60	17.50	
24	37.50	78.40	60.60	42.50	65.10	91.00	70.70	46.00	14.60	23.00	34.60	18.40	
25	42.00	63.70	79.10	41.50	100.10	106.60	93.80	42.50	14.20	27.40	30.20	13.30	
26	50.50	94.50	64.40	40.50	191.90	248.70	64.40	38.50	14.20	25.00	25.50	12.10	
27	23.80	100.80	55.50	38.50	117.80	300.60	57.60	35.40	12.40	22.40	21.70	19.30	
28	23.40	93.10	49.00	38.00	84.00	178.40	49.00	33.40	11.80	25.40	19.60	20.50	
29	28.60	80.50	43.00	45.50	67.90	157.70	43.50	35.00	13.60	33.40		23.05	
30	27.80	63.00	38.50	212.00	58.20	147.80	50.00	60.00	16.80	35.50		27.60	
31		53.50		140.90	51.00		97.30		20.30	39.50		30.20	
Total	894.65	1281.15	1621.40	2574.10	3716.00	3621.00	3523.90	1504.50	887.75	722.20	799.90	455.05	21601.60 CMSDAY
Mean	29.82	41.33	54.05	83.04	119.87	120.70	113.67	50.15	28.64	23.30	28.57	14.68	59.18 CMS
Max	50.50	100.80	101.50	296.80	276.40	300.60	294.40	74.90	51.00	39.50	75.60	30.20	300.60 CMS
Min	14.20	12.00	35.40	28.65	51.00	46.50	43.50	33.40	11.80	15.40	16.90	4.60	4.60 CMS
Runoff	77.30	110.69	140.09	222.40	321.06	312.85	304.46	129.99	76.70	62.40	69.11	39.32	1866.38 MCM
Momentary Peak	427.30	CMS. at 3.39 m. (MSL.) at 21.00 Hours , on Sep 26, 2021											
Runoff Yield	91.47	Liters/Second/Square KM. Momentary Peak Yield 660.43 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.00	31.00	88.00	19.00	85.90	34.00	169.00	46.00	34.00	15.00	11.00	11.00	
2	23.00	28.00	60.00	19.00	96.80	97.60	81.00	46.00	34.00	15.00	11.00	11.00	
3	23.00	34.00	60.00	19.00	140.00	67.00	81.00	46.00	34.00	15.00	11.00	11.00	
4	7.00	26.50	34.00	19.00	261.90	46.00	81.00	46.00	34.00	15.00	11.00	11.00	
5	7.00	23.00	34.00	19.00	198.90	43.00	81.00	46.00	34.00	11.00	11.00	11.00	
6	7.00	23.00	23.00	28.60	185.00	34.00	132.80	34.00	34.00	11.00	11.00	11.00	
7	7.00	23.00	53.00	69.10	254.40	34.00	154.00	34.00	34.00	11.00	11.00	11.00	
8	28.00	19.00	46.00	94.40	151.00	35.80	88.00	34.00	32.20	11.00	11.00	11.00	
9	28.00	19.00	34.00	121.10	104.90	126.50	122.00	34.00	30.40	11.00	11.00	11.00	
10	15.00	19.00	34.00	164.00	98.40	193.40	119.30	34.00	28.60	11.00	11.00	11.00	
11	15.00	19.00	34.00	254.40	162.00	200.00	91.20	34.00	27.00	11.00	11.00	11.00	
12	15.00	19.00	74.00	183.00	261.90	122.00	124.70	34.00	24.50	11.00	11.00	11.00	
13	14.60	19.00	74.00	201.10	146.30	122.00	222.00	34.00	24.00	11.00	11.00	11.00	
14	15.00	15.00	60.00	75.40	88.00	122.00	189.00	34.00	22.60	11.00	11.00	11.00	
15	15.00	15.00	46.00	88.80	76.10	104.00	122.00	34.00	21.40	11.00	11.40	11.00	
16	15.00	46.00	46.00	81.00	81.00	122.00	113.00	34.00	21.00	11.00	11.00	11.00	
17	15.00	53.00	46.00	34.00	69.10	104.00	96.00	34.00	21.40	11.00	11.00	11.00	
18	15.00	46.00	34.00	23.00	46.00	104.00	96.00	34.00	21.80	11.00	11.00	11.00	
19	15.00	29.80	34.00	23.00	41.80	104.00	92.00	34.00	21.80	11.00	11.00	11.00	
20	28.00	34.00	34.00	21.80	34.00	104.00	81.00	34.00	16.60	11.00	11.00	11.00	
21	28.00	34.00	34.00	23.00	34.00	155.00	81.00	34.00	18.60	11.00	11.00	11.00	
22	19.00	46.00	19.00	23.00	34.00	208.80	81.00	34.00	16.60	11.00	11.00	11.00	
23	19.00	77.50	46.70	19.00	34.00	134.60	81.00	34.00	17.00	11.00	11.00	11.00	
24	96.00	60.00	46.00	19.00	34.00	122.00	81.00	34.00	16.20	11.00	11.00	11.00	
25	19.00	60.00	46.00	19.00	92.00	122.00	81.00	34.00	15.80	11.00	11.00	11.00	
26	19.00	92.00	34.00	19.00	192.30	202.20	81.00	34.00	15.00	11.00	11.00	11.00	
27	19.00	88.00	32.80	19.00	96.00	209.90	70.50	34.00	15.00	11.00	11.00	11.80	
28	18.60	88.00	34.00	19.00	74.00	219.80	46.00	34.00	15.00	11.00	11.00	11.00	
29	31.00	81.00	19.00	19.00	64.90	198.90	46.00	34.00	15.00	11.00	11.00	11.00	
30	34.00	81.00	19.00	23.00	64.90	189.00	46.00	34.00	15.00	11.00	11.00	11.00	
31		88.00		23.00	55.10		46.00		15.00	11.00		11.00	
<b>Total</b>	621.20	1336.80	1278.50	1782.70	3358.60	3681.50	3076.50	1080.00	725.50	357.00	308.40	341.80	17948.50 CMSDAY
<b>Mean</b>	20.71	43.12	42.62	57.51	108.34	122.72	99.24	36.00	23.40	11.52	11.01	11.03	49.17 CMS
<b>Max</b>	96.00	92.00	88.00	254.40	261.90	219.80	222.00	46.00	34.00	15.00	11.40	11.80	261.90 CMS
<b>Min</b>	7.00	15.00	19.00	19.00	34.00	34.00	46.00	34.00	15.00	11.00	11.00	11.00	7.00 CMS
<b>Runoff</b>	53.67	115.50	110.46	154.03	290.18	318.08	265.81	93.31	62.68	30.84	26.65	29.53	1550.75 MCM
<b>Momentary Peak</b>		355.00	CMS.	at 7.00 m. (MSL.)	at 18.00 Hours	, on Sep 26, 2021							
<b>Runoff Yield</b>		90.23	Liters/Second/Square KM.		Momentary Peak Yield	651.38	Liters/Second/Square KM.						

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlung Rommanee at Ban Rommanee , Phangnga (X.188A)

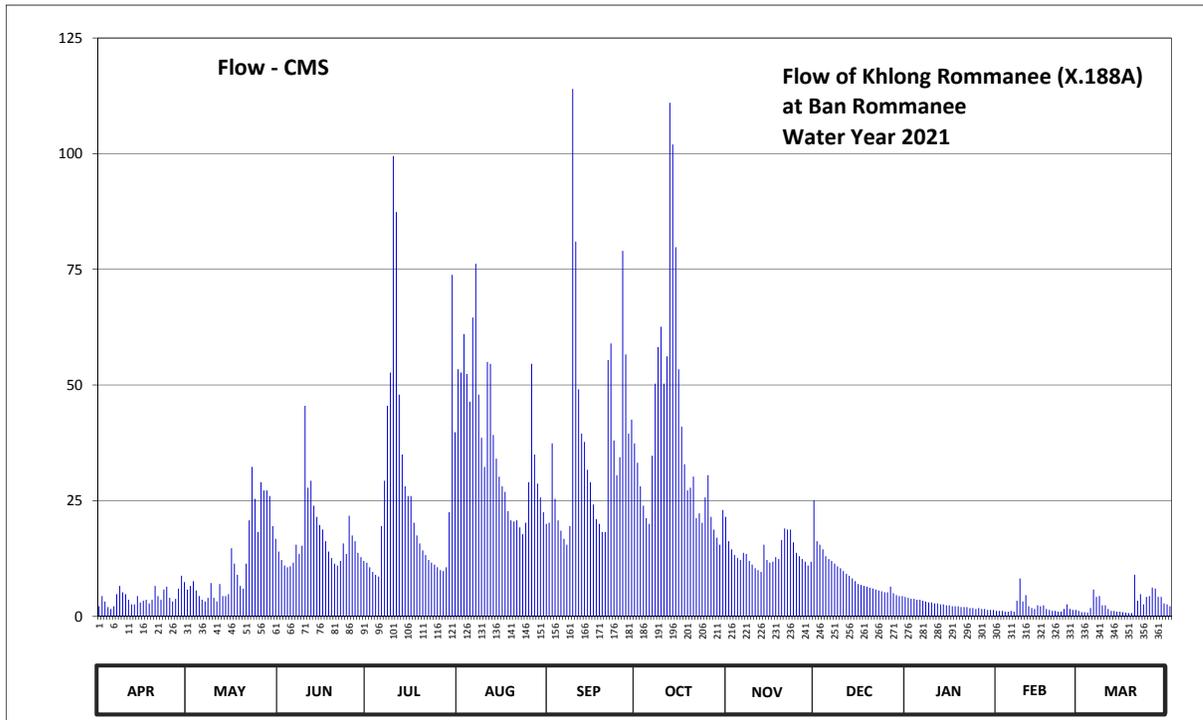
Lat 08 - 50 - 00 N Long 98 - 27 - 31 E

Location : on left bank at the bridge.

	<b>Ban</b> Rommanee	<b>Amphoe</b> Kapong	<b>Changwat</b> Phangnga
<b>Drainage Area</b>	194 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	on right bank at the bridge of downstream.	<b>Elevation</b>	+18.740 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 17.470 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.06	13.24	13.64	13.53	15.01	13.89	14.34	13.73	13.73	13.15	13.01	12.99	
2	13.17	13.28	13.56	13.48	14.99	14.48	14.17	13.66	13.70	13.14	13.01	12.99	
3	13.11	13.33	13.50	13.43	15.20	14.08	14.03	13.61	13.66	13.14	13.00	12.98	
4	13.05	13.23	13.48	13.40	14.98	13.91	13.93	13.58	13.60	13.13	13.00	13.04	
5	13.03	13.17	13.49	13.38	14.78	13.82	13.88	13.56	13.57	13.13	13.01	13.24	
6	13.06	13.13	13.53	13.86	15.29	13.75	14.39	13.63	13.55	13.12	13.00	13.16	
7	13.19	13.11	13.70	14.21	15.58	13.70	14.91	13.62	13.52	13.11	13.12	13.17	
8	13.28	13.15	13.62	14.75	14.83	13.86	15.13	13.55	13.49	13.10	13.36	13.07	
9	13.21	13.31	13.69	14.99	14.52	16.42	15.24	13.51	13.47	13.10	13.11	13.07	
10	13.19	13.15	14.75	16.13	14.31	15.70	14.91	13.47	13.44	13.09	13.18	13.03	
11	13.13	13.11	14.16	15.86	15.05	14.87	15.08	13.45	13.41	13.09	13.06	13.01	
12	13.08	13.30	14.21	14.83	15.04	14.55	16.36	13.43	13.39	13.08	13.04	13.01	
13	13.08	13.17	14.03	14.40	14.54	14.49	16.18	13.70	13.36	13.08	13.03	13.00	
14	13.17	13.17	13.94	14.17	14.37	14.29	15.67	13.56	13.33	13.07	13.07	13.00	
15	13.10	13.19	13.87	14.10	14.24	14.20	15.01	13.53	13.30	13.07	13.06	12.99	
16	13.12	13.67	13.83	14.10	14.17	14.04	14.60	13.54	13.29	13.06	13.07	12.98	
17	13.13	13.52	13.73	13.89	14.13	13.92	14.33	13.59	13.28	13.06	13.03	12.97	
18	13.09	13.40	13.64	13.78	13.99	13.88	14.14	13.57	13.27	13.06	13.02	12.97	
19	13.13	13.28	13.58	13.71	13.91	13.81	14.16	13.74	13.26	13.05	13.01	13.40	
20	13.28	13.25	13.52	13.65	13.90	13.81	14.24	13.84	13.25	13.05	13.01	13.12	
21	13.17	13.52	13.50	13.61	13.91	15.06	13.93	13.83	13.24	13.05	13.00	13.19	
22	13.13	13.91	13.55	13.56	13.85	15.15	13.97	13.83	13.23	13.04	13.00	13.08	
23	13.24	14.31	13.71	13.53	13.79	14.50	13.89	13.72	13.22	13.04	13.03	13.16	
24	13.27	14.08	13.62	13.51	13.89	14.25	14.09	13.63	13.21	13.03	13.08	13.17	
25	13.15	13.81	13.95	13.48	14.20	14.38	14.25	13.60	13.21	13.04	13.03	13.26	
26	13.11	14.20	13.78	13.45	15.04	15.65	13.94	13.57	13.27	13.03	13.02	13.25	
27	13.14	14.14	13.73	13.44	14.40	15.09	13.83	13.54	13.20	13.03	13.02	13.16	
28	13.25	14.14	13.63	13.48	14.19	14.55	13.76	13.50	13.18	13.02	13.01	13.16	
29	13.39	14.10	13.59	13.98	14.09	14.65	13.70	13.54	13.17	13.02		13.09	
30	13.32	13.86	13.55	15.52	13.98	14.48	14.00	14.07	13.17	13.02		13.08	
31		13.75		14.56	13.88		13.94		13.16	13.01		13.06	
Mean	13.16	13.52	13.74	14.06	14.45	14.44	14.45	13.62	13.36	13.07	13.05	13.09	
Max	13.39	14.31	14.75	16.13	15.58	16.42	16.36	14.07	13.73	13.15	13.36	13.40	16.42
Min	13.03	13.11	13.48	13.38	13.79	13.70	13.70	13.43	13.16	13.01	13.00	12.97	12.97
Annual Max Momentary Gage Height	17.68		m. (MSL.) ,				at 12.00 Hours ,						on Sep 9, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	11.40	m. (MSL.)					
Left Bank Elevation		17.46	m. (MSL.) ,										
Right Bank Elevation		17.72	m. (MSL.) ,		Drainage Are	194	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.20	5.80	14.00	11.60	53.40	20.25	33.20	16.25	16.25	4.00	1.20	0.90		
2	4.40	6.60	12.20	10.60	52.70	37.40	28.10	14.50	15.50	3.80	1.20	0.90		
3	3.20	7.60	11.00	9.60	61.00	25.40	23.90	13.25	14.50	3.80	1.00	0.80		
4	2.00	5.60	10.60	9.00	52.40	20.75	21.25	12.60	13.00	3.60	1.00	1.80		
5	1.60	4.40	10.80	8.60	46.40	18.50	20.00	12.20	12.40	3.60	1.20	5.80		
6	2.20	3.60	11.60	19.50	64.60	16.75	34.70	13.75	12.00	3.40	1.00	4.20		
7	4.80	3.20	15.50	29.30	76.20	15.50	50.30	13.50	11.40	3.20	3.40	4.40		
8	6.60	4.00	13.50	45.50	47.90	19.50	58.20	12.00	10.80	3.00	8.20	2.40		
9	5.20	7.20	15.25	52.70	38.60	114.00	62.60	11.20	10.40	3.00	3.20	2.40		
10	4.80	4.00	45.50	99.50	32.30	81.00	50.30	10.40	9.80	2.80	4.60	1.60		
11	3.60	3.20	27.80	87.40	55.00	49.10	56.20	10.00	9.20	2.80	2.20	1.20		
12	2.60	7.00	29.30	47.90	54.60	39.50	111.00	9.60	8.80	2.60	1.80	1.20		
13	2.60	4.40	23.90	35.00	39.20	37.70	102.00	15.50	8.20	2.60	1.60	1.00		
14	4.40	4.40	21.50	28.10	34.10	31.70	79.80	12.20	7.60	2.40	2.40	1.00		
15	3.00	4.80	19.75	26.00	30.20	29.00	53.40	11.60	7.00	2.40	2.20	0.90		
16	3.40	14.75	18.75	26.00	28.10	24.20	41.00	11.80	6.80	2.20	2.40	0.80		
17	3.60	11.40	16.25	20.25	26.90	21.00	32.90	12.80	6.60	2.20	1.60	0.70		
18	2.80	9.00	14.00	17.50	22.75	20.00	27.20	12.40	6.40	2.20	1.40	0.70		
19	3.60	6.60	12.60	15.75	20.75	18.25	27.80	16.50	6.20	2.00	1.20	9.00		
20	6.60	6.00	11.40	14.25	20.50	18.25	30.20	19.00	6.00	2.00	1.20	3.40		
21	4.40	11.40	11.00	13.25	20.75	55.40	21.25	18.75	5.80	2.00	1.00	4.80		
22	3.60	20.75	12.00	12.20	19.25	59.00	22.25	18.75	5.60	1.80	1.00	2.60		
23	5.80	32.30	15.75	11.60	17.75	38.00	20.25	16.00	5.40	1.80	1.60	4.20		
24	6.40	25.40	13.50	11.20	20.25	30.50	25.70	13.75	5.20	1.60	2.60	4.40		
25	4.00	18.25	21.75	10.60	29.00	34.40	30.50	13.00	5.20	1.80	1.60	6.20		
26	3.20	29.00	17.50	10.00	54.60	79.00	21.50	12.40	6.40	1.60	1.40	6.00		
27	3.80	27.20	16.25	9.80	35.00	56.60	18.75	11.80	5.00	1.60	1.40	4.20		
28	6.00	27.20	13.75	10.60	28.70	39.50	17.00	11.00	4.60	1.40	1.20	4.20		
29	8.80	26.00	12.80	22.50	25.70	42.50	15.50	11.80	4.40	1.40		2.80		
30	7.40	19.50	12.00	73.80	22.50	37.40	23.00	25.10	4.40	1.40		2.60		
31		16.75		39.80	20.00		21.50		4.20	1.20		2.20		
<b>Total</b>	126.60	377.30	501.50	839.40	1151.10	1130.05	1181.25	413.40	255.05	75.20	55.80	89.30	6195.95	CMSDAY
<b>Mean</b>	4.22	12.17	16.72	27.08	37.13	37.67	38.10	13.78	8.23	2.43	1.99	2.88	16.98	CMS
<b>Max</b>	8.80	32.30	45.50	99.50	76.20	114.00	111.00	25.10	16.25	4.00	8.20	9.00	114.00	CMS
<b>Min</b>	1.60	3.20	10.60	8.60	17.75	15.50	15.50	9.60	4.20	1.20	1.00	0.70	0.70	CMS
<b>Runoff</b>	10.94	32.60	43.33	72.52	99.46	97.64	102.06	35.72	22.04	6.50	4.82	7.72	535.33	MCM
<b>Momentary Peak</b>	187.60 CMS. at 17.68 m. (MSL.) at 12.00 Hours , on Sep 9, 2021													
<b>Runoff Yield</b>	87.50 Liters/Second/Square KM.			Momentary Peak Yield			967.01 Liters/Second/Square KM.							

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)

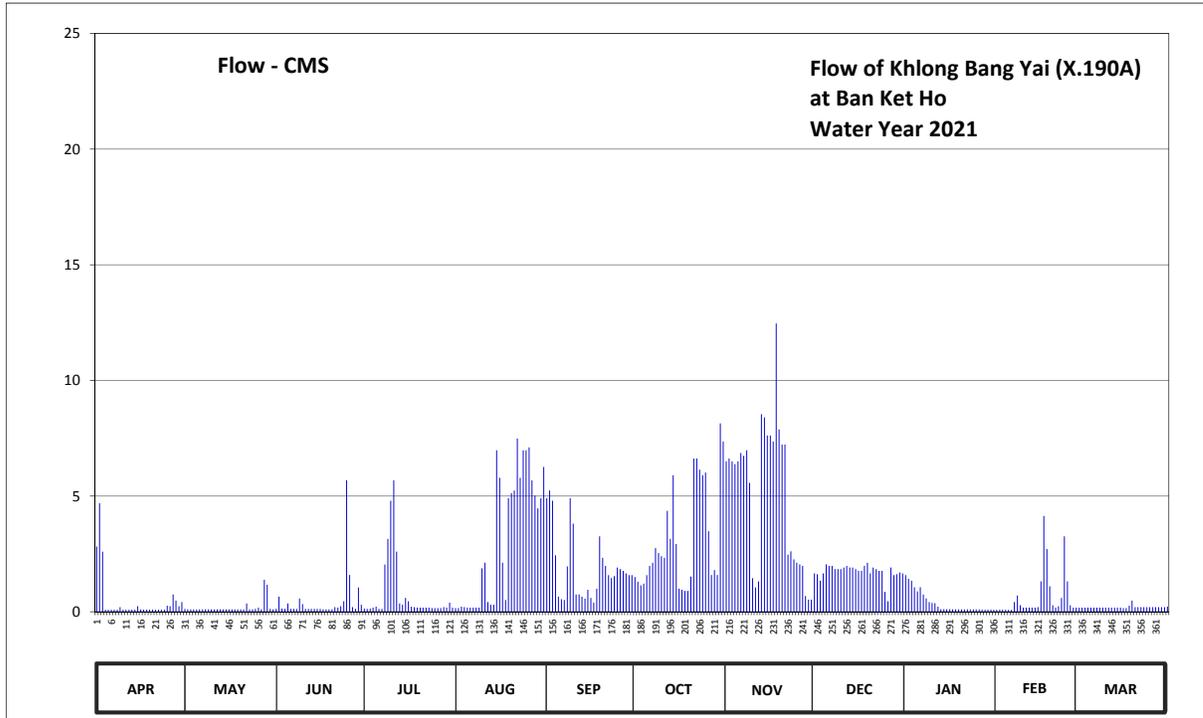
Lat 07 - 54 - 12 N Long 98 - 20 - 59 E

Location : on left bank at Ban Ket Ho.

	<b>Ban Ket Ho</b>	<b>Amphoe Kathu</b>	<b>Changwat Phuket</b>
<b>Drainage Area</b>	30 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+17.360 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 8 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

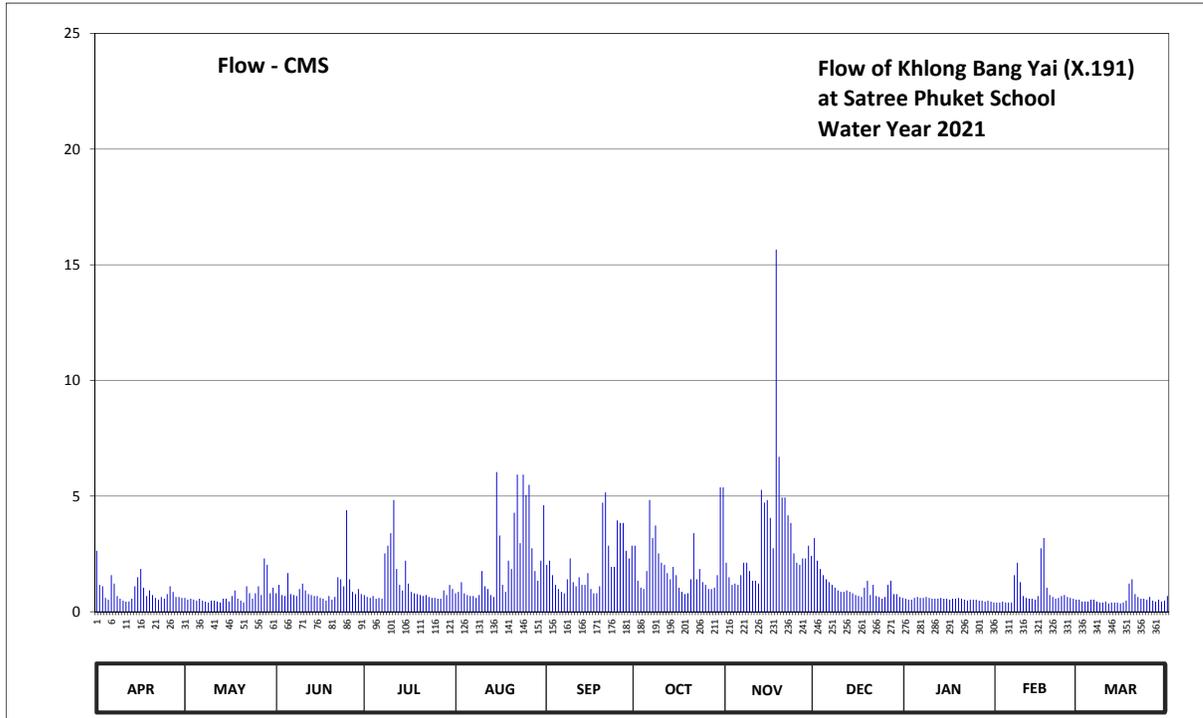
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.82	14.31	14.31	14.32	14.33	15.01	15.05	15.15	15.09	15.07	14.29	14.34	
2	14.99	14.30	14.51	14.31	14.33	15.04	15.00	15.16	15.08	15.03	14.29	14.34	
3	14.80	14.30	14.32	14.32	14.36	15.00	14.96	15.15	15.01	15.01	14.29	14.34	
4	14.29	14.30	14.31	14.34	14.35	14.78	14.98	15.14	15.09	14.94	14.29	14.34	
5	14.29	14.30	14.42	14.36	14.34	14.51	15.07	15.15	15.15	14.89	14.28	14.34	
6	14.29	14.30	14.31	14.31	14.34	14.48	15.14	15.18	15.14	14.94	14.28	14.34	
7	14.29	14.30	14.31	14.31	14.34	14.47	15.16	15.17	15.14	14.82	14.44	14.34	
8	14.29	14.30	14.31	14.73	14.34	14.72	15.25	15.19	15.12	14.74	14.52	14.34	
9	14.35	14.30	14.49	14.85	14.34	15.01	15.22	15.07	15.12	14.62	14.39	14.34	
10	14.29	14.30	14.41	15.00	14.71	14.91	15.20	14.65	15.12	14.58	14.34	14.34	
11	14.29	14.30	14.31	15.08	14.74	14.53	15.19	14.59	15.13	14.57	14.34	14.34	
12	14.29	14.30	14.31	14.80	14.44	14.53	14.96	14.63	15.14	14.42	14.34	14.34	
13	14.29	14.30	14.31	14.42	14.40	14.51	14.85	15.31	15.13	14.31	14.34	14.34	
14	14.29	14.30	14.31	14.40	14.40	14.49	15.10	15.30	15.13	14.31	14.34	14.34	
15	14.37	14.30	14.31	14.50	15.19	14.57	14.83	15.24	15.12	14.31	14.35	14.34	
16	14.30	14.30	14.31	14.45	15.09	14.50	14.58	15.24	15.11	14.31	14.63	14.33	
17	14.29	14.30	14.30	14.36	14.74	14.43	14.57	15.22	15.11	14.30	14.94	14.33	
18	14.29	14.30	14.30	14.35	14.47	14.58	14.56	15.59	15.14	14.30	14.81	14.38	
19	14.29	14.30	14.30	14.34	15.01	14.86	14.56	15.26	15.16	14.30	14.60	14.46	
20	14.29	14.30	14.30	14.34	15.03	15.19	14.66	15.21	15.09	14.30	14.39	14.35	
21	14.29	14.30	14.35	14.34	15.04	15.14	15.16	15.21	15.13	14.30	14.34	14.35	
22	14.29	14.42	14.34	14.34	15.23	15.07	15.16	15.21	15.12	14.30	14.37	14.35	
23	14.29	14.30	14.37	14.34	15.09	15.04	15.12	15.23	15.11	14.30	14.50	14.35	
24	14.29	14.30	14.45	14.33	15.19	15.06	15.10	15.18	15.11	14.30	14.86	14.35	
25	14.38	14.31	15.08	14.33	15.19	15.13	15.11	15.16	14.88	14.30	14.63	14.35	
26	14.37	14.34	14.67	14.33	15.20	15.12	14.88	15.15	14.65	14.30	14.39	14.35	
27	14.53	14.30	14.35	14.33	15.08	15.11	14.67	15.14	15.13	14.29	14.34	14.35	
28	14.46	14.64	14.31	14.35	15.02	15.09	14.70	14.79	15.07	14.29	14.34	14.35	
29	14.37	14.61	14.59	14.34	14.97	15.07	14.67	14.71	15.08	14.29		14.35	
30	14.44	14.31	14.40	14.43	15.01	15.07	15.28	14.71	15.10	14.29		14.35	
31		14.30		14.34	15.13		15.22		15.09	14.29		14.36	
Mean	14.38	14.33	14.39	14.44	14.76	14.83	14.97	15.10	15.09	14.49	14.44	14.35	
Max	14.99	14.64	15.08	15.08	15.23	15.19	15.28	15.59	15.16	15.07	14.94	14.46	15.59
Min	14.29	14.30	14.30	14.31	14.33	14.43	14.56	14.59	14.65	14.29	14.28	14.33	14.28
Annual Max Momentary Gage Height	16.04		m. (MSL.) ,				at 06.00 Hours ,						on Nov 18, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	13.88		m. (MSL.)				
Left Bank Elevation		17.13		m. (MSL.) ,									
Right Bank Elevation		17.23		m. (MSL.) ,		Drainage Are	30		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.82	0.12	0.12	0.14	0.16	4.91	1.50	6.50	1.66	1.58	0.09	0.18	
2	4.69	0.10	0.65	0.12	0.16	5.24	1.30	6.62	1.62	1.42	0.09	0.18	
3	2.60	0.10	0.14	0.14	0.22	4.80	1.14	6.50	1.34	1.34	0.09	0.18	
4	0.09	0.10	0.12	0.18	0.20	2.44	1.22	6.38	1.66	1.06	0.09	0.18	
5	0.09	0.10	0.36	0.22	0.18	0.65	1.58	6.50	2.05	0.88	0.08	0.18	
6	0.09	0.10	0.12	0.12	0.18	0.54	1.98	6.86	1.98	1.06	0.08	0.18	
7	0.09	0.10	0.12	0.12	0.18	0.51	2.12	6.74	1.98	0.74	0.42	0.18	
8	0.09	0.10	0.12	2.04	0.18	1.96	2.75	6.98	1.84	0.58	0.70	0.18	
9	0.20	0.10	0.57	3.15	0.18	4.91	2.54	5.57	1.84	0.42	0.28	0.18	
10	0.09	0.10	0.33	4.80	1.88	3.81	2.40	1.45	1.84	0.38	0.18	0.18	
11	0.09	0.10	0.12	5.68	2.12	0.75	2.33	1.05	1.91	0.37	0.18	0.18	
12	0.09	0.10	0.12	2.60	0.42	0.75	4.36	1.31	1.98	0.22	0.18	0.18	
13	0.09	0.10	0.12	0.36	0.30	0.65	3.15	8.54	1.91	0.11	0.18	0.18	
14	0.09	0.10	0.12	0.30	0.30	0.57	5.90	8.40	1.91	0.11	0.18	0.18	
15	0.24	0.10	0.12	0.60	6.98	0.95	2.93	7.62	1.84	0.11	0.20	0.18	
16	0.10	0.10	0.12	0.45	5.79	0.60	1.00	7.62	1.77	0.11	1.31	0.16	
17	0.09	0.10	0.10	0.22	2.12	0.39	0.95	7.36	1.77	0.10	4.14	0.16	
18	0.09	0.10	0.10	0.20	0.51	1.00	0.90	12.46	1.98	0.10	2.71	0.26	
19	0.09	0.10	0.10	0.18	4.91	3.26	0.90	7.88	2.12	0.10	1.10	0.48	
20	0.09	0.10	0.10	0.18	5.13	2.33	1.52	7.23	1.66	0.10	0.28	0.20	
21	0.09	0.10	0.20	0.18	5.24	1.98	6.62	7.23	1.91	0.10	0.18	0.20	
22	0.09	0.36	0.18	0.18	7.49	1.58	6.62	2.47	1.84	0.10	0.24	0.20	
23	0.09	0.10	0.24	0.18	5.79	1.46	6.14	2.61	1.77	0.10	0.60	0.20	
24	0.09	0.10	0.45	0.16	6.98	1.54	5.90	2.26	1.77	0.10	3.26	0.20	
25	0.26	0.12	5.68	0.16	6.98	1.91	6.02	2.12	0.86	0.10	1.31	0.20	
26	0.24	0.18	1.59	0.16	7.10	1.84	3.48	2.05	0.45	0.10	0.28	0.20	
27	0.75	0.10	0.20	0.16	5.68	1.77	1.59	1.98	1.91	0.09	0.18	0.20	
28	0.48	1.38	0.12	0.20	5.02	1.66	1.80	0.68	1.58	0.09	0.18	0.20	
29	0.24	1.17	1.05	0.18	4.47	1.58	1.59	0.52	1.62	0.09	0.20	0.20	
30	0.42	0.12	0.30	0.39	4.91	1.58	8.14	0.52	1.70	0.09	0.20	0.20	
31		0.10		0.18	6.26		7.36		1.66	0.09		0.22	
<b>Total</b>	14.66	5.85	13.78	23.93	98.02	57.92	97.73	152.01	53.73	11.94	18.79	6.18	554.54 CMSDAY
<b>Mean</b>	0.49	0.19	0.46	0.77	3.16	1.93	3.15	5.07	1.73	0.39	0.67	0.20	1.52 CMS
<b>Max</b>	4.69	1.38	5.68	5.68	7.49	5.24	8.14	12.46	2.12	1.58	4.14	0.48	12.46 CMS
<b>Min</b>	0.09	0.10	0.10	0.12	0.16	0.39	0.90	0.52	0.45	0.09	0.08	0.16	0.08 CMS
<b>Runoff</b>	1.27	0.51	1.19	2.07	8.47	5.00	8.44	13.13	4.64	1.03	1.62	0.53	47.91 MCM
<b>Momentary Peak</b>	20.30	CMS. at 16.04 m. (MSL.) at 06.00 Hours , on Nov 18, 2021											
<b>Runoff Yield</b>	50.64	Liters/Second/Square KM. Momentary Peak Yield 676.67 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.63	0.60	0.80	0.72	0.80	2.03	2.85	2.12	3.18	0.56	0.40	0.52	
2	1.16	0.52	1.16	0.64	0.86	2.21	1.34	1.49	2.21	0.52	0.40	0.44	
3	1.10	0.56	0.72	0.60	1.28	1.58	1.04	1.16	1.85	0.52	0.44	0.44	
4	0.60	0.52	0.68	0.68	0.80	1.16	0.98	1.22	1.58	0.60	0.40	0.44	
5	0.52	0.48	1.67	0.56	0.72	0.98	1.76	1.16	1.40	0.64	0.40	0.52	
6	1.58	0.56	0.76	0.60	0.68	0.86	4.83	1.58	1.28	0.60	0.40	0.52	
7	1.22	0.48	0.72	0.56	0.68	0.80	3.18	2.12	1.16	0.60	1.58	0.44	
8	0.68	0.44	0.68	2.52	0.60	1.40	3.73	2.12	1.04	0.64	2.12	0.40	
9	0.56	0.40	0.98	2.85	0.72	2.30	2.52	1.76	0.92	0.60	1.28	0.40	
10	0.48	0.48	1.22	3.40	1.76	1.28	2.12	1.34	0.86	0.56	0.68	0.44	
11	0.44	0.48	0.92	4.83	1.10	1.10	2.03	1.34	0.86	0.56	0.60	0.36	
12	0.44	0.44	0.76	1.85	0.98	1.49	1.67	1.22	0.92	0.56	0.56	0.40	
13	0.56	0.40	0.72	1.16	0.72	1.16	1.40	5.27	0.86	0.60	0.56	0.40	
14	1.10	0.56	0.68	0.92	0.64	1.16	1.94	4.72	0.80	0.56	0.52	0.40	
15	1.49	0.56	0.68	2.21	6.04	1.67	1.58	4.83	0.72	0.56	0.68	0.36	
16	1.85	0.44	0.60	1.22	3.29	0.98	1.04	4.06	0.68	0.52	2.74	0.40	
17	1.04	0.68	0.56	0.86	1.16	0.80	0.86	2.74	0.64	0.56	3.18	0.48	
18	0.68	0.92	0.48	0.80	0.86	0.80	0.76	15.65	1.04	0.56	1.04	1.22	
19	0.92	0.56	0.68	0.76	2.21	1.10	0.80	6.70	1.34	0.60	0.72	1.40	
20	0.72	0.48	0.52	0.72	1.85	4.72	1.40	4.94	0.72	0.56	0.64	0.76	
21	0.60	0.40	0.64	0.68	4.28	5.16	3.40	4.94	1.16	0.52	0.56	0.64	
22	0.52	1.10	1.49	0.72	5.93	2.85	1.40	4.17	0.68	0.48	0.60	0.56	
23	0.64	0.80	1.40	0.64	2.96	1.94	1.85	3.84	0.64	0.52	0.68	0.56	
24	0.56	0.56	1.10	0.60	5.93	1.94	1.28	2.52	0.56	0.52	0.72	0.52	
25	0.76	0.80	4.39	0.60	5.05	3.95	1.16	2.12	0.64	0.52	0.64	0.64	
26	1.10	1.10	1.40	0.56	5.49	3.84	0.98	2.03	1.16	0.48	0.60	0.48	
27	0.86	0.72	0.86	0.56	2.74	3.84	0.98	2.30	1.34	0.48	0.56	0.44	
28	0.64	2.30	0.76	0.92	1.76	2.63	1.04	2.30	0.76	0.44	0.52	0.52	
29	0.64	2.03	0.98	0.72	1.34	2.30	1.58	2.85	0.76	0.48		0.44	
30	0.60	0.80	0.76	1.16	2.21	2.85	5.38	2.41	0.64	0.44		0.48	
31		1.04		0.98	4.61		5.38		0.60	0.40		0.68	
<b>Total</b>	26.69	22.21	29.77	36.60	70.05	60.88	62.26	97.02	33.00	16.76	24.22	16.70	496.16 CMSDAY
<b>Mean</b>	0.89	0.72	0.99	1.18	2.26	2.03	2.01	3.23	1.06	0.54	0.86	0.54	1.36 CMS
<b>Max</b>	2.63	2.30	4.39	4.83	6.04	5.16	5.38	15.65	3.18	0.64	3.18	1.40	15.65 CMS
<b>Min</b>	0.44	0.40	0.48	0.56	0.60	0.80	0.76	1.16	0.56	0.40	0.40	0.36	0.36 CMS
<b>Runoff</b>	2.31	1.92	2.57	3.16	6.05	5.26	5.38	8.38	2.85	1.45	2.09	1.44	42.87 MCM
<b>Momentary Peak</b>	28.10 CMS. at 3.55 m. (MSL.) at 05.00 Hours , on Nov 18, 2021												
<b>Runoff Yield</b>	24.27 Liters/Second/Square KM. Momentary Peak Yield 501.79 Liters/Second/Square KM.												

**WATER YEAR : 2021**  
**PENINSULA - WEST COAST**

**Khlong Kapong at Ban Tha Na , Phang Nga (X.196)**

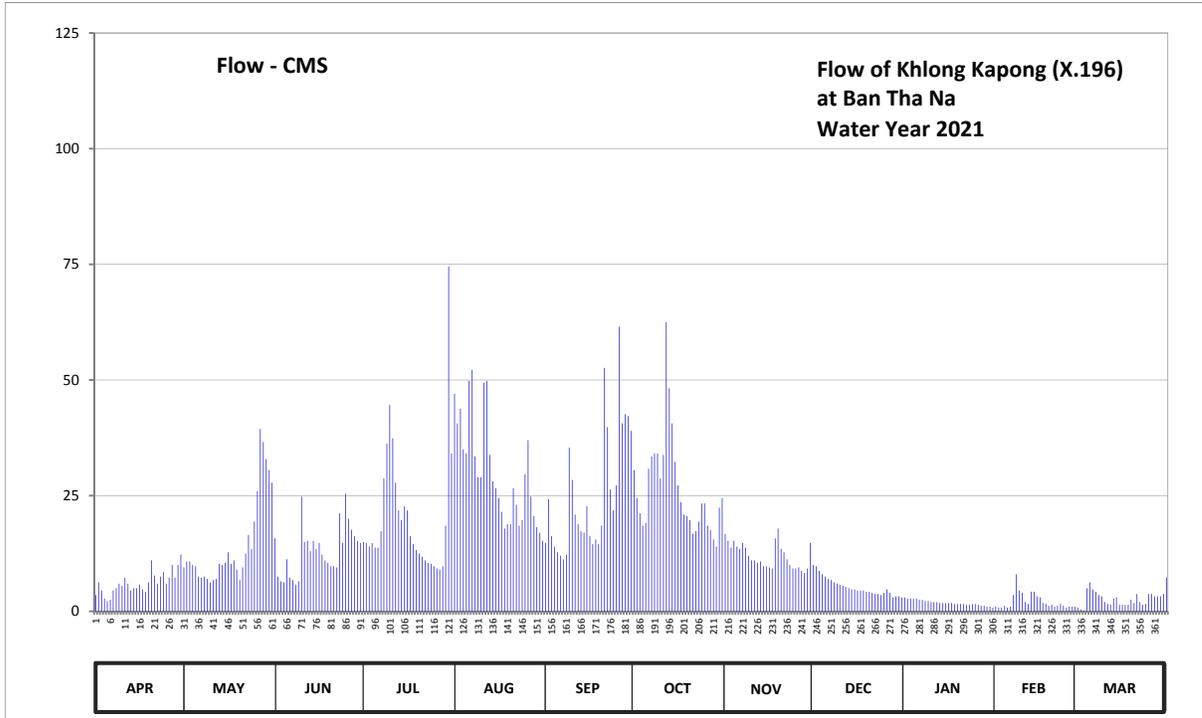
Lat 08 - 42 - 09 N Long 98 - 24 - 33 E

Location : on left bank at the bridge.

	<b>Ban Tha Na</b>	<b>Amphoe Kapong</b>	<b>Changwat Phang Nga</b>
<b>Drainage Area</b>	131	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the top staff gage.		<b>Elevation</b> +20.086 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.76	15.00	15.25	15.22	16.20	15.21	15.75	15.29	15.02	14.74	14.65	14.64	
2	14.87	15.05	14.92	15.21	16.04	15.54	15.55	15.23	15.01	14.73	14.64	14.62	
3	14.80	15.05	14.88	15.18	16.12	15.27	15.44	15.17	14.97	14.73	14.64	14.61	
4	14.73	15.02	14.87	15.21	15.90	15.18	15.35	15.23	14.94	14.73	14.66	14.82	
5	14.71	15.01	15.07	15.17	15.87	15.13	15.37	15.18	14.92	14.73	14.64	14.87	
6	14.72	14.92	14.91	15.17	16.27	15.10	15.76	15.16	14.90	14.72	14.65	14.81	
7	14.80	14.91	14.89	15.31	16.33	15.07	15.85	15.21	14.89	14.72	14.76	14.79	
8	14.82	14.92	14.85	15.69	15.85	15.11	15.87	15.17	14.87	14.71	14.94	14.76	
9	14.86	14.90	14.88	15.93	15.70	15.91	15.87	15.10	14.86	14.71	14.80	14.75	
10	14.84	14.87	15.56	16.14	15.70	15.68	15.69	15.06	14.85	14.70	14.78	14.70	
11	14.91	14.89	15.22	15.96	16.26	15.43	15.86	15.06	14.84	14.70	14.70	14.68	
12	14.86	14.90	15.23	15.66	16.27	15.36	16.55	15.04	14.83	14.70	14.68	14.67	
13	14.80	15.03	15.14	15.46	15.86	15.31	16.23	15.05	14.82	14.69	14.79	14.73	
14	14.82	15.02	15.23	15.39	15.67	15.30	16.04	15.01	14.81	14.69	14.79	14.74	
15	14.82	15.04	15.16	15.49	15.62	15.49	15.81	15.01	14.81	14.69	14.75	14.67	
16	14.85	15.13	15.21	15.46	15.55	15.27	15.64	15.00	14.80	14.69	14.74	14.67	
17	14.81	15.03	15.11	15.27	15.45	15.20	15.52	14.99	14.80	14.69	14.69	14.67	
18	14.79	15.06	15.06	15.20	15.33	15.24	15.43	15.25	14.80	14.68	14.68	14.67	
19	14.87	14.98	15.04	15.15	15.36	15.20	15.42	15.33	14.79	14.68	14.66	14.72	
20	15.06	14.89	15.01	15.12	15.36	15.35	15.39	15.16	14.79	14.68	14.67	14.69	
21	14.93	15.00	15.01	15.09	15.62	16.34	15.29	15.13	14.78	14.68	14.65	14.77	
22	14.86	15.12	15.00	15.06	15.50	16.02	15.31	15.07	14.77	14.67	14.66	14.70	
23	14.92	15.28	15.44	15.04	15.35	15.61	15.38	15.02	14.77	14.67	14.68	14.67	
24	14.96	15.16	15.21	15.03	15.39	15.46	15.51	14.99	14.76	14.68	14.66	14.68	
25	14.86	15.38	15.58	15.01	15.72	15.64	15.51	14.99	14.78	14.68	14.64	14.77	
26	14.91	15.60	15.40	14.99	15.95	16.53	15.35	15.00	14.81	14.67	14.65	14.77	
27	15.02	16.01	15.32	14.98	15.56	16.04	15.32	14.97	14.78	14.66	14.65	14.75	
28	14.91	15.94	15.27	15.01	15.42	16.09	15.24	14.95	14.74	14.66	14.65	14.75	
29	15.02	15.83	15.23	15.35	15.34	16.08	15.18	14.99	14.75	14.65		14.75	
30	15.11	15.75	15.21	16.75	15.30	16.00	15.48	15.21	14.75	14.65		14.77	
31		15.66		15.87	15.23		15.55		14.74	14.64		14.91	
Mean	14.87	15.17	15.14	15.37	15.71	15.54	15.60	15.10	14.83	14.69	14.70	14.73	
Max	15.11	16.01	15.58	16.75	16.33	16.53	16.55	15.33	15.02	14.74	14.94	14.91	16.75
Min	14.71	14.87	14.85	14.98	15.23	15.07	15.18	14.95	14.74	14.64	14.64	14.61	14.61
Annual Max Momentary Gage Height	17.72			m. (MSL.) ,	at 11.00 Hours , on Jul 30, 2021								
Zero Gage at Bottom Elevation	0.00			m. (MSL.) ,	River Bed	12.38		m. (MSL)					
Left Bank Elevation		18.54		m. (MSL.) ,									
Right Bank Elevation		19.18		m. (MSL.) ,	Drainage Are	131	Square Kilometers						

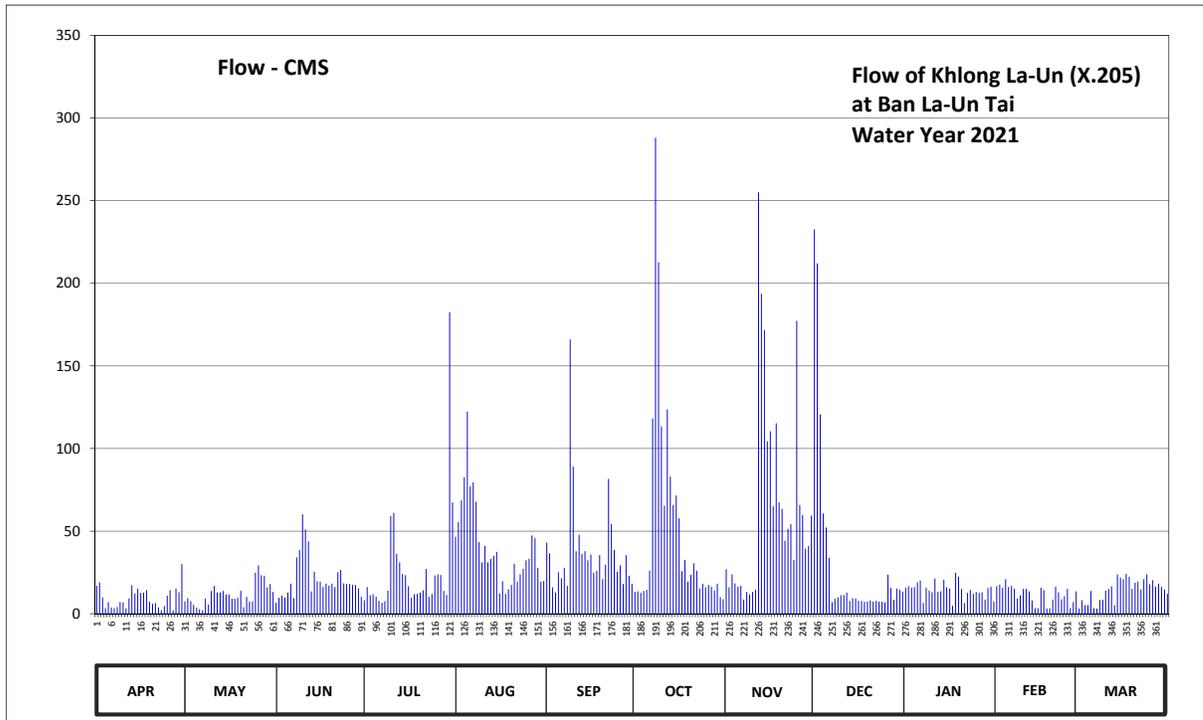


APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.50	9.50	15.75	15.00	47.00	14.75	30.50	16.75	10.00	3.00	1.00	0.80	
2	6.25	10.75	7.50	14.75	40.60	24.20	24.50	15.25	9.75	2.75	0.80	0.40	
3	4.50	10.75	6.50	14.00	43.80	16.25	21.20	13.75	8.75	2.75	0.80	0.20	
4	2.75	10.00	6.25	14.75	35.00	14.00	18.50	15.25	8.00	2.75	1.20	5.00	
5	2.25	9.75	11.25	13.75	34.10	12.75	19.10	14.00	7.50	2.75	0.80	6.25	
6	2.50	7.50	7.25	13.75	49.80	12.00	30.80	13.50	7.00	2.50	1.00	4.75	
7	4.50	7.25	6.75	17.30	52.20	11.25	33.50	14.75	6.75	2.50	3.50	4.25	
8	5.00	7.50	5.75	28.70	33.50	12.25	34.10	13.75	6.25	2.25	8.00	3.50	
9	6.00	7.00	6.50	36.20	29.00	35.40	34.10	12.00	6.00	2.25	4.50	3.25	
10	5.50	6.25	24.80	44.60	29.00	28.40	28.70	11.00	5.75	2.00	4.00	2.00	
11	7.25	6.75	15.00	37.40	49.40	20.90	33.80	11.00	5.50	2.00	2.00	1.60	
12	6.00	7.00	15.25	27.80	49.80	18.80	62.50	10.50	5.25	2.00	1.60	1.40	
13	4.50	10.25	13.00	21.80	33.80	17.30	48.20	10.75	5.00	1.80	4.25	2.75	
14	5.00	10.00	15.25	19.70	28.10	17.00	40.60	9.75	4.75	1.80	4.25	3.00	
15	5.00	10.50	13.50	22.70	26.60	22.70	32.30	9.75	4.75	1.80	3.25	1.40	
16	5.75	12.75	14.75	21.80	24.50	16.25	27.20	9.50	4.50	1.80	3.00	1.40	
17	4.75	10.25	12.25	16.25	21.50	14.50	23.60	9.25	4.50	1.80	1.80	1.40	
18	4.25	11.00	11.00	14.50	17.90	15.50	20.90	15.75	4.50	1.60	1.60	1.40	
19	6.25	9.00	10.50	13.25	18.80	14.50	20.60	17.90	4.25	1.60	1.20	2.50	
20	11.00	6.75	9.75	12.50	18.80	18.50	19.70	13.50	4.25	1.60	1.40	1.80	
21	7.75	9.50	9.75	11.75	26.60	52.60	16.75	12.75	4.00	1.60	1.00	3.75	
22	6.00	12.50	9.50	11.00	23.00	39.80	17.30	11.25	3.75	1.40	1.20	2.00	
23	7.50	16.50	21.20	10.50	18.50	26.30	19.40	10.00	3.75	1.40	1.60	1.40	
24	8.50	13.50	14.75	10.25	19.70	21.80	23.30	9.25	3.50	1.60	1.20	1.60	
25	6.00	19.40	25.40	9.75	29.60	27.20	23.30	9.25	4.00	1.60	0.80	3.75	
26	7.25	26.00	20.00	9.25	37.00	61.50	18.50	9.50	4.75	1.40	1.00	3.75	
27	10.00	39.40	17.60	9.00	24.80	40.60	17.60	8.75	4.00	1.20	1.00	3.25	
28	7.25	36.60	16.25	9.75	20.60	42.60	15.50	8.25	3.00	1.20	1.00	3.25	
29	10.00	32.90	15.25	18.50	18.20	42.20	14.00	9.25	3.25	1.00		3.25	
30	12.25	30.50	14.75	74.50	17.00	39.00	22.40	14.75	3.25	1.00		3.75	
31		27.80		34.10	15.25		24.50		3.00	0.80		7.25	
Total	185.00	445.10	393.00	628.85	933.45	750.80	816.95	360.65	163.25	57.50	58.75	86.05	4879.35 CMSDAY
Mean	6.17	14.36	13.10	20.29	30.11	25.03	26.35	12.02	5.27	1.85	2.10	2.78	13.37 CMS
Max	12.25	39.40	25.40	74.50	52.20	61.50	62.50	17.90	10.00	3.00	8.00	7.25	74.50 CMS
Min	2.25	6.25	5.75	9.00	15.25	11.25	14.00	8.25	3.00	0.80	0.80	0.20	0.20 CMS
Runoff	15.98	38.46	33.96	54.33	80.65	64.87	70.58	31.16	14.10	4.97	5.08	7.43	421.58 MCM
Momentary Peak		160.20	CMS. at 17.72 m. (MSL.)	at 11.00 Hours	on Jul 30, 2021								
Runoff Yield		102.05	Liters/Second/Square KM.		Momentary Peak Yield	1222.90	Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.80	7.40	6.60	8.20	46.60	43.00	13.20	26.90	232.60	15.80	16.60	3.20		
2	19.00	9.40	9.60	16.20	55.40	36.60	13.60	16.00	212.00	16.60	17.60	8.20		
3	9.80	7.60	11.00	11.20	68.60	16.00	12.60	23.90	120.60	15.80	15.80	5.20		
4	3.40	5.40	9.80	11.80	82.50	12.80	13.80	18.40	60.60	16.20	20.90	5.20		
5	7.00	3.70	12.80	10.40	122.40	25.10	14.40	16.40	52.20	19.00	16.20	13.80		
6	3.80	2.70	18.20	7.80	77.00	21.50	26.00	16.80	33.80	20.00	16.80	3.40		
7	3.40	2.10	9.40	6.60	79.50	27.80	118.20	8.60	7.00	6.40	15.20	3.10		
8	4.00	9.20	34.10	7.60	67.80	16.80	288.00	13.20	9.00	15.80	9.20	8.40		
9	7.00	5.60	38.60	14.00	43.40	166.00	212.80	11.60	9.90	14.00	11.20	8.40		
10	6.80	13.80	60.20	59.00	31.10	89.00	113.40	13.20	11.30	13.00	15.00	14.00		
11	3.30	16.80	51.00	61.00	41.00	37.80	65.40	14.60	11.40	21.20	15.00	15.00		
12	9.20	12.80	43.80	36.20	31.10	47.80	123.60	255.00	12.80	13.20	13.60	16.60		
13	17.20	12.80	13.60	31.10	33.20	36.20	83.00	193.60	7.70	13.60	8.00	5.20		
14	12.20	13.80	25.40	24.20	35.00	37.80	65.80	171.60	9.40	20.60	3.40	23.90		
15	15.20	11.60	19.60	23.30	37.40	32.30	71.50	104.40	9.20	16.00	3.40	21.80		
16	12.60	11.60	19.40	16.60	12.20	35.80	57.80	110.40	7.80	15.20	15.80	20.90		
17	12.80	9.00	16.20	9.60	19.60	24.80	25.70	65.00	7.80	4.80	14.20	24.20		
18	14.20	9.00	18.20	11.80	12.00	26.00	32.60	115.20	7.20	24.80	3.20	22.40		
19	7.20	9.60	17.00	12.00	14.80	35.40	19.40	67.40	7.30	22.40	3.40	15.00		
20	6.00	14.00	18.20	12.80	17.40	20.90	23.60	63.40	8.00	15.00	8.60	18.80		
21	6.40	3.90	16.20	14.20	30.20	29.60	30.50	44.20	7.30	6.40	16.40	19.40		
22	3.80	10.20	25.10	27.00	19.40	81.50	26.00	51.40	7.80	12.60	13.00	14.60		
23	2.10	7.40	26.60	10.20	23.90	54.20	15.20	54.20	7.30	14.40	8.80	20.90		
24	4.60	7.40	18.40	11.90	27.20	38.60	18.20	32.60	7.30	12.00	10.60	23.90		
25	11.00	24.80	18.00	23.20	32.30	25.40	16.00	177.20	6.80	13.20	15.00	17.80		
26	14.20	29.30	18.00	23.80	33.20	29.30	17.40	65.80	23.60	12.60	3.40	20.30		
27	2.00	23.30	17.40	23.40	47.40	18.00	16.40	59.80	15.60	13.00	7.00	16.40		
28	15.20	23.00	17.40	13.80	45.80	35.40	14.00	39.40	8.40	8.60	13.60	18.20		
29	13.00	16.00	15.40	11.40	27.80	23.00	18.20	41.00	15.20	15.60		16.20		
30	30.20	18.00	10.20	182.40	19.40	18.20	10.00	59.40	14.40	16.40		14.60		
31		13.20		67.40	19.80		8.80		13.40	7.40		12.00		
<b>Total</b>	<b>293.40</b>	<b>364.40</b>	<b>635.40</b>	<b>800.10</b>	<b>1254.40</b>	<b>1142.60</b>	<b>1585.10</b>	<b>1950.60</b>	<b>964.70</b>	<b>451.60</b>	<b>330.90</b>	<b>451.00</b>	<b>10224.20</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>9.78</b>	<b>11.75</b>	<b>21.18</b>	<b>25.81</b>	<b>40.46</b>	<b>38.09</b>	<b>51.13</b>	<b>65.02</b>	<b>31.12</b>	<b>14.57</b>	<b>11.82</b>	<b>14.55</b>	<b>28.01</b>	<b>CMS</b>
<b>Max</b>	<b>30.20</b>	<b>29.30</b>	<b>60.20</b>	<b>182.40</b>	<b>122.40</b>	<b>166.00</b>	<b>288.00</b>	<b>255.00</b>	<b>232.60</b>	<b>24.80</b>	<b>20.90</b>	<b>24.20</b>	<b>288.00</b>	<b>CMS</b>
<b>Min</b>	<b>2.00</b>	<b>2.10</b>	<b>6.60</b>	<b>6.60</b>	<b>12.00</b>	<b>12.80</b>	<b>8.80</b>	<b>8.60</b>	<b>6.80</b>	<b>4.80</b>	<b>3.20</b>	<b>3.10</b>	<b>2.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>25.35</b>	<b>31.48</b>	<b>54.90</b>	<b>69.13</b>	<b>108.38</b>	<b>98.72</b>	<b>136.95</b>	<b>168.53</b>	<b>83.35</b>	<b>39.02</b>	<b>28.59</b>	<b>38.97</b>	<b>883.37</b>	<b>MCM</b>
<b>Momentary Peak</b>	329.00 CMS. at 5.80 m. (MSL.) at 12.00 Hours , on Oct 8, 2021													
<b>Runoff Yield</b>	122.32 Liters/Second/Square KM. Momentary Peak Yield 1436.68 Liters/Second/Square KM.													

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlong Kra Buri at Ban Bang Nam Chud , Ranong (X.207)

Lat 10 - 24 - 00 N Long 98 - 47 - 11 E

Location : on left bank at the bridge.

	<b>Ban</b>	Bang Nam Chud	<b>Amphoe</b>	Kra buri	<b>Changwat</b>	Ranong
<b>Drainage Area</b>	45	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	on right bank at the bridge of downstream.				<b>Elevation</b>	+6.407 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings					
<b>Period of Available Gage Records</b>	2021 to date.					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2021 to date.					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2021 to date.					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 5.100 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.52	1.51	1.56	1.58	2.20	1.51	1.72	1.87	3.04	2.00	1.52	1.63	
2	1.52	1.50	1.53	1.56	1.88	1.54	2.00	1.72	2.56	1.99	1.52	1.64	
3	1.58	1.61	1.52	1.55	1.86	1.53	2.48	1.67	2.38	1.95	1.61	1.65	
4	1.63	1.58	1.54	1.57	2.16	1.52	2.69	1.65	2.30	1.92	1.65	1.66	
5	1.50	1.54	1.56	1.58	2.35	1.65	3.00	1.65	2.22	1.87	1.66	1.68	
6	1.50	1.55	1.51	1.59	2.00	1.91	3.43	1.64	2.18	1.79	1.63	1.68	
7	1.53	1.68	1.56	1.60	1.74	2.17	3.83	1.68	2.11	1.80	1.69	1.67	
8	1.62	1.56	1.90	1.69	1.68	2.28	4.69	1.70	2.07	1.80	1.71	1.60	
9	1.68	1.52	1.91	1.95	1.73	5.20	4.38	1.69	2.04	1.80	1.63	1.58	
10	1.71	1.51	1.62	4.11	1.78	4.61	4.31	1.68	2.01	1.80	1.58	1.54	
11	1.92	1.54	1.59	3.87	1.86	3.49	4.22	1.96	2.00	1.80	1.58	1.59	
12	1.80	1.60	1.59	2.85	2.06	3.03	3.98	2.53	2.00	1.80	1.64	1.65	
13	1.79	1.74	1.65	2.41	2.20	2.94	3.93	3.60	2.00	1.79	1.64	1.70	
14	1.53	1.65	1.81	2.31	2.45	2.78	3.91	4.12	1.98	1.78	1.63	1.70	
15	1.54	1.70	1.56	2.18	2.65	2.64	3.45	3.83	1.94	1.77	1.68	1.69	
16	1.53	1.69	1.71	2.11	2.53	2.26	2.76	2.75	1.92	1.77	1.60	1.70	
17	1.55	1.68	1.65	2.04	2.41	2.02	2.34	2.37	1.91	1.76	1.60	1.71	
18	1.54	1.75	1.59	1.93	2.26	1.88	2.31	2.26	1.90	1.74	1.59	1.69	
19	1.53	1.78	1.65	2.09	2.19	1.80	2.30	2.16	1.95	1.72	1.59	1.69	
20	1.52	1.90	1.76	2.13	2.19	1.79	2.16	2.41	1.97	1.70	1.58	1.69	
21	1.51	1.77	1.80	1.92	2.18	1.78	2.03	2.29	1.95	1.68	1.57	1.69	
22	1.52	1.70	2.05	2.35	2.15	1.81	1.94	2.19	1.91	1.67	1.56	1.70	
23	1.59	1.61	1.96	2.33	2.13	1.84	1.91	2.36	1.85	1.66	1.59	1.69	
24	1.61	1.77	2.03	2.12	2.05	1.92	1.85	2.35	1.79	1.65	1.61	1.65	
25	2.40	1.90	1.92	1.84	2.01	1.87	1.80	2.40	1.69	1.64	1.64	1.65	
26	2.30	2.07	2.05	1.80	2.14	1.85	2.03	3.43	1.87	1.63	1.67	1.80	
27	1.61	2.08	1.72	1.89	2.35	2.13	2.25	3.13	1.92	1.62	1.70	1.74	
28	1.56	2.18	1.69	1.90	2.25	1.93	2.40	2.77	1.87	1.61	1.70	1.71	
29	1.90	2.12	1.81	1.89	2.16	1.92	2.39	2.45	1.87	1.60		1.69	
30	1.72	1.98	1.71	2.07	2.06	1.81	2.30	2.64	1.87	1.60		1.68	
31		1.86		2.37	1.99		2.33		1.86	1.60		1.67	
Mean	1.66	1.73	1.72	2.10	2.12	2.25	2.81	2.37	2.03	1.75	1.62	1.67	
Max	2.40	2.18	2.05	4.11	2.65	5.20	4.69	4.12	3.04	2.00	1.71	1.80	5.20
Min	1.50	1.50	1.51	1.55	1.68	1.51	1.72	1.64	1.69	1.60	1.52	1.54	1.50
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											
Annual Max Momentary Gage Height	5.32												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation		5.26											
Right Bank Elevation		5.09											



## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Upper Khlong Kapoe at Ban Chaew Lueang , Ranong (X.208A)

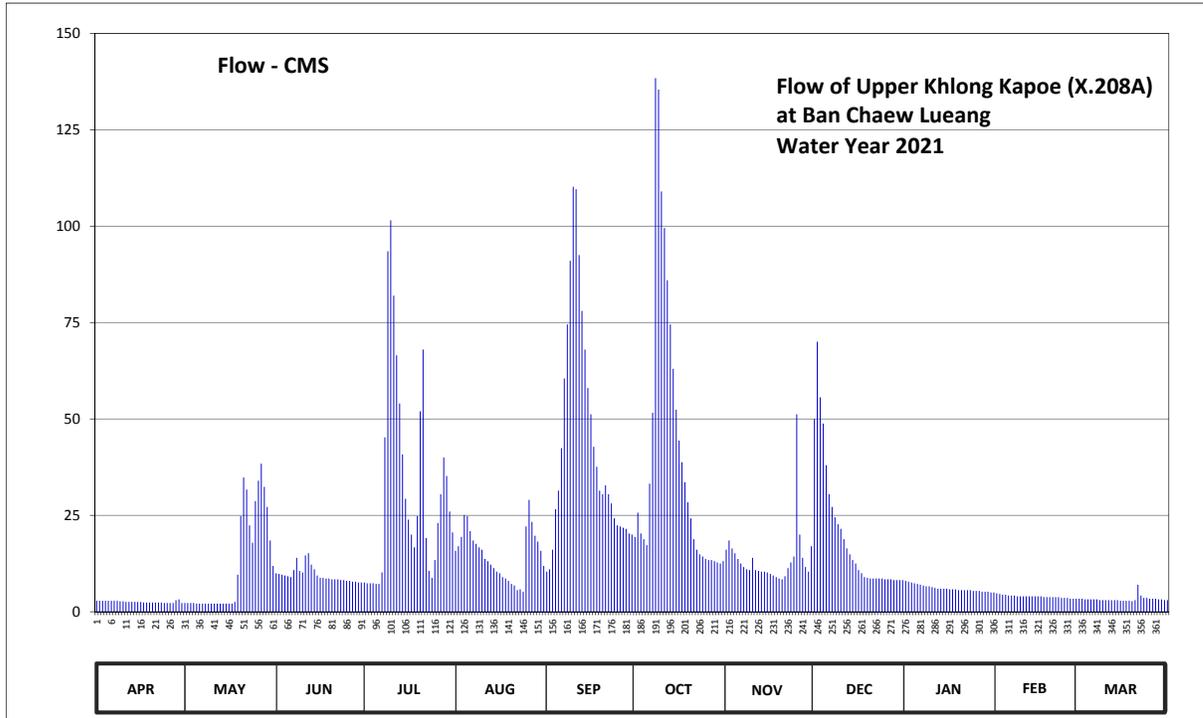
Lat 09 - 35 - 23 N Long 98 - 37 - 59 E

Location : on left bank at the bridge.

	<b>Ban</b>	<b>Chaew Lueang</b>	<b>Amphoe</b>	<b>Kapoe</b>	<b>Changwat</b>	<b>Ranong</b>
<b>Drainage Area</b>	189	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On the bridge over the water.				<b>Elevation</b>	+17.664 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings					
<b>Period of Available Gage Records</b>	2021 to date.					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2021 to date.					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2021 to date.					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

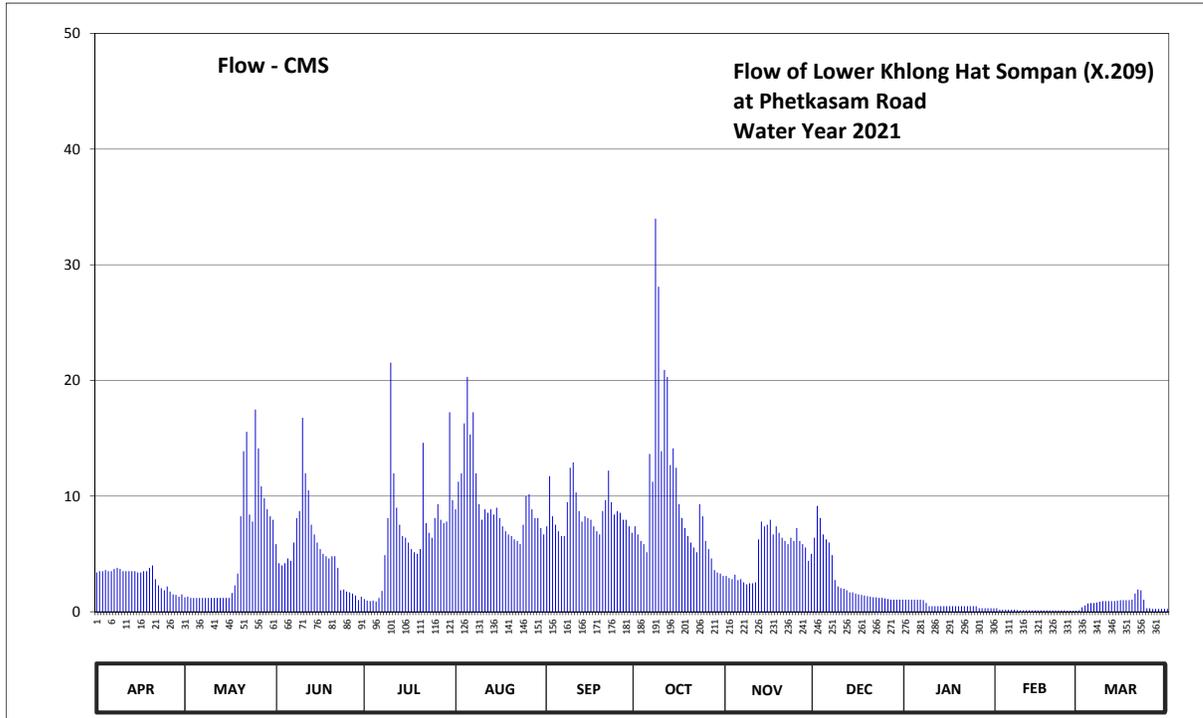
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.99	11.95	12.35	12.23	12.56	12.37	12.68	12.57	13.55	12.25	12.09	12.02	
2	11.99	11.95	12.34	12.22	12.60	12.40	12.89	12.65	13.98	12.24	12.08	12.02	
3	11.99	11.95	12.33	12.22	12.68	12.57	12.71	12.58	13.69	12.23	12.07	12.01	
4	11.99	11.95	12.32	12.22	12.87	12.92	12.66	12.54	13.52	12.22	12.07	12.01	
5	11.99	11.94	12.31	12.21	12.86	13.08	12.61	12.49	13.25	12.21	12.06	12.01	
6	11.99	11.94	12.30	12.21	12.73	13.36	13.13	12.45	13.05	12.20	12.06	12.01	
7	11.99	11.94	12.39	12.36	12.65	13.79	13.59	12.42	12.94	12.19	12.06	12.01	
8	11.99	11.94	12.50	13.43	12.62	14.07	15.24	12.40	12.85	12.18	12.05	12.00	
9	11.98	11.94	12.38	14.45	12.59	14.40	15.19	12.39	12.79	12.18	12.05	12.00	
10	11.98	11.94	12.36	14.61	12.57	14.77	14.75	12.50	12.75	12.17	12.05	12.00	
11	11.97	11.94	12.52	14.22	12.49	14.76	14.57	12.39	12.66	12.16	12.05	12.00	
12	11.97	11.94	12.54	13.91	12.47	14.43	14.30	12.38	12.58	12.15	12.05	12.00	
13	11.97	11.94	12.44	13.65	12.44	14.14	14.07	12.37	12.53	12.15	12.05	12.00	
14	11.97	11.94	12.40	13.32	12.41	13.94	13.84	12.37	12.48	12.15	12.05	12.00	
15	11.97	11.94	12.32	13.01	12.37	13.74	13.61	12.36	12.45	12.15	12.05	11.99	
16	11.97	11.94	12.29	12.83	12.35	13.58	13.41	12.34	12.39	12.14	12.05	11.99	
17	11.96	11.94	12.29	12.70	12.30	13.37	13.27	12.32	12.35	12.14	12.04	11.99	
18	11.96	11.97	12.28	12.59	12.28	13.24	13.14	12.30	12.30	12.14	12.04	11.99	
19	11.96	12.33	12.28	12.86	12.25	13.08	12.98	12.28	12.29	12.13	12.04	11.98	
20	11.96	12.86	12.27	13.60	12.21	13.05	12.84	12.27	12.28	12.13	12.04	12.00	
21	11.96	13.17	12.27	13.94	12.19	13.12	12.66	12.31	12.28	12.13	12.04	12.20	
22	11.96	13.09	12.27	12.67	12.13	13.05	12.57	12.41	12.28	12.13	12.04	12.06	
23	11.96	12.78	12.26	12.38	12.14	12.97	12.53	12.46	12.28	12.13	12.03	12.03	
24	11.95	12.63	12.26	12.29	12.11	12.84	12.51	12.51	12.28	12.12	12.03	12.03	
25	11.95	12.99	12.25	12.48	12.77	12.78	12.49	13.58	12.27	12.12	12.03	12.02	
26	11.95	13.15	12.25	12.80	13.00	12.77	12.48	12.70	12.27	12.12	12.02	12.02	
27	11.95	13.26	12.24	13.05	12.81	12.76	12.48	12.50	12.27	12.11	12.02	12.02	
28	12.00	13.11	12.24	13.30	12.69	12.75	12.47	12.42	12.26	12.11	12.02	12.01	
29	12.01	12.94	12.23	13.18	12.64	12.71	12.46	12.37	12.26	12.11	12.01	12.01	
30	11.95	12.65	12.23	12.90	12.56	12.70	12.45	12.60	12.26	12.10	12.00	12.00	
31		12.43		12.72	12.43		12.47		12.26	12.10	12.00	12.00	
Mean	11.97	12.33	12.32	12.99	12.51	13.32	13.20	12.47	12.63	12.15	12.05	12.01	
Max	12.01	13.26	12.54	14.61	13.00	14.77	15.24	13.58	13.98	12.25	12.09	12.20	15.24
Min	11.95	11.94	12.23	12.21	12.11	12.37	12.45	12.27	12.26	12.10	12.02	11.98	11.94
Annual Max Momentary Gage Height	15.75		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	11.48	m. (MSL.)					
Left Bank Elevation		16.45	m. (MSL.) ,										
Right Bank Elevation		16.54	m. (MSL.) ,			Drainage Are	189	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.85	2.25	10.00	7.60	15.80	10.40	19.40	16.10	50.00	8.00	4.80	3.40	
2	2.85	2.25	9.80	7.40	17.00	11.00	25.70	18.50	70.00	7.80	4.60	3.40	
3	2.85	2.25	9.60	7.40	19.40	16.10	20.30	16.40	55.60	7.60	4.40	3.20	
4	2.85	2.25	9.40	7.40	25.10	26.60	18.80	15.20	48.80	7.40	4.40	3.20	
5	2.85	2.10	9.20	7.20	24.80	31.40	17.30	13.70	38.00	7.20	4.20	3.20	
6	2.85	2.10	9.00	7.20	20.90	42.40	33.20	12.50	30.50	7.00	4.20	3.20	
7	2.85	2.10	10.80	10.20	18.50	60.50	51.60	11.60	27.20	6.80	4.20	3.20	
8	2.85	2.10	14.00	45.20	17.60	74.50	138.40	11.00	24.50	6.60	4.00	3.00	
9	2.70	2.10	10.60	93.50	16.70	91.00	135.40	10.80	22.70	6.60	4.00	3.00	
10	2.70	2.10	10.20	101.50	16.10	110.20	109.00	14.00	21.50	6.40	4.00	3.00	
11	2.55	2.10	14.60	82.00	13.70	109.60	99.50	10.80	18.80	6.20	4.00	3.00	
12	2.55	2.10	15.20	66.50	13.10	92.50	86.00	10.60	16.40	6.00	4.00	3.00	
13	2.55	2.10	12.20	54.00	12.20	78.00	74.50	10.40	14.90	6.00	4.00	3.00	
14	2.55	2.10	11.00	40.80	11.30	68.00	63.00	10.40	13.40	6.00	4.00	3.00	
15	2.55	2.10	9.40	29.30	10.40	58.00	52.40	10.20	12.50	6.00	4.00	2.85	
16	2.55	2.10	8.80	23.90	10.00	51.20	44.40	9.80	10.80	5.80	4.00	2.85	
17	2.40	2.10	8.80	20.00	9.00	42.80	38.80	9.40	10.00	5.80	3.80	2.85	
18	2.40	2.55	8.60	16.70	8.60	37.60	33.60	9.00	9.00	5.80	3.80	2.85	
19	2.40	9.60	8.60	24.80	8.00	31.40	28.40	8.60	8.80	5.60	3.80	2.70	
20	2.40	24.80	8.40	52.00	7.20	30.50	24.20	8.40	8.60	5.60	3.80	3.00	
21	2.40	34.80	8.40	68.00	6.80	32.80	18.80	9.20	8.60	5.60	3.80	7.00	
22	2.40	31.70	8.40	19.10	5.60	30.50	16.10	11.30	8.60	5.60	3.80	4.20	
23	2.40	22.40	8.20	10.60	5.80	28.10	14.90	12.80	8.60	5.60	3.60	3.60	
24	2.25	17.90	8.20	8.80	5.20	24.20	14.30	14.30	8.60	5.40	3.60	3.60	
25	2.25	28.70	8.00	13.40	22.10	22.40	13.70	51.20	8.40	5.40	3.60	3.40	
26	2.25	34.00	8.00	23.00	29.00	22.10	13.40	20.00	8.40	5.40	3.40	3.40	
27	2.25	38.40	7.80	30.50	23.30	21.80	13.40	14.00	8.40	5.20	3.40	3.40	
28	3.00	32.40	7.80	40.00	19.70	21.50	13.10	11.60	8.20	5.20	3.40	3.20	
29	3.20	27.20	7.60	35.20	18.20	20.30	12.80	10.40	8.20	5.20	3.40	3.20	
30	2.25	18.50	7.60	26.00	15.80	20.00	12.50	17.00	8.20	5.00	3.40	3.00	
31		11.90		20.60	11.90		13.10		8.20	5.00	3.40	3.00	
<b>Total</b>	77.75	371.15	288.20	999.80	458.80	1317.40	1270.00	409.20	604.40	188.80	110.60	101.90	6198.00 CMSDAY
<b>Mean</b>	2.59	11.97	9.61	32.25	14.80	43.91	40.97	13.64	19.50	6.09	3.95	3.29	16.98 CMS
<b>Max</b>	3.20	38.40	15.20	101.50	29.00	110.20	138.40	51.20	70.00	8.00	4.80	7.00	138.40 CMS
<b>Min</b>	2.25	2.10	7.60	7.20	5.20	10.40	12.50	8.40	8.20	5.00	3.40	2.70	2.10 CMS
<b>Runoff</b>	6.72	32.07	24.90	86.38	39.64	113.82	109.73	35.35	52.22	16.31	9.56	8.80	535.51 MCM
<b>Momentary Peak</b>		173.50		CMS. at 15.75 m. (MSL.)		at 18.00 Hours		on Oct 8, 2021					
<b>Runoff Yield</b>		89.85		Liters/Second/Square KM.		Momentary Peak Yield	917.99		Liters/Second/Square KM.				

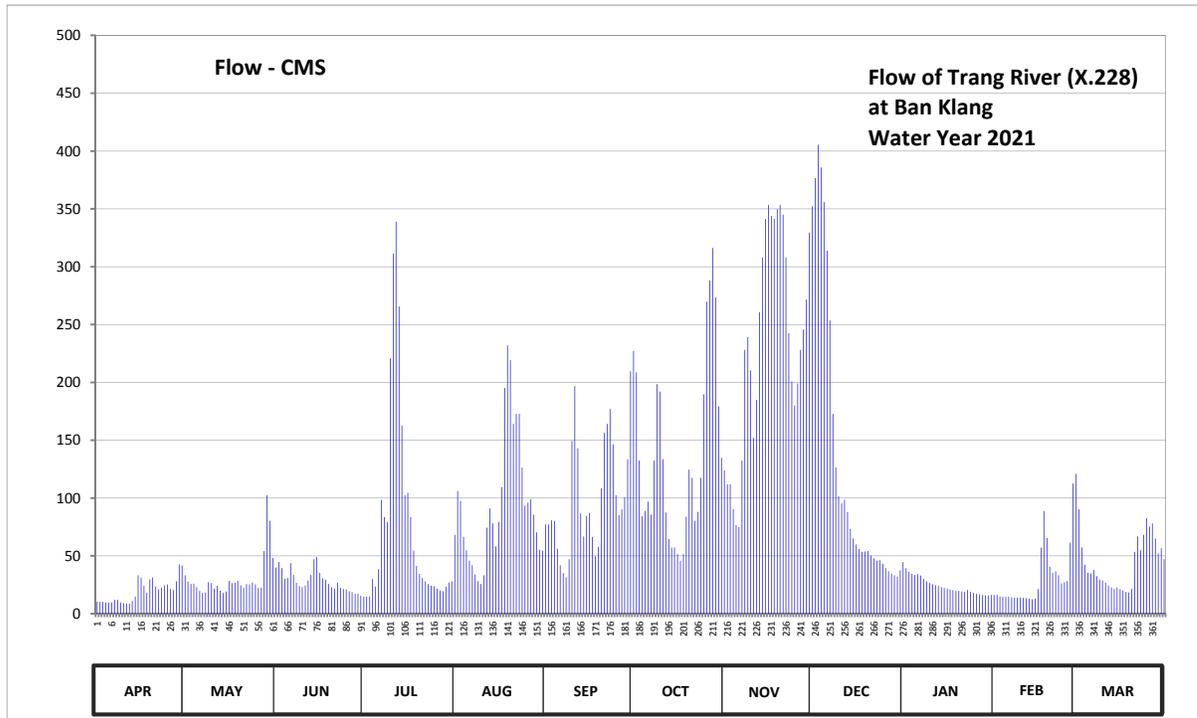




Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.40	1.25	5.84	1.10	8.85	7.38	7.38	3.10	6.40	1.05	0.30	0.12	
2	3.50	1.30	4.20	0.96	11.24	11.72	6.68	2.91	9.15	1.05	0.18	0.39	
3	3.50	1.20	4.00	0.92	11.96	8.25	6.12	2.82	8.10	1.05	0.18	0.54	
4	3.60	1.20	4.20	0.96	16.28	7.52	5.84	3.20	6.68	1.05	0.18	0.72	
5	3.50	1.20	4.60	0.88	20.30	6.96	5.14	2.73	6.26	1.05	0.18	0.76	
6	3.50	1.20	4.40	1.20	15.32	6.54	13.64	2.82	5.98	1.05	0.18	0.76	
7	3.70	1.20	5.98	1.80	17.24	6.54	11.24	2.55	4.90	1.00	0.18	0.80	
8	3.80	1.20	8.10	4.90	11.96	9.47	33.98	2.37	2.73	0.76	0.15	0.88	
9	3.70	1.20	8.70	8.10	9.30	12.44	28.10	2.46	2.19	0.48	0.12	0.92	
10	3.50	1.20	16.76	21.53	7.95	12.92	13.88	2.46	2.04	0.48	0.12	0.92	
11	3.50	1.20	11.96	11.96	8.85	10.32	20.90	2.55	1.98	0.48	0.12	0.92	
12	3.50	1.20	10.49	9.00	8.55	8.70	20.30	6.26	1.86	0.48	0.12	0.92	
13	3.50	1.20	7.52	7.52	8.85	7.80	12.68	7.80	1.68	0.48	0.12	0.92	
14	3.50	1.20	6.68	6.54	8.40	8.25	14.12	7.38	1.68	0.48	0.12	0.96	
15	3.40	1.20	5.98	6.40	9.00	8.10	12.44	7.52	1.56	0.48	0.12	1.00	
16	3.40	1.20	5.42	5.98	8.10	7.95	9.30	7.95	1.50	0.48	0.12	1.00	
17	3.50	1.62	5.00	5.42	7.38	7.38	8.10	6.68	1.45	0.48	0.12	1.00	
18	3.50	2.28	4.80	5.14	6.96	6.96	7.24	7.38	1.40	0.48	0.12	1.00	
19	3.80	3.30	4.60	5.00	6.68	6.68	6.54	6.82	1.35	0.48	0.12	1.05	
20	4.00	8.25	4.80	5.42	6.54	8.70	5.98	6.40	1.30	0.48	0.12	1.56	
21	2.82	13.88	4.80	14.60	6.26	9.64	5.56	6.12	1.25	0.48	0.12	1.92	
22	2.28	15.56	3.80	7.66	6.12	12.20	5.14	5.84	1.25	0.48	0.12	1.86	
23	2.04	8.40	1.86	6.82	5.84	9.47	9.30	6.40	1.20	0.48	0.12	1.05	
24	1.86	7.80	1.92	6.40	7.52	8.40	8.25	6.12	1.20	0.48	0.12	0.30	
25	2.19	17.48	1.74	8.10	9.98	8.70	6.12	7.24	1.15	0.48	0.09	0.30	
26	1.74	14.12	1.68	9.30	10.15	8.55	5.42	6.12	1.10	0.30	0.09	0.24	
27	1.50	10.83	1.56	7.95	8.85	7.95	4.60	5.84	1.05	0.30	0.09	0.24	
28	1.45	9.81	1.40	7.66	8.10	7.95	3.60	5.56	1.05	0.30	0.09	0.24	
29	1.30	8.85	1.00	7.80	8.10	7.38	3.40	4.40	1.05	0.30		0.24	
30	1.50	8.25	1.30	17.24	7.24	6.82	3.30	5.00	1.05	0.30		0.24	
31		7.95		9.64	6.68		3.10		1.05	0.30		0.24	
Total	89.98	157.73	155.09	213.90	294.55	257.64	307.39	152.80	82.59	18.02	3.81	24.01	1757.51 CMSDAY
Mean	3.00	5.09	5.17	6.90	9.50	8.59	9.92	5.09	2.66	0.58	0.14	0.77	4.82 CMS
Max	4.00	17.48	16.76	21.53	20.30	12.92	33.98	7.95	9.15	1.05	0.30	1.92	33.98 CMS
Min	1.30	1.20	1.00	0.88	5.84	6.54	3.10	2.37	1.05	0.30	0.09	0.12	0.09 CMS
Runoff	7.77	13.63	13.40	18.48	25.45	22.26	26.56	13.20	7.14	1.56	0.33	2.07	151.85 MCM
Momentary Peak	88.00	CMS.	at 10.00 m. (MSL.)	at 02.00 Hours	on Jul 30, 2021								
Runoff Yield	120.38	Liters/Second/Square KM.		Momentary Peak Yield	2200.00	Liters/Second/Square KM.							





APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.25	33.30	39.85	14.75	68.15	77.15	227.20	124.00	352.20	44.75	16.25	121.00	
2	10.25	27.75	44.75	14.75	106.00	77.15	208.80	112.00	376.50	39.50	16.25	90.20	
3	10.25	25.75	39.50	15.00	97.50	80.75	132.40	112.00	405.40	36.35	15.00	57.40	
4	9.80	26.00	30.30	30.00	66.35	80.30	84.35	90.20	385.80	34.50	14.50	42.30	
5	9.80	23.00	30.90	23.50	54.90	56.30	88.85	76.70	355.80	33.60	14.75	35.40	
6	9.80	19.75	43.70	38.45	45.80	41.95	97.00	74.90	313.80	34.20	14.75	34.80	
7	12.00	18.00	33.60	98.50	41.95	35.10	85.70	132.40	253.60	33.00	14.25	37.75	
8	12.00	18.25	26.75	83.45	33.90	31.50	132.40	228.00	172.80	30.00	14.00	32.40	
9	9.60	27.25	24.00	79.40	28.25	47.20	198.40	239.20	126.40	28.00	13.75	29.50	
10	9.20	26.50	23.00	220.80	25.75	149.30	192.00	210.40	101.50	26.50	14.00	28.75	
11	8.80	21.75	24.50	311.40	33.30	196.80	133.60	152.10	95.50	25.50	13.75	26.75	
12	8.60	24.25	28.75	339.00	74.45	143.00	87.50	184.80	98.50	24.75	13.50	24.25	
13	11.00	20.00	33.60	265.60	91.10	86.60	64.60	260.80	87.95	24.00	13.00	22.75	
14	14.75	18.00	47.20	162.60	78.05	66.80	57.00	307.90	73.10	23.00	12.50	21.50	
15	33.30	19.25	48.95	102.50	58.20	84.35	57.40	341.40	65.00	22.25	13.00	22.75	
16	31.20	28.50	35.40	104.50	79.40	87.05	51.40	353.40	59.80	21.75	21.25	21.25	
17	24.25	26.50	30.60	83.45	109.50	66.35	45.45	343.80	55.95	21.00	57.00	20.25	
18	18.00	26.75	29.25	54.55	195.20	49.65	51.40	341.40	53.50	20.50	88.85	19.00	
19	29.75	28.75	25.75	41.25	232.00	57.80	83.90	349.80	53.85	19.75	65.45	18.25	
20	31.50	24.50	23.00	34.50	219.20	108.50	124.60	353.40	54.20	19.75	40.55	21.50	
21	23.50	22.25	21.75	30.90	164.00	156.30	117.40	345.00	50.35	19.25	35.40	53.50	
22	21.00	25.75	27.00	28.00	172.80	164.00	80.30	307.90	47.90	19.00	36.70	66.80	
23	22.50	25.50	22.25	25.75	172.80	176.80	87.95	242.40	45.80	20.50	33.30	54.90	
24	24.50	27.00	21.50	24.25	126.40	146.50	117.40	200.80	46.15	19.00	26.25	68.15	
25	25.25	25.50	21.00	23.75	93.50	102.50	189.60	180.00	43.00	18.00	27.25	82.55	
26	21.50	22.25	19.50	21.75	96.00	85.25	269.80	199.20	39.50	17.25	28.25	75.35	
27	20.50	22.50	18.75	20.25	99.00	90.20	288.10	228.00	36.70	16.75	61.40	78.05	
28	28.00	54.20	17.25	19.50	85.70	100.50	316.20	245.60	34.80	16.25	112.60	65.00	
29	42.65	102.50	17.25	23.50	70.40	133.60	273.40	271.60	33.30	16.00		52.10	
30	41.60	80.30	15.50	27.00	55.25	209.60	179.20	329.40	32.10	15.75		56.65	
31		48.25		28.00	54.55		134.80		37.40	16.25		47.20	
Total	585.10	939.80	865.10	2390.60	2929.35	2988.85	4258.10	6938.50	3988.15	756.65	847.50	1428.00	28915.70 CMSDAY
Mean	19.50	30.32	28.84	77.12	94.50	99.63	137.36	231.28	128.65	24.41	30.27	46.06	79.22 CMS
Max	42.65	102.50	48.95	339.00	232.00	209.60	316.20	353.40	405.40	44.75	112.60	121.00	405.40 CMS
Min	8.60	18.00	15.50	14.75	25.75	31.50	45.45	74.90	32.10	15.75	12.50	18.25	8.60 CMS
Runoff	50.55	81.20	74.74	206.55	253.10	258.24	367.90	599.49	344.58	65.37	73.22	123.38	2498.32 MCM
Momentary Peak	411.00	CMS. at 8.10 m. (MSL.)					at 14.00 Hours , on Dec 3, 2021						
Runoff Yield	29.43	Liters/Second/Square KM.					Momentary Peak Yield	152.67	Liters/Second/Square KM.				

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Lower Trang River at Ban Sai Han , Trang (X.233)

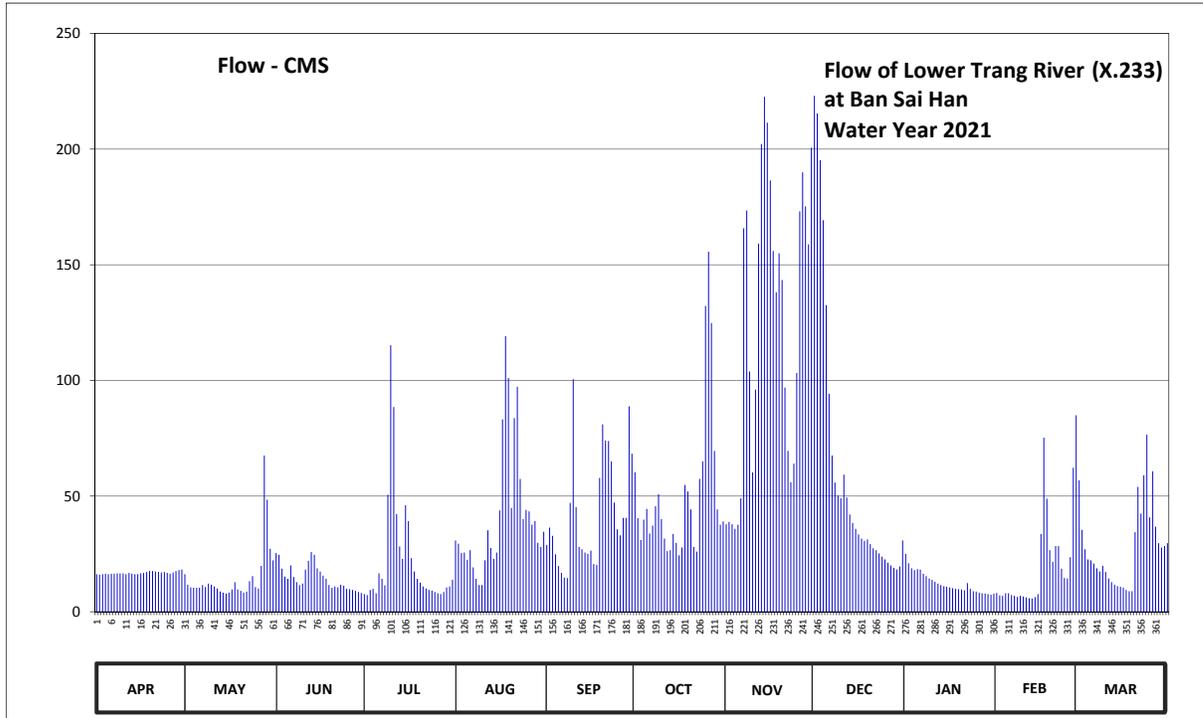
Lat 07 - 54 - 27 N Long 99 - 32 - 33 E

Location : on left bank at BanSai Han.

	<b>Ban</b>	Ban Sai Han	<b>Amphoe</b>	Huai Yot	<b>Changwat</b>	Trang
<b>Drainage Area</b>	940	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage site.				<b>Elevation</b>	+21.000 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2004 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2004 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2004 to date					
<b>Stability of Channel Regimes</b>	Stable by some scouring.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 21.140 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2021.					

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.01	14.01	14.47	13.51	14.74	14.64	16.19	15.09	21.20	14.45	13.54	16.04	
2	14.00	13.78	14.43	13.48	14.67	15.02	15.22	15.14	21.01	14.25	13.47	14.97	
3	14.01	13.70	14.13	13.63	14.47	14.84	14.75	15.09	20.49	14.14	13.46	14.55	
4	14.02	13.69	13.96	13.66	14.48	14.44	15.19	14.99	19.75	14.10	13.53	14.33	
5	14.01	13.69	13.91	13.53	14.32	14.19	15.42	15.08	18.70	14.12	13.53	14.31	
6	14.02	13.69	14.20	14.03	14.53	14.04	14.89	15.65	17.44	14.11	13.48	14.24	
7	14.02	13.77	13.95	13.91	14.16	13.94	15.06	19.65	16.48	14.02	13.46	14.14	
8	14.03	13.71	13.84	13.76	13.91	13.93	15.48	19.87	15.99	13.97	13.43	14.07	
9	14.03	13.81	13.77	15.73	13.77	15.55	15.74	17.76	15.71	13.92	13.46	14.19	
10	14.03	13.78	13.81	18.14	13.77	17.65	15.20	16.19	15.65	13.89	13.44	14.06	
11	14.01	13.73	14.11	17.25	14.31	15.46	14.78	17.50	16.15	13.85	13.41	13.92	
12	14.04	13.67	14.30	15.31	14.96	14.60	14.51	19.46	15.67	13.81	13.39	13.84	
13	14.02	13.58	14.49	14.61	14.58	14.55	14.53	20.68	15.30	13.77	13.38	13.78	
14	14.01	13.55	14.43	14.34	14.34	14.48	14.88	21.19	15.12	13.74	13.42	13.74	
15	14.01	13.52	14.14	15.50	14.48	14.45	14.69	20.91	14.99	13.72	13.51	13.72	
16	14.03	13.55	14.07	15.16	15.39	14.52	14.42	20.24	14.87	13.70	14.88	13.69	
17	14.04	13.64	13.98	14.36	17.07	14.23	14.59	19.37	14.78	13.68	16.79	13.63	
18	14.06	13.84	13.91	14.07	18.27	14.21	15.94	18.86	14.73	13.66	15.64	13.59	
19	14.08	13.64	13.77	13.91	17.67	16.09	15.80	19.34	14.76	13.65	14.53	13.59	
20	14.08	13.60	13.69	13.83	15.44	17.00	15.41	19.01	14.66	13.64	14.28	14.92	
21	14.07	13.55	13.73	13.73	17.09	16.74	14.60	17.53	14.57	13.62	14.62	15.90	
22	14.06	13.58	13.70	13.67	17.54	16.73	14.50	16.56	14.53	13.82	14.62	15.32	
23	14.05	13.86	13.78	13.63	16.07	16.38	16.07	16.00	14.46	13.66	14.13	16.14	
24	14.06	13.97	13.75	13.61	15.20	15.56	16.38	16.34	14.39	13.59	13.93	16.84	
25	14.04	13.71	13.66	13.57	15.40	14.98	18.69	17.74	14.33	13.58	13.92	15.24	
26	14.02	13.67	13.65	13.53	15.37	14.85	19.36	19.86	14.26	13.55	14.38	16.21	
27	14.05	14.19	13.63	13.51	15.08	15.23	18.46	20.34	14.20	13.53	16.27	15.04	
28	14.08	16.48	13.60	13.57	15.16	15.23	16.56	19.92	14.15	13.52	17.13	14.68	
29	14.10	15.62	13.57	13.70	14.69	17.26	15.41	19.45	14.11	13.51		14.59	
30	14.11	14.56	13.54	13.73	14.60	16.51	15.08	20.64	14.18	13.49		14.62	
31		14.31		13.89	14.93		15.15		14.74	13.52		14.68	
Mean	14.04	13.92	13.93	14.25	15.18	15.24	15.58	18.18	15.85	13.79	14.18	14.60	
Max	14.11	16.48	14.49	18.14	18.27	17.65	19.36	21.19	21.20	14.45	17.13	16.84	21.20
Min	14.00	13.52	13.54	13.48	13.77	13.93	14.42	14.99	14.11	13.49	13.38	13.59	13.38
Annual Max Momentary Gage Height	21.24		m. (MSL.) ,				at 08.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	12.21	m. (MSL.)					
Left Bank Elevation		21.74		m. (MSL.) ,									
Right Bank Elevation		21.13		m. (MSL.) ,		Drainage Are	940	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.20	16.20	25.40	7.65	30.80	28.80	60.25	37.80	223.00	25.00	8.10	56.80		
2	16.00	11.70	24.60	7.20	29.40	36.40	40.40	38.80	215.40	21.00	7.05	35.40		
3	16.20	10.50	18.60	9.45	25.40	32.80	31.00	37.80	195.15	18.80	6.90	27.00		
4	16.40	10.35	15.20	9.90	25.60	24.80	39.80	35.80	169.25	18.00	7.95	22.60		
5	16.20	10.35	14.20	7.95	22.40	19.80	44.40	37.60	132.50	18.40	7.95	22.20		
6	16.40	10.35	20.00	16.60	26.60	16.80	33.80	49.00	94.20	18.20	7.20	20.80		
7	16.40	11.55	15.00	14.20	19.20	14.80	37.20	165.75	67.50	16.40	6.90	18.80		
8	16.60	10.65	12.80	11.40	14.20	14.60	45.60	173.45	55.80	15.40	6.45	17.40		
9	16.60	12.20	11.55	50.60	11.55	47.00	50.80	103.80	50.20	14.40	6.90	19.80		
10	16.60	11.70	12.20	115.20	11.55	100.50	40.00	60.25	49.00	13.80	6.60	17.20		
11	16.20	10.95	18.20	88.50	22.20	45.20	31.60	96.00	59.25	13.00	6.15	14.40		
12	16.80	10.05	22.00	42.20	35.20	28.00	26.20	159.10	49.40	12.20	5.85	12.80		
13	16.40	8.70	25.80	28.20	27.60	27.00	26.60	202.20	42.00	11.55	5.70	11.70		
14	16.20	8.25	24.60	22.80	22.80	25.60	33.60	222.60	38.40	11.10	6.30	11.10		
15	16.20	7.80	18.80	46.00	25.60	25.00	29.80	211.40	35.80	10.80	7.65	10.80		
16	16.60	8.25	17.40	39.20	43.80	26.40	24.40	186.40	33.40	10.50	33.60	10.35		
17	16.80	9.60	15.60	23.20	83.10	20.60	27.80	155.95	31.60	10.20	75.25	9.45		
18	17.20	12.80	14.20	17.40	119.10	20.20	54.80	138.10	30.60	9.90	48.80	8.85		
19	17.60	9.60	11.55	14.20	101.10	57.80	52.00	154.90	31.20	9.75	26.60	8.85		
20	17.60	9.00	10.35	12.60	44.80	81.00	44.20	143.35	29.20	9.60	21.60	34.40		
21	17.40	8.25	10.95	10.95	83.70	74.00	28.00	96.90	27.40	9.30	28.40	54.00		
22	17.20	8.70	10.50	10.05	97.20	73.75	26.00	69.50	26.60	12.40	28.40	42.40		
23	17.00	13.20	11.70	9.45	57.40	65.00	57.40	56.00	25.20	9.90	18.60	59.00		
24	17.20	15.40	11.25	9.15	40.00	47.20	65.00	64.00	23.80	8.85	14.60	76.50		
25	16.80	10.65	9.90	8.55	44.00	35.60	132.15	103.20	22.60	8.70	14.40	40.80		
26	16.40	10.05	9.75	7.95	43.40	33.00	155.60	173.10	21.20	8.25	23.60	60.75		
27	17.00	19.80	9.45	7.65	37.60	40.60	124.80	189.90	20.00	7.95	62.25	36.80		
28	17.60	67.50	9.00	8.55	39.20	40.60	69.50	175.20	19.00	7.80	84.90	29.60		
29	18.00	48.40	8.55	10.50	29.80	88.80	44.20	158.75	18.20	7.65		27.80		
30	18.20	27.20	8.10	10.95	28.00	68.25	37.60	200.60	19.60	7.35		28.40		
31		22.20		13.80	34.60		39.00		30.80	7.80		29.60		
Total	504.00	461.90	447.20	692.00	1276.90	1259.90	1553.50	3697.20	1887.25	383.95	584.65	876.35	13624.80	CMSDAY
Mean	16.80	14.90	14.91	22.32	41.19	42.00	50.11	123.24	60.88	12.39	20.88	28.27	37.33	CMS
Max	18.20	67.50	25.80	115.20	119.10	100.50	155.60	222.60	223.00	25.00	84.90	76.50	223.00	CMS
Min	16.00	7.80	8.10	7.20	11.55	14.60	24.40	35.80	18.20	7.35	5.70	8.85	5.70	CMS
Runoff	43.55	39.91	38.64	59.79	110.32	108.86	134.22	319.44	163.06	33.17	50.51	75.72	1177.18	MCM
Momentary Peak		224.60	CMS. at 21.24 m. (MSL.)											on Dec 1, 2021
Runoff Yield		39.71	Liters/Second/Square KM.											Momentary Peak Yield 238.94 Liters/Second/Square KM.





## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Lower Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

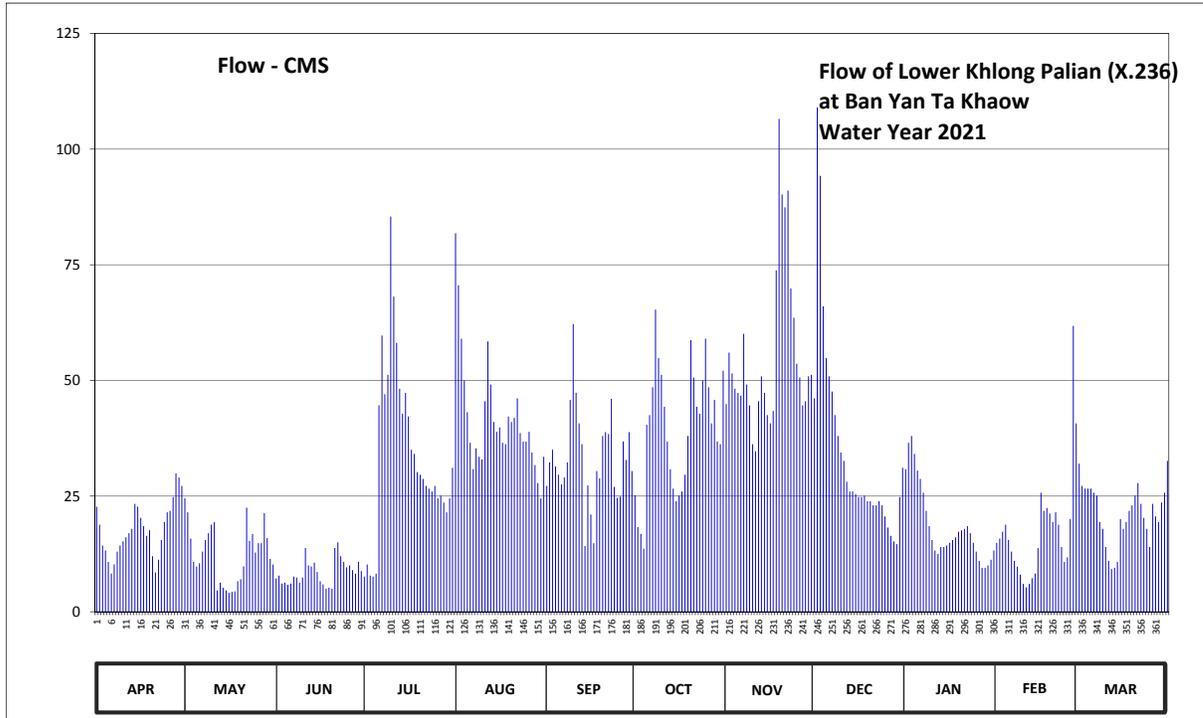
Lat 07 - 22 - 19 N Long 99 - 40 - 37 E

Location : on right bank at Ban Yan Ta Khaow.

	Ban Yan Ta Khaow	Amphoe Yan Ta Khaow	Changwat Trang
<b>Drainage Area</b>	731 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+5.628 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date.		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date.		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2004 to date.		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.69	0.75	0.81	0.83	2.52	0.84	1.54	1.43	1.47	0.96	0.43	1.00	
2	0.56	0.65	0.84	0.96	2.23	1.01	1.31	1.80	3.16	1.15	0.46	0.84	
3	0.41	0.46	0.71	0.84	1.90	1.10	1.26	1.65	2.83	1.20	0.51	0.82	
4	0.37	0.27	0.73	0.83	1.60	0.98	1.13	1.54	2.10	1.07	0.56	0.82	
5	0.27	0.23	0.68	0.86	1.37	0.92	1.28	1.51	1.76	0.95	0.45	0.82	
6	0.17	0.26	0.71	1.42	1.15	0.85	1.35	1.49	1.63	0.89	0.36	0.79	
7	0.25	0.36	0.83	1.92	0.96	0.90	1.55	1.93	1.52	0.79	0.28	0.77	
8	0.36	0.45	0.82	1.50	1.11	1.01	2.08	1.57	1.35	0.66	0.23	0.58	
9	0.41	0.50	0.73	1.64	1.05	1.46	1.76	1.42	1.20	0.55	0.16	0.53	
10	0.44	0.56	0.82	2.61	1.03	1.99	1.64	1.14	1.08	0.45	0.08	0.40	
11	0.47	0.58	1.14	2.16	1.45	1.51	1.41	1.09	1.02	0.37	0.05	0.28	
12	0.50	0.56	0.95	1.87	1.88	1.29	1.16	1.45	0.87	0.34	0.08	0.21	
13	0.53	0.73	0.94	1.54	1.57	1.14	0.96	1.63	0.80	0.40	0.13	0.22	
14	0.71	0.62	0.98	1.36	1.30	1.16	0.82	1.51	0.80	0.40	0.17	0.27	
15	0.69	0.56	0.88	1.51	1.23	1.61	0.73	1.35	0.78	0.41	0.39	0.60	
16	0.61	0.51	0.76	1.34	1.26	1.40	0.77	1.29	0.76	0.43	0.79	0.53	
17	0.55	0.53	0.69	1.10	1.15	1.19	0.80	1.38	0.76	0.45	0.66	0.58	
18	0.48	0.54	0.60	1.07	1.14	1.71	0.92	2.32	0.77	0.47	0.68	0.66	
19	0.52	0.76	0.62	0.94	1.34	1.66	1.20	3.11	0.73	0.51	0.64	0.70	
20	0.32	0.80	0.60	0.92	1.30	1.90	1.89	2.73	0.73	0.52	0.58	0.77	
21	0.18	0.94	1.14	0.89	1.33	1.92	1.62	2.66	0.70	0.53	0.65	0.86	
22	0.29	1.45	1.20	0.84	1.47	1.91	1.41	2.75	0.70	0.55	0.56	0.71	
23	0.45	1.21	1.05	0.82	1.22	2.10	1.36	2.21	0.73	0.50	0.40	0.61	
24	0.58	1.26	0.99	0.80	1.16	1.60	1.60	2.03	0.70	0.43	0.27	0.53	
25	0.65	1.09	0.93	0.84	1.16	1.52	1.90	1.72	0.62	0.36	0.31	0.40	
26	0.66	1.19	0.95	0.75	1.23	1.53	1.55	1.62	0.54	0.28	0.60	0.71	
27	0.76	1.19	0.90	0.77	1.08	1.87	1.29	1.42	0.48	0.22	1.98	0.62	
28	0.93	1.41	0.86	0.72	0.99	1.77	1.46	1.45	0.44	0.22	1.29	0.58	
29	0.90	1.23	0.99	0.65	0.86	1.92	1.16	1.63	0.42	0.24		0.72	
30	0.84	1.02	0.89	0.75	0.75	1.71	1.14	1.64	0.76	0.29		0.79	
31		0.96		0.97	1.05		1.67		0.97	0.37		1.02	
Mean	0.52	0.76	0.86	1.16	1.32	1.45	1.35	1.75	1.07	0.55	0.49	0.64	
Max	0.93	1.45	1.20	2.61	2.52	2.10	2.08	3.11	3.16	1.20	1.98	1.02	3.16
Min	0.17	0.23	0.60	0.65	0.75	0.84	0.73	1.09	0.42	0.22	0.05	0.21	0.05
Annual Max Momentary Gage Height	4.12		m. (MSL.) ,			at 17.00 Hours ,		on Dec 2, 2021					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-1.63	m. (MSL.)					
Left Bank Elevation		5.70	m. (MSL.) ,										
Right Bank Elevation		5.10	m. (MSL.) ,			Drainage Are	731	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.70	24.50	7.20	7.60	81.80	27.20	25.20	44.90	46.10	30.80	14.90	32.00		
2	18.80	21.50	7.80	10.20	70.55	32.30	18.30	56.00	109.00	36.50	15.80	27.20		
3	14.30	15.80	6.10	7.80	59.00	35.00	16.80	51.50	94.20	38.00	17.30	26.60		
4	13.25	10.75	6.30	7.60	50.00	31.40	13.60	48.20	66.00	34.10	18.80	26.60		
5	10.75	9.75	5.80	8.20	43.10	29.60	40.40	47.30	54.80	30.50	15.50	26.60		
6	8.25	10.50	6.10	44.60	36.50	27.50	42.50	46.70	50.90	28.70	13.00	25.70		
7	10.25	13.00	7.60	59.70	30.80	29.00	48.50	60.05	47.60	25.70	11.00	25.10		
8	13.00	15.50	7.40	47.00	35.30	32.30	65.30	49.10	42.50	21.80	9.75	19.40		
9	14.30	17.00	6.30	51.20	33.50	45.80	54.80	44.60	38.00	18.50	8.00	17.90		
10	15.20	18.80	7.40	85.40	32.90	62.15	51.20	36.20	34.40	15.50	6.00	14.00		
11	16.10	19.40	13.80	68.10	45.50	47.30	44.30	34.70	32.60	13.25	5.25	11.00		
12	17.00	4.60	10.00	58.10	58.40	40.70	36.80	45.50	28.10	12.50	6.00	9.25		
13	17.90	6.30	9.80	48.20	49.10	36.20	30.80	50.90	26.00	14.00	7.25	9.50		
14	23.30	5.20	10.60	42.80	41.00	14.20	26.60	47.30	26.00	14.00	8.25	10.75		
15	22.70	4.60	8.60	47.30	38.90	27.30	23.90	42.50	25.40	14.30	13.75	20.00		
16	20.30	4.10	6.60	42.20	39.80	21.00	25.10	40.70	24.80	14.90	25.70	17.90		
17	18.50	4.30	5.90	35.00	36.50	14.80	26.00	43.40	24.80	15.50	21.80	19.40		
18	16.40	4.40	5.00	34.10	36.20	30.40	29.60	73.80	25.10	16.10	22.40	21.80		
19	17.60	6.60	5.20	30.20	42.20	28.80	38.00	106.50	23.90	17.30	21.20	23.00		
20	12.00	7.00	5.00	29.60	41.00	38.00	58.70	90.20	23.90	17.60	19.40	25.10		
21	8.50	9.80	13.80	28.70	41.90	38.80	50.60	87.40	23.00	17.90	21.50	27.80		
22	11.25	22.50	15.00	27.20	46.10	38.40	44.30	91.00	23.00	18.50	18.80	23.30		
23	15.50	15.30	12.00	26.60	38.60	46.00	42.80	69.85	23.90	17.00	14.00	20.30		
24	19.40	16.80	10.80	26.00	36.80	27.00	50.00	63.55	23.00	14.90	10.75	17.90		
25	21.50	12.80	9.60	27.20	36.80	24.60	59.00	53.60	20.60	13.00	11.75	14.00		
26	21.80	14.80	10.00	24.50	38.90	24.90	48.50	50.60	18.20	11.00	20.00	23.30		
27	24.80	14.80	9.00	25.10	34.40	36.80	40.70	44.60	16.40	9.50	61.80	20.60		
28	29.90	21.30	8.20	23.60	31.70	32.80	45.80	45.50	15.20	9.50	40.70	19.40		
29	29.00	15.90	10.80	21.50	27.80	38.80	36.80	50.90	14.60	10.00		23.60		
30	27.20	11.40	8.80	24.50	24.50	30.40	36.20	51.20	24.80	11.25		25.70		
31		10.20		31.10	33.50		52.10		31.10	13.25		32.60		
Total	531.45	389.20	256.50	1050.90	1293.05	989.45	1223.20	1668.25	1077.90	575.35	480.35	657.30	10192.90	CMSDAY
Mean	17.71	12.55	8.55	33.90	41.71	32.98	39.46	55.61	34.77	18.56	17.16	21.20	27.93	CMS
Max	29.90	24.50	15.00	85.40	81.80	62.15	65.30	106.50	109.00	38.00	61.80	32.60	109.00	CMS
Min	8.25	4.10	5.00	7.60	24.50	14.20	13.60	34.70	14.60	9.50	5.25	9.25	4.10	CMS
Runoff	45.92	33.63	22.16	90.80	111.72	85.49	105.68	144.14	93.13	49.71	41.50	56.79	880.67	MCM
Momentary Peak	160.20	CMS. at 4.12 m. (MSL.)					at 17.00 Hours ,	on Dec 2, 2021						
Runoff Yield	38.20	Liters/Second/Square KM.					Momentary Peak Yield	219.15	Liters/Second/Square KM.					

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlong Chalung at Ban Chalung Nuea , Satun (X.239)

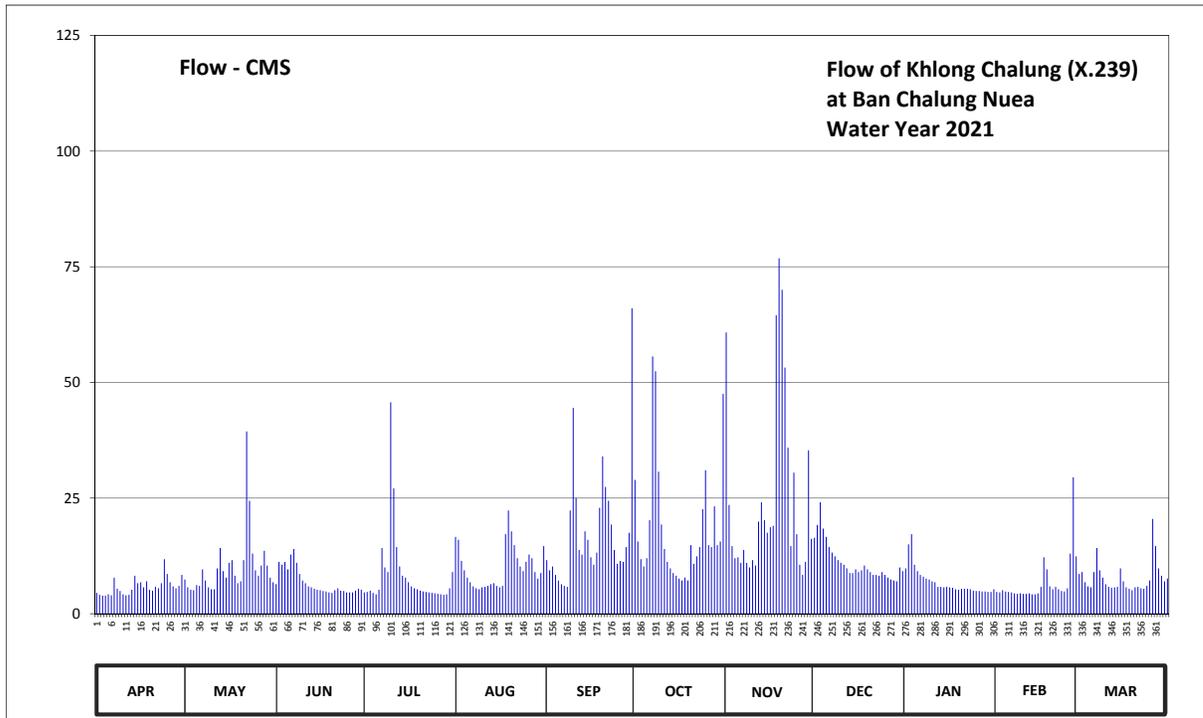
Lat 06 - 43 - 36 N Long 100 - 03 - 46 E

Location : on right bank at Ban Karakat.

	<b>Ban</b> Chalung Nuea	<b>Amphoe</b> Mueang	<b>Changwat</b> Satun
<b>Drainage Area</b>	269 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank of the bridge downstream.	<b>Elevation</b>	+17.044 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date.		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date.		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2004 to date.		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow start at elevation + 16.210 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.55	13.77	13.72	13.56	14.22	13.98	14.63	15.62	14.62	13.89	13.57	13.83	
2	13.51	13.67	13.96	13.57	14.20	13.87	14.18	14.45	14.76	14.15	13.56	13.85	
3	13.49	13.62	13.93	13.60	13.97	13.91	13.99	14.13	14.47	14.24	13.61	13.74	
4	13.49	13.61	13.96	13.55	13.87	13.82	13.91	14.00	14.28	13.93	13.58	13.69	
5	13.52	13.71	13.88	13.52	13.79	13.76	14.00	14.01	14.22	13.86	13.57	13.67	
6	13.50	13.70	14.04	13.62	13.74	13.72	14.34	13.95	14.12	13.82	13.56	13.85	
7	13.79	13.88	14.10	14.11	13.69	13.70	15.49	14.09	14.06	13.80	13.54	14.11	
8	13.64	13.76	13.95	13.90	13.65	13.68	15.41	13.95	14.02	13.78	13.53	13.87	
9	13.59	13.67	13.83	13.85	13.63	14.41	14.69	13.90	13.98	13.77	13.54	13.79	
10	13.52	13.63	13.76	15.19	13.67	15.15	14.31	13.98	13.95	13.75	13.53	13.72	
11	13.50	13.63	13.73	14.57	13.68	14.50	14.10	13.92	13.93	13.74	13.53	13.68	
12	13.51	13.89	13.69	14.12	13.70	14.09	13.96	14.33	13.89	13.68	13.54	13.66	
13	13.62	14.11	13.67	13.91	13.72	14.04	13.89	14.47	13.84	13.68	13.52	13.67	
14	13.81	13.86	13.64	13.81	13.73	14.26	13.84	14.34	13.84	13.67	13.52	13.68	
15	13.73	13.79	13.62	13.79	13.70	14.20	13.81	14.25	13.88	13.68	13.54	13.89	
16	13.74	13.95	13.61	13.74	13.67	14.01	13.78	14.29	13.85	13.67	13.68	13.75	
17	13.67	13.98	13.59	13.69	13.70	13.93	13.76	14.30	13.87	13.66	14.01	13.67	
18	13.75	13.81	13.58	13.65	14.24	14.06	13.79	16.05	13.92	13.63	13.88	13.64	
19	13.62	13.73	13.56	13.63	14.41	14.43	13.76	16.28	13.88	13.62	13.69	13.61	
20	13.60	13.75	13.55	13.60	14.26	14.80	14.14	16.16	13.85	13.64	13.63	13.67	
21	13.68	13.98	13.61	13.58	14.14	14.58	13.94	15.78	13.82	13.64	13.68	13.68	
22	13.65	14.98	13.65	13.57	14.00	14.48	14.02	15.33	13.82	13.64	13.63	13.65	
23	13.73	14.48	13.60	13.56	13.91	14.31	14.12	14.53	13.81	13.63	13.59	13.64	
24	13.99	14.05	13.59	13.55	13.86	14.09	14.42	15.15	13.85	13.60	13.58	13.70	
25	13.83	13.87	13.56	13.54	13.96	13.94	14.70	14.66	13.82	13.59	13.65	13.76	
26	13.74	13.81	13.56	13.53	14.04	13.97	14.14	14.33	13.79	13.59	14.05	14.35	
27	13.69	13.92	13.56	13.52	14.00	13.96	14.12	14.22	13.77	13.58	14.65	14.13	
28	13.65	14.08	13.60	13.51	13.85	14.12	14.44	14.36	13.76	13.58	14.02	13.89	
29	13.70	13.92	13.64	13.52	13.78	14.25	14.14	15.31	13.75	13.57		13.81	
30	13.82	13.79	13.62	13.65	13.84	15.75	14.18	14.61	13.90	13.57		13.75	
31		13.74		13.85	14.13		15.25		13.86	13.63		13.78	
Mean	13.65	13.88	13.71	13.75	13.90	14.19	14.23	14.63	13.97	13.72	13.68	13.78	
Max	13.99	14.98	14.10	15.19	14.41	15.75	15.49	16.28	14.76	14.24	14.65	14.35	16.28
Min	13.49	13.61	13.55	13.51	13.63	13.68	13.76	13.90	13.75	13.57	13.52	13.61	13.49
Annual Max Momentary Gage Height	16.34		m. (MSL.) ,				at 23.00 Hours ,						on Nov 18, 2021
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-0.83	m. (MSL.)					
Left Bank Elevation		16.57	m. (MSL.) ,										
Right Bank Elevation		16.20	m. (MSL.) ,		Drainage Are	269	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.50	7.40	6.40	4.60	16.60	11.60	28.90	60.80	16.40	9.80	4.70	8.60		
2	4.10	5.70	11.20	4.70	16.00	9.40	15.60	23.50	19.20	15.00	4.60	9.00		
3	3.90	5.20	10.60	5.00	11.40	10.20	11.80	14.60	24.10	17.20	5.10	6.80		
4	3.90	5.10	11.20	4.50	9.40	8.40	10.20	12.00	18.40	10.60	4.80	5.90		
5	4.20	6.20	9.60	4.20	7.80	7.20	12.00	12.20	16.60	9.20	4.70	5.70		
6	4.00	6.00	12.80	5.20	6.80	6.40	20.20	11.00	14.40	8.40	4.60	9.00		
7	7.80	9.60	14.00	14.20	5.90	6.00	55.60	13.80	13.20	8.00	4.40	14.20		
8	5.40	7.20	11.00	10.00	5.50	5.80	52.40	11.00	12.40	7.60	4.30	9.40		
9	4.90	5.70	8.60	9.00	5.30	22.30	30.70	10.00	11.60	7.40	4.40	7.80		
10	4.20	5.30	7.20	45.70	5.70	44.50	19.30	11.60	11.00	7.00	4.30	6.40		
11	4.00	5.30	6.60	27.10	5.80	25.00	14.00	10.40	10.60	6.80	4.30	5.80		
12	4.10	9.80	5.90	14.40	6.00	13.80	11.20	19.90	9.80	5.80	4.40	5.60		
13	5.20	14.20	5.70	10.20	6.40	12.80	9.80	24.10	8.80	5.80	4.20	5.70		
14	8.20	9.20	5.40	8.20	6.60	17.80	8.80	20.20	8.80	5.70	4.20	5.80		
15	6.60	7.80	5.20	7.80	6.00	16.00	8.20	17.50	9.60	5.80	4.40	9.80		
16	6.80	11.00	5.10	6.80	5.70	12.20	7.60	18.70	9.00	5.70	5.80	7.00		
17	5.70	11.60	4.90	5.90	6.00	10.60	7.20	19.00	9.40	5.60	12.20	5.70		
18	7.00	8.20	4.80	5.50	17.20	13.20	7.80	64.50	10.40	5.30	9.60	5.40		
19	5.20	6.60	4.60	5.30	22.30	22.90	7.20	76.80	9.60	5.20	5.90	5.10		
20	5.00	7.00	4.50	5.00	17.80	34.00	14.80	70.00	9.00	5.40	5.30	5.70		
21	5.80	11.60	5.10	4.80	14.80	27.40	10.80	53.20	8.40	5.40	5.80	5.80		
22	5.50	39.40	5.50	4.70	12.00	24.40	12.40	35.90	8.40	5.40	5.30	5.50		
23	6.60	24.40	5.00	4.60	10.20	19.30	14.40	14.60	8.20	5.30	4.90	5.40		
24	11.80	13.00	4.90	4.50	9.20	13.80	22.60	30.50	9.00	5.00	4.80	6.00		
25	8.60	9.40	4.60	4.40	11.20	10.80	31.00	17.20	8.40	4.90	5.50	7.20		
26	6.80	8.20	4.60	4.30	12.80	11.40	14.80	10.60	7.80	4.90	13.00	20.50		
27	5.90	10.40	4.60	4.20	12.00	11.20	14.40	8.40	7.40	4.80	29.50	14.60		
28	5.50	13.60	5.00	4.10	9.00	14.40	23.20	11.20	7.20	4.80	12.40	9.80		
29	6.00	10.40	5.40	4.20	7.60	17.50	14.80	35.30	7.00	4.70		8.20		
30	8.40	7.80	5.20	5.50	8.80	66.00	15.60	16.20	10.00	4.70		7.00		
31		6.80		9.00	14.60		47.50		9.20	5.30		7.60		
Total	175.60	309.10	205.20	257.60	312.40	526.30	574.80	754.70	343.30	212.50	187.40	242.00	4100.90	CMSDAY
Mean	5.85	9.97	6.84	8.31	10.08	17.54	18.54	25.16	11.07	6.85	6.69	7.81	11.24	CMS
Max	11.80	39.40	14.00	45.70	22.30	66.00	55.60	76.80	24.10	17.20	29.50	20.50	76.80	CMS
Min	3.90	5.10	4.50	4.10	5.30	5.80	7.20	8.40	7.00	4.70	4.20	5.10	3.90	CMS
Runoff	15.17	26.71	17.73	22.26	26.99	45.47	49.66	65.21	29.66	18.36	16.19	20.91	354.32	MCM
Momentary Peak	84.80 CMS. at 16.34 m. (MSL.) at 23.00 Hours , on Nov 18, 2021													
Runoff Yield	41.77 Liters/Second/Square KM.			Momentary Peak Yield			315.24 Liters/Second/Square KM.							

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

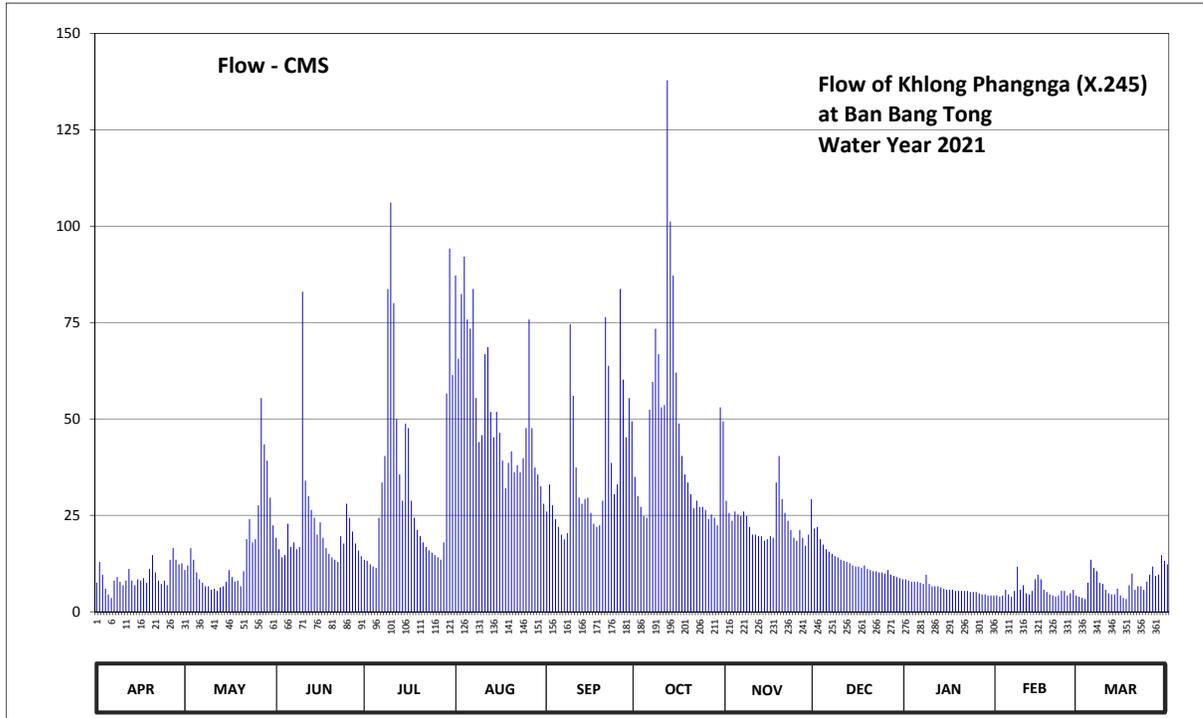
Lat 08 - 30 - 48 N Long 98 - 30 - 13 E

Location : on right bank at Ban Bang Tong.

	Ban Bang Tong	Amphoe Mueang	Changwat Phangnga
<b>Drainage Area</b>	245 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On the footpath on the left side of the downstream bridge.	<b>Elevation</b>	+16.857 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date.		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date.		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2006 to date.		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.85	7.96	8.23	8.05	9.46	8.40	8.60	8.47	8.29	7.88	7.74	7.73	
2	8.03	8.00	8.14	8.04	9.11	8.56	8.50	8.39	8.30	7.87	7.73	7.72	
3	7.92	8.15	8.07	8.01	9.39	8.44	8.43	8.34	8.22	7.86	7.74	7.71	
4	7.80	8.05	8.09	7.99	9.53	8.35	8.37	8.40	8.18	7.86	7.79	7.85	
5	7.75	7.94	8.32	7.98	9.28	8.30	8.36	8.38	8.14	7.86	7.75	8.05	
6	7.72	7.88	8.16	8.36	9.24	8.25	8.89	8.37	8.12	7.85	7.73	7.98	
7	7.87	7.85	8.20	8.57	9.41	8.22	9.01	8.40	8.10	7.84	7.78	7.95	
8	7.90	7.82	8.14	8.69	8.94	8.26	9.24	8.37	8.08	7.92	7.99	7.85	
9	7.86	7.82	8.16	9.41	8.75	9.26	9.13	8.30	8.07	7.84	7.79	7.84	
10	7.83	7.79	9.40	9.73	8.78	8.95	8.90	8.25	8.05	7.82	7.83	7.79	
11	7.87	7.80	8.58	9.35	9.13	8.64	8.91	8.25	8.04	7.82	7.76	7.76	
12	7.97	7.78	8.50	8.85	9.16	8.49	10.16	8.24	8.03	7.82	7.75	7.75	
13	7.87	7.81	8.41	8.61	8.88	8.45	9.66	8.24	8.02	7.81	7.78	7.75	
14	7.83	7.82	8.36	8.47	8.77	8.48	9.46	8.21	8.00	7.80	7.88	7.80	
15	7.88	7.86	8.25	8.83	8.88	8.49	9.05	8.22	7.99	7.79	7.92	7.74	
16	7.87	7.96	8.33	8.81	8.79	8.39	8.83	8.24	7.99	7.79	7.88	7.72	
17	7.89	7.90	8.23	8.47	8.67	8.32	8.69	8.23	7.98	7.79	7.79	7.71	
18	7.85	7.86	8.15	8.36	8.54	8.30	8.61	8.57	8.00	7.78	7.77	7.83	
19	7.97	7.87	8.10	8.28	8.66	8.31	8.57	8.69	7.97	7.78	7.75	7.93	
20	8.09	7.82	8.07	8.24	8.71	8.47	8.51	8.48	7.96	7.78	7.74	7.79	
21	7.94	7.95	8.05	8.20	8.62	9.29	8.42	8.39	7.95	7.78	7.73	7.82	
22	7.87	8.22	8.03	8.16	8.65	9.08	8.47	8.34	7.95	7.78	7.74	7.82	
23	7.84	8.35	8.24	8.13	8.62	8.66	8.43	8.28	7.94	7.77	7.78	7.79	
24	7.87	8.20	8.19	8.11	8.68	8.51	8.43	8.23	7.94	7.77	7.78	7.86	
25	7.83	8.22	8.45	8.09	8.81	8.56	8.41	8.21	7.93	7.77	7.74	7.92	
26	8.05	8.44	8.36	8.07	9.28	9.41	8.35	8.28	7.96	7.76	7.76	7.99	
27	8.15	8.94	8.27	8.05	8.81	9.02	8.38	8.23	7.92	7.75	7.79	7.91	
28	8.05	8.74	8.19	8.20	8.64	8.77	8.36	8.17	7.91	7.75	7.74	7.92	
29	8.01	8.67	8.13	8.96	8.61	8.94	8.31	8.25	7.90	7.74		8.09	
30	8.02	8.49	8.08	9.56	8.55	8.84	8.90	8.48	7.89	7.74		8.04	
31		8.31		9.04	8.45		8.84		7.88	7.74		8.01	
Mean	7.91	8.07	8.26	8.51	8.90	8.61	8.75	8.33	8.02	7.80	7.78	7.85	
Max	8.15	8.94	9.40	9.73	9.53	9.41	10.16	8.69	8.30	7.92	7.99	8.09	10.16
Min	7.72	7.78	8.03	7.98	8.45	8.22	8.31	8.17	7.88	7.74	7.73	7.71	7.71
Annual Max Momentary Gage Height	11.49		m. (MSL.) ,				at 20.00 Hours , on Oct 30, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	6.02	m. (MSL.)					
Left Bank Elevation		15.24	m. (MSL.) ,										
Right Bank Elevation		16.31	m. (MSL.) ,			Drainage Are	245	Square Kilometers					

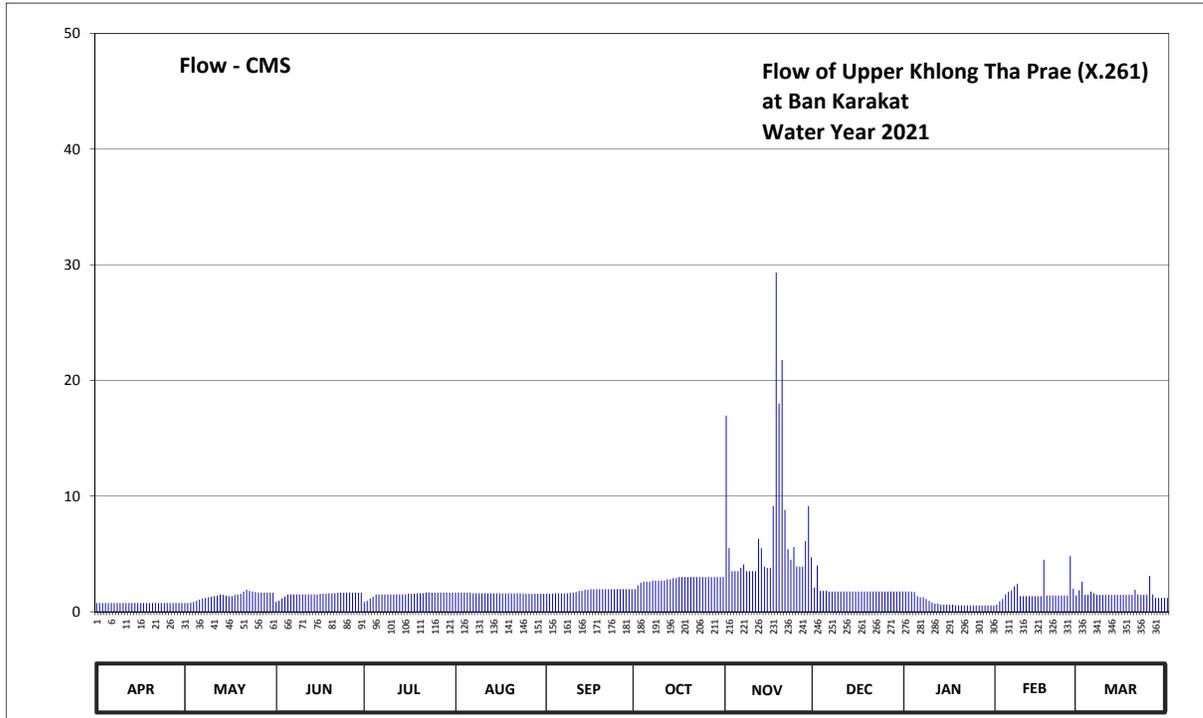


APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	10.80	19.20	13.50	87.20	26.00	35.00	28.80	21.60	8.40	4.20	3.90	
2	12.90	12.00	16.20	13.20	65.60	33.00	30.00	25.60	22.00	8.10	3.90	3.60	
3	9.60	16.50	14.10	12.30	82.40	27.60	27.20	23.60	18.80	7.80	4.20	3.30	
4	6.00	13.50	14.70	11.70	92.10	24.00	24.80	26.00	17.40	7.80	5.70	7.50	
5	4.50	10.20	22.80	11.40	75.80	22.00	24.40	25.20	16.20	7.80	4.50	13.50	
6	3.60	8.40	16.80	24.40	73.40	20.00	52.40	24.80	15.60	7.50	3.90	11.40	
7	8.10	7.50	18.00	33.50	83.70	18.80	59.60	26.00	15.00	7.20	5.40	10.50	
8	9.00	6.60	16.20	40.40	55.40	20.40	73.40	24.80	14.40	9.60	11.70	7.50	
9	7.80	6.60	16.80	83.70	44.00	74.60	66.80	22.00	14.10	7.20	5.70	7.20	
10	6.90	5.70	83.00	106.10	45.80	56.00	53.00	20.00	13.50	6.60	6.90	5.70	
11	8.10	6.00	34.00	80.00	66.80	37.40	53.60	20.00	13.20	6.60	4.80	4.80	
12	11.10	5.40	30.00	50.00	68.60	29.60	137.80	19.60	12.90	6.60	4.50	4.50	
13	8.10	6.30	26.40	35.60	51.80	28.00	101.20	19.60	12.60	6.30	5.40	4.50	
14	6.90	6.60	24.40	28.80	45.20	29.20	87.20	18.40	12.00	6.00	8.40	6.00	
15	8.40	7.80	20.00	48.80	51.80	29.60	62.00	18.80	11.70	5.70	9.60	4.20	
16	8.10	10.80	23.20	47.60	46.40	25.60	48.80	19.60	11.70	5.70	8.40	3.60	
17	8.70	9.00	19.20	28.80	39.20	22.80	40.40	19.20	11.40	5.70	5.70	3.30	
18	7.50	7.80	16.50	24.40	32.00	22.00	35.60	33.50	12.00	5.40	5.10	6.90	
19	11.10	8.10	15.00	21.20	38.60	22.40	33.50	40.40	11.10	5.40	4.50	9.90	
20	14.70	6.60	14.10	19.60	41.60	28.80	30.50	29.20	10.80	5.40	4.20	5.70	
21	10.20	10.50	13.50	18.00	36.20	76.40	26.80	25.60	10.50	5.40	3.90	6.60	
22	8.10	18.80	12.90	16.80	38.00	63.80	28.80	23.60	10.50	5.40	4.20	6.60	
23	7.20	24.00	19.60	15.90	36.20	38.60	27.20	21.20	10.20	5.10	5.40	5.70	
24	8.10	18.00	17.70	15.30	39.80	30.50	27.20	19.20	10.20	5.10	5.40	7.80	
25	6.90	18.80	28.00	14.70	47.60	33.00	26.40	18.40	9.90	5.10	4.20	9.60	
26	13.50	27.60	24.40	14.10	75.80	83.70	24.00	21.20	10.80	4.80	4.80	11.70	
27	16.50	55.40	20.80	13.50	47.60	60.20	25.20	19.20	9.60	4.50	5.70	9.30	
28	13.50	43.40	17.70	18.00	37.40	45.20	24.40	17.10	9.30	4.50	4.20	9.60	
29	12.30	39.20	15.90	56.60	35.60	55.40	22.40	20.00	9.00	4.20		14.70	
30	12.60	29.60	14.40	94.20	32.50	49.40	53.00	29.20	8.70	4.20		13.20	
31		22.40		61.40	28.00		49.40		8.40	4.20		12.30	
Total	277.50	479.90	645.50	1073.50	1642.10	1134.00	1412.00	699.80	395.10	189.30	154.50	234.60	8337.80 CMSDAY
Mean	9.25	15.48	21.52	34.63	52.97	37.80	45.55	23.33	12.75	6.11	5.52	7.57	22.84 CMS
Max	16.50	55.40	83.00	106.10	92.10	83.70	137.80	40.40	22.00	9.60	11.70	14.70	137.80 CMS
Min	3.60	5.40	12.90	11.40	28.00	18.80	22.40	17.10	8.40	4.20	3.90	3.30	3.30 CMS
Runoff	23.98	41.46	55.77	92.75	141.88	97.98	122.00	60.46	34.14	16.36	13.35	20.27	720.39 MCM
Momentary Peak		254.00	CMS.	at 11.49 m. (MSL.)	at 20.00 Hours		on Oct 30, 2021						
Runoff Yield		93.24	Liters/Second/Square KM.		Momentary Peak Yield	1036.73	Liters/Second/Square KM.						





Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.75	0.85	0.85	1.65	1.55	1.95	16.95	2.10	1.75	0.60	1.85	
2	0.75	0.75	0.95	0.95	1.65	1.55	2.30	5.50	4.00	1.75	0.90	2.60	
3	0.75	0.80	1.15	1.15	1.65	1.55	2.50	3.50	1.80	1.75	1.10	1.45	
4	0.75	0.85	1.30	1.30	1.65	1.60	2.60	3.50	1.80	1.70	1.50	1.45	
5	0.75	0.95	1.50	1.50	1.65	1.60	2.60	3.50	1.80	1.35	1.75	1.75	
6	0.75	1.05	1.50	1.50	1.65	1.60	2.60	3.80	1.75	1.25	1.85	1.60	
7	0.75	1.15	1.50	1.50	1.60	1.60	2.70	4.10	1.75	1.25	2.20	1.45	
8	0.75	1.20	1.50	1.50	1.60	1.60	2.70	3.50	1.75	1.10	2.40	1.45	
9	0.75	1.25	1.50	1.50	1.60	1.65	2.70	3.50	1.75	0.95	1.35	1.45	
10	0.75	1.30	1.50	1.50	1.60	1.65	2.70	3.50	1.75	0.80	1.35	1.45	
11	0.75	1.35	1.50	1.50	1.60	1.70	2.70	3.50	1.75	0.70	1.35	1.45	
12	0.75	1.40	1.50	1.50	1.60	1.80	2.80	6.30	1.75	0.70	1.35	1.45	
13	0.75	1.50	1.50	1.50	1.60	1.80	2.80	5.50	1.75	0.60	1.35	1.45	
14	0.75	1.45	1.50	1.50	1.60	1.90	2.90	3.90	1.75	0.60	1.35	1.45	
15	0.75	1.40	1.50	1.50	1.60	1.90	2.90	3.80	1.75	0.60	1.35	1.45	
16	0.75	1.35	1.55	1.55	1.60	1.95	3.00	3.80	1.75	0.60	1.35	1.45	
17	0.75	1.35	1.55	1.55	1.60	1.95	3.00	9.15	1.75	0.60	4.50	1.45	
18	0.75	1.45	1.55	1.55	1.60	1.95	3.00	29.32	1.75	0.55	1.40	1.45	
19	0.75	1.50	1.60	1.60	1.60	1.95	3.00	18.00	1.75	0.55	1.40	1.45	
20	0.75	1.55	1.60	1.60	1.60	1.95	3.00	21.75	1.75	0.55	1.40	1.90	
21	0.75	1.75	1.60	1.60	1.60	1.95	3.00	8.80	1.75	0.55	1.40	1.50	
22	0.75	1.90	1.65	1.65	1.60	1.95	3.00	5.40	1.75	0.55	1.40	1.45	
23	0.75	1.80	1.65	1.65	1.60	1.95	3.00	4.50	1.75	0.55	1.40	1.45	
24	0.75	1.75	1.65	1.65	1.55	1.95	3.00	5.60	1.75	0.55	1.40	1.45	
25	0.75	1.70	1.65	1.65	1.55	1.95	3.00	3.90	1.75	0.55	1.40	3.10	
26	0.75	1.65	1.65	1.65	1.55	1.95	3.00	3.90	1.75	0.55	4.80	1.50	
27	0.75	1.65	1.65	1.65	1.55	1.95	3.00	3.90	1.75	0.55	2.00	1.20	
28	0.75	1.65	1.65	1.65	1.55	1.95	3.00	6.10	1.75	0.55	1.40	1.20	
29	0.75	1.65	1.65	1.65	1.55	1.95	3.00	9.15	1.75	0.55		1.20	
30	0.75	1.65	1.65	1.65	1.55	1.95	3.00	4.70	1.75	0.55		1.20	
31		1.65		1.65	1.55		3.00		1.75	0.55		1.20	
Total	22.50	43.15	45.05	46.70	49.50	54.30	87.45	212.32	57.00	25.75	47.00	47.90	738.62 CMSDAY
Mean	0.75	1.39	1.50	1.51	1.60	1.81	2.82	7.08	1.84	0.83	1.68	1.55	2.02 CMS
Max	0.75	1.90	1.65	1.65	1.65	1.95	3.00	29.32	4.00	1.75	4.80	3.10	29.32 CMS
Min	0.75	0.75	0.85	0.85	1.55	1.55	1.95	3.50	1.75	0.55	0.60	1.20	0.55 CMS
Runoff	1.94	3.73	3.89	4.03	4.28	4.69	7.56	18.34	4.92	2.22	4.06	4.14	63.82 MCM
Momentary Peak	50.70	CMS. at 29.93 m. (MSL.) at 01.00 Hours , on Nov 1, 2021											
Runoff Yield	25.62	Liters/Second/Square KM.		Momentary Peak Yield		641.77	Liters/Second/Square KM.						

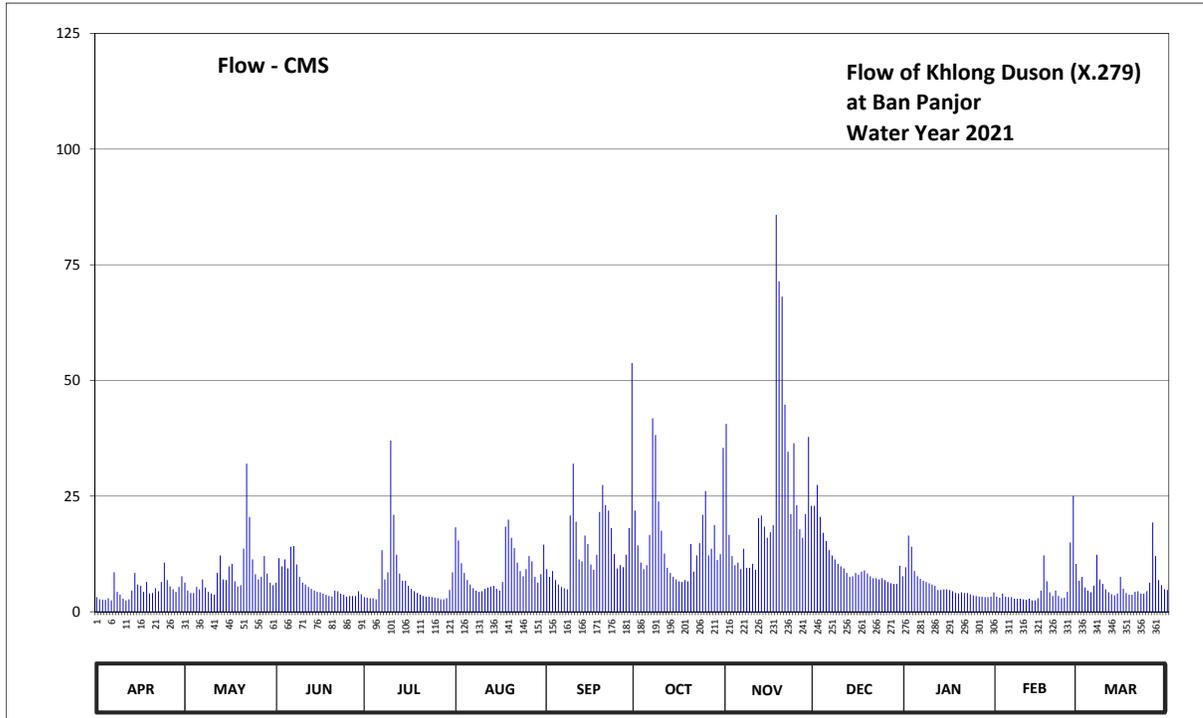
**WATER YEAR : 2021**  
**SOUTHERN PENINSULA WEST COAST**  
**Khlong Duson at Ban Panjor , Satun (X.279)**  
 Lat 06 - 46 - 39 N Long 100 - 04 - 17 E

Location : on right bank at Ban Panjor.

	<b>Ban Panjor</b>	<b>Amphoe Khuan Don</b>	<b>Changwat Satun</b>
<b>Drainage Area</b>	232 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+18.423 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the top staff gage.		<b>Elevation</b> +25.537 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date.		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date.		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2011 to date.		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 2021.		

**Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.38	19.62	19.62	19.38	20.45	19.83	20.69	21.68	20.76	19.86	19.39	19.65	
2	19.34	19.49	20.00	19.37	20.26	19.71	20.19	20.34	21.02	20.33	19.37	19.71	
3	19.33	19.45	19.87	19.36	19.92	19.80	19.93	20.03	20.60	20.17	19.44	19.54	
4	19.33	19.45	19.98	19.36	19.77	19.66	19.83	19.89	20.37	19.80	19.39	19.49	
5	19.36	19.55	19.84	19.34	19.66	19.59	19.89	19.93	20.25	19.72	19.38	19.46	
6	19.32	19.51	20.17	19.52	19.59	19.55	20.34	19.83	20.12	19.68	19.38	19.57	
7	19.78	19.67	20.18	20.12	19.53	19.53	21.74	20.14	20.04	19.65	19.35	20.05	
8	19.47	19.54	19.90	19.67	19.49	19.51	21.56	19.85	19.98	19.63	19.35	19.67	
9	19.42	19.47	19.71	19.78	19.47	20.62	20.82	19.85	19.91	19.61	19.35	19.60	
10	19.35	19.44	19.62	21.50	19.48	21.25	20.40	19.91	19.87	19.59	19.34	19.51	
11	19.32	19.42	19.59	20.63	19.52	20.53	20.07	19.82	19.84	19.57	19.33	19.46	
12	19.34	19.77	19.55	20.05	19.54	19.98	19.85	20.58	19.77	19.50	19.35	19.43	
13	19.49	20.04	19.52	19.76	19.56	19.95	19.77	20.62	19.71	19.50	19.32	19.41	
14	19.77	19.67	19.49	19.65	19.57	20.33	19.71	20.46	19.72	19.51	19.32	19.44	
15	19.59	19.66	19.47	19.65	19.52	20.21	19.67	20.30	19.77	19.51	19.36	19.71	
16	19.57	19.87	19.46	19.57	19.49	19.90	19.64	20.38	19.74	19.50	19.49	19.52	
17	19.47	19.91	19.44	19.52	19.63	19.82	19.63	20.48	19.79	19.48	20.04	19.45	
18	19.63	19.64	19.42	19.48	20.46	20.05	19.66	23.36	19.81	19.45	19.64	19.42	
19	19.44	19.56	19.40	19.45	20.56	20.67	19.64	22.88	19.76	19.44	19.46	19.42	
20	19.45	19.58	19.39	19.42	20.30	21.02	20.21	22.77	19.72	19.46	19.40	19.47	
21	19.53	20.14	19.49	19.40	20.15	20.77	19.79	21.87	19.69	19.45	19.49	19.48	
22	19.48	21.25	19.48	19.39	19.93	20.69	20.04	21.38	19.69	19.45	19.40	19.44	
23	19.63	20.60	19.44	19.39	19.80	20.44	20.22	20.64	19.67	19.43	19.36	19.44	
24	19.93	19.98	19.42	19.38	19.72	20.06	20.63	21.47	19.69	19.41	19.37	19.48	
25	19.66	19.75	19.39	19.37	19.83	19.84	20.95	20.77	19.66	19.40	19.47	19.62	
26	19.56	19.67	19.40	19.36	20.03	19.89	20.04	20.42	19.63	19.39	20.23	20.52	
27	19.51	19.71	19.40	19.34	19.95	19.86	20.14	20.30	19.61	19.39	20.89	20.03	
28	19.47	20.03	19.40	19.34	19.71	20.05	20.48	20.64	19.60	19.38	19.91	19.66	
29	19.55	19.76	19.48	19.36	19.62	20.44	19.97	21.54	19.60	19.38		19.58	
30	19.72	19.62	19.43	19.50	19.75	22.23	20.06	20.76	19.88	19.39		19.51	
31		19.58		19.78	20.20		21.42		19.72	19.46		19.50	
Mean	19.51	19.75	19.60	19.62	19.82	20.19	20.23	20.76	19.90	19.56	19.52	19.59	
Max	19.93	21.25	20.18	21.50	20.56	22.23	21.74	23.36	21.02	20.33	20.89	20.52	23.36
Min	19.32	19.42	19.39	19.34	19.47	19.51	19.63	19.82	19.60	19.38	19.32	19.41	19.32
Annual Max Momentary Gage Height	23.66												
Zero Gage at Bottom Elevation	18.42						18.21						
Left Bank Elevation		24.10											
Right Bank Elevation		23.96											
Drainage Area						232							



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.16	6.28	6.28	3.16	18.25	9.22	21.85	40.60	22.90	9.64	3.28	6.70		
2	2.68	4.57	11.60	3.04	15.40	7.54	14.35	16.60	27.40	16.45	3.04	7.54		
3	2.56	4.05	9.78	2.92	10.48	8.80	10.62	12.02	20.50	14.05	3.92	5.22		
4	2.56	4.05	11.32	2.92	8.38	6.84	9.22	10.06	17.05	8.80	3.28	4.57		
5	2.92	5.35	9.36	2.68	6.84	5.87	10.06	10.62	15.25	7.68	3.16	4.18		
6	2.44	4.83	14.05	4.96	5.87	5.35	16.60	9.22	13.30	7.12	3.16	5.61		
7	8.52	6.98	14.20	13.30	5.09	5.09	41.80	13.60	12.16	6.70	2.80	12.30		
8	4.31	5.22	10.20	6.98	4.57	4.83	38.20	9.50	11.32	6.42	2.80	6.98		
9	3.66	4.31	7.54	8.52	4.31	20.80	23.84	9.50	10.34	6.14	2.80	6.00		
10	2.80	3.92	6.28	37.00	4.44	32.00	17.50	10.34	9.78	5.87	2.68	4.83		
11	2.44	3.66	5.87	20.95	4.96	19.45	12.58	9.08	9.36	5.61	2.56	4.18		
12	2.68	8.38	5.35	12.30	5.22	11.32	9.50	20.20	8.38	4.70	2.80	3.79		
13	4.57	12.16	4.96	8.24	5.48	10.90	8.38	20.80	7.54	4.70	2.44	3.53		
14	8.38	6.98	4.57	6.70	5.61	16.45	7.54	18.40	7.68	4.83	2.44	3.92		
15	5.87	6.84	4.31	6.70	4.96	14.65	6.98	16.00	8.38	4.83	2.92	7.54		
16	5.61	9.78	4.18	5.61	4.57	10.20	6.56	17.20	7.96	4.70	4.57	4.96		
17	4.31	10.34	3.92	4.96	6.42	9.08	6.42	18.70	8.66	4.44	12.16	4.05		
18	6.42	6.56	3.66	4.44	18.40	12.30	6.84	85.80	8.94	4.05	6.56	3.66		
19	3.92	5.48	3.40	4.05	19.90	21.55	6.56	71.40	8.24	3.92	4.18	3.66		
20	4.05	5.74	3.28	3.66	16.00	27.40	14.65	68.10	7.68	4.18	3.40	4.31		
21	5.09	13.60	4.57	3.40	13.75	23.05	8.66	44.75	7.26	4.05	4.57	4.44		
22	4.44	32.00	4.44	3.28	10.62	21.85	12.16	34.60	7.26	4.05	3.40	3.92		
23	6.42	20.50	3.92	3.28	8.80	18.10	14.80	21.10	6.98	3.79	2.92	3.92		
24	10.62	11.32	3.66	3.16	7.68	12.44	20.95	36.40	7.26	3.53	3.04	4.44		
25	6.84	8.10	3.28	3.04	9.22	9.36	26.10	23.05	6.84	3.40	4.31	6.28		
26	5.48	6.98	3.40	2.92	12.02	10.06	12.16	17.80	6.42	3.28	14.95	19.30		
27	4.83	7.54	3.40	2.68	10.90	9.64	13.60	16.00	6.14	3.28	25.03	12.02		
28	4.31	12.02	3.40	2.68	7.54	12.30	18.70	21.10	6.00	3.16	10.34	6.84		
29	5.35	8.24	4.44	2.92	6.28	18.10	11.18	37.80	6.00	3.16		5.74		
30	7.68	6.28	3.79	4.70	8.10	53.75	12.44	22.90	9.92	3.28		4.83		
31		5.74		8.52	14.50		35.40		7.68	4.18		4.70		
<b>Total</b>	144.92	257.80	182.41	203.67	284.56	448.29	476.20	763.24	320.58	173.99	143.51	183.96	3583.13	CMSDAY
<b>Mean</b>	4.83	8.32	6.08	6.57	9.18	14.94	15.36	25.44	10.34	5.61	5.13	5.93	9.82	CMS
<b>Max</b>	10.62	32.00	14.20	37.00	19.90	53.75	41.80	85.80	27.40	16.45	25.03	19.30	85.80	CMS
<b>Min</b>	2.44	3.66	3.28	2.68	4.31	4.83	6.42	9.08	6.00	3.16	2.44	3.53	2.44	CMS
<b>Runoff</b>	12.52	22.27	15.76	17.60	24.59	38.73	41.14	65.94	27.70	15.03	12.40	15.89	309.58	MCM
<b>Momentary Peak</b>	96.10	CMS.	at 23.66 m. (MSL.)	at 10.00 Hours	on Nov 18, 2021									
<b>Runoff Yield</b>	42.31	Liters/Second/Square KM.			Momentary Peak Yield	414.22	Liters/Second/Square KM.							

## WATER YEAR : 2021

## PENINSULA - WEST COAST

## Klong Rong Hut at Ban Jed Tho , Ranong (X.290A)

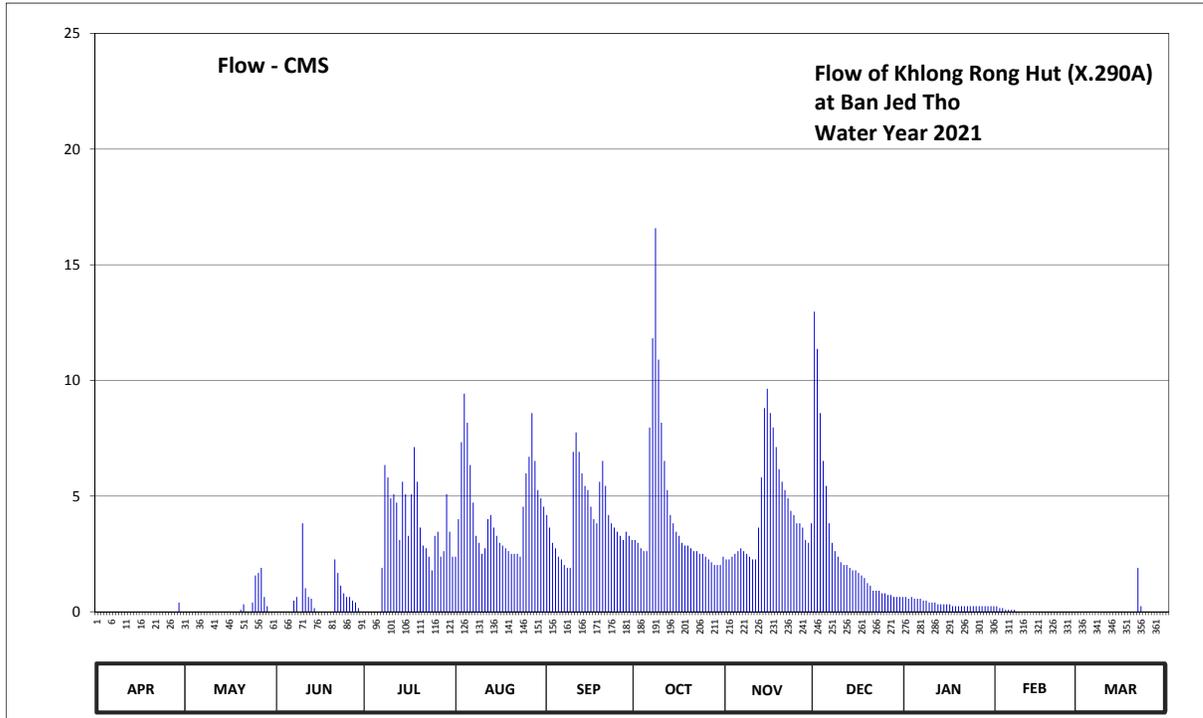
Lat 09 - 58 - 10 N Long 98 - 38 - 46 E

Location : on left bank at the bridge.

	Ban Jed Tho	Amphoe Mueang	Changwat Ranong
<b>Drainage Area</b>	15	sq.km.	
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)	
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On the bridge over the water.	<b>Elevation</b>	+18.010 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	2021 to date.		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2021 to date.		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2021 to date.		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2021.		

## Gage Height in Meter (MSL.) Water Year April 1, 2021 to March 31, 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.37	14.35	14.38	14.50	14.74	14.86	14.80	14.73	15.29	14.58	14.53	14.45	
2	14.37	14.35	14.38	14.50	14.85	14.83	14.79	14.73	15.22	14.57	14.52	14.45	
3	14.37	14.35	14.37	14.49	15.03	14.79	14.77	14.74	15.09	14.58	14.52	14.45	
4	14.37	14.35	14.37	14.49	15.13	14.77	14.76	14.75	14.99	14.57	14.51	14.45	
5	14.37	14.35	14.37	14.49	15.07	14.74	14.76	14.76	14.93	14.57	14.51	14.44	
6	14.37	14.35	14.36	14.48	14.98	14.73	15.06	14.77	14.84	14.57	14.51	14.44	
7	14.36	14.35	14.56	14.70	14.89	14.71	15.24	14.76	14.79	14.56	14.51	14.44	
8	14.36	14.35	14.58	14.98	14.81	14.70	15.44	14.75	14.76	14.56	14.50	14.44	
9	14.36	14.35	14.49	14.95	14.79	14.70	15.20	14.74	14.74	14.55	14.50	14.44	
10	14.36	14.35	14.84	14.90	14.75	15.01	15.07	14.73	14.72	14.55	14.50	14.44	
11	14.36	14.34	14.62	14.91	14.77	15.05	14.99	14.73	14.71	14.55	14.50	14.45	
12	14.36	14.34	14.58	14.89	14.85	15.01	14.92	14.83	14.71	14.54	14.50	14.45	
13	14.35	14.34	14.57	14.80	14.86	14.96	14.86	14.95	14.70	14.54	14.49	14.45	
14	14.35	14.34	14.52	14.94	14.83	14.93	14.84	15.10	14.69	14.54	14.49	14.45	
15	14.35	14.33	14.49	14.91	14.81	14.92	14.82	15.14	14.69	14.54	14.49	14.44	
16	14.35	14.34	14.48	14.81	14.79	14.88	14.81	15.09	14.68	14.54	14.48	14.44	
17	14.35	14.36	14.47	14.91	14.78	14.85	14.79	15.06	14.67	14.53	14.48	14.44	
18	14.35	14.34	14.46	15.02	14.77	14.84	14.78	15.02	14.66	14.53	14.48	14.44	
19	14.35	14.38	14.45	14.94	14.76	14.94	14.78	14.97	14.64	14.53	14.47	14.44	
20	14.34	14.51	14.44	14.83	14.75	14.99	14.77	14.94	14.63	14.53	14.47	14.46	
21	14.34	14.54	14.73	14.78	14.75	14.93	14.76	14.92	14.61	14.53	14.47	14.70	
22	14.34	14.49	14.68	14.77	14.75	14.86	14.76	14.90	14.61	14.53	14.46	14.53	
23	14.34	14.50	14.63	14.74	14.74	14.84	14.75	14.87	14.61	14.53	14.46	14.49	
24	14.34	14.55	14.60	14.69	14.88	14.83	14.75	14.86	14.60	14.53	14.46	14.49	
25	14.34	14.67	14.58	14.81	14.96	14.82	14.74	14.84	14.60	14.53	14.45	14.49	
26	14.34	14.68	14.58	14.82	15.00	14.81	14.73	14.84	14.59	14.53	14.45	14.48	
27	14.34	14.70	14.56	14.74	15.09	14.80	14.72	14.83	14.59	14.53	14.45	14.48	
28	14.42	14.58	14.55	14.76	14.99	14.82	14.71	14.80	14.58	14.53	14.45	14.47	
29	14.55	14.53	14.52	14.91	14.92	14.81	14.71	14.79	14.58	14.53		14.46	
30	14.40	14.44	14.50	14.82	14.90	14.80	14.71	14.84	14.58	14.53		14.46	
31		14.39		14.74	14.88		14.74		14.58	14.53		14.46	
Mean	14.36	14.43	14.52	14.77	14.87	14.85	14.85	14.86	14.73	14.54	14.49	14.46	
Max	14.55	14.70	14.84	15.02	15.13	15.05	15.44	15.14	15.29	14.58	14.53	14.70	15.44
Min	14.34	14.33	14.36	14.48	14.74	14.70	14.71	14.73	14.58	14.53	14.45	14.44	14.33
Annual Max Momentary Gage Height	15.52		m. (MSL.) ,				at 18.00 Hours , on Oct 8, 2021						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	14.15	m. (MSL.)					
Left Bank Elevation		17.04		m. (MSL.) ,									
Right Bank Elevation		17.00		m. (MSL.) ,		Drainage Are	15	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2021 to March 31, 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	2.38	4.18	3.10	2.26	12.97	0.64	0.24	0.00	
2	0.00	0.00	0.00	0.00	4.00	3.64	2.98	2.26	11.36	0.56	0.16	0.00	
3	0.00	0.00	0.00	0.00	7.33	2.98	2.74	2.38	8.59	0.64	0.16	0.00	
4	0.00	0.00	0.00	0.00	9.43	2.74	2.62	2.50	6.52	0.56	0.08	0.00	
5	0.00	0.00	0.00	0.00	8.17	2.38	2.62	2.62	5.44	0.56	0.08	0.00	
6	0.00	0.00	0.00	0.00	6.34	2.26	7.96	2.74	3.82	0.56	0.08	0.00	
7	0.00	0.00	0.48	1.90	4.72	2.02	11.82	2.62	2.98	0.48	0.08	0.00	
8	0.00	0.00	0.64	6.34	3.28	1.90	16.58	2.50	2.62	0.48	0.00	0.00	
9	0.00	0.00	0.00	5.80	2.98	1.90	10.90	2.38	2.38	0.40	0.00	0.00	
10	0.00	0.00	3.82	4.90	2.50	6.91	8.17	2.26	2.14	0.40	0.00	0.00	
11	0.00	0.00	1.02	5.08	2.74	7.75	6.52	2.26	2.02	0.40	0.00	0.00	
12	0.00	0.00	0.64	4.72	4.00	6.91	5.26	3.64	2.02	0.32	0.00	0.00	
13	0.00	0.00	0.56	3.10	4.18	5.98	4.18	5.80	1.90	0.32	0.00	0.00	
14	0.00	0.00	0.16	5.62	3.64	5.44	3.82	8.80	1.79	0.32	0.00	0.00	
15	0.00	0.00	0.00	5.08	3.28	5.26	3.46	9.64	1.79	0.32	0.00	0.00	
16	0.00	0.00	0.00	3.28	2.98	4.54	3.28	8.59	1.68	0.32	0.00	0.00	
17	0.00	0.00	0.00	5.08	2.86	4.00	2.98	7.96	1.57	0.24	0.00	0.00	
18	0.00	0.00	0.00	7.12	2.74	3.82	2.86	7.12	1.46	0.24	0.00	0.00	
19	0.00	0.00	0.00	5.62	2.62	5.62	2.86	6.16	1.24	0.24	0.00	0.00	
20	0.00	0.08	0.00	3.64	2.50	6.52	2.74	5.62	1.13	0.24	0.00	0.00	
21	0.00	0.32	2.26	2.86	2.50	5.44	2.62	5.26	0.91	0.24	0.00	1.90	
22	0.00	0.00	1.68	2.74	2.50	4.18	2.62	4.90	0.91	0.24	0.00	0.24	
23	0.00	0.00	1.13	2.38	2.38	3.82	2.50	4.36	0.91	0.24	0.00	0.00	
24	0.00	0.40	0.80	1.79	4.54	3.64	2.50	4.18	0.80	0.24	0.00	0.00	
25	0.00	1.57	0.64	3.28	5.98	3.46	2.38	3.82	0.80	0.24	0.00	0.00	
26	0.00	1.68	0.64	3.46	6.70	3.28	2.26	3.82	0.72	0.24	0.00	0.00	
27	0.00	1.90	0.48	2.38	8.59	3.10	2.14	3.64	0.72	0.24	0.00	0.00	
28	0.00	0.64	0.40	2.62	6.52	3.46	2.02	3.10	0.64	0.24	0.00	0.00	
29	0.40	0.24	0.16	5.08	5.26	3.28	2.02	2.98	0.64	0.24	0.00	0.00	
30	0.00	0.00	0.00	3.46	4.90	3.10	2.02	3.82	0.64	0.24	0.00	0.00	
31	0.00	0.00	0.00	2.38	4.54	0.00	2.38	0.00	0.64	0.24	0.00	0.00	
<b>Total</b>	0.40	6.83	15.51	99.71	137.08	123.51	132.91	129.99	83.75	10.88	0.88	2.14	743.59 CMSDAY
<b>Mean</b>	0.01	0.22	0.52	3.22	4.42	4.12	4.29	4.33	2.70	0.35	0.03	0.07	2.04 CMS
<b>Max</b>	0.40	1.90	3.82	7.12	9.43	7.75	16.58	9.64	12.97	0.64	0.24	1.90	16.58 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	2.38	1.90	2.02	2.26	0.64	0.24	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.03	0.59	1.34	8.61	11.84	10.67	11.48	11.23	7.24	0.94	0.08	0.18	64.25 MCM
<b>Momentary Peak</b>	18.76	CMS.	at 15.52 m. (MSL.)	at 18.00 Hours	on Oct 8, 2021								
<b>Runoff Yield</b>	135.82	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	1250.67	Liters/Second/Square KM.						



# Suspended Sediment Station

## Water Year 2021

## WATER YEAR : 2021

## NAM MAE KOK RIVER BASIN

## Nam Mae Lao at Ban Ton Yang , Chiang Rai (G.8)

Lat 19 - 47 - 37 N Long 99 - 44 - 59 E

Location : on left bank at the bridge of Chiang Rai - Phayao Highway, Tambon Bua Sali.

	<b>Ban Ton Yang</b>	<b>Amphoe Mae Lao</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	2,943 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	39		
<b>R-Square</b>	0.9135		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.4068 QW^{1.69650}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	1.31	19.22	0.17	63.54	48.92	715.20	552.96	120.79	1.18	0.35	0.27	
2	0.01	2.25	1.09	0.09	36.63	30.66	629.89	1280.63	113.61	1.00	0.35	0.24	
3	0.01	1.92	0.49	0.05	31.85	23.14	568.02	1478.30	108.87	0.43	0.24	0.24	
4	0.01	1.31	0.35	0.03	101.85	24.13	606.38	1644.72	108.87	0.43	0.24	0.24	
5	0.01	1.60	0.39	0.01	56.85	24.13	538.07	1294.37	101.85	0.43	0.31	0.20	
6	0.04	1.76	0.39	0.24	21.14	56.85	394.64	893.86	95.16	0.39	0.77	0.20	
7	0.14	3.60	0.35	35.36	2.08	48.92	222.47	732.86	88.52	0.49	1.31	0.39	
8	0.27	16.58	1.76	29.57	0.56	29.57	150.83	646.36	84.25	0.63	1.09	1.60	
9	1.31	52.03	28.41	24.13	1.09	58.49	97.32	508.79	80.07	0.63	0.77	1.00	
10	3.32	72.33	253.25	65.26	2.61	239.92	78.08	480.97	70.54	0.63	0.63	1.00	
11	2.80	78.08	343.68	156.57	3.60	231.13	382.88	487.27	72.33	0.43	0.56	0.77	
12	2.61	53.62	134.15	253.25	8.56	177.25	795.88	688.90	67.00	0.31	0.56	0.49	
13	2.43	44.40	45.89	142.31	10.44	74.14	590.91	583.24	44.40	0.39	0.43	0.49	
14	1.60	45.89	90.76	75.98	20.14	95.16	301.91	538.07	40.34	0.63	0.31	0.43	
15	1.76	39.12	480.97	47.39	50.47	286.92	162.39	474.44	37.82	0.63	0.20	0.43	
16	1.45	22.09	317.42	58.49	97.32	904.01	181.26	461.76	36.63	2.61	0.27	0.43	
17	1.45	29.57	128.77	28.41	400.45	1253.35	406.54	560.47	30.66	9.17	0.27	0.63	
18	2.80	23.14	108.87	5.78	177.25	1008.14	538.07	487.27	11.11	13.31	0.27	1.45	
19	2.43	12.53	53.62	1.45	78.08	590.91	424.54	400.45	10.44	16.58	1.09	2.61	
20	1.76	2.61	23.14	9.17	56.85	360.04	291.81	371.27	8.56	28.41	23.14	1.76	
21	1.31	0.56	12.53	56.85	70.54	759.52	239.92	338.45	7.97	37.82	18.32	1.45	
22	1.00	0.39	5.11	80.07	80.07	2036.83	382.88	322.52	5.44	28.41	14.10	1.60	
23	1.00	0.27	2.80	44.40	67.00	2366.73	843.79	296.95	3.32	21.14	3.89	3.06	
24	0.92	0.12	1.09	37.82	111.16	1349.89	1087.07	209.66	1.92	19.22	0.92	7.97	
25	0.92	0.14	0.06	25.21	262.38	814.32	893.86	174.30	1.76	15.73	0.43	3.06	
26	1.00	0.09	0.12	22.09	301.91	680.43	741.60	159.38	1.60	11.78	0.31	1.31	
27	1.76	1.09	0.27	48.92	118.43	955.49	545.49	139.62	1.60	1.92	0.31	0.39	
28	1.60	36.63	1.18	30.66	131.37	1755.52	443.11	153.60	1.18	0.77	0.24	0.77	
29	1.31	134.15	0.84	23.14	123.48	1691.84	376.94	142.31	1.18	0.63		1.18	
30	1.18	86.44	0.35	29.57	88.52	1052.90	388.62	131.37	1.18	0.56		1.60	
31		53.62		68.76	68.76		474.44		1.18	0.39		1.92	
Total	38.22	819.24	2057.32	1401.20	2644.98	19029.25	14494.81	16635.12	1360.15	217.08	71.68	39.18	58808.23 Tonday
Mean	1.27	26.43	68.58	45.20	85.32	634.31	467.57	554.50	43.88	7.00	2.56	1.26	161.12 Ton/day
Max	3.32	134.15	480.97	253.25	400.45	2366.73	1087.07	1644.72	120.79	37.82	23.14	7.97	2366.73 Ton/day
Min	0.01	0.09	0.06	0.01	0.56	23.14	78.08	131.37	1.18	0.31	0.20	0.20	0.01 Ton/day

## WATER YEAR : 2021

## NAM MAE KOK RIVER BASIN

Nam Mae Suai at Ban Kariang Thung Phrao , Chiang Rai (G.9)

Lat 19 - 44 - 46 N Long 99 - 30 - 03 E

Location : on right bank at the bridge on road.

	<b>Ban</b> Kariang Thung Phrao	<b>Amphoe</b> Mae Suai	<b>Changwat</b> Chiang Rai
<b>Drainage Area</b>	388 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.7479		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.3490 QW^{2.90450}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	3.45	10.80	3.45	18.45	48.82	1492.66	157.40	40.53	25.13	10.80	5.00	
2	1.05	4.44	5.00	3.45	58.15	48.82	1492.66	202.30	40.53	25.13	7.09	5.00	
3	1.05	1.37	3.45	3.45	315.66	40.53	1492.66	385.27	40.53	21.62	7.09	5.00	
4	1.05	1.05	3.45	3.45	385.27	40.53	1492.66	687.14	40.53	18.45	5.60	5.00	
5	1.05	0.91	3.45	3.45	92.95	40.53	1492.66	464.25	40.53	18.45	5.00	5.00	
6	1.37	0.78	3.45	7.09	48.82	40.53	1492.66	254.86	40.53	18.45	5.00	5.00	
7	2.25	0.78	3.45	33.23	40.53	40.53	1367.13	254.86	40.53	21.62	5.00	5.60	
8	2.25	3.45	10.80	18.45	28.99	58.15	1367.13	122.41	40.53	18.45	5.00	10.80	
9	1.63	80.16	254.86	18.45	18.45	68.57	1248.73	68.57	28.99	18.45	5.00	7.09	
10	1.63	3.92	514.67	18.45	18.45	107.01	1137.27	68.57	28.99	18.45	5.00	7.09	
11	1.63	15.60	820.88	18.45	28.99	68.57	820.88	80.16	28.99	13.06	5.00	7.09	
12	1.37	7.09	92.95	18.45	48.82	58.15	687.14	92.95	28.99	15.60	5.00	7.09	
13	1.20	5.60	92.95	10.80	21.62	58.15	626.00	92.95	28.99	18.45	5.00	7.09	
14	1.20	5.00	139.18	7.09	122.41	385.27	514.67	92.95	28.99	18.45	5.00	7.09	
15	1.20	8.82	254.86	8.82	1765.90	2587.58	423.55	92.95	28.99	58.15	5.00	5.00	
16	1.20	10.80	139.18	48.82	10065.20	626.00	315.66	68.57	33.23	227.58	5.00	5.00	
17	1.20	2.61	80.16	33.23	514.67	2234.18	315.66	68.57	33.23	28.99	4.44	5.00	
18	1.20	1.92	58.15	48.82	315.66	2234.18	7434.06	68.57	33.23	48.82	5.60	5.00	
19	1.20	1.63	33.23	68.57	227.58	1765.90	1051.79	68.57	28.99	18.45	13.06	5.00	
20	1.05	1.63	18.45	40.53	178.92	752.06	254.86	68.57	28.99	25.13	10.80	5.00	
21	0.78	1.63	18.45	40.53	157.40	112742.06	178.92	68.57	28.99	18.45	7.09	5.00	
22	0.78	1.63	13.06	28.99	122.41	39225.99	178.92	80.16	28.99	18.45	7.09	5.00	
23	0.78	1.63	10.80	18.45	92.95	1765.90	178.92	107.01	28.99	18.45	7.09	5.00	
24	0.78	1.92	8.82	18.45	92.95	1248.73	178.92	122.41	28.99	18.45	5.00	5.00	
25	0.78	3.92	8.82	18.45	92.95	1137.27	178.92	92.95	28.99	18.45	5.00	5.60	
26	1.20	5.60	7.09	18.45	80.16	3084.31	202.30	40.53	28.99	18.45	5.00	7.09	
27	2.25	15.60	8.82	25.13	80.16	13283.57	178.92	40.53	28.99	18.45	5.00	5.60	
28	2.25	122.41	18.45	33.23	80.16	6097.19	157.40	40.53	28.99	18.45	5.00	5.00	
29	3.01	40.53	5.00	18.45	92.95	2234.18	107.01	40.53	25.13	13.06		8.82	
30	3.01	28.99	3.45	18.45	58.15	1765.90	107.01	40.53	25.13	13.06		15.60	
31		5.60		18.45	40.53		80.16		25.13	13.06		18.45	
Total	42.45	390.47	2646.13	673.53	15306.26	193889.16	28247.89	4134.19	992.15	863.66	170.75	205.10	247561.74 Tonday
Mean	1.41	12.60	88.20	21.73	493.75	6462.97	911.22	137.81	32.00	27.86	6.10	6.62	678.25 Ton/day
Max	3.01	122.41	820.88	68.57	10065.20	112742.06	7434.06	687.14	40.53	227.58	13.06	18.45	112742.06 Ton/day
Min	0.78	0.78	3.45	3.45	18.45	40.53	80.16	40.53	25.13	13.06	4.44	5.00	0.78 Ton/day

**WATER YEAR : 2021****NAM MAE ING RIVER BASIN****Nam Mae Ing at Ban Nam Ing , Chiang Rai (I.14)**

Lat 19 - 50 - 00 N Long 100 - 12 - 03 E

Location : on right bank at the bridge on the road about 2 kilometers from Amphoe Khun Tan.

	<b>Ban Nam Ing</b>	<b>Amphoe Khun Tan</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	6,220 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1994-Cont'd		
<b>Actual Measurement</b>	1994-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9532		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.8050 QW^{1.40640}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.32	18.64	104.20	803.21	757.87	1126.20	3.93	1.14	2.76	0.43	
2	0.01	0.01	0.32	20.29	117.35	816.99	812.39	1192.40	3.93	2.25	1.78	0.43	
3	0.01	0.04	0.36	20.29	171.55	703.43	896.30	1463.40	3.93	2.25	1.56	0.43	
4	0.01	0.11	0.59	20.29	374.57	598.15	915.27	1531.59	3.14	2.25	3.53	0.43	
5	0.01	0.25	0.94	20.29	854.05	466.94	992.28	1658.91	2.50	2.25	6.14	0.43	
6	0.02	0.36	0.51	22.90	992.28	402.93	1136.31	1577.55	2.01	1.34	7.72	0.43	
7	0.01	0.36	0.47	31.62	816.99	311.69	1141.38	1548.78	1.34	0.47	8.36	0.43	
8	0.02	0.39	0.47	30.61	684.27	293.23	1006.91	1452.12	2.01	1.34	2.25	0.29	
9	0.02	0.47	0.21	28.62	402.93	247.29	877.45	1324.26	1.14	3.53	0.76	0.25	
10	0.02	0.55	0.21	28.62	242.33	213.18	803.21	1218.15	1.14	3.53	0.59	0.25	
11	0.02	0.76	0.22	38.94	237.40	194.35	635.18	1091.01	0.76	1.34	0.59	0.25	
12	0.02	1.56	0.51	52.64	394.36	180.57	587.17	968.02	0.59	1.14	0.59	0.25	
13	0.02	1.56	4.78	36.81	590.82	171.55	519.00	849.39	0.59	0.59	0.59	0.25	
14	0.02	1.56	74.87	24.76	738.29	206.06	383.02	730.50	0.55	0.51	0.59	0.25	
15	0.02	1.56	443.19	21.13	803.21	338.62	314.35	631.45	0.55	0.43	0.59	0.25	
16	0.01	1.56	826.21	16.25	972.86	627.72	303.74	572.61	0.55	0.36	0.55	0.22	
17	0.01	1.56	565.38	17.83	858.71	734.40	306.38	433.13	2.25	0.32	0.51	0.22	
18	0.01	1.56	249.78	17.03	657.71	718.86	333.18	272.53	0.51	0.32	0.29	0.22	
19	0.01	1.56	100.98	16.25	533.15	661.48	335.90	152.11	0.51	1.14	0.21	0.22	
20	0.01	1.56	30.61	29.61	554.57	590.82	411.55	105.81	0.51	7.10	0.21	0.22	
21	0.01	1.34	22.90	36.81	547.40	572.61	288.01	94.63	0.51	11.76	0.21	0.22	
22	0.01	1.14	19.46	44.47	543.83	601.82	355.08	76.34	0.51	11.05	0.21	0.21	
23	0.01	1.14	17.03	50.27	536.70	665.26	388.68	63.67	0.47	9.68	0.21	0.21	
24	0.01	1.14	15.47	44.47	561.77	699.58	816.99	64.96	0.47	9.01	0.51	0.21	
25	0.01	0.51	17.03	45.63	882.15	657.71	1197.54	66.21	0.43	9.01	0.47	0.21	
26	0.01	0.47	16.25	45.63	1051.19	612.89	1182.15	66.21	0.43	9.01	0.43	0.21	
27	0.00	0.55	13.95	80.81	1006.91	609.19	1096.02	64.96	0.43	9.01	0.43	0.21	
28	0.00	0.59	13.21	249.78	953.55	665.26	1056.15	63.67	0.43	9.01	0.43	0.21	
29	0.00	0.76	12.48	230.05	910.52	753.95	1002.03	63.67	0.43	6.61		0.51	
30	0.00	0.94	12.48	157.54	830.83	730.50	963.19	63.67	0.43	4.78		2.76	
31		0.76		137.89	803.21		1066.08		0.43	3.53		3.93	
Total	0.35	26.69	2461.19	1636.77	19729.66	15850.24	22880.76	20587.91	37.41	126.06	43.07	15.04	83395.15 Tonday
Mean	0.01	0.86	82.04	52.80	636.44	528.34	738.09	686.26	1.21	4.07	1.54	0.49	228.48 Ton/day
Max	0.02	1.56	826.21	249.78	1051.19	816.99	1197.54	1658.91	3.93	11.76	8.36	3.93	1658.91 Ton/day
Min	0.00	0.01	0.21	16.25	104.20	171.55	288.01	63.67	0.43	0.32	0.21	0.21	0.00 Ton/day

**WATER YEAR : 2021****KHONG RIVER BASIN****Nam Mae Kham at Ban Mae Kham Lak Chet , Chiang Rai (Kh.72)**

Lat 20 - 13 - 07 N Long 99 - 51 - 25 E

Location : on right bank at the bridge of Mae Chan - Mae Sai Highway from Tambon Mae Kham.

	<b>Ban</b> Mae Kham Lak Chet	<b>Amphoe</b> Mae Chan	<b>Changwat</b> Chiang Rai
<b>Drainage Area</b>	652	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	32		
<b>R-Square</b>	0.8733		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.7721 QW^{1.88410}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.52	1.39	12.83	54.80	131.89	212.89	2217.41	143.47	14.76	6.12	0.68	
2	0.44	0.68	1.19	6.67	59.57	151.99	207.87	305.37	135.70	14.76	5.59	0.68	
3	0.32	0.68	0.83	5.09	90.18	233.56	197.99	267.99	135.70	13.78	5.09	0.68	
4	0.32	0.68	1.19	4.15	223.11	267.99	183.59	747.24	131.89	13.78	5.09	0.68	
5	0.44	0.68	1.39	3.30	445.79	90.18	160.73	619.10	131.89	12.83	6.12	0.68	
6	0.68	0.68	0.83	10.19	93.37	110.11	135.70	419.36	128.13	11.92	10.19	0.59	
7	1.19	0.68	0.68	31.94	80.92	156.33	120.77	298.68	124.43	11.92	6.67	0.68	
8	1.39	0.68	1.39	23.02	59.57	87.04	99.91	238.86	124.43	10.19	6.12	0.68	
9	1.39	0.68	83.95	113.61	27.19	80.92	90.18	228.31	120.77	10.19	3.71	0.59	
10	1.39	0.68	99.91	48.00	35.66	75.00	202.90	223.11	120.77	11.04	2.91	0.59	
11	1.39	0.68	3.71	27.19	1771.37	69.67	428.09	217.98	117.16	11.92	2.34	0.52	
12	1.39	0.83	4.15	14.76	861.51	64.53	151.99	217.98	103.26	12.83	2.34	0.52	
13	1.39	1.61	7.83	7.24	212.89	59.57	131.89	212.89	67.08	13.78	2.34	0.52	
14	1.39	0.68	64.53	4.15	559.03	83.95	113.61	212.89	48.00	14.76	1.84	0.52	
15	1.39	0.59	193.13	8.58	2596.62	120.77	124.43	207.87	39.58	15.76	1.84	0.44	
16	1.00	0.59	48.00	24.37	8871.89	244.56	151.99	178.90	33.78	96.61	1.61	0.44	
17	0.68	0.59	27.19	4.15	1500.23	559.03	131.89	147.70	30.14	50.22	1.61	0.38	
18	0.68	2.34	14.76	3.30	940.42	183.59	113.61	143.47	27.19	30.14	2.08	0.38	
19	0.83	1.19	6.67	16.80	582.61	361.47	103.26	143.47	25.76	27.19	4.60	0.38	
20	1.19	1.39	3.30	117.16	495.26	1928.13	90.18	128.13	24.37	27.19	4.15	0.32	
21	1.19	0.68	2.34	27.19	393.69	419.36	110.11	117.16	23.02	25.76	3.71	0.32	
22	1.39	0.68	2.08	238.86	292.41	548.15	606.65	113.61	20.42	24.37	2.91	0.32	
23	1.39	0.59	1.61	402.17	262.04	2036.10	4403.57	113.61	20.42	23.02	3.71	0.52	
24	1.39	0.59	1.19	217.98	212.89	402.17	733.64	106.66	20.42	19.18	2.91	0.52	
25	1.39	0.59	11.92	131.89	174.28	256.15	385.31	113.61	20.42	16.80	2.34	0.52	
26	12.83	0.59	110.11	117.16	113.61	286.21	228.31	120.77	19.18	14.76	2.34	0.52	
27	2.08	0.59	48.00	151.99	188.33	250.32	147.70	128.13	17.97	11.92	1.84	0.59	
28	0.59	0.59	15.76	77.93	445.79	217.98	128.13	131.89	16.80	9.37	1.39	0.68	
29	0.52	0.83	7.83	57.16	267.99	202.90	106.66	135.70	14.76	7.83		0.68	
30	0.59	0.59	8.58	57.16	165.19	178.90	106.66	143.47	14.76	6.67		0.83	
31		0.59		52.49	99.91		760.39		14.76	6.12		0.83	
<b>Total</b>	42.77	24.04	775.44	2018.48	22178.12	9858.52	10870.60	8601.32	2016.43	591.37	103.51	17.28	57097.88 Tonday
<b>Mean</b>	1.43	0.78	25.85	65.11	715.42	328.62	350.66	286.71	65.05	19.08	3.70	0.56	156.43 Ton/day
<b>Max</b>	12.83	2.34	193.13	402.17	8871.89	2036.10	4403.57	2217.41	143.47	96.61	10.19	0.83	8871.89 Ton/day
<b>Min</b>	0.32	0.52	0.68	3.30	27.19	59.57	90.18	106.66	14.76	6.12	1.39	0.32	0.32 Ton/day



**WATER YEAR : 2021****KHONG RIVER BASIN****Loei River at Ban Na Lak , Loei (Kh.28A)**

Lat 17 - 18 - 44 N Long 101 - 46 - 21 E

**Location : on right bank at the bridge of Wang Saphung - Loei Highway.**

	<b>Ban Na Lak</b>	<b>Amphoe Wang Saphung</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	1,289 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8543		
<b>Remarks</b>	Continued Sediment Station		

**QS = 4.7996 QW<sup>1.35600</sup>****Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.23	81.87	62.02	73.75	209.56	494.21	572.65	65.87	35.79	19.39	11.46	12.29	
2	25.23	90.20	58.23	73.75	297.94	440.10	665.87	29.34	31.45	17.54	11.46	13.98	
3	25.23	86.01	52.05	73.75	267.59	440.10	665.87	12.29	29.34	17.54	12.29	13.98	
4	31.45	69.78	52.05	69.78	188.79	367.21	630.48	29.34	27.26	19.39	13.98	9.86	
5	42.56	65.87	49.63	65.87	168.61	297.94	527.46	27.26	27.26	17.54	13.98	9.08	
6	35.79	65.87	47.24	65.87	162.02	952.99	347.03	25.23	23.24	17.54	13.98	8.32	
7	38.01	62.02	54.50	69.78	149.04	992.36	450.79	15.73	11.46	17.54	12.29	8.32	
8	35.79	58.23	58.23	81.87	162.02	713.84	461.55	27.26	38.01	17.54	13.98	29.34	
9	31.45	54.50	42.56	81.87	149.04	2063.33	367.21	90.20	73.75	17.54	13.98	58.23	
10	31.45	54.50	54.50	123.97	136.36	8510.95	418.92	58.23	69.78	15.73	13.98	27.26	
11	31.45	52.05	69.78	202.57	130.13	15978.31	494.21	42.56	49.63	15.73	13.98	19.39	
12	29.34	52.05	69.78	317.34	130.13	6210.10	2506.48	31.45	44.89	15.73	17.54	23.24	
13	29.34	52.05	58.23	260.13	111.91	1422.17	1293.27	31.45	40.27	13.98	13.98	13.98	
14	27.26	49.63	62.02	238.11	117.90	2988.90	538.67	29.34	35.79	11.46	15.73	9.86	
15	27.26	49.63	130.13	202.57	111.91	7560.74	195.65	27.26	33.60	11.46	15.73	8.32	
16	29.34	49.63	130.13	182.00	117.90	8697.02	2063.33	27.26	33.60	11.46	15.73	8.32	
17	35.79	49.63	142.66	162.02	117.90	7488.89	11083.55	25.23	29.34	11.46	17.54	9.86	
18	35.79	52.05	182.00	142.66	65.87	5474.85	4460.59	23.24	27.26	11.46	15.73	11.46	
19	52.05	49.63	111.91	130.13	52.05	1436.69	2523.32	21.29	27.26	11.46	15.73	8.32	
20	42.56	52.05	94.44	123.97	52.05	1032.15	952.99	31.45	27.26	11.46	15.73	6.85	
21	38.01	54.50	111.91	123.97	49.63	837.45	418.92	155.49	27.26	12.29	17.54	9.86	
22	35.79	52.05	77.78	142.66	54.50	4054.57	2339.72	86.01	27.26	12.29	15.73	9.86	
23	33.60	49.63	69.78	216.61	54.50	7417.21	3485.39	69.78	25.23	12.29	15.73	27.26	
24	33.60	54.50	73.75	357.08	73.75	8884.15	1465.84	65.87	21.29	11.46	13.98	23.24	
25	31.45	65.87	94.44	1005.58	58.23	5649.08	595.61	58.23	27.26	11.46	13.98	19.39	
26	29.34	77.78	77.78	1539.39	182.00	15487.77	245.39	52.05	25.23	11.46	11.46	15.73	
27	31.45	65.87	65.87	1378.85	357.08	15634.51	117.90	47.24	23.24	11.46	13.98	13.98	
28	40.27	62.02	69.78	642.22	290.27	6433.19	44.89	42.56	23.24	11.46	13.98	11.46	
29	47.24	69.78	73.75	387.68	290.27	2389.43	81.87	38.01	21.29	11.46		11.46	
30	62.02	65.87	69.78	297.94	209.56	1072.34	377.41	35.79	21.29	11.46		13.98	
31		62.02		275.10	282.66		252.73		21.29	11.46		13.98	
Total	1045.14	1877.14	2366.71	9108.84	4801.17	141422.55	40645.56	1322.31	980.12	431.50	405.18	480.46	204886.68 Tonday
Mean	34.84	60.55	78.89	293.83	154.88	4714.09	1311.15	44.08	31.62	13.92	14.47	15.50	561.33 Ton/day
Max	62.02	90.20	182.00	1539.39	357.08	15978.31	11083.55	155.49	73.75	19.39	17.54	58.23	15978.31 Ton/day
Min	25.23	49.63	42.56	65.87	49.63	297.94	44.89	12.29	11.46	11.46	11.46	6.85	6.85 Ton/day



**WATER YEAR : 2021****KHONG RIVER BASIN****Loei River at Ban Fak loei , Loei (Kh.58A)**

Lat 17 - 29 - 42 N Long 101 - 44 - 04 E

**Location : on left bank at the bridge on road.**

	<b>Ban</b>	<b>Fak Loei</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Loei</b>
<b>Drainage Area</b>	3,230 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	28					
<b>R-Square</b>	0.8957					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.4906 QW^{1.71940}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.08	278.81	29.82	14.62	81.78	426.23	1550.41	420.52	10.68	7.28	0.67	0.67	
2	8.91	298.26	23.97	16.77	90.57	381.46	1256.16	344.01	9.49	5.32	0.49	0.33	
3	8.91	232.61	16.77	13.25	90.57	443.55	1222.60	250.67	11.94	9.49	4.44	0.67	
4	17.52	151.00	13.25	13.25	71.31	303.21	957.94	232.61	9.49	6.77	7.81	6.27	
5	19.84	79.64	10.08	13.25	52.22	241.57	1081.61	198.21	7.81	5.79	0.20	5.32	
6	20.64	55.84	10.08	11.30	48.71	455.26	879.01	158.49	8.91	5.32	2.54	1.62	
7	16.77	45.29	10.08	10.68	43.62	645.87	747.79	140.04	5.79	3.24	6.27	1.10	
8	19.05	32.70	13.92	13.25	46.99	559.86	722.62	119.18	2.88	1.62	3.62	67.30	
9	19.05	23.97	14.62	55.84	43.62	1233.75	618.86	95.11	14.62	3.62	3.24	71.31	
10	17.52	23.12	25.71	143.66	38.78	7994.39	485.08	73.36	18.28	6.77	4.87	21.45	
11	16.77	22.28	45.29	136.47	34.18	17115.84	278.81	54.02	15.32	1.35	5.32	15.32	
12	16.04	18.28	69.29	241.57	32.70	15027.73	3722.59	38.78	14.62	0.00	2.54	15.32	
13	15.32	16.77	48.71	237.07	31.24	3887.85	5154.12	35.68	12.58	0.33	0.87	10.68	
14	15.32	20.64	46.99	202.38	31.24	4326.49	2865.61	34.18	12.58	0.33	0.67	5.32	
15	14.62	23.12	65.33	210.84	31.24	14671.09	1394.17	34.18	11.30	1.10	2.21	2.88	
16	15.32	22.28	65.33	359.86	31.24	21298.24	1538.14	32.70	10.08	4.02	8.91	2.88	
17	28.42	23.12	43.62	140.04	31.24	20052.08	8358.92	31.24	8.91	1.90	0.87	6.27	
18	23.12	20.64	59.56	86.13	21.45	16801.66	7251.13	29.82	8.91	2.21	0.10	5.79	
19	29.82	19.05	55.84	65.33	11.30	5047.37	3816.66	27.05	22.28	0.49	0.49	3.24	
20	79.64	19.84	21.45	59.56	10.68	1658.06	1773.66	24.83	7.81	0.33	3.24	2.21	
21	112.54	21.45	25.71	40.37	11.30	1233.75	859.73	23.97	11.94	0.10	4.02	1.90	
22	79.64	20.64	22.28	43.62	12.58	4080.38	3514.55	23.12	8.91	1.10	6.27	4.44	
23	63.38	19.84	13.92	55.84	13.92	8506.64	7113.01	21.45	2.88	2.21	21.45	11.30	
24	38.78	23.12	16.04	102.88	14.62	13363.98	2992.25	20.64	0.00	4.87	35.68	37.22	
25	23.12	59.56	16.04	246.10	20.64	12060.72	1301.49	19.05	12.58	4.44	29.82	27.05	
26	17.52	198.21	19.05	729.78	35.68	16801.66	701.33	17.52	7.28	5.32	13.92	20.64	
27	17.52	73.36	14.62	680.31	132.93	24870.69	491.14	16.77	10.68	2.88	6.77	16.77	
28	19.84	38.78	13.92	386.95	162.30	20594.32	354.55	16.04	8.91	0.00	1.62	10.68	
29	34.18	31.24	14.62	166.14	143.66	10331.17	338.79	14.62	7.81	12.58		8.91	
30	129.44	57.69	13.92	115.84	147.31	4351.44	566.29	12.58	7.81	6.27		11.30	
31		45.29		95.11	259.91		579.25		7.81	0.33		15.32	
Total	948.64	2016.44	859.83	4708.06	1829.53	248766.31	64488.27	2560.44	310.89	107.38	178.92	411.48	327186.19 Tonday
Mean	31.62	65.05	28.66	151.87	59.02	8292.21	2080.27	85.35	10.03	3.46	6.39	13.27	896.40 Ton/day
Max	129.44	298.26	69.29	729.78	259.91	24870.69	8358.92	420.52	22.28	12.58	35.68	71.31	24870.69 Ton/day
Min	8.91	16.77	10.08	10.68	10.68	241.57	278.81	12.58	0.00	0.00	0.10	0.33	0.00 Ton/day

**WATER YEAR : 2021****KHONG RIVER BASIN**

Loei River at Ban Keng Bong , Loei (Kh.61)

Lat 17 - 07 - 52 N Long 101 - 40 - 44 E

Location : on right bank at the bridge of Amphoe Wang Saphung - Ban Nong Khan Road.

	<b>Ban Keng Bong</b>	<b>Amphoe Phu Luang</b>	<b>Changwat Loei</b>
<b>Drainge Area</b>	595 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8332		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.5112 QW^{1.58270}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.06	9.06	9.52	22.44	91.87	91.87	539.36	71.14	4.17	4.53	2.29	2.02	
2	1.06	12.50	9.52	23.75	91.87	94.05	484.23	61.51	3.50	4.53	2.29	1.51	
3	1.06	14.10	9.52	23.75	89.71	91.87	437.09	45.54	3.50	4.53	2.57	1.06	
4	1.51	13.03	9.52	23.75	91.87	31.40	490.25	32.87	2.87	4.53	2.87	1.06	
5	1.28	11.98	9.52	23.09	91.87	136.39	425.58	37.44	2.87	4.89	2.57	0.76	
6	1.17	11.98	10.00	23.09	89.71	539.36	402.91	21.17	2.87	4.89	2.57	1.06	
7	1.28	11.98	10.00	19.92	87.57	234.15	402.91	19.30	4.53	4.53	2.57	1.06	
8	1.06	11.98	1.51	29.95	85.45	173.17	369.77	16.91	14.65	4.53	2.02	10.98	
9	1.17	11.98	0.86	27.13	81.26	1911.64	271.95	14.65	10.98	4.17	2.57	3.18	
10	1.17	11.48	1.17	28.53	79.20	3640.07	45.54	10.48	6.44	4.17	2.29	0.76	
11	1.17	11.48	1.39	35.90	81.26	4516.19	29.95	7.28	4.53	4.17	2.29	0.59	
12	1.06	11.48	1.51	32.87	75.13	1246.29	19.30	9.06	9.06	3.83	2.87	0.59	
13	1.06	11.48	4.17	39.02	77.15	577.31	21.80	9.52	5.65	1.51	2.57	0.35	
14	1.17	11.98	4.17	42.23	75.13	944.11	21.80	9.52	6.86	1.51	3.18	0.22	
15	1.06	10.48	6.44	50.67	73.12	1373.27	18.69	9.06	6.04	1.51	2.29	0.12	
16	1.06	10.48	23.75	48.93	73.12	964.66	933.90	8.60	6.44	1.51	2.87	0.04	
17	1.06	9.52	25.08	47.22	57.81	2367.66	2854.77	7.71	6.04	1.51	2.57	0.35	
18	1.28	10.00	25.08	47.22	18.69	1145.81	985.38	7.28	6.04	1.39	2.57	0.12	
19	1.39	10.00	25.76	43.87	18.69	583.73	717.46	6.86	6.04	1.51	2.57	0.76	
20	1.39	10.00	25.76	45.54	18.09	570.92	337.69	6.86	6.04	1.51	3.18	1.17	
21	1.28	10.00	25.08	42.23	17.50	590.17	173.17	6.44	6.04	1.51	2.87	0.96	
22	1.28	10.00	24.41	43.87	18.09	1871.98	1991.87	5.65	4.53	1.76	2.87	1.28	
23	1.17	10.48	23.75	48.93	18.09	2631.24	1006.25	5.65	1.06	1.76	2.57	2.87	
24	1.17	10.48	23.75	67.23	12.50	1885.17	472.28	4.89	6.04	1.51	1.17	2.29	
25	1.17	10.98	23.75	1246.29	2.87	2353.32	216.04	4.89	3.83	1.51	1.06	1.51	
26	1.39	10.00	24.41	954.37	4.17	7027.45	133.89	4.89	5.26	1.51	2.57	1.17	
27	6.04	10.00	23.75	551.90	4.89	3874.05	77.15	4.53	4.53	1.51	2.02	1.06	
28	4.89	10.00	22.44	181.46	6.44	1516.89	57.81	4.53	4.17	2.57	2.02	1.06	
29	6.86	10.48	22.44	114.50	6.44	759.53	112.16	4.17	4.17	2.87		1.51	
30	4.53	10.00	23.75	96.25	11.48	539.36	189.90	4.17	4.53	2.87		5.26	
31		10.00		94.05	40.61		107.52		4.53	2.29		10.98	
Total	53.30	339.39	451.78	4119.95	1591.65	44283.08	14348.37	462.57	167.81	86.93	68.72	57.71	66031.26 Tonday
Mean	1.78	10.95	15.06	132.90	51.34	1476.10	462.85	15.42	5.41	2.80	2.45	1.86	180.91 Ton/day
Max	6.86	14.10	25.76	1246.29	91.87	7027.45	2854.77	71.14	14.65	4.89	3.18	10.98	7027.45 Ton/day
Min	1.06	9.06	0.86	19.92	2.87	31.40	18.69	4.17	1.06	1.39	1.06	0.04	0.04 Ton/day



## WATER YEAR : 2021

## KHONG RIVER BASIN

## Lam Nam Phung at Ban Tong Khop , Sakon Nakhon (Kh.90)

Lat 17 - 03 - 10 N Long 104 - 15 - 19 E

Location : on right bank at the bridge on highway.

	Ban Tong Khop	Amphoe Khok Si Suphan	Changwat Sakon Nakhon
<b>Drainage Area</b>	842 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.8306		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.1486 QW^{1.64590}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	17.32	19.00	59.46	92.62	17.32	99.06	19.00	4.85	4.20	0.00	0.00	
2	0.00	12.67	10.34	35.20	87.91	17.32	169.66	19.00	4.85	2.24	0.03	0.37	
3	0.00	17.32	7.79	20.73	81.77	15.71	107.34	19.00	3.30	0.50	0.37	0.50	
4	0.00	20.73	3.59	17.32	75.81	15.71	84.82	17.32	2.24	0.37	0.37	1.34	
5	0.00	35.20	2.49	14.16	72.90	24.38	63.97	17.32	2.00	0.37	0.64	1.34	
6	0.00	26.29	2.75	19.00	68.61	220.63	55.07	14.16	2.24	5.54	1.34	0.37	
7	0.00	15.71	20.73	17.32	55.07	89.47	77.28	11.25	1.55	4.20	2.00	0.00	
8	0.00	19.00	59.46	11.25	46.71	42.73	75.81	8.61	2.00	2.49	0.80	0.00	
9	0.00	10.34	267.03	31.65	42.73	35.20	75.81	7.01	2.00	1.34	0.08	1.55	
10	0.00	7.01	497.33	449.54	42.73	28.26	78.77	7.01	2.49	0.50	0.08	0.25	
11	0.00	12.67	492.83	529.25	20.73	31.65	614.86	7.01	2.24	1.55	0.00	0.37	
12	0.00	19.00	373.57	441.70	8.61	78.77	418.49	5.54	2.24	0.37	0.00	0.37	
13	0.00	22.53	773.84	433.91	22.53	172.35	203.06	6.25	2.00	0.64	0.25	0.50	
14	0.00	70.03	341.20	403.30	373.57	557.22	254.32	6.25	2.00	1.77	2.49	0.64	
15	0.00	63.97	175.06	395.78	92.62	806.25	883.88	4.85	3.59	3.30	2.49	1.34	
16	0.00	42.73	107.34	270.25	24.38	624.68	664.57	6.25	6.25	11.25	2.24	2.00	
17	0.00	59.46	94.22	260.65	19.00	380.92	475.01	4.85	4.20	7.01	1.55	3.30	
18	0.00	46.71	78.77	159.05	9.46	159.05	348.30	4.85	2.49	4.20	1.34	7.01	
19	0.00	35.20	68.61	351.86	19.00	97.43	188.86	4.20	2.49	2.24	0.80	3.30	
20	0.00	26.29	46.71	156.44	20.73	92.62	109.03	5.54	2.24	0.50	0.37	2.24	
21	0.00	20.73	50.82	122.90	100.70	122.90	83.29	7.01	1.55	0.50	0.16	2.00	
22	0.00	17.32	71.46	105.67	70.03	124.68	78.77	7.01	1.77	1.15	0.08	1.77	
23	0.00	17.32	77.28	110.73	31.65	124.68	75.81	7.01	3.02	0.37	0.08	2.49	
24	0.00	15.71	77.28	211.78	26.29	128.27	68.61	4.85	7.01	0.37	0.00	6.25	
25	0.00	19.00	87.91	1171.35	19.00	131.90	55.07	4.85	7.01	0.64	0.03	4.20	
26	1.55	24.38	80.26	1040.28	17.32	306.61	42.73	5.54	8.61	1.15	0.00	3.02	
27	130.08	28.26	74.35	414.67	17.32	244.95	26.29	7.01	15.71	1.15	0.00	2.00	
28	183.29	38.90	72.90	257.48	22.53	138.65	20.73	6.25	6.25	7.79	0.00	0.97	
29	50.82	38.90	74.35	146.17	17.32	84.82	19.00	3.59	7.01	4.20		0.64	
30	17.32	28.26	72.90	115.88	31.65	28.26	19.00	4.85	7.01	1.15		0.00	
31		20.73		102.34	20.73		17.32		5.54	0.03		0.00	
<b>Total</b>	383.06	849.69	4182.17	7877.07	1652.03	4943.39	5554.59	253.24	127.75	73.08	17.59	50.13	25963.79 Tonday
<b>Mean</b>	12.77	27.41	139.41	254.10	53.29	164.78	179.18	8.44	4.12	2.36	0.63	1.62	71.13 Ton/day
<b>Max</b>	183.29	70.03	773.84	1171.35	373.57	806.25	883.88	19.00	15.71	11.25	2.49	7.01	1171.35 Ton/day
<b>Min</b>	0.00	7.01	2.49	11.25	8.61	15.71	17.32	3.59	1.55	0.03	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****KHONG RIVER BASIN****Huai Chanot at Ban Khon Sawan , Nakhon Phanom (Kh.91)**

Lat 16 - 47 - 54 N Long 104 - 39 - 31 E

**Location : on left bank at the bridge on highway.**

	<b>Ban</b> Khon Sawan	<b>Amphoe</b> That Phanom	<b>Changwat</b> Nakhon Phanom
<b>Drainage Area</b>	169 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.8276		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.6669 QW^{1.14360}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.45	0.28	1.71	0.96	0.58	1.53	1.48	0.19	0.19	0.23	0.08	
2	0.05	0.34	0.23	1.44	0.79	0.58	1.48	1.40	0.19	0.19	0.25	0.08	
3	0.05	0.23	0.19	1.11	0.42	0.52	3.85	1.29	0.19	0.16	0.25	0.08	
4	0.05	0.20	0.23	0.93	0.42	0.45	4.97	1.18	0.19	0.12	0.20	0.08	
5	0.05	0.18	0.20	0.93	0.42	1.11	3.60	0.89	0.18	0.12	0.15	0.08	
6	0.04	0.20	0.39	1.18	0.37	2.61	2.37	0.86	0.18	0.12	0.09	0.07	
7	0.05	0.22	0.49	1.14	0.34	2.45	1.94	0.75	0.16	0.12	0.09	0.05	
8	0.08	0.22	1.37	1.48	0.26	2.21	1.53	0.69	0.16	0.12	0.08	0.05	
9	0.09	0.19	13.13	1.25	0.26	7.67	1.22	0.62	0.16	0.12	0.08	0.05	
10	0.09	0.15	25.98	5.86	0.26	10.07	1.14	0.52	0.16	0.12	0.08	0.04	
11	0.09	0.12	30.58	9.64	0.26	6.64	3.35	0.45	0.16	0.12	0.08	0.04	
12	0.09	0.12	39.63	5.15	0.36	3.77	4.45	0.42	0.16	0.12	0.08	0.04	
13	0.09	0.12	43.74	2.45	0.93	2.77	3.51	0.42	0.16	0.12	0.08	0.04	
14	0.09	0.16	27.87	4.62	5.15	2.85	6.87	0.42	0.16	0.12	0.08	0.04	
15	0.09	0.37	12.25	3.85	5.32	2.61	14.63	0.39	0.16	0.11	0.07	0.04	
16	0.09	1.25	4.71	2.61	5.97	5.74	31.57	0.34	0.16	0.09	0.08	0.04	
17	0.09	0.72	2.45	4.02	5.41	5.41	40.91	0.34	0.18	0.09	0.09	0.04	
18	0.08	0.39	0.42	4.11	3.35	3.94	26.65	0.33	0.18	0.09	0.09	0.04	
19	0.08	0.28	0.58	2.77	1.99	2.53	12.69	0.33	0.18	0.09	0.11	0.04	
20	0.08	0.22	0.75	1.65	5.41	1.82	6.87	0.30	0.23	0.09	0.12	0.04	
21	0.07	0.16	0.45	1.48	4.02	1.53	4.88	0.26	0.31	0.09	0.15	0.05	
22	0.05	0.13	0.37	1.33	2.13	1.53	3.10	0.26	0.42	0.09	0.15	0.05	
23	0.04	0.12	0.37	1.88	1.40	1.48	2.29	0.23	0.52	0.09	0.12	0.04	
24	0.03	0.20	0.39	8.09	1.07	2.85	1.71	0.20	0.58	0.09	0.12	0.04	
25	0.03	1.33	0.65	32.81	0.89	8.37	1.53	0.20	0.58	0.09	0.11	0.04	
26	0.04	2.29	0.62	26.41	0.75	11.81	1.44	0.20	0.52	0.18	0.08	0.04	
27	0.25	1.82	0.62	12.54	0.72	11.66	1.33	0.19	0.42	0.26	0.08	0.05	
28	3.43	1.53	1.22	4.88	0.69	6.42	1.29	0.19	0.25	0.25	0.08	0.12	
29	1.71	1.00	1.76	2.05	0.58	3.85	1.40	0.19	0.19	0.25		0.12	
30	0.86	0.65	1.76	1.53	0.58	2.29	1.40	0.19	0.19	0.25		0.11	
31		0.45		1.33	0.58		1.33		0.19	0.23		0.09	
<b>Total</b>	8.00	15.81	213.68	152.23	52.06	118.12	196.83	15.53	7.66	4.29	3.27	1.81	789.29 Tonday
<b>Mean</b>	0.27	0.51	7.12	4.91	1.68	3.94	6.35	0.52	0.25	0.14	0.12	0.06	2.16 Ton/day
<b>Max</b>	3.43	2.29	43.74	32.81	5.97	11.81	40.91	1.48	0.58	0.26	0.25	0.12	43.74 Ton/day
<b>Min</b>	0.03	0.12	0.19	0.93	0.26	0.45	1.14	0.19	0.16	0.09	0.07	0.04	0.03 Ton/day

## WATER YEAR : 2021

## KHONG RIVER BASIN

## Huai Bang Sai at Ban Kan Luang Dong , Muk Dahan (Kh.92)

Lat 16 - 44 - 12 N Long 104 - 31 - 10 E

Location : on left bank at the bridge on highway.

	<b>Ban</b>	<b>Kan Luang Dong</b>	<b>Amphoe</b>	<b>Dong Luang</b>	<b>Changwat</b>	<b>Muk Dahan</b>
<b>Drainage Area</b>	1,122	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	27					
<b>R-Square</b>	0.7372					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.8804 QW^{1.67000}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	4.07	1.73	17.55	127.77	218.98	80.15	28.96	1.73	0.28	0.43	0.28	
2	0.43	1.73	1.73	15.17	67.13	85.61	72.23	28.37	1.73	0.28	0.43	0.28	
3	0.54	1.28	1.28	15.17	48.28	74.83	48.28	28.37	1.73	0.28	0.43	0.28	
4	0.54	1.03	0.88	12.94	34.54	48.28	41.18	25.47	1.73	0.28	0.28	0.28	
5	0.54	0.88	0.88	9.29	33.90	41.18	35.83	22.70	1.73	0.43	0.28	0.43	
6	0.43	0.88	0.88	12.51	28.37	28.37	46.83	24.35	1.73	0.43	0.28	0.43	
7	0.28	0.88	0.96	10.85	28.37	23.24	41.18	24.35	1.54	0.43	0.28	0.32	
8	0.43	0.54	2.80	11.26	28.37	32.63	41.18	22.70	1.28	0.28	0.28	0.28	
9	0.43	0.43	1299.32	357.86	28.37	218.98	34.54	22.16	1.28	0.28	0.43	0.28	
10	0.28	0.54	2096.27	534.28	28.37	265.13	37.14	17.55	1.28	0.28	0.43	0.28	
11	0.32	0.88	926.07	195.32	22.16	218.98	1737.01	17.06	1.11	0.28	0.43	0.28	
12	0.74	2.03	1087.13	77.47	33.26	121.34	2341.31	12.94	1.11	0.28	0.43	0.28	
13	0.54	1.11	1125.76	115.04	39.81	214.96	688.30	12.94	1.11	0.28	0.54	0.28	
14	0.43	0.88	338.43	392.90	210.98	252.20	398.01	10.85	1.11	0.28	0.54	0.19	
15	0.43	0.88	115.04	324.14	88.40	314.75	1125.76	8.91	1.11	0.28	0.38	0.19	
16	0.32	0.88	62.19	88.40	296.31	593.20	4350.99	8.91	1.11	0.43	0.43	0.19	
17	0.32	0.88	35.83	46.83	151.32	382.75	2136.35	7.13	1.11	0.43	0.43	0.23	
18	1.19	0.54	34.54	27.19	38.47	172.76	1049.05	7.13	1.11	0.67	0.28	0.28	
19	0.96	0.54	27.78	23.79	28.37	72.23	461.41	5.51	1.11	0.49	0.28	0.28	
20	1.19	0.54	18.04	17.55	161.90	48.28	252.20	5.51	1.03	0.54	0.28	0.32	
21	1.19	0.67	17.55	18.04	59.78	41.18	214.96	5.51	1.03	0.54	0.28	0.38	
22	0.96	0.54	17.55	23.79	33.90	115.04	199.19	6.47	1.03	0.54	0.49	0.43	
23	0.74	0.54	14.72	33.26	28.37	144.43	131.04	3.04	0.96	0.54	0.74	0.43	
24	0.54	0.61	28.37	551.69	24.35	218.98	94.07	2.80	0.96	0.54	0.67	0.54	
25	0.28	3.04	18.04	15071.48	23.79	1706.26	69.66	2.80	0.96	0.54	0.28	0.54	
26	0.38	19.54	13.38	7056.19	23.24	2425.40	55.06	2.46	0.88	0.54	0.28	0.54	
27	38.47	14.26	13.38	613.39	31.39	714.03	42.56	2.24	0.88	0.67	0.28	0.43	
28	91.22	12.51	23.79	278.33	32.01	367.73	35.83	2.03	0.81	0.67	0.28	0.43	
29	16.11	5.21	22.16	239.52	29.56	195.32	39.81	2.03	0.43	0.54		0.43	
30	12.94	3.80	17.55	154.82	24.35	127.77	35.83	1.73	0.43	0.54		0.28	
31		2.24		131.04	41.18		34.54		0.28	0.54		0.28	
Total	173.45	84.38	7364.03	26477.06	1876.37	9484.82	15971.48	372.98	35.43	13.41	10.87	10.37	61874.65 Tonday
Mean	5.78	2.72	245.47	854.10	60.53	316.16	515.21	12.43	1.14	0.43	0.39	0.33	169.52 Ton/day
Max	91.22	19.54	2096.27	15071.48	296.31	2425.40	4350.99	28.96	1.73	0.67	0.74	0.54	15071.48 Ton/day
Min	0.28	0.43	0.88	9.29	22.16	23.24	34.54	1.73	0.28	0.28	0.28	0.19	0.19 Ton/day

**WATER YEAR : 2021****KHONG RIVER BASIN****Songkhram River at Ban Khok Kham Lai, Udon Thani (Kh.93)**

Lat 17 - 33 - 27 N Long 103 - 20 - 07 E

**Location : on left bank at the bridge of Amphoe Ban Duang - Amphoe Sawang Daen Din Highway.**

	<b>Ban</b>	<b>Khok Kham Lai</b>	<b>Amphoe</b>	<b>Ban Dung</b>	<b>Changwat</b>	<b>Udon Thani</b>
<b>Drainage Area</b>	752	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	20					
<b>R-Square</b>	0.1926					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 11.8330 QW^{0.57550}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	35.05	6.47	15.23	25.32	35.36	10.78	9.23	0.00	0.00	
2	0.00	0.00	0.00	26.09	3.97	15.79	21.84	27.39	10.78	9.64	0.00	0.00	
3	0.00	0.00	0.00	20.28	0.00	14.06	19.11	23.32	10.78	9.64	0.00	0.00	
4	0.00	0.00	0.00	15.23	0.00	13.14	19.35	20.96	10.78	9.64	0.00	0.00	
5	0.00	0.00	0.00	12.82	0.00	20.28	20.28	18.14	10.41	9.64	0.00	0.00	
6	0.00	0.00	0.00	14.36	0.00	63.24	18.14	14.36	11.14	8.39	0.00	0.00	
7	0.00	0.00	0.00	14.65	0.00	63.24	16.06	13.45	13.14	5.92	0.00	0.00	
8	0.00	0.00	0.00	13.45	0.00	52.69	14.06	12.82	12.17	4.69	0.00	0.00	
9	0.00	0.00	0.00	11.83	0.00	47.03	12.17	12.50	12.17	4.69	0.00	0.00	
10	0.00	0.00	0.00	12.50	0.00	46.79	11.49	10.78	12.17	3.97	0.00	0.00	
11	0.00	0.00	0.00	13.45	0.00	47.03	12.17	8.39	11.49	3.14	0.00	0.00	
12	0.00	0.00	36.56	13.45	0.00	45.79	16.33	5.92	10.78	3.14	0.00	0.00	
13	0.00	0.00	74.04	13.45	0.00	39.72	17.38	3.14	10.03	3.14	0.00	0.00	
14	0.00	0.00	87.89	12.82	6.47	53.37	22.27	0.00	10.03	3.14	0.00	0.00	
15	0.00	0.00	93.35	9.23	10.78	67.11	40.27	0.00	10.41	2.11	0.00	0.00	
16	0.00	0.00	93.06	5.33	12.50	75.79	55.68	0.00	11.14	0.00	0.00	0.00	
17	0.00	0.00	91.56	5.33	12.50	82.17	61.64	0.00	11.83	0.00	0.00	0.00	
18	0.00	0.00	89.43	3.97	13.14	85.38	64.03	0.00	11.83	0.00	0.00	0.00	
19	0.00	0.00	83.79	0.00	10.41	85.70	64.42	0.00	12.17	0.00	0.00	0.00	
20	0.00	0.00	73.69	0.00	7.47	82.49	58.25	0.00	12.82	0.00	0.00	0.00	
21	0.00	0.00	48.49	0.00	4.69	76.13	51.32	0.00	12.82	0.00	0.00	0.00	
22	0.00	0.00	23.11	0.00	0.00	63.64	69.72	5.33	12.82	0.00	0.00	0.00	
23	0.00	0.00	16.86	3.14	0.00	54.70	90.65	10.78	12.17	0.00	0.00	0.00	
24	0.00	0.00	17.38	10.41	0.00	49.92	92.76	11.49	10.03	0.00	0.00	0.00	
25	0.00	0.00	20.51	14.94	0.00	44.52	92.16	11.49	10.03	0.00	0.00	0.00	
26	0.00	0.00	22.48	16.33	0.00	42.17	90.65	11.14	9.64	0.00	0.00	0.00	
27	0.00	0.00	23.73	16.60	0.00	44.27	88.20	10.78	11.14	0.00	0.00	0.00	
28	0.00	0.00	30.22	17.89	0.00	42.44	84.43	10.78	11.49	0.00	0.00	0.00	
29	0.00	0.00	40.55	16.60	13.45	36.85	79.53	10.78	10.03	0.00		0.00	
30	0.00	0.00	40.55	12.17	14.65	29.53	69.72	10.78	9.64	0.00		0.00	
31		0.00		8.82	14.06		52.35		9.64	0.00		0.00	
Total	0.00	0.00	1007.25	370.19	130.56	1500.21	1451.75	299.88	346.30	90.12	0.00	0.00	5196.26 Tonday
Mean	0.00	0.00	33.58	11.94	4.21	50.01	46.83	10.00	11.17	2.91	0.00	0.00	14.24 Ton/day
Max	0.00	0.00	93.35	35.05	14.65	85.70	92.76	35.36	13.14	9.64	0.00	0.00	93.35 Ton/day
Min	0.00	0.00	0.00	0.00	0.00	13.14	11.49	0.00	9.64	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****KHONG RIVER BASIN****Songkhram River at Ban Tha Kok Daeng , Bueng Kan (Kh.98)**

Lat 17 - 51 - 56 N Long 103 - 46 - 28 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Tha Kok Daeng</b>	<b>Amphoe</b>	<b>Se Ka</b>	<b>Changwat</b>	<b>Bueng Kan</b>
<b>Drainage Area</b>	4,428	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	20					
<b>R-Square</b>	0.7210					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.8085 QW^{1.05450}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.32	71.56	211.78	155.95	177.56	153.04	1.46	0.91	0.44	0.10	
2	0.00	0.00	0.05	83.69	181.82	151.30	162.94	145.32	1.40	0.79	0.32	0.05	
3	0.00	0.00	0.00	86.55	154.21	162.36	146.34	139.68	1.27	0.73	0.27	0.05	
4	0.00	0.00	0.00	82.73	132.02	215.47	129.98	129.47	2.27	0.73	0.21	0.16	
5	0.00	0.00	0.00	70.70	114.22	257.40	114.22	114.73	2.58	0.73	0.16	0.38	
6	0.00	0.00	0.00	56.59	100.08	291.32	97.09	96.61	2.39	0.73	0.27	0.38	
7	0.00	0.00	0.00	49.99	87.98	307.62	78.45	70.70	2.08	0.73	0.27	0.38	
8	0.00	0.00	0.21	56.59	77.98	313.56	62.56	57.02	1.89	0.67	0.21	0.27	
9	0.00	0.00	2.08	68.12	67.26	329.00	49.99	40.15	1.71	0.67	0.21	0.27	
10	0.00	0.00	6.94	83.21	54.47	338.78	42.63	30.79	1.52	0.67	0.21	0.21	
11	0.00	0.00	22.00	93.73	46.16	338.78	42.63	22.21	1.40	0.61	0.21	0.16	
12	0.00	0.00	40.37	97.57	48.51	339.60	51.76	14.85	1.40	0.61	0.21	0.16	
13	0.00	0.00	63.41	88.94	75.60	336.34	61.28	9.24	1.40	0.61	0.16	0.16	
14	0.00	0.00	106.13	77.98	115.23	341.23	67.26	7.86	1.40	0.61	0.16	0.16	
15	0.00	0.00	155.37	81.30	152.46	345.31	87.98	6.25	1.34	0.56	0.16	0.16	
16	0.00	0.00	180.60	102.60	188.52	350.21	114.22	5.46	1.34	0.56	0.16	0.27	
17	0.00	0.00	185.47	122.34	216.08	358.38	122.85	4.79	1.34	0.56	0.10	0.27	
18	0.00	0.00	174.63	123.86	234.31	375.57	122.85	4.79	1.27	0.56	0.10	0.27	
19	0.00	0.00	150.72	118.28	240.53	381.31	116.75	4.45	1.15	0.56	0.27	0.27	
20	0.00	0.00	128.45	118.28	235.68	381.31	104.62	3.35	1.09	0.56	0.50	0.27	
21	0.00	0.00	107.64	127.94	219.16	377.21	97.09	3.22	0.97	0.50	0.67	0.44	
22	0.00	0.00	90.38	144.81	197.08	366.56	91.81	3.48	0.91	0.44	0.61	0.44	
23	0.00	0.00	76.08	165.86	172.29	352.66	98.58	3.48	0.97	0.44	0.61	0.44	
24	0.00	0.00	64.27	195.85	149.56	332.26	124.37	3.29	1.03	0.44	0.56	0.56	
25	0.00	0.00	52.36	230.38	137.12	318.43	148.40	2.90	1.15	0.38	0.50	0.56	
26	0.00	0.00	45.86	255.93	135.59	301.69	162.36	2.33	1.15	0.38	0.50	0.50	
27	0.00	0.00	41.75	272.86	135.59	278.02	167.03	2.02	1.15	0.32	0.38	0.50	
28	0.00	0.00	42.34	276.55	138.15	255.93	167.03	1.83	1.09	0.27	0.16	0.56	
29	0.00	0.00	45.27	278.02	138.15	230.38	165.28	1.71	1.03	0.27		0.50	
30	0.00	0.00	56.59	265.49	131.51	206.87	161.78	1.58	1.03	0.44		0.38	
31		0.21		240.53	130.49		157.12		0.97	0.56		0.27	
Total	0.00	0.21	1839.29	4188.83	4419.59	9090.81	3494.81	1086.60	43.15	17.60	8.59	9.55	24199.03 Tonday
Mean	0.00	0.01	61.31	135.12	142.57	303.03	112.74	36.22	1.39	0.57	0.31	0.31	66.30 Ton/day
Max	0.00	0.21	185.47	278.02	240.53	381.31	177.56	153.04	2.58	0.91	0.67	0.56	381.31 Ton/day
Min	0.00	0.00	0.00	49.99	46.16	151.30	42.63	1.58	0.91	0.27	0.10	0.05	0.00 Ton/day

**WATER YEAR : 2021****KHONG RIVER BASIN****Huai Luang at Ban Non Toom , Udon Thani (Kh.103)**

Lat 17 - 28 - 57 N Long 102 - 47 - 51 E

Location : on right bank at the bridge on highway.

	<b>Ban Non Toom</b>	<b>Amphoe Mueang</b>	<b>Changwat Udon Thani</b>
<b>Drainage Area</b>	1,402 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	32		
<b>R-Square</b>	0.7922		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1474 QW^{1.06780}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	1.37	4.78	0.66	3.76	3.05	63.17	9.27	1.25	0.72	0.44	0.56	
2	0.18	1.50	2.75	0.56	3.15	2.75	41.45	10.17	1.18	0.72	0.44	0.53	
3	0.24	1.44	1.37	0.50	2.65	2.35	23.38	13.83	1.18	0.69	0.44	0.50	
4	0.53	0.99	0.78	0.44	2.45	2.08	21.10	14.38	1.12	0.66	0.44	0.47	
5	0.84	0.81	0.59	0.42	2.15	4.06	21.10	13.46	1.12	0.66	0.44	0.44	
6	0.42	0.69	0.47	0.69	1.89	8.37	21.32	12.54	1.12	0.66	0.44	0.42	
7	0.33	0.59	0.42	0.69	1.57	12.54	21.10	9.09	1.12	0.62	0.44	0.39	
8	0.33	0.53	0.56	0.59	1.37	10.53	17.74	4.68	0.99	0.62	0.44	0.36	
9	0.30	0.50	1.25	0.81	1.25	8.19	11.81	3.25	0.87	0.59	0.44	0.33	
10	0.27	0.50	3.05	1.06	0.93	9.63	8.55	2.65	0.84	0.59	0.44	0.30	
11	0.27	0.50	7.16	1.57	0.84	13.09	6.88	2.25	0.81	0.53	0.47	0.27	
12	0.27	0.44	7.59	5.09	1.25	35.30	6.04	1.95	0.78	0.53	0.47	0.24	
13	0.27	0.42	7.02	22.69	2.35	51.61	4.68	1.89	0.78	0.50	0.47	0.21	
14	0.27	0.36	8.02	25.68	3.76	29.03	4.17	1.82	0.75	0.50	0.47	0.18	
15	0.27	0.33	9.63	16.62	4.17	20.41	4.47	1.82	0.75	0.50	0.50	0.21	
16	0.27	0.36	7.45	14.94	3.86	20.64	5.34	1.82	0.75	0.50	0.50	0.24	
17	0.33	0.33	5.48	18.68	3.96	27.06	6.46	1.82	0.78	0.50	0.53	0.27	
18	0.30	0.30	3.65	16.62	3.55	40.50	6.74	1.82	0.75	0.50	0.53	0.33	
19	0.36	0.30	2.55	12.36	2.95	49.49	6.32	1.76	0.72	0.47	0.56	0.39	
20	0.33	0.78	1.76	9.09	2.25	47.89	5.34	1.69	0.72	0.47	0.56	0.44	
21	0.33	3.35	0.93	8.73	1.89	39.86	4.17	1.63	0.72	0.47	0.59	0.50	
22	0.36	1.95	0.69	6.88	1.50	27.52	4.89	1.57	0.72	0.47	0.59	0.56	
23	0.44	1.12	0.53	6.32	1.18	24.76	21.78	1.63	0.69	0.44	0.62	0.62	
24	0.56	0.84	0.47	7.59	0.99	31.20	57.37	1.63	0.69	0.44	0.62	0.69	
25	0.53	1.25	0.47	10.35	0.78	38.60	78.86	1.63	0.72	0.44	0.66	0.75	
26	0.59	3.55	0.59	13.65	0.84	44.86	67.86	1.57	0.75	0.44	0.62	0.81	
27	1.12	8.19	0.75	14.57	1.06	59.15	39.55	1.44	0.81	0.44	0.59	0.87	
28	2.75	7.59	0.78	12.54	1.50	83.73	24.76	1.44	0.87	0.44	0.56	0.81	
29	2.02	7.30	0.78	9.27	3.45	91.53	16.80	1.37	0.84	0.44		0.72	
30	1.44	7.87	0.75	6.46	3.96	84.97	12.73	1.31	0.81	0.44		0.66	
31		7.45		4.58	3.55		10.72		0.75	0.44		0.59	
Total	16.76	63.50	83.07	250.70	70.81	924.75	646.65	127.18	26.75	16.43	14.31	14.66	2255.57 Tonday
Mean	0.56	2.05	2.77	8.09	2.28	30.82	20.86	4.24	0.86	0.53	0.51	0.47	6.18 Ton/day
Max	2.75	8.19	9.63	25.68	4.17	91.53	78.86	14.38	1.25	0.72	0.66	0.87	91.53 Ton/day
Min	0.18	0.30	0.42	0.42	0.78	2.08	4.17	1.31	0.69	0.44	0.44	0.18	0.18 Ton/day

**WATER YEAR : 2021****CHI RIVER BASIN****Lam Nam Phong at Ban Tha Mao , Khon Kaen (E.22B)**

Lat 16 - 39 - 16 N Long 102 - 49 - 25 E

Location : on right bank at Ban Tha Mao.

	<b>Ban</b>	<b>Tha</b>	<b>Mao</b>	<b>Amphoe</b>	<b>Nam</b>	<b>Phong</b>	<b>Changwat</b>	<b>Khon</b>	<b>Kaen</b>
<b>Drainage Area</b>	13,617 sq.km.								
<b>Method of sampling</b>	Depth Integrating								
<b>Instrument Used</b>	US.D-49								
<b>Period of Available Records</b>	2004-Cont'd								
<b>Actual Measurement</b>	2004-Cont'd								
<b>Using Rating Curve Water Year</b>	2021								
<b>Number of observation</b>	31								
<b>R-Square</b>	0.7229								
<b>Remarks</b>	Continued Sediment Station								

$$QS = 1.8233 QW^{1.11930}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.38	75.37	107.44	50.15	115.66	16.10	578.03	1306.95	423.64	340.89	146.62	121.46	
2	40.84	67.52	127.28	44.44	119.80	16.92	664.96	1306.95	544.96	354.47	151.71	128.95	
3	39.82	43.40	151.71	40.84	115.66	21.54	802.31	1304.65	612.98	361.42	147.47	133.98	
4	49.11	30.64	176.57	36.88	105.80	37.33	932.21	1297.74	594.65	351.75	143.24	133.98	
5	74.15	24.97	158.53	36.43	91.31	49.11	964.01	1254.09	576.38	343.60	140.71	131.46	
6	59.12	30.64	179.36	36.43	55.94	28.01	969.98	1219.75	558.16	336.83	139.02	135.66	
7	50.68	31.08	238.13	38.29	35.08	15.58	971.97	1167.28	507.18	324.68	137.34	138.18	
8	51.20	22.82	278.12	57.00	33.74	15.33	954.06	1121.87	474.58	307.22	135.66	150.01	
9	48.59	20.27	285.24	100.90	31.97	15.33	888.68	1087.93	450.28	285.24	136.50	138.18	
10	46.51	20.69	326.03	183.63	28.44	21.12	792.55	1072.13	409.07	259.22	135.66	129.79	
11	47.02	20.27	390.23	241.63	24.97	75.37	734.30	1056.04	390.23	214.86	134.82	131.46	
12	47.02	42.89	432.55	239.29	27.13	77.19	736.23	1037.96	372.91	198.64	134.82	128.95	
13	53.30	68.12	443.82	199.72	16.51	41.86	730.43	1013.91	364.29	191.12	134.82	128.12	
14	64.53	84.53	419.26	171.39	9.57	43.40	656.55	985.93	358.55	181.49	134.82	130.63	
15	52.77	86.37	387.33	134.82	8.85	62.33	586.34	956.05	351.75	171.39	142.39	119.80	
16	55.94	83.91	377.23	115.66	8.12	92.55	558.16	918.34	347.67	163.66	150.86	114.01	
17	74.76	87.60	398.91	114.01	6.47	118.97	646.47	878.82	347.67	158.53	155.12	114.01	
18	82.69	75.97	385.89	141.55	4.18	100.90	782.81	855.20	351.75	154.26	145.77	114.01	
19	77.80	77.19	396.02	146.62	3.74	65.13	863.06	839.49	355.83	150.01	143.24	114.01	
20	71.13	83.91	400.36	133.14	6.70	44.44	926.26	831.65	354.47	144.93	157.67	114.01	
21	44.95	85.76	396.02	128.12	6.94	34.64	975.96	823.81	353.11	139.02	171.39	114.01	
22	26.26	72.94	381.56	126.45	6.00	33.30	1033.95	814.03	355.83	134.82	122.29	114.01	
23	17.75	74.15	320.65	121.46	5.31	52.25	1119.60	786.70	349.03	130.63	61.26	114.01	
24	14.56	74.15	180.43	120.63	5.31	125.62	1217.46	745.91	351.75	126.45	54.88	112.36	
25	15.07	96.84	133.14	139.02	5.77	227.93	1283.94	666.64	347.67	122.29	51.20	102.53	
26	22.39	93.17	124.78	217.03	4.86	271.01	1295.44	609.64	342.25	113.19	51.72	93.17	
27	45.99	85.76	92.55	249.82	4.63	285.24	1295.44	579.69	350.39	105.80	66.92	85.14	
28	52.77	98.47	71.13	175.70	6.00	307.22	1290.84	561.47	299.20	108.26	99.28	77.19	
29	49.11	102.53	56.47	135.66	8.36	396.02	1302.34	554.86	330.08	116.49		66.92	
30	62.86	103.35	52.77	128.95	14.56	485.96	1306.95	507.18	346.32	125.62		63.40	
31		102.53		124.78	16.51		1309.25		330.08	134.82		62.86	
Total	1481.07	2067.81	7869.51	3930.44	933.89	3177.70	29170.54	28162.66	12502.71	6351.60	3527.20	3556.26	102731.39 Tonday
Mean	49.37	66.70	262.32	126.79	30.13	105.92	940.99	938.76	403.31	204.89	125.97	114.72	281.46 Ton/day
Max	82.69	103.35	443.82	249.82	119.80	485.96	1309.25	1306.95	612.98	361.42	171.39	150.01	1309.25 Ton/day
Min	14.56	20.27	52.77	36.43	3.74	15.33	558.16	507.18	299.20	105.80	51.20	62.86	3.74 Ton/day

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Khai , Chaiyaphum (E.23)

Lat 15 - 40 - 54 N Long 102 - 00 - 34 E

Location : on left bank at the bridge on highway.

	<b>Ban Khai</b>	<b>Amphoe Mueang</b>	<b>Changwat Chaiyaphum</b>
<b>Drainage Area</b>	6,297 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.7193		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 11.4660 QW^{1.10900}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	690.20	291.54	17.98	1385.71	1721.01	9253.29	3630.56	108.70	69.84	0.00	1.92	
2	0.00	972.91	226.78	5.32	1080.90	2005.36	8861.32	3603.70	105.53	65.30	1.40	0.00	
3	0.00	972.91	180.39	0.00	868.81	2190.81	8179.49	3469.68	102.37	59.29	3.02	0.00	
4	0.00	782.08	160.50	0.00	806.77	2329.31	7599.47	3282.92	99.23	53.35	2.46	0.00	
5	0.00	659.84	137.60	0.00	551.50	2490.62	7035.72	3083.97	92.96	44.55	0.89	0.00	
6	0.00	516.44	131.12	0.00	576.67	2631.27	6121.78	2838.15	89.84	40.21	0.00	0.00	
7	0.00	531.44	124.67	0.00	442.12	2750.86	5186.31	2652.97	86.73	41.65	0.00	0.00	
8	0.00	556.52	115.06	0.00	380.12	2873.15	4376.55	2469.05	82.09	33.08	0.00	0.00	
9	0.00	566.59	79.01	0.00	295.92	2991.56	3876.56	2279.20	79.01	23.36	0.00	1.40	
10	0.00	556.52	77.47	46.00	218.27	3083.97	3576.86	1638.81	75.94	19.31	0.00	0.00	
11	0.00	437.21	105.53	819.14	167.11	3256.33	3336.18	1291.51	72.88	16.65	0.00	0.00	
12	0.00	222.52	197.14	868.81	147.37	3376.18	3123.67	1064.21	69.84	12.74	0.00	0.00	
13	0.00	150.64	201.35	931.28	134.35	3550.03	3017.93	887.51	68.32	10.20	0.00	0.00	
14	0.00	124.67	170.42	956.39	124.67	4267.21	2991.56	769.77	65.30	7.72	0.00	0.00	
15	0.00	131.12	140.85	1072.55	124.67	5279.16	3070.75	491.54	60.79	5.32	0.00	0.00	
16	0.00	140.85	131.12	1089.25	163.80	5874.76	3322.86	447.04	56.31	2.46	0.00	0.00	
17	0.00	150.64	157.21	1055.88	300.30	6618.75	3961.17	287.18	56.31	0.00	0.00	0.00	
18	0.00	140.85	134.35	997.73	269.78	7311.06	5372.17	326.70	83.63	0.00	0.00	0.89	
19	0.00	134.35	115.06	875.04	214.03	7888.96	8082.53	209.79	80.55	0.89	0.00	10.20	
20	0.00	127.89	92.96	831.53	173.74	8179.49	8861.32	201.35	75.94	1.40	5.32	30.27	
21	0.00	124.67	83.63	612.10	157.21	8276.57	8861.32	235.32	74.41	0.89	24.73	57.80	
22	170.42	137.60	77.47	380.12	144.11	8471.05	8373.75	173.74	72.88	3.58	23.36	65.30	
23	170.42	147.37	79.01	309.07	153.92	8471.05	7792.34	188.75	69.84	7.72	15.34	79.01	
24	127.89	124.67	77.47	274.12	163.80	8568.45	7215.17	180.39	71.36	17.98	7.72	144.11	
25	82.09	124.67	75.94	380.12	163.80	9155.14	6701.94	157.21	68.32	24.73	7.11	163.80	
26	86.73	131.12	41.65	751.33	192.94	9646.90	6287.01	147.37	69.84	26.11	8.95	192.94	
27	105.53	153.92	20.65	1164.70	197.14	10837.05	5710.65	140.85	74.41	26.11	7.72	269.78	
28	163.80	261.12	20.65	1529.83	331.12	10339.51	5139.95	124.67	82.09	19.31	5.32	282.82	
29	214.03	412.73	15.34	1693.57	521.44	9844.31	4458.74	118.26	79.01	11.47		173.74	
30	274.12	531.44	19.31	1702.71	1030.92	9646.90	3927.31	115.06	72.88	6.51		140.85	
31		447.04		1575.15	1385.71		3691.07		68.32	1.92		147.37	
Total	1395.03	11162.54	3481.25	19939.72	12868.72	173926.78	177366.74	36507.23	2415.63	653.65	113.34	1762.20	441592.83 Tonday
Mean	46.50	360.08	116.04	643.22	415.12	5797.56	5721.51	1216.91	77.92	21.09	4.05	56.85	1209.84 Ton/day
Max	274.12	972.91	291.54	1702.71	1385.71	10837.05	9253.29	3630.56	108.70	69.84	24.73	282.82	10837.05 Ton/day
Min	0.00	124.67	15.34	0.00	124.67	1721.01	2991.56	115.06	56.31	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Nong O , Chaiyaphum (E.32A)

Lat 15 - 54 - 27 N Long 101 - 42 - 29 E

Location : on right bank about 500 meters north of Ban Nong O from about 600 meters upstream from E.32 gaging station.

	<b>Ban Nong O</b>	<b>Amphoe Ban Khwao</b>	<b>Changwat Chaiyaphum</b>
<b>Drainage Area</b>	2,880 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1968-Cont'd		
<b>Actual Measurement</b>	1968-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.5843		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.5950 QW^{1.07340}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	288.04	84.91	7.17	174.11	914.56	3414.54	590.61	47.95	21.47	10.52	9.39	
2	0.00	292.29	50.04	6.80	203.45	1110.60	2371.80	485.91	46.57	19.50	10.52	8.28	
3	0.00	166.83	43.79	7.17	145.11	974.25	1726.35	380.81	45.18	17.80	10.52	8.65	
4	0.00	116.36	22.79	7.17	161.99	998.20	1342.91	319.29	43.79	17.03	10.52	10.14	
5	0.00	97.26	20.81	6.80	177.76	859.87	969.47	272.50	42.41	16.64	10.52	9.02	
6	0.00	98.72	16.25	6.08	134.34	707.31	683.26	240.52	41.03	16.64	10.52	8.28	
7	0.00	97.99	17.03	20.81	196.08	788.89	523.66	214.52	39.66	16.25	10.14	8.65	
8	0.00	84.91	14.32	169.25	135.53	759.61	440.42	194.86	38.97	15.48	10.14	8.65	
9	0.00	59.17	17.80	577.90	94.34	719.36	371.20	170.47	38.29	15.09	11.27	8.65	
10	0.00	50.04	111.93	429.10	68.39	907.41	353.63	148.72	36.92	14.70	12.79	10.14	
11	0.00	45.18	161.99	353.63	55.65	1216.31	305.06	131.95	35.56	14.32	12.79	8.28	
12	0.00	28.12	151.13	458.25	49.35	1633.20	376.00	123.77	34.87	14.32	12.03	6.80	
13	0.00	24.11	101.65	472.88	44.49	1777.06	482.65	116.36	34.19	14.32	11.65	7.17	
14	0.00	20.81	66.25	667.25	41.72	1479.66	627.03	109.72	32.84	14.32	12.79	7.54	
15	1.21	24.11	61.29	554.35	98.72	1430.46	874.11	103.11	32.16	14.32	12.41	6.80	
16	7.54	26.11	79.85	523.66	224.40	1476.14	1236.10	100.18	30.13	13.94	13.94	6.80	
17	12.03	24.78	64.83	443.66	185.08	1562.48	1991.63	93.62	29.46	13.55	14.70	7.17	
18	7.91	24.78	52.14	255.62	122.29	1664.21	2701.18	88.53	29.46	13.17	14.32	7.54	
19	13.17	26.11	39.66	180.20	85.63	1451.53	3118.40	84.91	28.79	12.79	14.32	7.91	
20	30.81	28.12	30.81	163.20	64.83	1226.20	3010.25	78.41	28.12	12.41	13.17	10.52	
21	18.85	26.11	23.45	131.21	59.17	1051.72	2456.83	75.54	27.45	12.03	12.41	14.70	
22	15.86	24.78	20.15	106.78	78.41	1073.39	1948.59	74.11	26.11	12.03	14.32	18.19	
23	11.27	24.78	13.55	84.91	78.41	1448.02	2290.16	68.39	25.44	11.65	15.86	56.35	
24	12.41	22.13	11.65	89.25	64.12	2002.41	2800.28	63.41	25.44	10.89	14.32	126.74	
25	12.41	16.64	11.27	276.74	52.14	2745.19	1910.97	59.17	25.44	10.89	13.17	108.99	
26	12.79	45.18	9.76	814.87	61.29	3691.85	1116.81	57.76	30.81	11.27	12.03	58.46	
27	21.47	92.89	8.28	1036.26	86.35	4828.91	641.64	57.05	33.51	11.65	11.65	54.24	
28	48.65	123.03	7.54	735.44	164.41	6121.28	476.13	54.94	28.79	12.03	10.89	61.29	
29	70.53	205.90	7.54	461.50	579.72	5512.88	485.91	52.14	26.78	12.03		37.60	
30	158.36	185.08	6.80	300.80	656.27	4475.11	924.09	48.65	25.44	11.65		38.97	
31		136.73		218.22	665.42		793.61		24.11	10.89		36.92	
<b>Total</b>	455.27	2527.09	1329.26	9566.93	5008.97	56608.07	42764.67	4659.93	1035.67	435.07	344.23	778.83	125513.99 Ton/day
<b>Mean</b>	15.18	81.52	44.31	308.61	161.58	1886.94	1379.51	155.33	33.41	14.03	12.29	25.12	343.87 Ton/day
<b>Max</b>	158.36	292.29	161.99	1036.26	665.42	6121.28	3414.54	590.61	47.95	21.47	15.86	126.74	6121.28 Ton/day
<b>Min</b>	0.00	16.64	6.80	6.08	41.72	707.31	305.06	48.65	24.11	10.89	10.14	6.80	0.00 Ton/day



**WATER YEAR : 2021****CHI RIVER BASIN****Lam Pao at Ban Tha Hai , Udon Thani (E.65)**

Lat 16 - 57 - 06 N Long 103 - 10 - 05 E

Location : on left bank at the bridge on highway.

	<b>Ban</b>	<b>Tha Hai</b>	<b>Amphoe</b>	<b>Si That</b>	<b>Changwat</b>	<b>Udon Thani</b>
<b>Drainage Area</b>	2,176	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	17					
<b>R-Square</b>	0.3948					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 5.3562 QW^{1.07810}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.54	5.13	200.85	70.01	6.34	245.10	241.37	178.94	147.81	83.66	26.33	
2	0.00	2.54	2.32	173.51	53.47	10.70	222.86	208.15	177.16	146.34	80.50	25.16	
3	0.00	2.32	1.46	157.30	41.63	6.70	221.05	208.15	177.16	146.34	77.34	24.00	
4	0.00	1.78	1.46	152.22	31.68	15.94	241.37	206.34	175.37	144.87	75.24	22.91	
5	0.00	1.25	1.46	141.94	15.63	36.43	219.23	211.84	171.73	143.41	72.10	21.95	
6	0.00	0.94	1.46	115.77	6.17	61.70	197.18	206.34	171.73	141.94	68.97	21.31	
7	0.00	0.74	1.46	96.42	2.65	61.70	195.38	204.53	171.73	141.94	65.84	20.67	
8	0.00	0.59	1.46	104.99	1.89	38.96	164.47	206.34	169.88	139.01	63.77	20.04	
9	0.00	0.40	43.65	124.45	1.89	37.63	149.28	202.66	168.10	137.55	61.70	19.40	
10	0.00	0.21	354.90	204.53	1.78	58.60	134.63	204.53	168.10	136.09	59.63	18.45	
11	0.00	0.00	428.17	193.50	1.78	53.47	128.81	206.34	166.32	136.09	56.54	17.51	
12	0.00	0.00	317.49	157.30	1.57	34.31	133.17	206.34	164.47	133.17	53.47	16.57	
13	0.00	0.00	232.10	204.53	0.40	24.39	136.09	206.34	164.47	131.72	51.43	15.94	
14	0.00	0.00	224.75	152.22	0.21	40.96	137.55	206.34	162.69	127.35	49.05	14.69	
15	0.00	0.00	221.05	117.94	0.21	98.55	137.55	204.53	162.69	124.45	47.69	14.07	
16	0.00	0.00	206.34	107.14	0.26	127.35	166.32	200.85	160.92	123.36	46.34	12.84	
17	0.00	0.00	188.04	113.61	0.04	136.09	265.58	197.18	160.92	120.10	44.32	11.92	
18	0.00	0.00	171.73	104.99	0.08	131.72	226.57	191.71	159.07	117.94	42.98	11.00	
19	0.00	0.00	157.30	91.09	0.30	123.36	177.16	191.71	157.30	115.77	41.63	10.46	
20	0.00	0.00	147.81	84.72	0.30	139.01	147.81	189.91	157.30	112.53	41.63	9.49	
21	0.00	0.00	141.94	83.66	0.30	124.45	134.63	188.04	155.46	110.37	38.29	9.01	
22	0.00	0.00	149.28	85.78	0.30	121.19	369.00	184.38	155.46	107.14	36.43	8.29	
23	0.00	0.00	152.22	87.90	0.30	139.01	813.06	184.38	153.69	103.91	34.84	7.76	
24	0.00	0.00	137.55	93.22	0.30	164.47	800.61	184.38	153.69	102.84	33.26	7.58	
25	0.00	15.01	130.26	110.37	0.50	239.55	694.50	184.38	153.69	100.69	31.22	7.23	
26	0.00	68.97	137.55	115.77	0.59	475.55	593.61	182.59	153.69	97.48	29.84	7.40	
27	0.00	64.81	168.10	112.53	0.54	522.46	475.55	182.59	153.69	95.35	28.47	7.23	
28	0.17	49.73	162.69	98.55	0.54	456.00	442.07	182.59	152.22	93.22	27.56	7.05	
29	0.50	34.31	143.41	73.14	0.54	387.87	369.00	182.59	152.22	90.02		6.52	
30	1.57	20.99	166.32	56.54	0.54	289.95	303.54	180.81	150.75	88.96		5.65	
31		10.70		67.92	0.54		274.94		149.28	85.78		4.95	
<b>Total</b>	2.24	277.83	4198.86	3784.40	236.94	4164.41	8917.67	5938.23	5029.89	3743.54	1443.74	433.38	38171.13 Tonday
<b>Mean</b>	0.07	8.96	139.96	122.08	7.64	138.81	287.67	197.94	162.25	120.76	51.56	13.98	104.58 Ton/day
<b>Max</b>	1.57	68.97	428.17	204.53	70.01	522.46	813.06	241.37	178.94	147.81	83.66	26.33	813.06 Ton/day
<b>Min</b>	0.00	0.00	1.46	56.54	0.04	6.34	128.81	180.81	149.28	85.78	27.56	4.95	0.00 Ton/day

## WATER YEAR : 2021

## CHI RIVER BASIN

Chi River at Ban Muang Lat , Roi Et (E.66A)

Lat 16 - 12 - 30 N Long 103 - 31 - 40 E

Location : on right bank at the bridge.

	<b>Ban Muang Lat</b>	<b>Amphoe Chang Han</b>	<b>Changwat Roi Et</b>
<b>Drainge Area</b>	31,787 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	31		
<b>R-Square</b>	0.7371		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.87940 QW^{0.99970}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.13	483.45	181.35	188.32	550.83	292.90	2040.60	4316.44	2232.99	578.71	360.29	276.63	
2	141.83	471.83	190.64	132.53	557.80	346.35	2056.09	4353.59	1978.67	585.68	353.32	327.76	
3	139.51	443.95	216.21	102.32	539.21	395.15	2059.96	4415.51	1718.38	578.71	344.03	360.29	
4	153.45	367.27	251.07	99.99	499.71	418.39	2105.25	4465.05	1507.47	571.74	355.65	348.67	
5	197.62	299.87	283.61	74.42	453.24	499.71	2211.70	4526.97	1370.97	560.12	374.24	360.29	
6	269.66	344.03	265.01	44.19	464.86	687.52	2311.57	4564.12	1198.07	546.18	385.86	376.56	
7	299.87	411.42	258.04	48.84	434.65	888.95	2409.11	4601.27	1085.95	532.24	385.86	392.83	
8	295.23	490.42	244.10	79.07	351.00	1042.58	2540.71	4601.27	950.74	520.63	383.53	409.09	
9	274.31	469.51	292.90	132.53	258.04	1123.11	2669.99	4588.89	888.95	504.36	357.97	420.71	
10	241.77	418.39	434.65	258.04	204.59	1207.82	2810.11	4539.35	845.12	474.15	341.70	439.30	
11	174.37	339.38	513.65	378.88	176.70	1292.38	3008.28	4489.81	842.41	416.06	330.08	432.33	
12	146.48	274.31	555.48	464.86	162.75	1377.63	3204.90	4427.89	780.07	364.94	320.79	416.06	
13	137.18	258.04	588.01	469.51	151.13	1410.92	3542.40	4378.36	750.25	332.41	320.79	413.74	
14	153.45	255.72	569.42	469.51	174.37	1370.97	3802.87	4316.44	706.73	313.82	330.08	409.09	
15	155.78	267.34	562.45	406.77	206.91	1347.66	3982.83	4254.51	670.72	299.87	302.20	392.83	
16	153.45	262.69	536.89	325.44	271.99	1434.23	4093.52	4180.21	692.33	292.90	325.44	376.56	
17	176.70	246.42	492.74	351.00	330.08	1528.69	4143.05	4093.52	689.93	285.93	376.56	376.56	
18	199.94	230.15	455.57	385.86	334.73	1565.08	4143.05	3934.84	670.72	276.63	402.12	364.94	
19	209.24	165.08	450.92	399.80	320.79	1565.08	4143.05	3850.86	673.12	283.61	416.06	402.12	
20	211.56	139.51	427.68	381.21	267.34	1497.49	4155.44	3755.65	604.27	299.87	434.65	418.39	
21	172.05	127.89	404.44	346.35	246.42	1357.65	4229.75	3710.75	578.71	316.14	453.24	420.71	
22	146.48	83.72	385.86	344.03	237.13	1318.39	4229.75	3576.07	601.95	325.44	478.80	439.30	
23	141.83	106.96	385.86	341.70	188.32	1457.53	4266.90	3471.96	608.92	337.06	502.04	446.27	
24	118.59	97.67	320.79	357.97	155.78	1597.83	4266.90	3361.27	620.53	351.00	453.24	476.48	
25	72.09	106.96	202.26	425.36	125.56	1703.51	4242.13	3247.48	594.98	360.29	364.94	471.83	
26	53.49	183.67	97.67	457.89	72.09	1818.72	4204.98	3089.56	571.74	353.32	306.85	490.42	
27	90.69	251.07	95.34	462.54	74.42	1905.12	4167.82	2930.87	581.04	337.06	271.99	490.42	
28	172.05	239.45	172.05	506.68	90.69	1963.18	4167.82	2810.11	569.42	337.06	253.39	471.83	
29	283.61	169.73	230.15	525.27	127.89	1994.15	4204.98	2669.99	557.80	341.70		457.89	
30	427.68	155.78	227.83	527.60	130.21	2028.99	4242.13	2478.78	485.77	332.41		430.01	
31		176.70		532.24	192.97		4254.51		536.89	332.41		355.65	
Total	5561.09	8338.38	10292.64	10020.72	8352.20	38437.68	107912.15	118001.39	27165.61	12342.45	10285.71	12665.56	369375.58 Tonday
Mean	185.37	268.98	343.09	323.25	269.43	1281.26	3481.04	3933.38	876.31	398.14	367.35	408.57	1011.99 Ton/day
Max	427.68	490.42	588.01	532.24	557.80	2028.99	4266.90	4601.27	2232.99	585.68	502.04	490.42	4601.27 Ton/day
Min	53.49	83.72	95.34	44.19	72.09	292.90	2040.60	2478.78	485.77	276.63	253.39	276.63	44.19 Ton/day

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Nam Yang at Ban Kut Kwang , Roi Et (E.70)

Lat 16 - 17 - 18 N Long 104 - 00 - 18 E

Location : on right bank at the bridge on highway.

	<b>Ban</b>	<b>Kut Kwang</b>	<b>Amphoe</b>	<b>Phon Thong</b>	<b>Changwat</b>	<b>Roi Et</b>
<b>Drainage Area</b>	2,624	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	27					
<b>R-Square</b>	0.7811					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 1.5049 QW^{1.35670}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	20.28	75.27	295.04	81.27	553.35	189.69	12.64	8.56	0.00	0.00	
2	0.00	0.00	16.34	87.38	283.97	109.18	317.50	177.13	11.93	8.56	0.00	0.00	
3	0.00	0.00	14.09	62.22	197.15	185.19	297.82	155.47	12.64	8.56	0.00	0.00	
4	0.00	0.00	13.36	43.32	136.44	227.76	557.21	121.70	12.64	7.92	0.00	0.00	
5	0.00	0.00	11.93	28.68	95.32	222.58	470.19	100.46	11.93	7.29	0.00	0.00	
6	0.00	0.00	11.23	21.91	59.41	259.48	323.18	85.84	11.93	6.08	0.00	0.00	
7	0.00	0.00	11.93	24.42	39.51	259.48	248.78	70.85	11.93	5.50	0.00	0.00	
8	0.00	0.00	21.09	58.02	31.01	194.66	209.76	59.41	11.93	4.39	0.00	0.00	
9	0.00	0.00	69.39	109.18	24.42	159.35	173.14	47.22	11.23	3.85	0.00	0.00	
10	0.00	0.00	292.26	127.18	21.09	192.17	143.97	37.03	11.23	2.85	0.00	0.00	
11	0.00	0.00	442.13	163.26	19.47	340.39	165.22	31.01	11.23	2.85	0.00	0.00	
12	0.00	0.00	572.74	129.02	18.67	647.97	439.04	27.53	10.55	1.93	0.00	0.00	
13	0.00	0.00	725.37	90.49	18.67	656.03	463.92	24.42	10.55	1.93	0.00	0.00	
14	0.00	0.00	682.81	76.75	20.28	1035.79	414.52	22.74	9.87	1.50	0.00	0.00	
15	0.00	0.00	549.49	102.19	45.91	1378.95	749.31	21.09	11.23	1.50	0.00	0.00	
16	0.00	0.00	340.39	194.66	92.05	1299.83	1317.98	19.47	11.23	1.11	0.00	0.00	
17	0.00	0.00	194.66	187.22	157.41	1269.72	1687.85	18.67	10.55	0.75	0.00	0.00	
18	0.00	0.00	143.97	134.57	130.86	988.97	1591.56	18.67	9.87	0.43	0.00	0.00	
19	0.00	0.00	105.67	92.05	88.93	668.78	1293.79	17.89	9.87	0.00	0.00	0.00	
20	0.00	0.00	82.78	65.06	62.22	423.67	912.21	17.11	9.87	0.00	0.00	0.00	
21	0.00	0.00	59.41	52.55	56.64	340.39	564.96	16.34	10.55	0.00	0.00	0.00	
22	0.00	0.00	45.91	39.51	53.90	381.43	411.49	16.34	10.55	0.00	0.00	0.00	
23	0.00	0.00	35.80	31.01	44.61	744.50	451.43	14.83	10.55	0.00	0.00	0.00	
24	0.00	0.00	24.42	58.02	38.27	1174.65	405.43	14.09	10.55	0.00	0.00	0.00	
25	0.00	0.00	34.59	932.52	66.50	1503.05	334.63	14.09	10.55	0.00	0.00	0.00	
26	0.00	0.00	76.75	1963.52	105.67	2772.83	262.17	13.36	10.55	0.00	0.00	0.00	
27	0.00	0.00	67.94	2115.80	107.42	3118.74	217.43	12.64	9.21	0.00	0.00	0.00	
28	0.00	35.80	48.54	1623.49	112.72	2492.80	179.14	13.36	9.21	0.00	0.00	0.00	
29	0.00	39.51	84.31	917.28	110.95	1694.32	207.23	12.64	9.21	0.00	0.00	0.00	
30	0.00	25.28	97.02	420.62	88.93	1051.52	240.84	12.64	9.21	0.00	0.00	0.00	
31		22.74		251.45	79.75		204.70		8.56	0.00	0.00	0.00	
Total	0.00	123.33	4896.60	10278.62	2703.19	25875.45	15809.75	1403.73	333.55	75.56	0.00	0.00	61499.78 Tonday
Mean	0.00	3.98	163.22	331.57	87.20	862.51	509.99	46.79	10.76	2.44	0.00	0.00	168.49 Ton/day
Max	0.00	39.51	725.37	2115.80	295.04	3118.74	1687.85	189.69	12.64	8.56	0.00	0.00	3118.74 Ton/day
Min	0.00	0.00	11.23	21.91	18.67	81.27	143.97	12.64	8.56	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****CHI RIVER BASIN****Lam Chiang at Ban Chiang , Chaiyaphum (E.72)**

Lat 16 - 01 - 03 N Long 101 - 30 - 21 E

Location : on left bank at Ban Chiang School.

	<b>Ban</b> Chiang	<b>Amphoe</b> Phak Di Chumphon	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	331 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.7088		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 7.3115 QW^{0.97360}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	19.23	10.29	1.08	14.36	54.56	88.29	58.80	3.43	2.85	2.26	1.38	
2	0.00	12.61	9.44	0.78	14.01	66.66	92.48	46.05	3.14	2.85	2.26	1.38	
3	0.00	10.57	9.44	0.78	13.66	57.59	84.70	37.49	3.14	2.41	2.26	1.38	
4	0.00	8.31	8.87	0.93	12.96	52.13	68.47	32.85	3.14	2.41	2.26	1.23	
5	0.00	5.45	8.02	0.93	12.61	45.44	55.77	25.24	3.43	2.41	2.12	1.23	
6	0.00	3.43	8.02	2.26	12.61	44.22	39.33	19.92	3.72	2.26	2.12	1.23	
7	0.00	3.14	8.02	19.23	12.26	36.88	32.30	15.06	3.29	2.26	2.12	1.23	
8	0.00	2.70	7.81	22.69	11.55	34.49	27.65	10.57	3.29	2.26	2.26	1.23	
9	0.00	2.70	7.38	22.00	10.57	60.01	22.00	10.29	3.14	2.26	2.70	1.23	
10	0.00	2.70	6.96	32.30	9.72	61.22	15.06	10.00	3.14	2.26	2.70	1.08	
11	0.00	2.56	6.96	25.24	9.16	57.59	18.19	10.00	2.85	2.26	3.00	1.08	
12	0.00	2.56	6.53	20.62	8.02	59.41	17.15	9.72	2.56	2.12	3.14	1.08	
13	0.00	2.26	6.53	16.80	7.60	54.56	16.10	9.72	2.56	2.12	3.43	1.08	
14	0.00	2.26	6.10	14.71	8.87	44.22	16.80	9.44	2.41	2.12	3.43	1.08	
15	0.00	2.12	5.45	13.66	11.91	24.76	30.66	9.16	2.41	2.12	3.14	1.23	
16	0.00	1.67	5.24	12.96	12.96	49.70	125.10	8.87	3.58	2.12	3.14	2.85	
17	0.00	1.67	4.81	12.61	14.36	81.10	206.23	8.59	3.43	2.12	3.14	3.00	
18	0.00	1.67	4.59	12.61	14.36	63.64	160.24	8.31	3.29	1.97	2.85	3.14	
19	0.00	1.67	3.94	10.85	13.31	47.87	139.78	7.81	3.00	1.97	2.70	3.14	
20	0.00	1.67	3.94	9.72	10.29	59.41	101.44	6.96	3.00	1.97	2.56	3.14	
21	0.00	2.26	3.29	8.02	9.16	58.80	75.09	6.10	3.00	2.12	2.26	3.43	
22	0.00	2.12	2.85	6.31	7.60	69.07	151.72	5.88	2.85	2.41	2.26	3.43	
23	0.00	1.97	2.26	5.45	6.10	237.38	143.19	5.67	2.70	2.56	1.97	3.58	
24	1.38	1.53	1.82	7.17	5.45	313.77	127.48	5.45	2.85	2.56	1.97	5.67	
25	1.97	1.38	1.53	23.72	10.29	354.20	106.87	5.45	4.59	2.56	1.82	5.24	
26	5.67	1.53	1.38	97.46	9.44	468.95	91.89	5.02	3.72	2.41	1.67	3.94	
27	6.10	3.29	1.38	80.50	12.26	362.27	85.90	4.81	3.43	2.41	1.53	3.43	
28	10.29	26.68	1.08	52.74	105.29	210.39	77.50	4.59	3.14	2.41	1.38	3.00	
29	22.69	19.58	1.08	29.09	94.87	122.73	59.41	4.16	3.00	2.41		2.85	
30	24.07	11.91	1.08	19.58	77.50	91.29	78.70	3.72	3.00	2.26		2.56	
31		10.29		15.41	58.20		75.09		3.00	2.26		2.41	
Total	72.17	173.49	156.09	598.21	631.31	3344.31	2430.58	405.70	97.23	71.49	68.45	72.96	8121.99 Tonday
Mean	2.41	5.60	5.20	19.30	20.36	111.48	78.41	13.52	3.14	2.31	2.44	2.35	22.25 Ton/day
Max	24.07	26.68	10.29	97.46	105.29	468.95	206.23	58.80	4.59	2.85	3.43	5.67	468.95 Ton/day
Min	0.00	1.38	1.08	0.78	5.45	24.76	15.06	3.72	2.41	1.97	1.38	1.08	0.00 Ton/day

**WATER YEAR : 2021****CHI RIVER BASIN****Lam Saphung at Ban Na Charoen , Chaiyaphum (E.83)**

Lat 16 - 09 - 21 N Long 101 - 39 - 13 E

Location : on left bank at Ban Na Charoen.

	<b>Ban</b> Na Charoen	<b>Amphoe</b> Nong Bua Daeng	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	719 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.7434		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.9803 QW^{1.19070}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	42.87	43.98	4.95	58.09	248.31	740.95	199.09	17.75	11.63	5.99	5.54	
2	0.35	25.64	39.56	4.95	52.31	229.41	529.68	180.78	17.03	11.29	5.69	5.09	
3	0.35	17.39	35.75	4.56	46.43	208.34	478.94	161.82	15.60	10.45	5.54	4.95	
4	0.35	25.64	30.96	4.36	42.87	217.67	412.06	142.21	15.08	10.29	5.54	4.85	
5	0.35	41.21	27.44	4.27	39.01	222.35	319.24	122.68	14.72	9.47	5.24	4.75	
6	0.45	41.76	24.30	10.62	36.29	235.50	239.33	116.15	14.20	8.65	5.09	4.65	
7	2.43	25.64	23.23	14.55	32.54	235.50	202.55	108.86	13.85	8.01	5.09	4.46	
8	2.25	16.85	21.98	14.72	28.86	245.74	184.19	97.69	13.51	7.54	4.85	4.27	
9	1.50	13.51	20.25	18.29	25.19	376.74	176.25	87.49	13.16	6.91	4.75	4.27	
10	1.26	11.96	18.78	31.49	23.55	510.34	181.92	78.24	12.99	6.91	4.56	3.98	
11	1.10	11.12	17.57	24.75	21.98	644.59	166.55	73.68	12.47	6.91	4.36	3.60	
12	1.10	10.79	16.49	20.74	19.51	689.79	176.25	68.42	12.13	6.60	4.17	3.42	
13	1.10	10.45	15.96	18.78	17.75	465.09	276.86	65.44	11.96	6.60	3.98	3.05	
14	1.10	10.45	16.67	35.22	16.85	316.18	299.44	62.48	11.63	6.60	3.98	2.96	
15	1.10	10.45	16.14	33.61	17.21	283.42	383.43	58.09	11.63	6.60	3.89	2.87	
16	1.14	10.45	14.72	25.64	40.11	343.87	668.21	54.47	11.29	6.60	4.17	2.87	
17	3.14	10.29	13.68	41.76	43.98	547.36	1927.44	49.60	11.12	6.45	5.84	2.87	
18	3.89	9.96	12.47	83.62	36.29	549.23	1660.76	45.79	10.79	6.45	5.84	3.51	
19	9.47	9.63	11.79	79.01	26.99	463.36	1168.91	41.21	10.45	6.45	5.84	4.85	
20	9.30	9.79	11.12	61.01	22.92	351.63	825.43	38.46	10.45	6.45	5.69	4.95	
21	8.01	12.82	10.45	45.16	22.60	353.19	577.52	37.92	10.29	6.30	5.69	9.47	
22	6.30	15.08	9.30	34.14	41.21	556.75	707.14	37.92	10.29	6.30	5.69	12.65	
23	4.36	15.43	8.17	36.29	39.01	964.17	760.58	35.75	9.96	6.30	5.54	12.99	
24	4.46	12.65	7.54	66.93	32.01	1075.33	527.91	32.01	9.96	6.30	5.54	12.47	
25	4.56	11.63	6.45	114.52	26.54	1462.20	323.84	28.86	12.47	6.14	5.39	11.63	
26	5.09	10.79	6.30	415.45	35.22	2497.08	229.41	25.19	14.20	6.14	5.39	11.29	
27	11.12	11.79	5.69	337.69	42.87	1679.46	199.09	21.36	13.33	6.14	5.54	11.29	
28	21.36	50.88	5.54	250.89	56.64	1279.22	180.78	19.76	12.99	5.99	5.54	11.12	
29	54.47	51.60	4.95	183.05	112.09	1297.16	204.87	19.27	12.82	5.99		10.95	
30	53.03	49.60	4.95	117.78	152.43	1047.50	297.93	18.54	12.65	5.99		10.45	
31		47.69		72.17	287.37		254.76		12.47	5.99		10.12	
Total	214.84	655.81	502.18	2210.97	1496.72	19596.48	15282.22	2129.23	393.24	224.44	144.42	206.19	43056.74 Tonday
Mean	7.16	21.16	16.74	71.32	48.28	653.22	492.97	70.97	12.69	7.24	5.16	6.65	117.96 Ton/day
Max	54.47	51.60	43.98	415.45	287.37	2497.08	1927.44	199.09	17.75	11.63	5.99	12.99	2497.08 Ton/day
Min	0.35	9.63	4.95	4.27	16.85	208.34	166.55	18.54	9.96	5.99	3.89	2.87	0.35 Ton/day

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Nang Dad Khok , Chaiyaphum (E.84)

Lat 16 - 09 - 13 N Long 101 - 35 - 00 E

Location : on left bank at Ban Nang Dad Khok.

	Ban Nang Dad Khok	Amphoe Nong Bua Daeng	Changwat Chaiyaphum
<b>Drainage Area</b>	491 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.5157		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.5008 QW^{0.91760}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.99	41.65	39.27	1.21	21.15	126.98	130.65	44.35	14.25	8.70	6.93	6.93	
2	2.99	31.38	36.20	1.03	19.64	100.30	118.26	43.00	13.98	8.70	6.93	6.93	
3	2.99	24.01	33.11	0.64	21.44	108.81	112.15	41.31	13.46	8.70	6.93	6.93	
4	4.34	20.90	30.68	0.44	22.87	91.23	105.08	36.89	13.24	8.50	7.91	6.61	
5	6.45	19.38	27.89	0.00	30.68	58.95	99.24	33.45	12.79	8.50	7.72	6.61	
6	8.50	28.59	26.27	0.00	28.24	61.50	72.42	32.07	12.56	8.31	7.52	6.61	
7	8.11	25.99	23.73	0.00	26.27	59.37	58.95	29.99	12.56	8.31	7.52	6.61	
8	7.13	24.01	22.01	4.00	21.44	67.00	53.94	28.59	12.33	8.11	7.32	6.61	
9	6.13	18.62	20.14	17.09	18.88	95.51	45.02	26.84	12.11	7.91	7.32	6.45	
10	5.81	12.56	18.37	25.99	13.46	93.91	50.30	26.27	11.88	7.91	6.77	6.45	
11	5.48	11.65	16.57	34.83	10.97	146.80	104.02	25.14	11.88	7.91	6.61	6.45	
12	6.61	10.51	15.03	42.66	9.82	153.22	100.84	24.01	11.43	7.91	7.91	6.45	
13	10.74	9.36	14.51	45.02	8.70	97.11	106.66	23.73	11.20	7.91	8.89	6.45	
14	10.51	8.89	15.54	38.93	7.52	59.80	112.71	22.58	11.20	7.91	8.70	6.29	
15	10.05	7.32	14.51	33.11	7.52	65.31	109.92	21.73	10.97	7.91	8.50	6.29	
16	8.70	6.93	12.79	29.29	17.86	61.07	126.98	20.65	10.74	7.91	8.31	6.29	
17	6.45	6.45	10.97	24.58	20.14	64.04	185.07	19.64	10.51	7.91	8.89	6.29	
18	6.93	6.45	9.82	22.30	17.09	93.38	189.86	19.38	10.51	7.72	8.89	6.61	
19	7.91	6.93	8.89	19.89	13.46	85.93	170.73	19.38	10.05	7.72	8.89	13.24	
20	7.91	6.93	8.31	17.60	13.46	107.19	136.50	19.13	10.05	7.72	8.70	12.33	
21	7.52	7.13	7.13	16.06	16.57	82.88	118.82	18.88	9.59	7.52	8.31	10.28	
22	7.32	6.77	6.61	14.77	16.83	102.43	215.09	18.37	9.36	7.52	8.11	18.37	
23	7.13	6.61	5.97	15.03	17.34	175.52	161.17	18.11	8.89	7.52	7.91	34.14	
24	6.93	6.93	4.99	22.87	17.34	208.81	109.92	17.60	8.89	7.52	7.72	37.23	
25	6.93	14.77	4.50	41.31	17.09	186.67	81.35	16.83	9.59	7.32	7.52	24.01	
26	7.32	24.86	3.67	108.81	17.09	213.52	65.73	16.06	9.82	7.32	7.13	18.37	
27	23.44	28.59	2.82	115.49	20.14	241.13	58.09	15.54	9.82	7.13	6.93	15.03	
28	19.64	44.35	2.47	89.09	81.35	224.47	53.94	15.28	9.36	7.13	6.93	13.01	
29	25.43	45.02	2.30	63.62	131.38	197.75	52.12	14.77	8.89	7.13		18.62	
30	39.61	44.35	1.94	43.00	118.82	151.62	49.93	14.77	8.89	7.13		15.80	
31		42.32		24.58	167.51		47.36		8.70	6.93		13.46	
<b>Total</b>	288.00	600.21	447.01	913.24	972.07	3582.21	3202.82	724.34	339.50	242.35	217.72	361.75	11891.22 Tonday
<b>Mean</b>	9.60	19.36	14.90	29.46	31.36	119.41	103.32	24.14	10.95	7.82	7.78	11.67	32.58 Ton/day
<b>Max</b>	39.61	45.02	39.27	115.49	167.51	241.13	215.09	44.35	14.25	8.70	8.89	37.23	241.13 Ton/day
<b>Min</b>	2.99	6.45	1.94	0.00	7.52	58.95	45.02	14.77	8.70	6.93	6.61	6.29	0.00 Ton/day

## WATER YEAR : 2021

## CHI RIVER BASIN

## Lam Nam Choen at Ban Non Han , Khon Kaen (E.85)

Lat 16 - 35 - 26 N Long 101 - 58 - 60 E

Location : on left bank at Ban Non Han.

	<b>Ban Non Han</b>	<b>Amphoe Chum Phae</b>	<b>Changwat Khon Kaen</b>
<b>Drainage Area</b>	1,150 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2005-Cont'd		
<b>Actual Measurement</b>	2005-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.4673		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.7915 QW^{1.21560}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.52	7.23	53.69	3.79	66.48	224.39	542.17	431.01	23.92	10.16	3.79	4.26	
2	15.30	10.16	43.20	11.83	66.10	273.76	342.09	342.09	22.33	8.27	11.27	11.27	
3	10.99	13.83	30.12	21.70	63.81	273.76	307.58	257.11	20.76	7.23	20.14	20.76	
4	7.75	18.30	30.45	32.46	60.78	240.65	290.58	189.73	20.76	5.96	28.13	27.80	
5	5.46	22.96	41.08	40.02	60.78	307.58	240.65	158.84	18.30	5.71	31.12	29.45	
6	3.34	27.47	51.12	50.03	47.49	290.58	194.36	144.66	13.83	5.46	31.12	29.12	
7	2.46	28.79	58.52	57.78	29.45	224.39	162.43	134.18	12.97	4.97	30.12	30.78	
8	2.67	28.46	68.40	65.71	10.44	189.73	149.95	125.55	12.40	5.71	29.45	34.50	
9	3.34	28.13	69.17	75.39	4.26	171.45	135.91	122.13	11.27	10.16	31.12	37.24	
10	4.73	28.79	69.94	94.09	16.78	189.73	127.27	117.37	11.27	19.52	41.78	25.52	
11	4.49	28.79	69.94	110.63	32.12	224.39	132.44	111.30	10.44	25.85	53.32	12.68	
12	8.54	25.85	69.94	128.99	6.97	342.09	180.55	106.61	9.89	28.79	58.15	6.46	
13	15.59	23.28	71.10	130.71	4.49	377.22	273.76	92.14	10.16	29.45	60.78	3.79	
14	19.21	21.70	73.04	122.98	5.96	377.22	776.65	73.82	10.16	29.78	60.02	3.11	
15	21.39	20.14	69.55	122.98	5.22	486.03	1394.58	68.01	9.07	30.12	44.98	3.11	
16	24.56	18.60	66.86	123.84	6.71	657.55	1174.47	62.29	7.49	31.12	28.79	3.11	
17	38.63	18.60	61.53	124.69	22.01	716.66	2622.82	60.02	5.46	30.78	14.41	4.02	
18	74.60	21.39	50.76	117.37	34.16	657.55	2244.31	61.53	14.12	28.46	6.97	5.96	
19	95.40	25.52	41.08	110.63	31.79	431.01	1067.02	55.17	31.79	24.88	6.21	18.30	
20	90.84	37.24	24.88	97.36	34.84	324.75	657.55	52.59	32.46	20.76	5.71	38.28	
21	64.95	58.15	5.96	85.29	41.08	273.76	431.01	51.49	31.45	14.12	5.96	15.00	
22	49.30	63.05	3.56	83.29	56.28	307.58	342.09	50.39	31.79	7.23	6.46	17.39	
23	32.12	70.71	2.67	81.70	67.24	899.09	486.03	42.84	32.80	5.71	5.96	32.46	
24	22.01	82.10	2.25	81.30	63.81	2116.28	542.17	25.20	32.80	5.22	4.73	42.84	
25	14.12	111.97	1.63	80.90	82.49	2141.78	377.22	26.17	33.82	5.46	3.56	57.03	
26	5.96	116.01	1.63	83.69	96.05	2408.34	307.58	23.28	46.41	5.71	2.89	46.41	
27	5.22	105.28	1.63	82.89	101.97	3988.40	240.65	20.45	52.22	5.22	2.25	39.67	
28	6.71	80.11	2.04	81.30	104.62	2746.80	199.00	22.33	51.85	4.49	1.83	40.02	
29	8.01	69.94	2.46	78.14	123.84	1736.49	224.39	26.50	51.12	3.79		38.98	
30	7.23	63.43	2.67	73.43	144.66	837.47	324.75	24.24	47.49	2.67		38.28	
31		59.27		70.33	166.93		486.03		23.28	2.04		41.78	
Total	684.44	1335.25	1140.87	2525.24	1659.61	24436.48	16978.06	3079.04	743.88	424.80	631.02	759.38	54398.07 Tonday
Mean	22.81	43.07	38.03	81.46	53.54	814.55	547.68	102.63	24.00	13.70	22.54	24.50	149.04 Ton/day
Max	95.40	116.01	73.04	130.71	166.93	3988.40	2622.82	431.01	52.22	31.12	60.78	57.03	3988.40 Ton/day
Min	2.46	7.23	1.63	3.79	4.26	171.45	127.27	20.45	5.46	2.04	1.83	3.11	1.63 Ton/day

**WATER YEAR : 2021****CHI RIVER BASIN****Lam Pao at Ban Wang Hin , Kalasin (E.87)**

Lat 16 - 20 - 26 N Long 103 - 34 - 37 E

**Location : on left bank at Ban Wang Hin.**

	<b>Ban</b>	<b>Wang Hin</b>	<b>Amphoe</b>	<b>Kamalasai</b>	<b>Changwat</b>	<b>Kalasin</b>
<b>Drainage Area</b>	7,370	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2004-Cont'd					
<b>Actual Measurement</b>	2004-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	23					
<b>R-Square</b>	0.7407					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 1.9196 QW^{1.18260}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.39	222.01	23.11	53.98	122.10	87.40	59.73	282.06	32.19	4.25	3.37	3.72	
2	61.66	180.31	18.52	39.14	101.86	92.54	36.98	279.36	17.88	4.51	3.50	3.72	
3	60.12	145.35	12.27	27.85	73.26	96.02	22.45	279.36	12.94	4.88	3.45	3.75	
4	62.44	108.94	11.67	23.78	57.04	92.54	17.56	279.36	9.77	4.80	3.50	3.90	
5	66.35	72.27	11.67	23.78	51.71	96.02	15.35	285.98	7.65	4.90	3.75	4.41	
6	69.30	65.37	11.07	23.11	44.25	167.20	14.57	289.92	6.43	4.88	4.20	4.59	
7	62.44	63.41	11.37	12.57	40.59	247.96	14.29	293.87	5.62	4.75	4.36	5.06	
8	56.27	68.31	39.14	11.97	41.32	283.72	14.88	297.82	4.88	4.49	4.28	6.65	
9	48.70	78.27	84.34	10.18	34.84	309.93	16.61	297.82	4.49	4.10	4.13	7.77	
10	42.78	70.29	64.39	34.13	32.01	384.98	19.49	297.82	4.20	3.90	3.90	7.60	
11	38.42	46.47	226.56	62.44	31.31	418.91	22.95	289.92	4.25	4.25	3.80	6.76	
12	35.55	36.98	214.47	80.29	37.70	408.76	31.14	282.06	4.96	4.05	3.50	6.49	
13	36.98	15.35	196.53	77.26	38.42	396.74	40.95	276.67	5.22	3.35	3.20	6.27	
14	37.70	11.37	159.99	66.35	48.70	451.64	59.73	268.62	4.82	3.05	3.20	5.86	
15	36.98	8.73	149.08	53.98	67.33	519.32	89.78	257.94	4.75	2.83	3.22	5.62	
16	34.13	6.21	155.68	34.84	92.54	560.31	146.15	239.42	5.06	2.69	3.27	5.38	
17	34.84	4.10	88.43	24.45	110.13	580.99	210.06	226.56	4.75	2.57	4.10	5.19	
18	45.73	6.49	44.25	23.78	110.13	578.68	255.28	205.38	4.72	2.43	4.72	5.06	
19	59.34	8.73	36.26	26.48	99.52	558.02	279.36	191.44	4.98	2.19	4.88	5.11	
20	64.39	7.88	33.42	29.92	80.29	501.42	285.98	184.53	5.11	1.72	5.19	5.43	
21	69.30	5.94	22.45	30.62	65.37	459.88	285.98	169.47	4.75	1.85	5.67	6.08	
22	63.41	4.88	21.79	27.85	61.66	443.42	289.92	151.48	4.67	2.06	6.19	6.16	
23	57.80	4.88	22.45	27.85	60.89	443.42	293.87	138.43	4.56	2.22	6.32	6.27	
24	54.74	5.14	21.79	31.31	59.34	512.54	301.78	123.53	4.67	2.40	6.24	6.49	
25	50.96	24.45	23.11	62.44	60.89	578.68	301.78	110.68	4.88	2.91	5.43	6.27	
26	47.96	54.74	26.48	122.10	57.80	627.33	289.92	96.69	4.64	3.30	4.64	6.65	
27	57.80	55.51	24.45	149.08	55.51	89.78	282.06	82.31	4.56	3.37	4.18	6.90	
28	137.94	50.20	29.92	155.68	63.41	100.86	276.67	76.26	4.98	3.45	3.80	6.76	
29	228.08	42.78	57.04	149.08	67.33	95.32	282.06	59.73	5.14	3.42		6.98	
30	244.88	33.42	65.37	140.41	69.30	80.29	285.98	46.84	4.88	3.45		7.15	
31		27.85		135.49	77.26		285.98		4.33	3.45		6.90	
<b>Total</b>	2031.38	1536.63	1907.07	1772.19	2013.81	10264.62	4829.29	6361.33	206.73	106.47	119.99	180.95	31330.46 Ton/day
<b>Mean</b>	67.71	49.57	63.57	57.17	64.96	342.15	155.78	212.04	6.67	3.43	4.29	5.84	85.84 Ton/day
<b>Max</b>	244.88	222.01	226.56	155.68	122.10	627.33	301.78	297.82	32.19	4.90	6.32	7.77	627.33 Ton/day
<b>Min</b>	34.13	4.10	11.07	10.18	31.31	80.29	14.29	46.84	4.20	1.72	3.20	3.72	1.72 Ton/day

## WATER YEAR : 2021

## CHI RIVER BASIN

## Chi River at Ban Don Khanuan , Maha Sarakham (E.91)

Lat 16 - 21 - 58 N Long 102 - 56 - 59 E

Location : on left bank at Ban Kui Chuak.

	<b>Ban</b> Don Khanuan	<b>Amphoe</b> Kosum Phisai	<b>Changwat</b> Maha Sarakham
<b>Drainge Area</b>	28,958 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.7048		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.2559 QW^{0.96290}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	112.54	277.18	225.84	115.43	461.04	282.42	1631.81	3988.22	1088.69	445.70	246.06	169.85		
2	116.87	317.20	264.96	128.39	452.27	329.34	1695.96	3988.22	922.59	450.08	254.47	208.94		
3	131.27	282.42	298.09	112.54	450.08	351.49	1893.62	3977.51	893.59	461.04	263.22	217.40		
4	148.46	242.70	308.52	100.96	452.27	367.52	2142.55	3956.10	889.06	463.23	268.46	225.84		
5	173.26	254.47	298.09	87.87	425.40	496.02	2489.13	3913.26	850.46	447.89	271.95	234.28		
6	210.63	327.61	291.13	100.96	399.49	647.22	2845.97	3859.69	802.70	415.44	263.22	225.84		
7	225.84	375.52	256.22	90.78	320.67	715.97	3741.72	3806.08	736.55	383.52	252.79	237.65		
8	232.59	357.51	299.83	126.96	263.22	715.97	4133.57	3730.99	704.53	375.52	247.75	266.71		
9	219.09	318.94	397.50	205.55	237.65	743.40	4322.04	3655.84	686.22	363.52	244.38	299.83		
10	181.78	270.20	409.47	289.39	215.71	873.17	4322.04	3569.88	649.52	336.27	244.38	275.44		
11	164.16	254.47	452.27	349.49	183.48	1038.24	4221.56	3494.60	582.80	318.94	227.53	247.75		
12	152.75	246.06	485.10	407.47	198.77	1045.47	4070.67	3423.06	580.50	301.57	229.22	247.75		
13	134.14	249.43	513.47	353.50	141.31	963.63	3934.68	3362.23	557.42	280.67	241.01	247.75		
14	141.31	282.42	513.47	296.35	141.31	951.55	3859.69	3301.37	537.44	259.72	249.43	244.38		
15	147.03	266.71	491.65	322.41	145.60	1052.66	3806.08	3230.30	543.97	275.44	259.72	246.06		
16	158.46	202.16	467.60	361.51	139.87	1172.54	3763.18	3161.72	535.26	291.13	280.67	230.90		
17	154.18	220.78	465.41	353.50	157.03	1210.80	3720.26	3072.72	533.08	261.47	285.90	205.55		
18	164.16	151.32	450.08	351.49	142.74	1172.54	3709.53	2965.80	533.08	256.22	287.64	203.86		
19	198.77	181.78	441.31	365.52	138.44	1088.69	3709.53	2837.68	456.66	256.22	289.39	205.55		
20	174.96	155.60	421.42	367.52	188.58	980.48	3709.53	2700.39	482.91	271.95	289.39	207.24		
21	157.03	181.78	423.41	371.52	164.16	970.84	3709.53	2587.16	485.10	301.57	298.09	224.15		
22	145.60	180.08	401.49	361.51	165.58	975.66	3709.53	2461.87	509.11	285.90	301.57	244.38		
23	134.14	147.03	273.69	345.48	169.85	1057.46	3709.53	2306.77	511.29	263.22	256.22	227.53		
24	108.20	155.60	202.16	373.52	121.20	1172.54	3730.99	2111.59	496.02	249.43	176.67	224.15		
25	98.05	193.68	181.78	407.47	103.86	1306.25	3763.18	1924.06	461.04	251.11	149.89	227.53		
26	111.10	225.84	195.38	441.31	106.76	1407.00	3773.91	1763.26	454.47	249.43	129.83	235.96		
27	144.17	214.01	197.07	443.51	106.76	1475.10	3763.18	1608.35	437.34	244.38	126.96	239.33		
28	180.08	195.38	198.77	433.36	118.32	1543.09	3784.63	1475.10	419.43	225.84	141.31	237.65		
29	234.28	203.86	178.37	431.37	154.18	1579.65	3848.97	1313.41	353.50	222.47		263.22		
30	273.69	207.24	145.60	405.48	185.18	1600.52	3913.26	1198.86	429.38	232.59		277.18		
31		212.32		399.49	210.63		3966.81		467.60	239.33		165.58		
Total	4928.59	7351.30	10149.15	9301.61	6861.41	29287.23	109396.64	88746.09	18591.31	9680.81	6777.12	7215.23	308286.49	Ton/day
Mean	164.29	237.14	338.31	300.05	221.34	976.24	3528.92	2958.20	599.72	312.28	242.04	232.75	844.62	Ton/day
Max	273.69	375.52	513.47	443.51	461.04	1600.52	4322.04	3988.22	1088.69	463.23	301.57	299.83	4322.04	Ton/day
Min	98.05	147.03	145.60	87.87	103.86	282.42	1631.81	1198.86	353.50	222.47	126.96	165.58	87.87	Ton/day

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Dan Taka, Nakhon Ratchasima (M.2A)

Lat 14 - 58 - 05 N Long 102 - 14 - 16 E

Location : on left bank at Ban Dan Taka.

	Ban Dan Taka	Amphoe	Chaloem Phra Kia	Changwat	Nakhon Ratchasima
Drainage Area	4,724 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	2002-Cont'd				
Actual Measurement	2002-Cont'd				
Using Rating Curve Water Year	2021				
Number of observation	24				
R-Square	0.9008				
Remarks	Continued Sediment Station				

$$QS = 1.2701 QW^{1.49600}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	69.38	185.69	50.65	0.00	32.59	267.07	2296.15	2388.11	24.85	7.75	29.84	3.32	
2	65.83	304.84	35.41	0.00	19.94	231.00	2406.65	2296.15	20.89	7.24	32.59	5.77	
3	60.63	362.65	25.88	0.00	13.69	198.23	2530.63	2214.42	21.86	5.77	33.99	8.99	
4	64.08	362.65	16.27	0.00	9.73	185.69	2551.89	2147.07	22.84	5.77	31.21	8.27	
5	71.18	311.88	12.86	0.00	6.74	183.21	2509.43	2027.58	21.86	5.30	33.99	8.27	
6	95.88	277.21	12.05	0.00	3.99	171.01	2406.65	1899.65	20.89	3.06	32.59	7.24	
7	156.73	260.39	11.26	0.00	4.42	166.20	2277.91	1751.50	20.89	2.81	32.59	7.24	
8	200.77	263.72	7.75	0.00	3.45	237.43	2133.68	1579.06	19.94	3.06	35.41	14.53	
9	208.97	263.72	9.73	3.58	2.69	483.70	1922.21	1370.10	18.07	2.81	31.21	47.46	
10	218.32	250.46	6.25	129.45	3.19	687.99	1614.50	1228.31	12.86	2.69	23.84	80.39	
11	221.47	212.07	3.32	180.75	4.85	840.11	1151.18	1102.48	12.86	2.10	22.84	80.39	
12	237.43	178.30	3.32	205.88	3.32	950.39	849.95	986.41	9.73	1.99	19.00	78.52	
13	237.43	138.35	2.93	175.86	6.25	1086.40	729.75	874.71	10.48	2.10	16.27	80.39	
14	195.70	72.99	3.32	147.45	10.48	1228.31	697.20	743.85	8.27	1.88	12.86	72.99	
15	195.70	82.28	2.81	145.15	11.26	1412.66	777.10	620.23	8.27	1.46	14.53	58.92	
16	183.21	62.35	2.45	171.01	12.05	1643.03	940.18	475.55	15.39	1.08	12.05	52.27	
17	156.73	55.57	1.88	198.23	14.53	1802.89	1239.46	344.23	10.48	0.96	8.27	45.89	
18	108.08	52.27	1.14	237.43	16.27	1922.21	1643.03	263.72	8.27	0.96	14.53	44.34	
19	95.88	47.46	0.59	273.82	21.86	2027.58	1907.16	203.32	8.27	0.79	21.86	36.86	
20	112.25	32.59	0.24	250.46	32.59	2120.32	2093.68	178.30	6.74	0.56	23.84	38.32	
21	116.47	50.65	0.04	166.20	50.65	2173.93	2227.97	152.07	6.74	0.24	23.84	39.80	
22	114.35	42.81	0.00	99.89	58.92	2214.42	2388.11	108.08	6.74	0.26	19.94	42.81	
23	103.96	31.21	0.00	69.38	78.52	2227.97	2488.29	116.47	6.74	0.49	16.27	45.89	
24	88.02	21.86	0.00	57.24	95.88	2200.89	2637.51	103.96	7.24	0.26	9.73	47.46	
25	89.97	25.88	0.00	64.08	101.92	2227.97	2782.28	91.92	6.74	4.42	5.30	47.46	
26	89.97	33.99	0.00	112.25	131.66	2241.56	2831.10	78.52	8.99	18.07	3.45	49.05	
27	80.39	39.80	0.00	138.35	215.19	2227.97	2782.28	69.38	7.75	22.84	3.32	50.65	
28	74.82	55.57	0.00	125.07	370.10	2214.42	2757.97	62.35	7.75	25.88	3.32	47.46	
29	78.52	82.28	0.00	108.08	404.28	2214.42	2685.48	55.57	8.27	24.85		41.29	
30	108.08	84.18	0.00	80.39	366.37	2227.97	2573.21	41.29	7.24	23.84		36.86	
31		69.38		50.65	326.13		2488.29		8.27	27.18		33.99	
Total	3900.20	4315.05	210.15	3190.65	2433.51	40016.95	63320.88	25574.36	386.18	208.47	568.48	1263.09	145387.97 Tonday
Mean	130.01	139.20	7.00	102.92	78.50	1333.90	2042.61	852.48	12.46	6.72	20.30	40.74	398.32 Ton/day
Max	237.43	362.65	50.65	273.82	404.28	2241.56	2831.10	2388.11	24.85	27.18	35.41	80.39	2831.10 Ton/day
Min	60.63	21.86	0.00	0.00	2.69	166.20	697.20	41.29	6.74	0.24	3.32	3.32	0.00 Ton/day

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Phong Sawai, Surin (M.4)

Lat 15 - 19 - 46 N Long 103 - 40 - 57 E

Location : on left bank at the bridge on highway.

	<b>Ban</b>	<b>Phong Sawai</b>	<b>Amphoe</b>	<b>Tha Tum</b>	<b>Changwat</b>	<b>Surin</b>
<b>Drainage Area</b>	34,623	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	23					
<b>R-Square</b>	0.8021					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 35.1720 QW^{0.68990}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	296.71	354.73	206.40	24.15	8.61	19.65	2900.31	4417.07	2588.75	188.52	114.02	32.20		
2	262.30	337.36	157.69	22.70	7.18	15.33	2937.60	4429.50	2479.47	188.52	106.76	32.20		
3	250.37	341.74	131.99	20.27	7.18	16.37	2979.30	4441.91	2360.65	188.52	106.76	31.95		
4	238.19	359.01	109.69	18.04	12.76	22.70	3016.15	4441.91	2210.86	196.43	106.76	31.70		
5	228.86	363.27	78.47	15.33	32.71	46.52	3052.80	4417.07	2056.37	211.84	94.66	31.44		
6	219.36	444.31	60.59	13.52	66.18	58.68	3093.79	4404.62	1894.44	219.36	88.35	31.19		
7	203.10	485.38	52.76	11.59	94.66	75.05	3132.93	4379.68	1720.97	211.84	75.05	31.19		
8	186.23	392.48	97.75	8.61	146.38	146.38	3171.21	4343.54	1564.89	196.43	68.00	31.44		
9	175.77	380.09	262.30	4.45	165.03	186.23	3200.02	4298.88	1434.62	188.52	60.59	31.44		
10	165.03	400.65	350.42	0.00	153.96	266.22	3228.72	4265.25	1317.90	172.23	52.76	31.19		
11	150.19	428.67	350.42	0.00	131.99	412.76	3280.09	4208.92	1191.35	166.24	44.36	30.93		
12	134.66	453.58	328.53	0.00	112.58	695.96	3331.72	4152.26	1044.73	172.23	35.17	30.67		
13	123.84	511.18	270.11	0.00	71.56	822.26	3392.96	4072.34	877.92	160.15	34.93	30.15		
14	115.44	650.90	189.66	0.00	42.15	927.58	3457.42	3991.71	713.62	153.96	34.69	29.63		
15	103.80	759.99	146.38	0.00	30.93	984.77	3540.29	3910.34	641.72	147.65	34.69	29.11		
16	97.75	798.57	146.38	0.00	42.15	1040.50	3659.98	3837.04	389.19	147.65	34.44	29.11		
17	94.66	779.39	150.19	0.00	109.69	1120.66	3774.97	3764.58	380.09	141.22	33.95	29.11		
18	94.66	745.29	134.66	0.00	75.05	1161.29	3898.65	3649.45	342.61	147.65	33.45	29.11		
19	100.79	700.40	118.27	0.00	44.36	1255.34	4037.87	3549.44	292.04	147.65	33.45	29.63		
20	97.75	673.60	94.66	0.00	30.15	1416.24	4152.26	3457.42	248.36	141.22	33.45	29.37		
21	94.66	632.48	75.05	0.00	25.57	1586.85	4242.76	3358.03	234.06	141.22	33.45	29.37		
22	88.35	516.27	62.48	0.00	21.20	1791.26	4310.07	3263.00	204.20	166.24	33.45	29.63		
23	85.11	416.76	44.36	0.00	18.69	2004.63	4343.54	3188.51	166.24	219.36	33.21	30.41		
24	81.82	319.58	33.95	0.00	18.69	2176.41	4379.68	3127.44	121.07	196.43	33.21	35.17		
25	78.47	225.72	32.20	0.00	18.04	2346.34	4392.16	3061.93	127.95	147.65	33.21	121.07		
26	97.75	186.23	29.63	8.61	18.04	2499.49	4404.62	3002.36	166.24	147.65	33.21	33.21		
27	246.34	277.83	27.50	8.61	18.04	2627.98	4417.07	2932.95	172.23	141.22	32.96	33.45		
28	350.42	436.52	25.57	9.50	17.05	2724.92	4417.07	2862.80	219.36	134.66	32.45	106.76		
29	375.91	480.15	24.73	11.59	18.69	2791.86	4417.07	2772.81	226.77	127.95		127.95		
30	359.01	396.58	25.57	10.77	22.70	2853.38	4417.07	2696.00	204.20	127.95		94.66		
31		273.98		9.50	22.70		4417.07		188.52	121.07		75.05		
Total	5197.30	14522.69	3818.36	197.24	1604.67	34093.61	115397.22	112698.76	27781.39	5159.23	1491.44	1329.49	323291.40	Ton/day
Mean	173.24	468.47	127.28	6.36	51.76	1136.45	3722.49	3756.63	896.17	166.43	53.27	42.89	885.73	Ton/day
Max	375.91	798.57	350.42	24.15	165.03	2853.38	4417.07	4441.91	2588.75	219.36	114.02	127.95	4441.91	Ton/day
Min	78.47	186.23	24.73	0.00	7.18	15.33	2900.31	2696.00	121.07	121.07	32.45	29.11	0.00	Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Mun River at Ban Satuk, Buri Ram (M.6A)**

Lat 15 - 18 - 00 N Long 103 - 17 - 32 E

Location : on right bank at Satuk.

	<b>Ban Satuk</b>	<b>Amphoe Satuk</b>	<b>Changwat Buri Ram</b>
<b>Drainage Area</b>	28,357 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	42		
<b>R-Square</b>	0.9495		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.6450 QW^{1.05620}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.19	127.96	16.12	8.97	58.83	19.92	3161.98	8930.39	2292.40	53.44	16.75	13.92		
2	10.19	127.96	14.86	8.66	95.82	23.12	3454.91	9080.45	2095.88	52.10	16.12	13.92		
3	10.50	137.84	19.28	7.75	113.93	23.12	3770.22	9186.46	1884.09	48.75	14.86	13.92		
4	11.12	161.47	26.99	6.84	84.76	30.90	4053.10	9239.49	1678.40	46.75	16.12	13.61		
5	12.98	139.96	49.75	6.24	98.59	54.79	4383.75	9292.53	1520.59	44.75	16.12	13.61		
6	12.98	118.13	86.14	5.64	113.93	68.33	4792.52	9345.59	1347.68	41.76	15.49	13.61		
7	12.36	125.15	120.93	5.41	88.90	76.52	5280.35	9186.46	1217.18	35.81	14.86	13.29		
8	12.05	154.85	146.33	5.64	98.59	132.19	5813.71	8978.92	1089.78	26.99	18.01	13.29		
9	11.74	178.20	135.72	5.41	115.33	189.89	6401.69	8784.86	963.17	26.99	26.02	12.36		
10	11.74	196.59	158.20	5.17	80.64	184.87	6879.38	8454.61	822.67	27.97	24.09	11.74		
11	11.43	225.28	115.33	4.93	48.75	529.54	7315.19	8146.99	554.85	27.97	25.05	11.43		
12	11.12	408.86	65.61	4.70	41.76	563.99	7708.60	7839.98	354.11	28.94	21.20	11.12		
13	10.81	577.71	40.76	4.93	38.78	573.13	8059.21	7533.62	368.98	29.92	18.65	10.81		
14	10.50	509.29	29.92	4.93	38.78	646.56	8322.70	7140.69	359.09	29.92	17.38	10.50		
15	10.50	484.09	20.56	4.46	39.77	762.17	8498.60	6753.27	280.24	30.90	16.75	10.50		
16	10.50	468.99	15.49	4.46	45.75	864.70	8736.38	6367.02	232.04	32.86	16.12	10.19		
17	10.50	453.92	15.49	3.99	44.75	930.29	8978.92	6055.45	208.42	32.86	16.75	9.89		
18	10.81	438.87	15.49	3.29	28.94	1001.62	9239.49	5680.12	183.21	33.84	18.01	11.12		
19	11.74	408.86	14.23	2.94	19.92	1084.26	9398.67	5409.14	164.83	34.83	17.38	19.92		
20	11.43	240.54	12.67	2.77	16.75	1228.29	9451.76	5151.74	146.33	33.84	17.38	40.76		
21	11.74	119.53	11.12	2.43	14.23	1347.68	9292.53	4920.66	126.56	32.86	18.01	60.18		
22	33.84	102.76	9.89	2.26	13.29	1482.07	9133.45	4690.15	113.93	29.92	17.38	97.21		
23	106.94	93.05	8.97	2.09	12.67	1591.34	8930.39	4485.76	97.21	26.99	16.75	106.94		
24	127.96	86.14	8.66	2.26	12.98	1811.06	8736.38	4205.54	83.39	23.12	16.12	105.55		
25	127.96	82.01	9.58	3.29	14.54	2071.38	8542.61	3812.38	90.28	19.92	16.12	102.76		
26	109.73	191.55	8.66	4.70	18.01	2226.79	8366.65	3559.85	93.05	18.65	15.49	106.94		
27	104.16	285.16	8.36	4.46	15.49	2428.03	8278.75	3266.44	90.28	17.38	14.86	111.13		
28	105.55	127.96	8.66	4.93	13.61	2626.03	8234.82	2995.24	84.76	17.38	14.54	113.93		
29	111.13	66.97	8.36	14.86	12.67	2775.06	8366.65	2762.63	72.42	18.01		112.53		
30	118.13	36.80	9.27	39.77	12.05	2928.68	8591.03	2539.31	54.79	18.01		115.33		
31		22.16		45.75	13.61		8784.86		54.79	17.38		123.74		
Total	1182.33	6898.61	1211.40	233.93	1466.42	30276.32	228959.25	193795.74	18725.40	960.81	492.38	1435.75	485638.34	Ton/day
Mean	39.41	222.54	40.38	7.55	47.30	1009.21	7385.78	6459.86	604.05	30.99	17.59	46.31	1330.52	Ton/day
Max	127.96	577.71	158.20	45.75	115.33	2928.68	9451.76	9345.59	2292.40	53.44	26.02	123.74	9451.76	Ton/day
Min	10.19	22.16	8.36	2.09	12.05	19.92	3161.98	2539.31	54.79	17.38	14.54	9.89	2.09	Ton/day

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Chumchondeengam, Ubon Ratchathani (M.7)

Lat 15 - 13 - 21 N Long 104 - 51 - 33 E

Location : on left bank at Seri Prachathipatai Bridge.

	<b>Ban</b> Chumchondeengam	<b>Amphoe</b> Warin Chamrap	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	107,238 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2010-Cont'd		
<b>Actual Measurement</b>	2010-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.9278		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 9.1218 QW^{0.91940}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	113.03	110.74	453.38	500.81	1201.21	559.55	12708.20	13187.58	9722.88	508.18	523.20	533.19		
2	115.31	582.89	477.15	441.46	1201.21	698.44	12948.08	13353.67	9339.88	528.19	513.19	513.19		
3	155.77	629.33	488.99	337.64	1201.21	801.01	13107.79	13605.78	8859.18	513.19	518.20	457.85		
4	110.74	686.97	500.81	271.03	1168.37	908.05	13187.58	13824.39	8297.75	498.15	513.19	442.65		
5	102.69	766.96	512.60	326.62	1104.09	1118.95	13187.58	14000.82	7964.87	488.10	508.18	462.90		
6	105.00	778.33	512.60	393.47	984.53	1367.00	13067.88	14141.82	7735.30	503.17	523.20	432.50		
7	106.15	766.96	559.55	477.15	871.00	1640.96	12908.13	14194.67	7547.03	508.18	513.19	422.32		
8	107.30	721.35	559.55	465.28	766.96	1926.17	12628.15	14300.31	7190.26	493.13	503.17	401.90		
9	106.15	698.44	559.55	453.38	675.48	2415.23	12347.63	14247.50	6606.28	493.13	498.15	386.53		
10	107.30	652.44	524.37	429.51	606.15	3284.25	12026.34	14194.67	5894.66	493.13	518.20	371.11		
11	107.30	652.44	559.55	429.51	477.15	4022.31	11623.67	14044.90	5150.39	523.20	518.20	381.40		
12	106.15	755.58	663.97	582.89	453.38	4221.54	11215.28	14000.82	4257.76	548.14	518.20	381.40		
13	105.00	801.01	789.68	640.90	488.99	4193.13	10891.23	13912.63	3340.78	513.19	508.18	350.45		
14	103.85	766.96	846.22	547.85	721.35	4164.70	10484.98	13780.25	548.14	478.04	513.19	314.04		
15	107.30	744.18	999.54	571.23	1250.33	4363.34	10186.18	13691.94	587.84	467.95	513.19	287.80		
16	103.85	709.90	1104.09	594.53	1266.67	4476.49	10267.74	13563.79	572.98	462.90	513.19	282.53		
17	102.69	663.97	1135.45	606.15	957.24	4335.01	10566.34	13395.72	572.98	473.00	508.18	282.53		
18	101.54	709.90	1059.40	617.75	721.35	4363.34	10837.14	13187.58	538.17	478.04	503.17	256.42		
19	101.54	709.90	1014.54	686.97	571.23	4335.01	10999.34	12988.03	538.17	518.20	508.18	251.22		
20	108.44	778.33	957.24	801.01	512.60	5523.15	11161.33	12788.20	548.14	508.18	508.18	235.43		
21	109.59	834.94	823.65	834.94	652.44	5894.66	11242.25	12588.11	553.11	508.18	508.18	230.19		
22	113.03	883.36	744.18	789.68	744.18	6304.33	11471.23	12347.63	528.19	498.15	508.18	203.64		
23	129.41	895.71	834.94	709.90	801.01	6869.49	11663.99	12026.34	533.19	498.15	523.20	198.33		
24	134.71	883.36	834.94	778.33	858.62	7484.18	11865.42	11704.30	528.19	498.15	528.19	182.20		
25	118.73	834.94	755.58	1104.09	858.62	8790.32	12106.73	11394.95	513.19	503.17	528.19	160.99		
26	115.31	778.33	675.48	1621.80	789.68	10022.88	12347.63	11134.34	508.18	493.13	528.19	155.77		
27	114.17	606.15	559.55	1587.69	686.97	10837.14	12507.99	10891.23	513.19	498.15	533.19	150.53		
28	114.17	429.51	524.37	1383.75	582.89	11394.95	12668.18	10620.55	518.20	518.20	533.19	140.00		
29	111.88	315.58	536.12	1383.75	524.37	11905.67	12788.20	10349.25	513.19	508.18		150.53		
30	111.88	258.54	500.81	1367.00	512.60	12347.63	12948.08	10050.11	508.18	513.19		129.41		
31		315.58		1266.67	500.81		13067.88		493.13	513.19		118.73		
Total	3349.98	20722.58	21067.85	23002.74	24712.69	150568.88	371028.17	387511.88	101523.38	15547.23	14434.24	9267.68	1142737.30	Ton/day
Mean	111.67	668.47	702.26	742.02	797.18	5018.96	11968.65	12917.06	3274.95	501.52	515.51	298.96	3130.79	Ton/day
Max	155.77	895.71	1135.45	1621.80	1266.67	12347.63	13187.58	14300.31	9722.88	548.14	533.19	533.19	14300.31	Ton/day
Min	101.54	110.74	453.38	271.03	453.38	559.55	10186.18	10050.11	493.13	462.90	498.15	118.73	101.54	Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Huai Samran at Ban Saphan Khao Community, Si Sa ket (M.9)**

Lat 15 - 07 - 05 N Long 104 - 19 - 07 E

Location : on right bank at the bridge on Highway.

	<b>Ban</b> Saphan Khao Community	<b>Amphoe</b> Mueang	<b>Changwat</b> Si Sa Ket
<b>Drainage Area</b>	3,042 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	19		
<b>R-Square</b>	0.7505		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.6229 QW^{1.25650}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.15	0.13	1080.83	1182.96	20.17	0.28	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.15	0.13	1159.75	1100.55	5.65	0.27	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.14	0.13	1216.73	1008.76	0.85	0.27	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.13	0.13	1251.25	923.11	0.77	0.27	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.10	0.11	1262.75	815.03	0.80	0.27	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.08	0.10	1235.91	704.87	0.77	0.27	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.08	0.11	1186.25	623.44	0.68	0.27	0.00	0.00	
8	0.00	0.00	0.00	1.17	0.08	0.11	1118.25	562.23	0.50	0.27	0.00	0.00	
9	0.00	0.00	0.00	0.80	0.07	0.11	1014.15	527.47	0.37	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.60	0.07	0.14	837.23	476.20	0.34	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.45	0.07	0.13	660.84	445.20	0.33	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.37	0.08	0.11	571.13	393.87	0.31	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.37	0.08	0.10	496.84	339.01	0.31	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.28	0.08	0.11	435.59	290.02	0.31	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.24	0.11	0.11	409.89	261.52	0.31	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.20	0.10	0.11	447.12	233.08	0.31	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.18	0.09	0.14	509.60	213.02	0.31	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.18	0.08	0.15	607.33	191.73	0.31	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.16	0.08	0.21	701.56	171.96	0.30	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.18	0.08	3.64	749.68	156.26	0.30	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.16	0.08	7.11	869.17	139.87	0.30	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.16	0.07	17.38	999.45	123.86	0.30	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.16	0.08	27.10	1110.75	106.34	0.30	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.18	0.09	55.80	1232.03	92.41	0.30	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.21	0.09	299.75	1351.95	78.67	0.30	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.21	0.10	604.05	1438.37	66.32	0.28	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.19	0.10	753.18	1489.90	56.73	0.28	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.18	0.11	847.82	1522.48	47.29	0.28	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.16	0.13	915.82	1555.45	37.88	0.28	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.16	0.14	981.17	1572.03	28.74	0.28	0.00	0.00	0.00	
31		0.00		0.15	0.14		1274.51		0.28	0.00		0.00	
Total	0.00	0.00	0.00	7.10	3.03	4515.19	31368.77	11398.40	37.18	2.17	0.00	0.00	47331.84 Tonday
Mean	0.00	0.00	0.00	0.23	0.10	150.51	1011.90	379.95	1.20	0.07	0.00	0.00	129.68 Ton/day
Max	0.00	0.00	0.00	1.17	0.15	981.17	1572.03	1182.96	20.17	0.28	0.00	0.00	1572.03 Ton/day
Min	0.00	0.00	0.00	0.00	0.07	0.10	409.89	28.74	0.28	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Mun River at Ban Pho Tak, Ubon Ratchathani (M.11B)**

Lat 15 - 14 - 59 N Long 105 - 14 - 21 E

Location : on right bank at the bridge on road.

	<b>Ban</b> Pho Tak	<b>Amphoe</b> Phibul Mangsahan	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	116,341 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2009-Cont'd		
<b>Actual Measurement</b>	2009-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.6431		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 16.2570 QW^{0.93340}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	241.39	233.87	1151.58	1385.11	4870.22	2918.61	30590.57	28266.01	21058.11	1637.71	1703.13	1768.37	
2	241.39	1648.62	1318.70	1252.04	4794.42	3418.64	30489.72	28772.44	20420.43	1703.13	1637.71	1528.25	
3	271.30	1746.64	1351.93	948.68	4794.42	3831.34	30388.94	29177.16	19415.46	1637.71	1768.37	1050.48	
4	237.63	1963.10	1385.11	777.22	4642.54	4337.72	30086.28	29278.32	18038.99	1473.32	1637.71	982.70	
5	211.20	2049.19	1385.11	948.68	4414.07	5097.14	29884.42	29379.37	17024.82	1418.23	1637.71	1050.48	
6	214.99	2049.19	1385.11	1185.13	4016.00	5997.98	29480.48	29278.32	16377.21	1528.25	1768.37	880.39	
7	222.56	1919.95	1517.28	1385.11	3707.88	6667.22	28974.85	29379.37	15913.51	1528.25	1637.71	846.10	
8	222.56	2092.14	1517.28	1385.11	3418.64	7331.70	28468.67	29278.32	15076.39	1473.32	1583.05	742.62	
9	222.56	2284.66	1484.32	1351.93	3075.48	8720.93	27961.77	29278.32	13814.40	1252.04	1473.32	602.99	
10	222.56	2135.03	1451.30	1252.04	2970.97	11862.92	27352.67	29177.16	12090.29	1473.32	1583.05	532.33	
11	222.56	1876.73	1517.28	1252.04	2454.82	13476.51	26539.02	29076.06	10491.90	1768.37	1768.37	532.33	
12	222.56	1963.10	1833.44	1681.34	2502.52	12714.00	25621.58	28974.85	10185.55	1703.13	1637.71	555.95	
13	218.78	2092.14	2284.66	1876.73	2813.70	12629.08	24906.31	28772.44	8138.07	1473.32	1528.25	489.62	
14	214.99	1963.10	2337.93	1615.86	4077.42	12629.08	24001.48	28468.67	9339.59	1307.60	1583.05	404.56	
15	222.56	1876.73	2897.65	1615.86	6221.62	12968.52	23405.94	28164.59	9955.35	1196.30	1637.71	387.64	
16	211.20	1790.08	3023.26	1648.62	6221.62	12798.88	24298.85	28063.24	1833.44	1140.37	1637.71	379.17	
17	211.20	1714.01	2960.50	1648.62	4794.42	12392.97	26029.63	27758.84	1768.37	1140.37	1528.25	374.92	
18	207.41	1790.08	2550.16	1648.62	3831.34	12090.29	26946.06	27454.30	1703.13	1473.32	1528.25	356.09	
19	211.20	1790.08	2391.11	1746.64	3132.86	11862.92	27251.10	27149.42	1898.35	1833.44	1583.05	337.79	
20	230.10	2049.19	2231.30	2135.03	2866.19	12798.88	27555.81	27149.42	1963.10	1768.37	1528.25	348.78	
21	237.63	2177.85	1963.10	2231.30	3418.64	13814.40	27758.84	26742.60	1768.37	1768.37	1473.32	345.12	
22	241.39	2284.66	1714.01	2006.18	3646.04	14572.54	27860.36	26233.49	1833.44	1703.13	1583.05	330.45	
23	260.11	2284.66	2049.19	1746.64	3769.64	16284.54	27758.84	25723.59	1963.10	1703.13	1703.13	323.10	
24	267.57	2231.30	1876.73	4077.42	4016.00	18590.44	27961.77	25315.18	1963.10	1637.71	1768.37	304.67	
25	260.11	2049.19	1919.95	5923.30	3954.51	23505.27	28063.24	24804.06	1833.44	1528.25	1768.37	293.58	
26	245.14	1790.08	1648.62	7772.28	3646.04	26539.02	28063.24	24199.75	1703.13	1528.25	1768.37	282.46	
27	241.39	1418.23	1418.23	6889.22	3247.39	28367.31	28063.24	23604.57	1703.13	1583.05	1833.44	275.02	
28	241.39	1016.63	1418.23	6147.14	2918.61	29379.37	27860.36	22908.83	1583.05	1637.71	1703.13	267.57	
29	237.63	742.62	1418.23	6072.59	2813.70	30086.28	27961.77	22311.28	1528.25	1528.25		263.84	
30	237.63	663.75	1318.70	5698.85	2761.14	30388.94	27961.77	21712.58	1528.25	1583.05		248.89	
31		811.71		5248.02	2708.50		28063.24		1528.25	1637.71		241.39	
Total	6950.69	54498.31	54720.00	82553.35	116521.36	418073.44	857610.82	815852.55	245441.97	47768.48	45991.91	17327.65	2763310.53 Ton/day
Mean	231.69	1758.01	1824.00	2663.01	3758.75	13935.78	27664.87	27195.08	7917.48	1540.92	1642.57	558.96	7570.71 Ton/day
Max	271.30	2284.66	3023.26	7772.28	6221.62	30388.94	30590.57	29379.37	21058.11	1833.44	1833.44	1768.37	30590.57 Ton/day
Min	207.41	233.87	1151.58	777.22	2454.82	2918.61	23405.94	21712.58	1528.25	1140.37	1473.32	241.39	207.41 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Lam Se Bai at Ban Chiang Pheng, Yasothon (M.32)**

Lat 15 - 50 - 24 N Long 104 - 27 - 21 E

Location : on right bank at Phawaphutanon bridge.

	<b>Ban</b> Chiang Pheng	<b>Amphoe</b> Pa Tiu	<b>Changwat</b> Yasothon
<b>Drainage Area</b>	1,648 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.9386		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.3360 QW^{1.07920}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	3.87	112.32	79.44	459.10	170.29	16.24	0.00	0.00	0.00	
2	0.00	0.00	0.00	2.05	84.08	74.82	335.92	150.78	16.24	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	56.54	65.63	244.85	136.26	16.24	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	46.44	93.43	150.78	121.85	15.21	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	38.15	141.08	98.12	102.84	14.19	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	29.98	165.40	88.75	88.75	13.17	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	24.63	175.20	84.08	74.82	11.15	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	22.51	170.29	79.44	65.63	10.15	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	21.45	165.40	70.21	52.03	10.15	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	19.36	214.79	65.63	46.44	9.16	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	20.40	335.92	61.07	40.90	8.18	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	21.45	470.97	52.03	35.41	7.20	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	24.63	692.09	52.03	32.69	6.23	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	38.15	929.70	88.75	27.30	5.28	0.00	0.00	0.00	
15	0.00	0.00	0.00	9.16	65.63	944.97	175.20	27.30	4.34	0.00	0.00	0.00	
16	0.00	0.00	0.00	43.66	70.21	778.02	209.81	23.57	3.87	0.00	0.00	0.00	
17	0.00	0.00	0.00	49.23	56.54	557.32	239.82	23.57	3.41	0.00	0.00	0.00	
18	0.00	0.00	0.00	40.90	46.44	370.82	254.93	23.57	2.95	0.00	0.00	0.00	
19	0.00	0.00	5.28	32.69	40.90	219.78	224.78	22.51	2.50	0.00	0.00	0.00	
20	0.00	0.00	38.15	32.69	29.98	141.08	185.04	22.51	1.61	0.00	0.00	0.00	
21	0.00	0.00	98.12	29.98	27.30	189.98	160.51	22.51	1.18	0.00	0.00	0.00	
22	0.00	0.00	126.64	29.98	24.63	500.74	145.92	21.45	0.36	0.00	0.00	0.00	
23	0.00	0.00	131.44	29.98	27.30	1075.51	136.26	21.45	0.00	0.00	0.00	0.00	
24	0.00	0.00	126.64	43.66	35.41	1319.35	121.85	20.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	98.12	224.78	49.23	1557.91	107.57	19.36	0.00	0.00	0.00	0.00	
26	0.00	0.00	21.45	543.97	70.21	1746.08	102.84	19.36	0.00	0.00	0.00	0.00	
27	0.00	0.00	13.17	577.40	84.08	1802.83	102.84	19.36	0.00	0.00	0.00	0.00	
28	0.00	0.00	12.16	370.82	141.08	1861.91	112.32	18.31	0.00	0.00	0.00	0.00	
29	0.00	0.00	10.15	189.98	84.08	1492.43	136.26	18.31	0.00	0.00		0.00	
30	0.00	0.00	6.23	117.08	70.21	846.03	165.40	17.28	0.00	0.00		0.00	
31	0.00	0.00		102.84	74.82		155.64		0.00	0.00		0.00	
Total	0.00	0.00	687.55	2474.72	1558.14	19178.92	4667.75	1486.81	179.01	0.00	0.00	0.00	30232.90 Tonday
Mean	0.00	0.00	22.92	79.83	50.26	639.30	150.57	49.56	5.77	0.00	0.00	0.00	82.83 Ton/day
Max	0.00	0.00	131.44	577.40	141.08	1861.91	459.10	170.29	16.24	0.00	0.00	0.00	1861.91 Ton/day
Min	0.00	0.00	0.00	0.00	19.36	65.63	52.03	17.28	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)**

Lat 15 - 02 - 54 N Long 104 - 01 - 15 E

Location : on right bank at the bridge on highway.

	<b>Ban</b> Huai Thap Than	<b>Amphoe</b> Huai Thap Thun	<b>Changwat</b> Si Sa Ket
<b>Drainage Area</b>	2,878 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.8618		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.2511 QW^{1.12870}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	2412.74	1319.41	30.48	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	2538.30	1227.41	26.89	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	2513.13	1164.13	25.11	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	2312.83	1114.87	23.34	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	2025.44	1046.87	21.59	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	1712.79	1003.61	21.59	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	1455.98	952.52	20.41	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	1266.11	904.40	20.41	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	1136.73	830.13	18.01	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	995.53	735.76	14.44	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	780.16	622.27	14.44	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	524.92	515.91	13.31	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	360.24	418.24	12.13	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	160.54	363.60	9.88	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	172.85	252.33	7.68	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	216.69	113.29	5.55	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	359.19	78.64	5.55	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	457.99	62.71	5.55	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	642.74	60.35	2.56	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	35.97	827.49	58.01	0.76	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	179.04	1009.01	58.01	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	380.66	1188.84	60.35	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	450.11	1571.30	55.67	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	529.43	1983.41	51.04	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	714.96	2200.42	48.74	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	939.13	2245.30	51.04	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	1109.41	2178.01	44.18	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	1277.20	2025.44	39.68	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	1625.90	1823.27	35.97	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	2088.66	1612.23	32.30	0.00	0.00	0.00	0.00	
31		0.00		0.00	0.00		1446.98		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	9330.47	42156.60	13321.44	299.68	0.00	0.00	0.00	65108.19 Tonday
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	311.02	1359.89	444.05	9.67	0.00	0.00	0.00	178.38 Ton/day
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	2088.66	2538.30	1319.41	30.48	0.00	0.00	0.00	2538.30 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	160.54	32.30	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## MUN RIVER BASIN

## Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima (M.43A)

Lat 14 - 30 - 43 N Long 101 - 22 - 49 E

Location : on left bank about 2 kilometers downstream from M.43

	<b>Ban</b> Tha Maprang	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	153	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.8990		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.4562 QW^{1.37580}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	11.20	0.35	6.77	24.24	217.94	68.65	90.70	5.60	0.72	1.01	1.01	
2	0.15	19.22	0.35	9.53	16.83	170.39	59.37	68.65	5.22	0.88	0.60	1.01	
3	0.15	19.22	0.35	4.49	12.06	130.45	52.65	61.65	5.22	0.88	0.23	1.01	
4	0.15	10.35	0.23	2.76	10.35	87.81	46.17	46.17	4.85	0.88	0.06	1.01	
5	0.15	5.60	0.23	2.33	12.06	96.55	35.89	41.97	4.85	0.88	0.06	1.01	
6	0.15	3.79	0.23	1.91	39.92	61.65	52.65	37.89	4.49	0.88	0.06	1.19	
7	0.15	2.99	0.23	1.91	21.69	59.37	50.46	41.97	4.49	0.88	0.06	2.33	
8	0.15	2.33	0.15	33.93	14.74	272.27	48.30	44.06	4.14	0.88	0.06	14.74	
9	0.15	2.99	1.01	31.99	11.20	262.13	48.30	31.99	4.14	0.88	0.23	6.37	
10	0.15	2.76	2.12	31.99	9.53	247.21	31.99	26.87	4.14	0.88	0.72	3.79	
11	0.35	2.33	1.33	19.22	8.72	166.27	25.55	19.22	3.79	1.01	1.01	2.99	
12	1.01	1.71	0.88	12.94	12.94	90.70	31.99	18.01	3.79	1.01	0.88	3.22	
13	1.52	1.91	1.01	19.22	14.74	66.30	57.11	18.01	3.79	1.01	0.72	2.54	
14	1.91	1.71	0.88	26.87	154.07	54.87	33.93	16.83	3.79	1.01	0.60	2.12	
15	1.52	1.33	0.88	31.99	217.94	41.97	146.08	16.83	3.46	1.01	0.46	1.52	
16	1.19	1.52	0.72	111.62	158.11	44.06	154.07	15.67	3.46	1.01	0.35	1.01	
17	0.88	2.54	0.60	105.52	68.65	48.30	87.81	15.67	3.22	1.01	0.35	1.01	
18	0.88	5.22	0.46	57.11	79.30	30.08	217.94	15.67	3.22	1.01	0.23	1.19	
19	4.14	2.99	0.35	30.08	84.95	30.08	120.93	14.74	2.99	1.01	0.15	1.19	
20	5.60	2.54	0.35	20.44	50.46	44.06	108.56	14.74	2.99	1.01	0.15	4.49	
21	3.22	2.33	0.35	22.96	35.89	84.95	84.95	12.06	2.76	1.19	0.06	4.49	
22	9.53	2.54	0.15	48.30	26.87	73.76	71.03	9.53	2.76	1.19	0.06	3.22	
23	2.99	1.91	0.15	63.96	21.69	108.56	57.11	7.17	2.76	1.19	0.06	1.71	
24	2.12	1.33	41.97	52.65	25.55	111.62	44.06	7.94	2.76	1.19	0.06	1.71	
25	2.12	1.33	5.98	154.07	20.44	111.62	35.89	7.17	2.76	1.19	0.06	1.19	
26	5.22	1.19	2.54	87.81	61.65	154.07	33.93	6.77	2.76	1.19	0.04	0.88	
27	5.98	0.72	1.71	48.30	48.30	108.56	39.92	6.37	2.76	1.19	0.04	0.46	
28	11.20	0.46	1.01	31.99	111.62	120.93	39.92	5.98	2.54	1.19	0.04	0.35	
29	73.76	0.46	1.01	25.55	187.16	82.11	50.46	5.98	2.54	1.19		0.46	
30	28.21	0.35	2.12	35.89	130.45	59.37	99.52	5.60	2.33	1.19		1.19	
31		0.35		24.24	127.26		195.70		2.12	1.19		2.54	
Total	164.85	117.22	69.70	1158.34	1819.38	3238.01	2230.89	731.88	110.49	31.83	8.41	72.95	9753.95 Tonday
Mean	5.50	3.78	2.32	37.37	58.69	107.93	71.96	24.40	3.56	1.03	0.30	2.35	26.72 Ton/day
Max	73.76	19.22	41.97	154.07	217.94	272.27	217.94	90.70	5.60	1.19	1.01	14.74	272.27 Ton/day
Min	0.15	0.35	0.15	1.91	8.72	30.08	25.55	5.60	2.12	0.72	0.04	0.35	0.04 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Huai Khayung at Ban Wang Chom Pu, Si Sa Ket (M.66)**

Lat 14 - 38 - 36 N Long 104 - 39 - 34 E

**Location : on right bank about 50 meters upstream from the bridge of Kantharalak - Det Udom Road.**

	<b>Ban</b> Wang Chom Pu	<b>Amphoe</b> Kantharalak	<b>Changwat</b> Si Sa Ket
<b>Drainage Area</b>	551	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.9941		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 7.5770 QW^{1.05170}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.04	11.44	14.47	15.13	11.44	27.44	255.83	182.51	17.78	10.63	9.58	6.23	
2	4.04	10.79	14.47	13.90	11.04	29.14	252.04	152.82	16.95	10.63	9.42	6.23	
3	4.04	10.23	14.72	12.83	10.79	36.85	271.01	117.48	16.53	10.63	9.18	5.99	
4	4.27	9.58	14.72	11.61	10.63	58.21	286.23	99.77	16.12	10.63	9.18	5.99	
5	4.27	8.78	14.88	10.63	10.23	76.84	186.24	87.59	15.71	10.63	9.02	5.83	
6	4.27	8.22	14.88	9.42	9.58	86.25	154.67	78.18	15.71	10.39	8.78	5.83	
7	4.43	7.58	14.72	8.38	9.02	114.74	191.84	72.83	15.54	10.39	8.78	5.60	
8	4.43	6.78	14.88	7.18	8.62	191.84	248.26	70.16	15.29	10.39	8.62	5.60	
9	4.43	6.39	14.88	5.99	7.98	229.37	189.97	66.17	15.13	10.39	8.62	5.44	
10	4.66	5.99	14.88	5.21	7.58	288.14	143.60	60.86	14.88	10.39	8.38	5.21	
11	4.66	5.99	14.88	5.83	7.18	255.83	117.48	51.62	14.72	10.23	8.22	5.05	
12	4.82	5.99	14.88	6.78	6.78	152.82	107.92	43.77	14.31	10.23	7.98	4.82	
13	4.82	5.99	14.88	7.82	6.62	114.74	101.12	40.31	13.90	10.23	7.98	4.82	
14	4.82	5.99	14.88	8.78	5.99	94.35	113.38	35.13	13.65	10.23	7.82	4.66	
15	5.05	5.99	14.88	9.58	5.60	75.50	184.38	30.85	13.24	10.23	7.82	4.43	
16	5.05	5.99	14.88	10.63	5.21	63.51	325.90	28.29	12.83	10.23	7.58	4.43	
17	5.05	5.99	14.88	11.44	5.21	54.25	446.72	24.06	12.26	10.23	7.42	4.27	
18	5.21	5.99	14.88	12.26	5.83	66.17	618.55	23.22	11.85	9.98	7.42	4.27	
19	5.21	5.99	14.88	13.08	6.78	141.76	707.41	22.38	11.61	9.98	7.18	4.27	
20	5.44	5.99	14.88	13.65	7.82	510.22	483.30	21.54	11.20	9.98	7.18	4.27	
21	5.60	5.99	15.13	13.90	9.02	809.34	458.90	20.70	11.20	9.82	7.02	4.27	
22	5.83	5.99	15.29	14.31	9.98	1505.68	512.67	20.28	11.04	9.82	6.78	4.04	
23	5.99	5.99	15.29	14.72	11.04	1595.74	361.94	20.28	11.04	9.82	6.78	4.04	
24	6.23	5.99	15.29	15.29	12.26	960.88	271.01	19.86	11.04	9.82	6.62	4.04	
25	6.23	5.99	15.29	15.71	14.31	1017.58	204.94	19.44	10.79	9.82	6.39	3.89	
26	7.02	5.99	15.29	16.12	16.12	1555.34	165.78	19.03	10.79	9.82	6.39	3.89	
27	8.38	7.02	15.29	15.54	18.19	1297.63	136.24	19.03	10.79	9.58	6.23	3.89	
28	9.58	11.61	15.29	14.47	21.12	674.58	118.85	18.61	10.63	9.58	6.23	3.66	
29	10.63	17.78	15.29	13.24	23.64	454.02	110.65	18.19	10.63	9.58		3.66	
30	11.61	15.54	15.29	12.01	24.90	323.50	109.29	18.19	10.63	9.58		3.66	
31		14.72		11.61	26.60		147.28		10.63	9.58		3.66	
Total	170.11	248.29	449.04	357.05	347.11	12862.26	7983.40	1503.15	408.42	313.47	218.60	145.94	25006.84 Tonday
Mean	5.67	8.01	14.97	11.52	11.20	428.74	257.53	50.10	13.17	10.11	7.81	4.71	68.51 Ton/day
Max	11.61	17.78	15.29	16.12	26.60	1595.74	707.41	182.51	17.78	10.63	9.58	6.23	1595.74 Ton/day
Min	4.04	5.99	14.47	5.21	5.21	27.44	101.12	18.19	10.63	9.58	6.23	3.66	3.66 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)**

Lat 14 - 41 - 52 N Long 101 - 24 - 55 E

Location : on left bank at the bridge in front of Vaccine Serum Office.

	<b>Ban -</b>	<b>Amphoe</b>	<b>Pak Chong</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	680	sq.km.			
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1981 - 1988,1991,1997 - Cont'd				
<b>Actual Measurement</b>	1981 - 1988,1991,1997 - Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	29				
<b>R-Square</b>	0.8507				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 2.7581 QW^{1.58630}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.70	241.59	7.26	4.97	78.56	325.07	268.40	497.44	35.88	10.70	4.44	3.93	
2	4.70	319.22	6.22	17.46	65.14	511.84	548.51	279.41	33.32	10.70	4.18	3.68	
3	4.97	325.07	6.22	23.79	52.67	354.88	348.84	246.87	33.32	10.70	4.18	3.68	
4	6.22	128.25	4.97	14.61	46.81	319.22	257.55	196.03	30.83	10.70	4.44	3.44	
5	9.50	89.23	4.97	9.50	43.98	226.02	196.03	167.65	30.83	10.70	4.18	3.44	
6	14.61	58.79	4.97	8.35	68.41	191.19	307.65	149.66	30.83	9.50	3.93	3.68	
7	16.01	41.21	4.70	7.26	89.23	145.28	273.88	176.93	28.41	9.50	3.93	4.97	
8	10.70	30.83	4.70	10.70	65.14	555.95	191.19	158.56	26.06	7.26	3.93	14.61	
9	8.35	61.93	4.97	71.74	52.67	1132.02	196.03	132.43	26.06	7.26	3.93	35.88	
10	10.70	65.14	6.22	78.56	41.21	1640.55	181.64	116.00	26.06	7.26	4.70	16.01	
11	11.95	58.79	9.50	65.14	33.32	1001.49	140.95	108.08	23.79	7.26	6.22	8.35	
12	17.46	49.71	8.35	49.71	30.83	410.94	149.66	100.38	23.79	7.26	8.35	7.26	
13	16.01	30.83	8.35	49.71	41.21	273.88	404.56	92.89	21.60	7.26	9.50	5.25	
14	33.32	23.79	8.35	128.25	85.62	200.92	215.85	92.89	21.60	7.26	10.70	4.97	
15	17.46	21.60	6.22	89.23	220.91	186.39	236.36	85.62	19.49	6.22	13.25	4.44	
16	11.95	17.46	5.25	210.83	373.23	220.91	742.69	82.06	19.49	6.22	11.95	4.70	
17	11.95	14.61	4.97	191.19	210.83	176.93	681.70	78.56	19.49	6.22	9.50	5.25	
18	13.25	23.79	4.70	191.19	124.11	226.02	849.17	75.12	19.49	6.22	8.35	4.97	
19	23.79	55.70	4.44	120.03	186.39	167.65	911.07	71.74	16.01	5.25	8.35	5.25	
20	28.41	33.32	4.44	78.56	149.66	128.25	497.44	68.41	16.01	5.25	6.22	4.97	
21	26.06	23.79	4.18	65.14	104.21	128.25	616.83	65.14	16.01	6.22	10.70	8.35	
22	16.01	23.79	4.18	85.62	85.62	154.09	586.10	58.79	16.01	6.22	16.01	17.46	
23	38.51	21.60	3.93	96.61	71.74	140.95	476.71	58.79	14.61	6.22	10.70	23.79	
24	71.74	16.01	4.44	132.43	65.14	279.41	290.58	58.79	16.01	5.25	7.26	68.41	
25	30.83	11.95	71.74	163.08	65.14	342.84	231.17	52.67	14.61	4.97	4.97	23.79	
26	41.21	10.70	19.49	262.95	78.56	707.02	196.03	49.71	14.61	4.70	4.70	9.50	
27	68.41	9.50	9.50	154.09	158.56	555.95	172.27	43.98	13.25	4.70	4.44	6.22	
28	52.67	13.25	6.22	108.08	200.92	511.84	158.56	43.98	13.25	4.97	3.93	5.25	
29	140.95	16.01	5.25	85.62	367.07	541.10	205.85	38.51	13.25	4.97		5.25	
30	313.41	10.70	4.97	78.56	430.29	296.23	181.64	38.51	11.95	4.70		4.97	
31		7.26		78.56	342.84		648.47		11.95	4.44		7.26	
Total	1075.81	1855.42	253.67	2731.52	4030.02	12053.08	11363.38	3485.60	657.87	216.06	196.94	328.98	38248.35 Tonday
Mean	35.86	59.85	8.46	88.11	130.00	401.77	366.56	116.19	21.22	6.97	7.03	10.61	104.79 Ton/day
Max	313.41	325.07	71.74	262.95	430.29	1640.55	911.07	497.44	35.88	10.70	16.01	68.41	1640.55 Ton/day
Min	4.70	7.26	3.93	4.97	30.83	128.25	140.95	38.51	11.95	4.44	3.93	3.44	3.44 Ton/day



**WATER YEAR : 2021****MUN RIVER BASIN****Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima (M.145)**

Lat 14 - 29 - 33 N Long 101 - 41 - 00 E

Location : on right bank at Ban Wang Takian Thong.

	<b>Ban</b> Wang Takian Thong	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	338	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	38		
<b>R-Square</b>	0.7527		
<b>Remarks</b>	Continued Sediment Station		

QS = 38.3040 QW<sup>1.27630</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.01	535.66	22.10	6.86	37.33	1137.26	459.03	659.66	40.77	31.13	40.77	10.40	
2	15.01	314.11	19.96	8.24	35.88	732.92	623.66	497.02	38.30	30.20	40.77	10.40	
3	14.22	434.07	22.10	8.24	34.92	588.11	1011.51	1344.80	37.33	30.20	38.30	8.95	
4	14.22	826.78	19.96	7.54	34.92	807.81	434.07	434.07	35.88	30.20	38.30	9.67	
5	15.01	129.68	17.03	17.86	38.30	923.00	302.59	291.17	35.88	28.81	38.30	8.95	
6	15.01	64.27	21.24	35.88	35.88	302.59	224.73	224.73	34.92	30.20	38.30	15.01	
7	15.01	53.54	15.81	38.30	37.33	169.03	385.09	2342.33	34.92	56.18	38.30	9.67	
8	15.01	69.79	15.81	45.78	35.88	8830.90	279.84	349.21	33.48	53.54	37.33	196.45	
9	15.01	104.78	21.24	27.89	32.54	5443.75	361.08	235.54	32.54	50.92	32.54	45.78	
10	15.01	86.90	22.10	34.92	32.54	7882.04	302.59	196.45	32.54	50.92	37.33	28.81	
11	15.01	155.67	21.24	50.92	28.81	4878.54	373.04	169.03	32.54	50.92	37.33	22.10	
12	15.01	92.78	19.96	27.89	35.88	1086.58	302.59	155.67	33.48	50.92	43.26	17.86	
13	43.26	67.01	19.11	38.30	34.92	497.02	714.45	136.08	32.54	50.92	45.78	15.01	
14	14.22	89.83	17.86	279.84	24.30	349.21	349.21	136.08	32.54	48.34	53.54	14.22	
15	40.77	53.54	15.81	257.48	136.08	409.42	2742.30	104.78	32.54	50.92	89.83	12.66	
16	11.89	149.07	19.11	884.24	217.58	421.71	5985.46	78.24	31.13	48.34	53.54	22.10	
17	7.54	246.46	15.81	123.35	110.90	291.17	3270.12	78.24	32.54	48.34	43.26	117.09	
18	26.53	210.49	14.22	67.01	50.92	434.07	4546.01	75.40	34.92	48.34	34.92	78.24	
19	98.74	337.42	12.66	50.92	37.33	291.17	1991.09	69.79	33.48	45.78	19.96	53.54	
20	45.78	92.78	12.66	104.78	78.24	291.17	903.58	67.01	32.54	45.78	15.81	67.01	
21	22.10	175.80	11.89	38.30	31.13	962.12	2522.44	61.55	33.48	45.78	19.11	37.33	
22	21.24	397.22	12.66	37.33	48.34	434.07	677.82	56.18	33.48	45.78	22.10	30.20	
23	23.41	136.08	11.14	35.88	78.24	659.66	677.82	50.92	33.48	43.26	19.11	28.81	
24	235.54	78.24	8.95	40.77	48.34	3270.12	714.45	53.54	33.48	21.24	15.81	2522.44	
25	903.58	35.88	9.67	409.42	69.79	2271.10	325.72	50.92	33.48	19.11	14.22	217.58	
26	373.04	40.77	8.95	235.54	1786.49	10038.44	268.61	50.92	38.30	19.11	12.66	72.58	
27	588.11	34.92	7.54	257.48	1292.21	4381.67	217.58	48.34	38.30	17.86	11.89	45.78	
28	373.04	38.30	8.24	81.11	2165.17	2668.57	217.58	45.78	37.33	19.11	11.14	40.77	
29	845.84	33.48	8.24	58.85	3003.70	1061.42	434.07	43.26	38.30	17.03		37.33	
30	1786.49	27.89	8.24	48.34	1137.26	535.66	257.48	40.77	33.48	17.03		33.48	
31		24.30		43.26	1111.85		2095.16		32.54	31.13		35.88	
Total	5639.66	5137.51	461.31	3402.52	11883.00	62050.30	33970.77	8147.48	1070.46	1177.34	943.51	3866.10	137749.96 Ton/day
Mean	187.99	165.73	15.38	109.76	383.32	2068.34	1095.83	271.58	34.53	37.98	33.70	124.71	377.40 Ton/day
Max	1786.49	826.78	22.10	884.24	3003.70	10038.44	5985.46	2342.33	40.77	56.18	89.83	2522.44	10038.44 Ton/day
Min	7.54	24.30	7.54	6.86	24.30	169.03	217.58	40.77	31.13	17.03	11.14	8.95	6.86 Ton/day





**WATER YEAR : 2021****MUN RIVER BASIN****Lam Chi at Ban Lum Din, Surin (M.159)**

Lat 15 - 08 - 28 N Long 103 - 25 - 45 E

Location : on right bank at Ban Lum Din.

	<b>Ban Lum Din</b>	<b>Amphoe Chom Phra</b>	<b>Changwat Surin</b>
<b>Drainage Area</b>	4,765 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2008-Cont'd		
<b>Actual Measurement</b>	2008-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	32		
<b>R-Square</b>	0.1855		
<b>Remarks</b>	Continued Sediment Station		

QS = 47.7330 QW<sup>0.75470</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	49.17	22.54	60.87	3029.61	3591.04	278.28	78.10	60.87	68.06	
2	0.00	0.00	0.00	47.73	32.05	62.85	3007.15	3331.43	231.02	77.48	62.19	67.41	
3	0.00	0.00	0.00	46.65	39.95	66.77	2990.27	2990.74	184.54	76.25	63.51	67.41	
4	0.00	0.00	0.00	45.19	54.77	69.34	2967.71	2737.00	153.48	73.76	64.17	66.77	
5	0.00	0.00	0.00	44.08	71.24	67.41	2945.10	2502.77	130.47	67.41	64.17	66.77	
6	0.00	0.00	0.00	42.97	75.63	71.24	2905.39	2326.66	102.14	62.85	64.82	66.12	
7	0.00	0.00	69.97	42.60	75.01	71.87	2762.09	2194.03	80.54	60.20	65.47	65.47	
8	0.00	0.00	74.38	41.47	67.41	70.61	2553.34	2095.72	68.06	58.86	65.47	63.51	
9	0.00	0.00	69.34	41.09	66.12	78.71	2366.07	1992.68	56.83	61.53	66.12	60.20	
10	0.00	0.00	66.77	39.57	67.41	80.54	2225.10	1908.54	43.71	64.82	68.70	60.87	
11	0.00	0.00	67.41	38.42	67.41	76.25	2161.04	1776.69	35.28	68.06	70.61	61.53	
12	0.00	0.00	58.86	36.47	68.06	72.50	2156.03	1680.78	37.64	69.97	71.87	61.53	
13	0.00	0.00	56.15	35.68	69.34	664.28	2200.57	1577.27	36.47	71.87	73.13	62.19	
14	0.00	0.00	57.51	36.07	69.97	794.25	2308.10	1479.78	39.57	73.76	71.87	61.53	
15	0.00	0.00	58.19	35.28	67.41	687.11	2399.63	1388.59	51.29	75.63	71.24	60.20	
16	0.00	0.00	56.83	33.68	64.17	801.47	2499.59	1305.87	59.53	77.48	70.61	60.20	
17	0.00	0.00	61.53	32.46	60.20	879.47	2744.73	1196.20	62.19	77.48	70.61	58.86	
18	0.00	0.00	62.19	33.28	58.19	901.73	3085.53	1114.36	64.17	76.86	70.61	58.86	
19	0.00	0.00	60.20	36.86	60.87	999.83	3324.18	1031.04	66.77	74.38	70.61	58.19	
20	0.00	0.00	57.51	33.28	62.19	1179.73	3509.81	943.83	67.41	71.24	71.24	62.19	
21	0.00	0.00	54.77	26.56	61.53	1271.93	3711.57	863.49	64.82	65.47	70.61	74.38	
22	0.00	0.00	54.08	23.91	61.53	1440.08	3814.37	791.36	64.82	57.51	71.24	84.16	
23	0.00	0.00	53.39	23.00	59.53	1693.78	3978.89	734.29	70.61	51.29	71.24	90.38	
24	0.00	0.00	52.00	22.08	58.19	1995.35	4168.22	641.96	70.61	49.17	70.61	85.95	
25	0.00	0.00	52.00	22.54	56.83	2361.21	4405.38	576.77	73.76	47.73	69.97	60.87	
26	0.00	0.00	51.29	23.00	56.83	2592.76	4590.36	545.73	79.32	47.37	69.34	68.70	
27	0.00	0.00	50.59	22.54	58.19	2762.09	4709.09	488.94	88.62	50.59	68.06	68.70	
28	0.00	0.00	50.59	21.15	60.20	2888.31	4755.19	428.14	82.36	53.39	68.06	61.53	
29	0.00	0.00	49.17	16.77	60.20	2945.10	4328.19	374.40	80.54	55.46		53.39	
30	0.00	0.00	49.88	17.27	58.86	3012.77	4076.89	320.92	79.93	57.51		53.39	
31	0.00	0.00		19.24	57.51		3807.43		79.32	58.86		59.53	
Total	0.00	0.00	1394.60	1030.06	1869.34	30720.21	100486.62	44931.02	2684.10	2012.34	1917.02	2018.85	189064.16 Tonday
Mean	0.00	0.00	46.49	33.23	60.30	1024.01	3241.50	1497.70	86.58	64.91	68.46	65.12	517.98 Ton/day
Max	0.00	0.00	74.38	49.17	75.63	3012.77	4755.19	3591.04	278.28	78.10	73.13	90.38	4755.19 Ton/day
Min	0.00	0.00	0.00	16.77	22.54	60.87	2156.03	320.92	35.28	47.37	60.87	53.39	0.00 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Lam Dom Yai at Ban Kham Samran, Ubon Ratchathani (M.170)**

Lat 14 - 47 - 27 N Long 105 - 06 - 10 E

Location : on right bank at the bridge.

	<b>Ban</b> Kham Samran	<b>Amphoe</b> Det Udom	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	1,744 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.8595		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 9.2614 QW^{0.98070}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.35	14.68	14.68	10.71	55.08	143.22	763.36	646.26	80.24	13.60	9.26	8.35	
2	11.26	13.24	13.42	9.99	39.25	206.91	643.58	609.31	77.11	13.24	9.08	8.53	
3	11.62	13.24	12.16	9.44	31.64	230.38	690.17	578.18	70.83	13.06	9.08	8.53	
4	11.98	13.42	11.07	8.90	26.31	336.54	648.93	510.95	66.11	12.52	8.72	8.53	
5	12.34	16.12	10.71	8.72	21.85	336.54	580.77	420.13	59.81	12.16	8.35	8.72	
6	12.34	20.96	10.17	8.53	20.07	460.53	578.18	356.84	53.50	11.80	8.17	8.53	
7	11.98	12.52	10.17	9.26	17.56	515.98	518.50	316.22	48.76	11.62	7.99	8.90	
8	11.26	10.71	10.89	12.88	16.48	465.58	485.75	290.86	44.01	11.26	7.99	9.08	
9	11.26	9.81	11.26	31.64	15.04	531.42	435.29	445.39	37.66	11.07	7.99	8.72	
10	10.35	9.08	10.35	58.24	14.14	609.31	387.24	465.58	36.07	11.07	7.99	8.35	
11	9.99	8.72	10.35	44.01	13.96	598.93	346.69	359.37	32.53	11.07	7.81	8.17	
12	9.62	8.35	11.07	27.20	13.78	526.22	384.71	278.55	29.87	11.07	7.99	7.99	
13	9.26	8.72	11.44	18.28	14.68	488.27	495.83	236.78	28.09	11.07	8.35	7.99	
14	8.90	11.26	13.06	17.56	15.76	435.29	478.19	209.05	25.42	10.89	8.53	7.81	
15	8.72	10.53	51.92	14.50	15.76	356.84	541.82	185.53	23.64	10.71	8.72	7.62	
16	8.53	9.44	59.81	13.96	24.53	298.41	899.04	175.51	22.75	10.35	10.89	7.26	
17	8.17	8.72	32.53	15.04	31.64	249.55	1246.31	241.04	20.96	9.99	12.88	7.08	
18	8.17	8.17	22.75	17.92	37.66	223.99	1376.49	341.61	19.17	9.99	11.80	7.08	
19	8.17	8.35	15.40	19.17	34.30	211.19	1438.20	278.55	17.56	9.99	10.53	7.62	
20	8.53	7.99	14.14	17.56	50.34	369.51	1471.09	228.25	16.84	10.17	9.62	8.35	
21	8.17	7.99	13.96	15.04	47.18	596.34	1495.75	204.78	16.48	9.99	10.17	10.89	
22	7.99	7.81	13.24	13.96	37.66	622.27	1399.54	194.09	15.76	9.81	10.71	11.62	
23	8.53	10.71	12.70	13.06	44.01	541.82	1228.17	167.62	15.40	9.62	9.81	11.44	
24	11.80	11.07	13.96	13.24	50.34	632.89	938.70	148.21	15.76	9.62	9.44	10.71	
25	14.50	10.35	14.32	15.40	40.84	800.15	674.98	131.76	17.92	9.81	9.26	10.17	
26	13.06	33.41	13.24	119.25	40.84	930.07	507.17	78.67	16.12	9.44	9.08	9.81	
27	11.80	29.87	12.52	288.40	50.34	1023.22	415.83	20.07	15.40	9.44	8.72	8.90	
28	12.88	32.53	11.80	185.53	77.11	1067.58	367.06	16.84	16.12	9.44	8.35	9.26	
29	45.59	25.42	11.44	120.80	119.25	1083.71	337.81	75.54	15.76	9.44		8.35	
30	23.64	17.20	11.07	88.07	123.91	1004.83	319.60	80.24	14.50	9.26		8.17	
31		16.84		67.68	151.65		547.01		14.14	9.26		8.90	
<b>Total</b>	360.76	427.23	485.60	1313.94	1292.96	15897.49	22641.76	8291.78	984.29	331.83	257.28	271.43	52556.35 Ton/day
<b>Mean</b>	12.03	13.78	16.19	42.39	41.71	529.92	730.38	276.39	31.75	10.70	9.19	8.76	143.99 Ton/day
<b>Max</b>	45.59	33.41	59.81	288.40	151.65	1083.71	1495.75	646.26	80.24	13.60	12.88	11.62	1495.75 Ton/day
<b>Min</b>	7.99	7.81	10.17	8.53	13.78	143.22	319.60	16.84	14.14	9.26	7.81	7.08	7.08 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima (M.171)**

Lat 14 - 30 - 05 N Long 101 - 46 - 07 E

Location : on right bank at Ban Non Sao - E.

	<b>Ban</b> Non Sao - E	<b>Amphoe</b> Wang Nam Khieo	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	561 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	33		
<b>R-Square</b>	0.7506		
<b>Remarks</b>	Continued Sediment Station		

QS = 38.3060 QW<sup>1.13050</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.84	1523.68	34.43	1.01	157.88	2804.40	830.50	942.52	105.49	60.58	38.31	9.08	
2	2.84	942.52	23.13	0.73	150.26	1603.42	1056.09	576.18	105.49	60.58	38.31	2.84	
3	2.84	756.77	5.86	0.73	120.21	2360.88	1404.98	1523.68	105.49	47.07	83.87	2.84	
4	2.84	980.21	34.43	0.73	120.21	1365.66	793.54	665.77	105.49	47.07	83.87	2.84	
5	2.84	334.52	12.45	2.84	142.67	1483.99	517.33	488.18	105.49	47.07	83.87	2.84	
6	2.84	236.29	2.84	60.58	120.21	695.95	413.36	401.99	98.22	38.31	83.87	30.61	
7	15.92	196.63	2.84	157.88	142.67	2549.88	793.54	2298.25	98.22	83.87	83.87	60.58	
8	2.84	236.29	2.84	268.59	120.21	15036.99	867.66	605.88	91.01	83.87	83.87	517.33	
9	9.08	334.52	19.49	112.82	83.87	5582.56	756.77	413.36	91.01	83.87	83.87	290.38	
10	19.49	236.29	38.31	188.81	83.87	10509.64	605.88	345.66	83.87	83.87	83.87	142.67	
11	19.49	605.88	38.31	212.40	83.87	5306.29	695.95	323.42	98.22	83.87	83.87	83.87	
12	9.08	334.52	34.43	142.67	127.65	1523.68	942.52	301.35	98.22	83.87	91.01	74.45	
13	196.63	268.59	15.92	79.14	127.65	793.54	1326.48	279.46	83.87	83.87	91.01	60.58	
14	56.04	236.29	9.08	793.54	83.87	942.52	726.29	268.59	83.87	83.87	257.77	34.43	
15	19.49	279.46	2.84	1132.61	247.01	830.50	5123.03	247.01	83.87	83.87	334.52	30.61	
16	2.84	756.77	2.84	1171.10	665.77	1056.09	6891.91	212.40	83.87	83.87	228.30	26.84	
17	2.84	279.46	2.84	447.72	401.99	546.67	5306.29	196.63	79.14	98.22	181.02	228.30	
18	1.90	447.72	2.84	312.36	665.77	1094.28	5675.00	188.81	74.45	83.87	98.22	173.27	
19	142.67	2676.79	26.84	212.40	301.35	695.95	2676.79	157.88	69.79	83.87	47.07	236.29	
20	268.59	290.38	9.08	157.88	236.29	867.66	1804.74	157.88	65.17	83.87	38.31	236.29	
21	83.87	605.88	2.84	150.26	196.63	1988.18	3126.33	165.55	60.58	83.87	38.31	181.02	
22	30.61	1056.09	5.86	120.21	212.40	1132.61	1248.51	150.26	60.58	83.87	38.31	165.55	
23	15.92	368.07	34.43	120.21	390.64	665.77	1132.61	150.26	56.04	83.87	15.92	220.33	
24	546.67	165.55	1.90	127.65	301.35	3408.48	756.77	150.26	56.04	83.87	38.31	1988.18	
25	356.85	127.65	1.30	1018.07	188.81	3627.38	576.18	142.67	56.04	69.79	38.31	459.24	
26	488.18	83.87	1.30	665.77	2423.69	14014.25	488.18	142.67	69.79	47.07	23.13	279.46	
27	576.18	135.13	1.30	401.99	2049.78	4758.78	413.36	135.13	79.14	47.07	30.61	228.30	
28	436.23	196.63	1.01	279.46	2868.46	3191.19	424.78	135.13	69.79	47.07	9.08	204.50	
29	1764.26	157.88	0.73	220.33	3335.87	1603.42	695.95	127.65	60.58	26.84		157.88	
30	2997.07	79.14	0.73	181.02	1365.66	1018.07	488.18	112.82	60.58	19.49		181.02	
31		51.53		157.88	1723.88		2049.78		56.04	12.45		142.67	
Total	8079.78	14981.00	373.04	8899.39	19240.45	93058.68	50609.28	12007.30	2495.45	2094.47	2430.66	6455.09	220724.59 Ton/day
Mean	269.33	483.26	12.43	287.08	620.66	3101.96	1632.56	400.24	80.50	67.56	86.81	208.23	604.72 Ton/day
Max	2997.07	2676.79	38.31	1171.10	3335.87	15036.99	6891.91	2298.25	105.49	98.22	334.52	1988.18	15036.99 Ton/day
Min	1.90	51.53	0.73	0.73	83.87	546.67	413.36	112.82	56.04	12.45	9.08	2.84	0.73 Ton/day

## WATER YEAR : 2021

## MUN RIVER BASIN

## Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima (M.172)

Lat 14 - 29 - 21 N Long 101 - 46 - 34 E

Location : on right bank at the bridge.

	<b>Ban Non Sao - E</b>	<b>Amphoe Wang Nam Khieo</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	143 sq.km.			
<b>Method of sampling</b>	Depth Integrating			
<b>Instrument Used</b>	US.D-49			
<b>Period of Available Records</b>	2001-Cont'd			
<b>Actual Measurement</b>	2001-Cont'd			
<b>Using Rating Curve Water Year</b>	2021			
<b>Number of observation</b>	21			
<b>R-Square</b>	0.9098			
<b>Remarks</b>	Continued Sediment Station			

QS = 13.9250 QW<sup>1.28240</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.35	471.91	4.72	4.72	18.54	1488.10	115.34	56.97	5.00	0.73	0.16	0.30	
2	2.35	410.76	4.72	5.00	15.74	216.61	141.55	71.98	4.30	0.73	0.16	0.30	
3	2.35	66.89	4.72	4.30	15.74	750.50	168.87	77.15	4.03	0.73	0.30	0.30	
4	2.35	52.15	4.72	4.30	13.04	226.46	98.56	66.89	4.03	0.73	0.30	0.30	
5	2.35	30.65	4.72	4.72	10.46	366.17	77.15	52.15	4.03	0.73	0.30	0.30	
6	2.35	30.65	4.72	5.43	5.72	168.87	66.89	42.79	4.03	0.73	0.30	0.55	
7	2.35	13.04	4.72	4.72	4.72	132.68	123.95	115.34	3.62	0.73	0.30	0.55	
8	2.35	3.62	4.30	4.03	4.30	5756.47	90.40	71.98	3.62	0.73	0.16	2.11	
9	2.35	3.62	4.30	5.00	4.30	855.15	98.56	61.89	4.30	0.73	2.11	1.54	
10	2.35	4.03	4.30	33.87	4.03	1138.46	98.56	52.15	4.30	0.73	0.30	0.55	
11	2.35	4.30	4.30	30.65	5.00	503.17	71.98	42.79	4.03	0.73	0.30	0.30	
12	2.35	4.72	4.30	13.04	15.74	115.34	115.34	33.87	4.03	0.73	0.30	0.30	
13	2.35	5.00	4.30	18.54	10.46	71.98	187.65	27.50	3.62	0.73	0.30	0.30	
14	2.35	5.00	4.30	15.74	8.01	178.21	141.55	38.28	3.62	0.55	5.00	0.30	
15	2.35	5.00	4.03	10.46	8.01	206.86	322.74	27.50	3.36	0.55	2.35	0.30	
16	2.35	5.00	4.03	30.65	98.56	380.91	1398.79	27.50	3.36	0.55	2.72	0.30	
17	2.35	4.72	4.03	30.65	132.68	123.95	1609.05	24.43	2.97	0.55	0.55	0.30	
18	2.35	4.72	4.03	15.74	178.21	236.41	1114.97	21.44	2.72	0.55	0.55	0.55	
19	2.72	4.30	4.03	15.74	33.87	150.54	322.74	18.54	2.35	0.55	0.30	0.55	
20	2.97	4.30	4.03	10.46	30.65	456.45	197.20	18.54	2.11	0.55	0.30	0.55	
21	3.36	4.03	4.03	5.43	27.50	534.86	178.21	15.74	1.77	0.30	0.30	0.00	
22	3.36	4.03	3.62	5.00	30.65	150.54	141.55	13.04	1.77	0.30	0.16	0.00	
23	3.36	3.62	3.62	4.30	56.97	141.55	115.34	13.04	1.77	0.30	0.30	2.11	
24	3.36	3.62	3.62	18.54	47.42	246.45	98.56	13.04	1.77	0.30	0.30	90.40	
25	3.36	3.62	3.36	42.79	82.39	976.33	77.15	10.46	2.35	0.30	0.30	33.87	
26	3.36	3.36	2.97	38.28	141.55	4288.58	61.89	5.43	3.62	0.30	0.30	18.54	
27	3.36	3.36	2.97	18.54	266.81	566.97	52.15	5.43	4.03	0.30	0.30	13.04	
28	3.36	5.00	2.72	13.04	115.34	294.48	52.15	5.43	2.11	0.30	0.30	13.04	
29	3.62	5.00	2.35	13.04	106.88	168.87	71.98	5.43	1.02	0.16		5.72	
30	187.65	4.72	2.35	13.04	30.65	132.68	66.89	5.43	0.73	0.16		5.43	
31		4.72		8.01	308.54		56.97		0.73	0.16		4.72	
<b>Total</b>	266.14	1179.46	118.93	447.77	1832.48	21024.60	7534.68	1042.15	95.10	16.22	19.32	197.42	33774.27 Ton/day
<b>Mean</b>	8.87	38.05	3.96	14.44	59.11	700.82	243.05	34.74	3.07	0.52	0.69	6.37	92.53 Ton/day
<b>Max</b>	187.65	471.91	4.72	42.79	308.54	5756.47	1609.05	115.34	5.00	0.73	5.00	90.40	5756.47 Ton/day
<b>Min</b>	2.35	3.36	2.35	4.03	4.03	71.98	52.15	5.43	0.73	0.16	0.16	0.00	0.00 Ton/day

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Non Sa - at, Nakhon Ratchasima (M.173)

Lat 14 - 44 - 42 N Long 102 - 12 - 42 E

Location : on right bank at Ban Non Sa - at.

	<b>Ban Non Sa - at</b>	<b>Amphoe Chok Chai</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	4,222 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2019-Cont'd		
<b>Actual Measurement</b>	2019-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.8504		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.1615 QW^{1.01530}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.02	186.05	42.25	13.62	32.53	166.59	963.36	734.17	34.52	16.44	40.63	21.62	
2	19.22	247.59	39.82	13.62	26.45	145.91	920.85	689.01	34.15	16.01	39.38	26.45	
3	18.84	248.42	34.15	14.42	23.66	130.76	828.56	655.18	33.72	16.01	39.00	27.26	
4	20.82	220.11	28.87	18.41	16.44	130.76	711.58	612.35	34.52	15.21	37.76	25.27	
5	26.45	198.50	23.23	7.26	11.23	121.80	592.09	571.83	33.34	14.42	37.38	24.04	
6	29.30	179.41	20.45	3.33	13.25	111.91	474.07	531.34	32.10	13.62	36.57	23.23	
7	34.96	176.93	19.22	2.97	11.23	130.76	405.71	493.15	33.34	12.82	35.77	26.07	
8	46.31	179.41	16.81	45.50	10.43	203.48	364.89	445.48	31.72	12.02	34.96	41.44	
9	64.34	172.78	13.25	90.54	14.84	324.69	331.38	422.51	30.48	11.23	34.15	73.06	
10	75.24	152.08	10.86	128.01	19.22	386.97	301.28	402.35	28.87	10.43	33.34	83.43	
11	82.34	132.80	10.06	163.12	14.42	435.95	280.11	374.67	28.87	9.64	32.53	73.60	
12	95.46	101.49	9.27	152.80	16.81	531.34	268.99	354.83	28.87	9.64	31.72	72.51	
13	111.36	76.33	8.48	126.64	22.86	592.09	254.25	326.92	28.87	10.06	31.29	69.24	
14	117.68	65.43	7.68	117.68	22.43	734.17	279.00	296.82	28.49	10.06	30.91	55.26	
15	113.01	51.19	7.26	134.18	23.66	852.32	322.46	255.09	33.72	10.43	30.11	49.94	
16	105.88	45.50	6.11	161.07	25.65	906.68	415.79	217.62	34.52	10.86	29.68	47.12	
17	82.34	44.25	4.53	196.01	27.26	906.68	792.93	181.90	33.34	10.86	28.87	42.25	
18	62.16	41.82	4.53	224.27	29.30	892.52	935.01	152.08	32.10	11.23	28.49	38.57	
19	65.97	38.19	4.53	213.46	34.96	852.32	920.85	132.14	30.48	12.45	28.06	36.95	
20	80.15	41.44	4.53	155.56	58.08	792.93	906.68	110.27	28.87	12.82	27.26	39.00	
21	86.71	44.25	4.53	95.46	69.79	734.17	949.18	95.46	27.69	13.25	26.45	39.00	
22	83.43	38.57	4.53	60.53	88.90	689.01	1048.47	89.44	26.45	15.21	25.65	40.63	
23	75.78	33.72	4.12	47.93	94.92	655.18	1133.68	82.88	25.27	18.04	24.84	43.06	
24	70.88	32.10	4.12	43.06	96.56	612.35	1133.68	73.60	24.04	27.69	24.46	43.06	
25	64.88	33.72	3.33	62.71	106.97	612.35	1091.06	66.52	22.86	30.91	22.86	42.63	
26	59.99	35.77	2.97	104.78	152.80	666.45	1048.47	63.25	30.11	34.96	21.25	46.31	
27	55.26	40.63	2.55	106.43	237.59	734.17	977.54	59.44	20.02	36.95	19.64	43.87	
28	55.64	56.07	6.11	94.37	259.26	792.93	920.85	56.45	19.22	36.57	18.84	41.44	
29	64.88	67.06	14.04	76.88	243.42	852.32	864.21	49.94	18.41	37.38		39.00	
30	108.62	58.08	13.62	51.19	212.63	920.85	828.56	37.76	17.61	39.00		36.57	
31		49.56		36.95	187.71		781.06		16.44	40.19		35.33	
<b>Total</b>	1997.92	3089.25	375.81	2762.76	2205.26	16620.41	22046.60	8634.45	883.01	576.41	851.85	1347.21	61390.94 Ton/day
<b>Mean</b>	66.60	99.65	12.53	89.12	71.14	554.01	711.18	287.82	28.48	18.59	30.42	43.46	168.19 Ton/day
<b>Max</b>	117.68	248.42	42.25	224.27	259.26	920.85	1133.68	734.17	34.52	40.19	40.63	83.43	1133.68 Ton/day
<b>Min</b>	18.84	32.10	2.55	2.97	10.43	111.91	254.25	37.76	16.44	9.64	18.84	21.62	2.55 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Huai Khayung at Ban Non Si Khlai, Si Sa Ket (M.176)**

Lat 15 - 00 - 23 N Long 104 - 38 - 00 E

Location : on left bank at Ban Non Si Khlai.

	<b>Ban Non Si Khlai</b>	<b>Amphoe Kanthararom</b>	<b>Changwat Si Sa Ket</b>
<b>Drainage Area</b>	3,007 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.9510		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 7.9341 QW^{1.04040}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.56	4.83	9.51	5.96	5.47	22.39	4292.82	1368.82	366.45	34.26	33.13	28.34	
2	20.84	4.83	9.26	4.83	4.58	61.87	4084.86	1357.53	318.68	34.00	32.95	28.17	
3	22.13	5.07	9.18	4.26	4.18	77.31	3784.44	1323.48	265.51	33.83	33.13	28.17	
4	16.06	4.83	9.09	4.18	3.86	82.01	3308.44	1248.04	253.41	33.56	32.95	27.91	
5	13.95	4.74	9.09	4.02	3.54	98.52	2710.74	1158.76	40.40	33.83	32.69	27.74	
6	12.60	4.74	9.01	3.62	3.22	119.90	2244.42	1101.22	38.38	34.26	32.52	27.48	
7	11.51	4.58	9.18	3.70	2.90	150.87	1830.79	1044.29	37.76	34.26	32.26	27.48	
8	10.34	4.50	8.60	3.70	2.74	182.08	1524.21	1008.40	37.06	34.44	32.08	27.48	
9	9.18	4.34	8.10	3.38	2.74	269.30	1357.53	978.53	33.83	34.70	31.65	27.30	
10	8.10	5.31	7.69	3.14	2.82	422.17	1190.33	951.67	33.39	34.88	31.65	27.30	
11	7.19	6.21	7.69	3.14	3.30	480.11	1020.36	906.98	30.51	34.88	31.38	27.04	
12	6.21	6.21	8.02	3.14	4.02	460.76	892.10	862.37	30.51	34.88	31.21	26.87	
13	5.47	5.96	8.26	3.30	3.38	395.23	794.15	823.78	30.78	34.88	31.21	26.61	
14	5.23	5.64	8.10	3.54	3.70	328.21	735.50	788.23	31.21	34.88	30.95	26.44	
15	5.15	5.23	8.51	4.99	3.86	263.62	742.88	752.73	31.38	34.88	30.78	26.18	
16	6.05	4.74	9.01	5.56	3.14	224.87	909.95	723.20	32.08	34.70	30.51	26.18	
17	5.56	4.83	9.43	5.72	2.82	183.39	1119.22	701.08	32.52	34.70	30.34	26.18	
18	5.31	6.21	9.51	5.15	2.66	170.35	1372.65	678.99	32.95	34.44	30.08	26.87	
19	6.05	8.10	9.01	4.58	2.66	210.69	1619.19	657.42	33.56	34.70	30.08	27.48	
20	6.21	10.67	8.43	4.02	2.66	458.83	1765.58	637.84	33.83	34.44	29.91	27.48	
21	5.47	12.60	7.93	3.38	2.66	760.12	1863.43	616.32	34.26	34.26	29.91	27.74	
22	4.02	13.19	7.93	3.22	2.82	1140.23	1941.04	594.83	34.26	34.00	29.91	27.91	
23	3.86	13.53	7.93	3.38	2.82	1478.68	2014.68	567.52	34.26	34.00	29.65	27.48	
24	3.78	13.44	7.52	3.54	2.50	1810.40	2096.62	536.38	34.44	34.00	29.47	27.30	
25	4.02	14.20	6.78	4.58	2.58	2252.65	2141.74	509.18	34.70	34.00	29.04	27.04	
26	3.78	15.13	6.54	4.58	2.82	2710.74	2092.52	483.98	34.70	34.00	29.04	27.04	
27	3.38	15.39	6.45	4.74	3.06	3607.35	1961.48	456.90	34.70	33.83	28.78	26.61	
28	3.30	14.46	6.21	5.56	3.30	4071.18	1806.32	431.80	34.70	33.56	28.60	26.18	
29	3.14	13.27	6.29	6.45	3.86	4321.28	1664.88	402.92	34.44	33.39		25.75	
30	4.18	12.01	6.70	6.45	6.29	4392.47	1535.55	376.04	34.44	33.13		25.31	
31		10.67		6.13	7.93		1421.79		34.44	33.13		25.14	
Total	241.63	259.46	244.96	135.94	108.89	31207.58	57840.21	24049.23	2123.54	1060.70	865.86	838.20	118976.20 Today
Mean	8.05	8.37	8.17	4.39	3.51	1040.25	1865.81	801.64	68.50	34.22	30.92	27.04	325.96 Ton/day
Max	22.13	15.39	9.51	6.45	7.93	4392.47	4292.82	1368.82	366.45	34.88	33.13	28.34	4392.47 Ton/day
Min	3.14	4.34	6.21	3.14	2.50	22.39	735.50	376.04	30.51	33.13	28.60	25.14	2.50 Ton/day



**WATER YEAR : 2021****MUN RIVER BASIN****Huai Hin Lap at Ban Khlong Hin Lap, Nakhon Ratchasima (M.183B)**

Lat 14 - 43 - 43 N Long 101 - 33 - 51 E

**Location : on left bank at the bridge on highway.**

	<b>Ban</b> Khlong Hin Lap	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	234 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2021-Cont'd		
<b>Actual Measurement</b>	2021-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	40		
<b>R-Square</b>	0.9455		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 13.4700 QW^{1.44360}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.60	535.44	6.76	3.59	5.53	557.29	314.11	34.02	11.94	6.76	7.39	5.24	
2	3.08	73.85	6.76	3.59	6.76	108.40	227.70	28.98	11.20	6.76	6.44	5.24	
3	3.33	26.55	6.76	3.59	6.44	110.62	140.72	26.55	11.20	6.76	6.44	5.24	
4	3.59	16.69	6.76	3.59	6.44	32.99	50.56	24.65	11.20	6.76	6.14	5.24	
5	3.85	214.83	6.76	3.33	6.14	21.00	28.49	22.80	10.83	6.76	6.44	4.95	
6	2.84	32.99	6.76	3.33	5.83	15.86	50.56	117.37	10.83	6.76	6.44	4.95	
7	3.33	25.12	7.07	4.39	5.83	21.89	67.38	4850.31	10.47	6.44	6.14	5.53	
8	3.08	22.80	8.72	8.05	5.83	334.79	30.46	264.24	10.11	6.44	6.14	8.38	
9	3.08	21.00	9.41	10.83	5.24	133.58	21.89	124.24	10.47	5.83	6.14	9.76	
10	3.85	154.10	9.41	12.32	4.39	151.23	117.37	82.18	10.11	6.14	5.53	7.39	
11	4.95	189.80	9.41	15.86	4.39	214.83	34.54	31.47	10.11	6.14	5.83	6.44	
12	4.67	168.70	9.41	13.08	4.39	37.97	35.06	24.65	9.76	6.14	7.39	5.83	
13	4.67	28.49	9.41	9.06	4.39	21.89	271.06	22.35	9.76	5.83	7.07	5.53	
14	6.14	19.67	9.41	8.38	4.67	29.97	73.85	21.44	9.76	5.83	7.39	5.53	
15	6.14	19.67	8.05	10.83	4.67	28.98	475.05	19.24	9.76	6.14	6.76	5.24	
16	6.14	19.67	9.06	10.83	4.67	89.05	326.47	17.95	9.76	6.76	6.76	5.83	
17	5.53	19.67	9.06	8.05	4.95	44.83	1958.53	17.11	9.76	6.76	6.76	7.07	
18	4.67	28.98	9.41	6.44	25.60	55.00	1736.28	15.46	9.41	6.76	8.72	7.39	
19	4.95	19.67	9.41	6.14	13.86	25.60	377.33	17.53	9.41	6.44	8.38	20.11	
20	34.54	19.67	9.06	5.53	13.08	21.00	143.12	15.86	8.05	6.44	7.72	9.06	
21	12.32	22.35	5.53	5.24	25.12	61.09	119.64	15.05	7.72	6.44	7.07	8.72	
22	6.76	19.67	5.83	4.95	15.46	89.05	94.31	14.65	7.72	6.76	6.76	8.05	
23	42.04	19.67	5.83	4.95	8.38	35.06	230.95	14.25	7.39	7.39	6.44	21.44	
24	281.39	19.67	4.95	7.39	7.39	334.79	112.86	15.46	7.39	7.07	6.14	302.41	
25	75.49	19.67	4.12	18.38	8.05	486.71	70.59	14.25	6.76	7.72	6.14	33.51	
26	8.05	19.67	3.85	24.65	35.59	919.14	49.11	13.47	7.07	7.72	6.14	108.40	
27	11.94	18.80	3.85	11.94	457.71	254.11	35.59	13.08	5.53	7.39	5.53	26.55	
28	11.20	9.41	3.85	7.39	230.95	205.33	32.99	12.70	6.76	7.39	5.24	16.69	
29	72.21	6.76	3.85	6.44	250.76	64.21	124.24	12.32	6.76	7.39		65.79	
30	1363.85	6.76	3.85	6.14	310.02	29.97	78.82	11.94	6.76	7.72		21.89	
31		6.76		5.83	639.61		78.82		6.76	8.05		13.86	
Total	2000.28	1826.55	212.37	254.11	2132.14	4536.23	7508.45	5915.57	280.52	209.69	185.48	767.26	25828.65 Tonday
Mean	66.68	58.92	7.08	8.20	68.78	151.21	242.21	197.19	9.05	6.76	6.62	24.75	70.76 Ton/day
Max	1363.85	535.44	9.41	24.65	639.61	919.14	1958.53	4850.31	11.94	8.05	8.72	302.41	4850.31 Ton/day
Min	2.60	6.76	3.85	3.33	4.39	15.86	21.89	11.94	5.53	5.83	5.24	4.95	2.60 Ton/day

## WATER YEAR : 2021

## MUN RIVER BASIN

## Mun River at Ban Cum, Nakhon Ratchasima (M.184)

Lat 15 - 13 - 12 N Long 102 - 25 - 42 E

Location : on right at the bridge on highway.

	Ban Cum	Amphoe Phimai	Changwat Nakhon Ratchasima
Drainage Area	11,476 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2021		
Number of observation	20		
R-Square	0.3157		
Remarks	Continued Sediment Station		

$$QS = 6.4680 QW^{1.10970}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.17	344.98	319.56	5.05	187.68	639.68	1908.84	1931.52	217.95	35.17	101.94	38.58	
2	33.48	415.84	280.75	3.00	120.96	687.33	2026.31	1897.51	181.68	42.02	101.94	35.17	
3	30.12	501.14	217.95	1.70	90.69	696.44	2083.39	1863.55	159.86	45.49	94.43	35.17	
4	30.12	592.39	205.79	1.08	68.62	701.00	2083.39	1829.66	150.04	54.28	94.43	38.58	
5	33.48	691.88	181.68	0.50	50.74	691.88	2064.35	1795.83	145.15	57.83	105.72	43.76	
6	40.30	728.43	159.86	0.00	45.49	701.00	2045.32	1762.07	140.28	61.41	109.51	45.49	
7	65.00	750.22	150.04	0.00	40.30	807.85	2007.31	1728.36	135.42	65.00	101.94	45.49	
8	109.51	755.96	154.94	1.08	33.48	906.74	1988.34	1688.50	117.13	101.94	109.51	43.76	
9	164.80	744.48	150.04	1.70	33.48	906.74	1950.44	1645.01	109.51	68.62	117.13	61.41	
10	205.79	733.01	135.42	11.65	21.89	953.66	1908.84	1592.98	109.51	47.24	101.94	83.27	
11	224.06	723.85	120.96	280.75	18.68	1000.81	1908.84	1549.74	98.17	42.02	75.91	164.80	
12	251.73	705.57	113.31	401.78	13.19	1065.99	2026.31	1510.31	90.69	42.02	72.25	230.18	
13	258.96	687.33	101.94	486.81	9.40	1107.68	2083.39	1480.81	72.25	38.58	65.00	244.53	
14	273.47	576.70	86.97	515.50	6.47	1143.54	2083.39	1458.72	45.49	35.17	65.00	251.73	
15	295.38	415.84	65.00	501.14	6.47	1179.51	2064.35	1436.66	38.58	35.17	61.41	237.34	
16	319.56	319.56	57.83	458.29	5.75	1221.61	2045.32	1399.97	75.91	33.48	65.00	211.86	
17	319.56	251.73	68.62	415.84	5.75	1263.86	2007.31	1354.85	90.69	31.80	61.41	205.79	
18	288.05	159.86	65.00	401.78	5.75	1318.38	1988.34	1312.31	72.25	31.80	50.74	193.70	
19	244.53	224.06	45.49	429.94	18.68	1367.03	1950.44	1251.78	61.41	31.80	54.28	199.74	
20	205.79	258.96	36.88	458.29	40.30	1414.64	1908.84	1113.65	61.41	31.80	68.62	224.06	
21	217.95	251.73	33.48	486.81	61.41	1480.81	1679.80	930.17	47.24	31.80	75.91	237.34	
22	251.73	258.96	26.80	444.10	98.17	1575.67	1717.14	796.29	43.76	30.12	79.58	280.75	
23	273.47	258.96	25.15	237.34	117.13	1627.65	1784.57	719.28	45.49	30.12	75.91	311.13	
24	266.20	224.06	20.28	175.71	145.15	1662.40	1840.95	639.68	45.49	28.45	72.25	319.56	
25	251.73	154.94	17.09	175.71	169.75	1773.32	1897.51	545.46	45.49	26.80	68.62	302.72	
26	230.18	164.80	13.96	169.75	193.70	1795.83	1931.52	458.29	47.24	26.80	61.41	288.05	
27	230.18	217.95	12.42	244.53	224.06	1818.38	1969.38	401.78	50.74	43.76	54.28	258.96	
28	224.06	288.05	10.90	328.01	302.72	1829.66	1988.34	336.49	57.83	45.49	43.76	266.20	
29	217.95	328.01	8.65	344.98	415.84	1840.95	2064.35	295.38	61.41	35.17		258.96	
30	266.20	319.56	7.19	311.13	515.50	1852.25	2026.31	251.73	54.28	68.62		237.34	
31		319.56		266.20	592.39		1988.34		38.58	90.69		199.74	
Total	5858.51	13368.37	2893.95	7560.15	3659.59	37032.29	61021.27	36978.34	2710.93	1390.46	2209.83	5595.16	180278.85 Tonday
Mean	195.28	431.24	96.47	243.88	118.05	1234.41	1968.43	1232.61	87.45	44.85	78.92	180.49	493.91 Ton/day
Max	319.56	755.96	319.56	515.50	592.39	1852.25	2083.39	1931.52	217.95	101.94	117.13	319.56	2083.39 Ton/day
Min	30.12	154.94	7.19	0.00	5.75	639.68	1679.80	251.73	38.58	26.80	43.76	35.17	0.00 Ton/day

**WATER YEAR : 2021****MUN RIVER BASIN****Huai Samran at Ban Khwaw, Si Sa Ket (M.190)**

Lat 15 - 00 - 38 N Long 104 - 07 - 42 E

Location : on right at the bridge on highway.

	<b>Ban</b> Khwaw	<b>Amphoe</b> Uthumphon Phisa	<b>Changwat</b> Si Sa Ket
<b>Drainage Area</b>	2,371 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2011-Cont'd		
<b>Actual Measurement</b>	2011-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8671		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.1462 QW^{0.89820}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	720.65	556.22	52.32	19.66	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	736.08	488.48	49.27	18.94	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	732.86	428.54	49.27	18.21	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	720.65	400.45	44.67	16.73	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	681.93	308.38	41.57	15.99	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	616.82	204.13	40.01	14.50	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	532.31	150.56	38.45	12.22	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	429.90	123.37	36.87	10.94	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	263.36	187.73	33.48	9.90	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	263.36	373.53	31.65	8.85	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	348.47	302.00	30.73	7.24	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	256.86	245.26	30.73	6.15	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	209.32	219.66	30.73	5.59	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	165.08	204.13	31.65	5.03	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	165.08	172.67	32.56	4.75	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	187.73	155.93	30.73	4.17	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	245.26	145.17	29.81	3.59	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	250.34	126.12	28.88	3.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	128.86	109.53	29.81	2.39	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	276.31	106.74	27.95	1.77	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	480.07	98.71	25.38	1.12	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	619.44	96.69	24.68	0.42	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	14.50	755.30	92.65	23.97	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	106.74	809.49	84.49	23.26	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	145.17	819.01	78.31	23.26	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	240.16	809.49	72.07	23.26	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	439.44	790.41	65.77	22.54	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	500.23	758.50	62.81	21.83	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	581.67	711.96	59.84	21.83	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	679.34	658.57	56.84	21.11	0.00	0.00	0.00	
31		0.00		0.00	0.00		606.33		19.66	0.00		0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	2707.25	15749.80	5776.78	971.92	191.16	0.00	0.00	25396.91 Tonday
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	90.24	508.06	192.56	31.35	6.17	0.00	0.00	69.58 Ton/day
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	679.34	819.01	556.22	52.32	19.66	0.00	0.00	819.01 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	128.86	56.84	19.66	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Ping River at Nawarat Bridge , Chiang Mai (P.1)**

Lat 18 - 47 - 13 N Long 99 - 00 - 17 E

Location : on left bank about 100 meters downstream from Nawarat Bridge.

	<b>Ban</b> Nawarat Bridge	<b>Amphoe</b> Mueang	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	6,287 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1993-Cont'd		
<b>Actual Measurement</b>	1993-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	32		
<b>R-Square</b>	0.7745		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9258 QW^{1.35420}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	24.40	12.91	0.15	84.38	40.22	156.10	134.01	116.37	16.53	10.01	14.69	
2	3.20	22.36	16.53	0.34	57.16	128.06	187.05	380.82	156.10	12.91	10.95	3.79	
3	8.19	20.36	16.53	4.10	156.10	140.03	230.47	253.04	166.26	10.95	3.48	2.01	
4	12.91	9.08	10.95	110.64	93.90	128.06	140.03	187.05	110.64	10.95	3.39	2.01	
5	8.19	10.95	3.70	176.57	49.91	84.38	116.37	219.39	156.10	20.36	3.99	2.45	
6	2.53	20.36	3.20	166.26	176.57	57.16	156.10	128.06	156.10	16.53	18.42	14.69	
7	2.18	10.95	3.20	187.05	187.05	72.38	72.38	156.10	93.90	16.53	14.69	16.53	
8	1.50	6.46	18.42	116.37	88.49	166.26	72.38	140.03	156.10	22.36	22.36	8.19	
9	2.73	22.36	24.40	241.68	140.03	76.33	68.49	104.98	84.38	16.53	14.69	16.53	
10	22.36	18.42	26.49	156.10	140.03	230.47	33.33	110.64	156.10	20.36	3.99	18.42	
11	16.53	26.49	22.36	134.01	140.03	208.46	57.16	88.49	80.33	16.53	14.69	11.92	
12	22.36	22.36	18.42	176.57	176.57	134.01	49.91	110.64	11.92	12.91	18.42	10.95	
13	4.86	24.40	4.86	99.40	104.98	93.90	42.59	134.01	12.91	11.92	10.95	14.69	
14	8.19	4.86	11.92	156.10	99.40	116.37	31.11	128.06	16.53	4.86	12.91	18.42	
15	3.39	3.48	5.64	140.03	68.49	99.40	33.33	128.06	14.69	3.90	10.01	11.92	
16	4.86	4.10	5.64	134.01	197.68	197.68	42.59	110.64	7.31	7.31	9.08	6.46	
17	24.40	4.86	22.36	176.57	197.68	380.82	76.33	146.12	18.42	11.92	3.00	2.35	
18	22.36	3.90	20.36	60.87	156.10	208.46	128.06	134.01	16.53	11.92	2.53	1.75	
19	24.40	1.91	12.91	104.98	134.01	219.39	64.65	156.10	10.01	16.53	3.00	2.18	
20	20.36	0.77	12.91	146.12	166.26	208.46	49.91	122.18	9.08	16.53	18.42	7.31	
21	9.08	0.64	12.91	128.06	122.18	99.40	68.49	60.87	10.95	22.36	16.53	11.92	
22	3.90	0.29	7.31	104.98	84.38	219.39	42.59	72.38	14.69	16.53	16.53	12.91	
23	2.91	0.64	6.46	104.98	72.38	208.46	134.01	166.26	20.36	12.91	20.36	9.08	
24	2.18	4.10	3.20	156.10	110.64	380.82	717.39	128.06	18.42	22.36	18.42	2.35	
25	1.75	3.20	1.75	99.40	116.37	219.39	449.51	156.10	14.69	11.92	14.69	1.91	
26	2.08	4.10	0.90	84.38	88.49	241.68	187.05	76.33	10.01	14.69	11.92	2.27	
27	0.98	16.53	1.59	93.90	122.18	515.17	166.26	128.06	10.95	10.01	6.46	12.91	
28	1.75	5.64	2.45	140.03	93.90	567.59	104.98	128.06	11.92	12.91	22.36	12.91	
29	3.90	16.53	2.08	140.03	128.06	515.17	93.90	146.12	14.69	12.91		12.91	
30	10.95	11.92	0.64	110.64	122.18	208.46	84.38	93.90	16.53	7.31		9.08	
31		6.46		156.10	76.33		140.03		18.42	7.31		2.27	
Total	255.04	332.88	313.00	3806.52	3751.91	6165.83	3996.93	4228.57	1711.41	429.56	336.25	277.78	25605.68 Ton/day
Mean	8.50	10.74	10.43	122.79	121.03	205.53	128.93	140.95	55.21	13.86	12.01	8.96	70.15 Ton/day
Max	24.40	26.49	26.49	241.68	197.68	567.59	717.39	380.82	166.26	22.36	22.36	18.42	717.39 Ton/day
Min	0.06	0.29	0.64	0.15	49.91	40.22	31.11	60.87	7.31	3.90	2.53	1.75	0.06 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Nam Mae Taeng at Ban Mae Taeng , Chiang Mai (P.4A)**

Lat 19 - 07 - 20 N Long 98 - 56 - 40 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	<b>Ban Mae Taeng</b>	<b>Amphoe Mae Taeng</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	1,918 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1992-Cont'd		
<b>Actual Measurement</b>	1992-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.7626		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.9707 QW^{1.42840}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.06	12.87	0.06	0.73	2.74	153.85	90.74	14.33	0.13	0.07	0.08	
2	0.03	0.55	11.13	0.06	0.73	0.24	150.23	251.90	2.93	0.14	0.07	0.10	
3	0.03	14.33	6.08	0.06	0.73	0.20	142.95	196.08	0.67	0.17	0.07	0.07	
4	0.03	15.46	5.00	0.06	0.73	0.20	172.70	298.05	1.38	0.14	0.07	0.07	
5	0.03	15.46	2.74	0.06	0.73	0.20	37.19	176.48	0.34	0.13	0.07	0.07	
6	0.04	5.80	16.04	0.06	0.73	0.20	24.51	35.98	1.59	0.12	0.07	0.07	
7	0.05	0.06	14.89	0.06	0.73	0.20	17.21	17.21	0.14	0.12	0.08	0.10	
8	0.06	0.06	12.87	0.06	0.73	0.24	14.89	62.53	5.27	0.13	0.12	0.12	
9	0.06	0.06	13.77	0.06	0.73	128.72	8.75	75.19	1.70	0.13	0.12	0.08	
10	0.06	0.06	56.66	0.06	0.73	222.42	3.75	30.08	0.20	0.13	0.11	0.07	
11	0.06	0.06	68.57	0.11	0.73	200.00	3.52	35.98	0.18	0.12	0.07	0.07	
12	0.06	0.06	52.85	0.61	0.73	49.85	3.99	32.40	0.16	0.10	0.07	0.08	
13	0.06	0.06	21.69	0.61	0.73	1.70	4.49	32.40	0.14	0.10	0.07	0.08	
14	0.06	0.06	16.62	0.61	0.73	1.00	3.52	32.40	0.20	0.11	0.07	0.08	
15	0.06	0.06	3.99	0.61	0.82	0.20	3.75	30.08	0.20	0.13	0.07	0.08	
16	0.06	0.06	0.07	0.55	51.34	0.20	5.80	24.51	0.20	0.12	0.07	0.10	
17	0.06	0.06	0.16	0.39	34.77	3.52	8.75	22.38	0.20	0.12	0.07	0.07	
18	0.06	0.06	0.13	0.49	8.75	1097.24	150.23	19.63	0.24	0.14	0.07	0.08	
19	0.06	0.06	0.06	0.73	8.75	277.22	56.66	20.99	0.29	0.13	0.07	0.10	
20	0.06	0.06	0.06	0.73	5.27	51.34	13.32	27.81	0.29	0.13	0.08	0.08	
21	0.06	0.06	0.06	0.73	0.24	56.66	6.72	28.94	0.29	0.17	0.07	0.07	
22	0.06	0.06	0.06	0.73	0.20	180.39	6.72	22.38	0.20	0.16	0.07	0.08	
23	0.06	0.06	0.06	0.73	0.20	246.85	9.11	31.23	0.13	0.13	0.07	0.10	
24	0.06	0.06	0.06	0.73	0.20	80.27	277.22	25.96	0.14	0.10	0.07	0.10	
25	0.06	0.06	0.06	0.73	0.34	108.53	982.69	19.02	0.17	0.06	0.07	0.10	
26	0.06	0.55	0.06	0.73	2.20	192.06	1612.26	19.02	0.17	0.07	0.07	0.08	
27	0.06	23.79	0.06	0.73	1.48	485.37	647.20	30.08	0.18	0.11	0.07	0.07	
28	0.06	25.23	0.06	0.73	0.55	277.22	88.09	23.79	0.18	0.10	0.07	0.06	
29	0.06	25.23	0.06	0.73	0.20	168.83	64.52	19.02	0.20	0.07		0.07	
30	0.06	22.38	0.06	0.73	0.44	157.61	72.69	16.62	0.20	0.07		0.07	
31		13.32		0.73	3.32		77.72		0.17	0.10		0.08	
<b>Total</b>	1.62	163.30	316.85	14.07	129.29	3991.42	4825.00	1748.88	32.68	3.68	2.12	2.53	11231.44 Tonday
<b>Mean</b>	0.05	5.27	10.56	0.45	4.17	133.05	155.65	58.30	1.05	0.12	0.08	0.08	30.77 Ton/day
<b>Max</b>	0.06	25.23	68.57	0.73	51.34	1097.24	1612.26	298.05	14.33	0.17	0.12	0.12	1612.26 Ton/day
<b>Min</b>	0.03	0.06	0.06	0.06	0.20	0.20	3.52	16.62	0.13	0.06	0.07	0.06	0.03 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Nam Mae Kuang at Tha Nang Bridge , Lamphun (P.5)**

Lat 18 - 34 - 49 N Long 99 - 00 - 37 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	<b>Ban</b> Tha Nang	<b>Amphoe</b> Mueang	<b>Changwat</b> Lamphun
<b>Drainage Area</b>	1,515 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1992-Cont'd		
<b>Actual Measurement</b>	1992-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9273		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9613 QW^{1.42100}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	3.57	1.25	66.80	63.23	45.26	95.73	194.17	7.97	1.74	3.18	1.98	
2	0.13	2.50	1.49	76.10	114.50	26.43	127.60	139.08	5.36	1.94	2.32	2.95	
3	0.14	4.24	1.22	108.13	89.71	21.68	264.03	123.15	8.83	2.29	1.43	2.95	
4	0.23	2.39	1.13	112.36	79.92	21.68	191.34	83.79	5.56	2.99	1.46	2.50	
5	0.19	2.22	1.13	108.13	89.71	38.37	125.34	48.11	1.61	3.14	1.61	2.11	
6	0.36	1.94	2.04	156.20	151.04	38.37	79.92	33.23	4.56	2.91	2.76	1.40	
7	0.56	2.54	2.72	177.40	148.48	33.23	56.36	24.27	7.74	2.83	4.75	1.13	
8	0.78	4.17	0.42	148.48	114.50	49.73	41.09	1.16	7.97	2.39	4.75	3.66	
9	1.98	2.39	1.19	89.71	83.79	120.97	22.44	4.30	7.66	1.84	4.43	3.92	
10	5.02	1.65	0.65	188.53	78.00	156.20	27.53	2.61	7.21	1.37	3.86	2.72	
11	5.22	0.78	0.49	188.53	194.17	215.09	20.18	4.95	6.55	1.13	3.49	3.10	
12	3.86	1.98	0.23	156.20	99.82	169.32	49.73	5.77	6.34	0.99	3.26	2.87	
13	1.74	2.39	0.20	118.80	93.71	114.50	48.11	6.99	7.29	0.85	3.10	3.30	
14	2.54	2.43	0.25	68.63	16.58	295.35	38.37	5.63	7.29	0.73	3.18	3.62	
15	2.18	2.22	0.51	116.64	24.27	473.66	30.91	5.49	5.70	0.60	3.30	3.53	
16	1.98	1.78	0.28	64.99	114.50	427.21	29.77	5.77	5.98	0.53	3.53	3.41	
17	1.22	1.43	0.53	106.04	174.65	402.48	30.91	6.84	4.95	0.93	3.66	3.26	
18	2.18	0.85	0.70	125.34	148.48	313.24	30.91	6.62	2.99	2.68	3.49	2.76	
19	5.70	0.70	0.53	83.79	85.75	177.40	53.01	7.14	4.62	3.80	3.18	2.22	
20	2.68	0.68	0.26	59.77	46.68	103.95	123.15	7.51	2.87	3.26	2.25	1.81	
21	1.94	0.51	0.28	49.73	78.00	68.63	139.08	7.51	2.95	6.34	1.87	1.31	
22	2.54	0.36	0.22	39.72	66.80	70.48	30.91	3.10	3.22	7.06	3.02	0.99	
23	3.62	0.23	0.23	27.53	58.06	123.15	34.40	6.05	3.14	7.14	3.70	1.31	
24	2.01	0.17	0.42	21.68	72.34	153.61	89.71	5.77	2.76	5.84	4.24	1.94	
25	1.71	0.13	2.72	17.29	158.80	116.64	83.79	4.43	1.98	4.24	4.82	2.80	
26	4.62	0.17	3.53	15.27	120.97	164.03	53.01	4.36	1.31	5.84	4.69	2.87	
27	4.56	0.13	2.68	14.04	85.75	253.92	35.71	5.36	1.07	6.55	3.41	2.65	
28	4.36	0.28	1.04	12.26	79.92	306.06	61.49	3.66	1.34	3.30	2.68	2.95	
29	3.98	0.51	0.85	29.77	59.77	243.93	112.36	7.29	1.43	3.74		2.91	
30	3.62	0.42	34.40	161.41	51.36	151.04	141.42	6.84	1.55	4.43		2.83	
31		1.13		51.36	51.36		215.09		1.46	3.57		2.50	
Total	71.80	46.89	63.59	2760.63	2894.62	4895.61	2483.40	770.95	141.26	96.99	91.42	80.26	14397.42 Tonday
Mean	2.39	1.51	2.12	89.05	93.37	163.19	80.11	25.70	4.56	3.13	3.26	2.59	39.44 Ton/day
Max	5.70	4.24	34.40	188.53	194.17	473.66	264.03	194.17	8.83	7.14	4.82	3.92	473.66 Ton/day
Min	0.13	0.13	0.20	12.26	16.58	21.68	20.18	1.16	1.07	0.53	1.43	0.99	0.13 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Tha Ngiu, Nakhon Sawan (P.17)

Lat 16 - 03 - 53 N Long 99 - 51 - 37 E

Location : on right bank at Som Siao Market.

	<b>Ban</b>	<b>Tha Ngiu</b>	<b>Amphoe</b>	<b>Banphot Phisai</b>	<b>Changwat</b>	<b>Nakhon Sawan</b>
<b>Drainage Area</b>	44,949 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1954-Cont'd					
<b>Actual Measurement</b>	1954-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	30					
<b>R-Square</b>	0.9155					
<b>Remarks</b>	Continued Sediment Station					

QS = 3.2812 QW<sup>1.23200</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	280.58	973.93	55.98	239.15	206.95	5435.55	15226.96	5482.93	231.02	2221.28	1324.51	995.23		
2	263.86	1168.65	152.86	231.02	199.04	4058.48	12054.44	5388.24	272.20	2160.75	1369.70	1038.09		
3	280.58	995.23	222.94	239.15	191.18	4058.48	11300.32	4966.07	367.89	2100.53	1506.95	1347.07		
4	329.93	827.33	610.04	206.95	160.39	4596.39	9239.93	5059.33	406.60	1921.85	1670.10	1324.51		
5	355.15	610.04	782.90	199.04	145.40	5435.55	7068.72	5625.54	406.60	1553.24	1717.28	1553.24		
6	393.61	554.30	868.76	183.39	102.20	5768.83	5530.39	4277.43	380.71	1576.49	1670.10	2040.64		
7	432.80	446.02	848.00	206.95	75.15	5012.66	4873.15	3284.01	355.15	1530.06	1833.65	1717.28		
8	486.10	393.61	681.08	199.04	138.00	4058.48	4688.30	2654.91	355.15	1438.02	1530.06	2070.55		
9	540.53	367.89	540.53	199.04	116.28	3686.35	4058.48	2528.54	526.82	1415.18	1460.93	1775.29		
10	459.31	342.49	499.61	206.95	102.20	3062.74	3099.42	2622.14	610.04	1460.93	1415.18	1833.65		
11	459.31	513.18	486.10	231.02	152.86	5152.90	2466.49	2160.75	638.28	1257.26	1369.70	1599.79		
12	393.61	513.18	513.18	329.93	222.94	13978.36	2160.75	1717.28	652.48	1392.40	1347.07	1553.24		
13	355.15	419.66	472.67	724.39	255.57	13744.69	3136.17	1438.02	681.08	1257.26	1302.02	1257.26		
14	446.02	367.89	486.10	1081.28	280.58	11075.90	4550.56	1190.69	1038.09	1324.51	1506.95	1168.65		
15	459.31	355.15	499.61	995.23	393.61	8626.88	4413.60	1016.61	1016.61	1369.70	1369.70	1103.00		
16	446.02	280.58	513.18	768.19	568.14	6786.77	4459.16	910.55	1124.81	1438.02	1646.60	952.71		
17	419.66	263.86	472.67	827.33	782.90	6842.98	6284.81	782.90	1124.81	1460.93	2221.28	1016.61		
18	432.80	255.57	459.31	952.71	1168.65	9050.87	14056.42	753.54	1103.00	1553.24	2886.41	952.71		
19	446.02	247.34	419.66	868.76	889.61	11001.28	16033.61	709.89	1016.61	1646.60	2497.48	952.71		
20	432.80	145.40	393.61	695.46	681.08	12054.44	12282.45	709.89	1038.09	1693.66	1775.29	952.71		
21	446.02	116.28	342.49	446.02	554.30	10583.32	11225.42	681.08	910.55	1693.66	1506.95	931.59		
22	432.80	123.44	280.58	292.77	554.30	9939.34	9113.81	666.75	910.55	1646.60	1369.70	973.93		
23	419.66	116.28	305.07	239.15	486.10	14369.44	7869.37	582.05	995.23	1623.17	1324.51	1081.28		
24	406.60	152.86	272.20	160.39	432.80	16033.61	6674.60	472.67	1059.64	1746.24	1190.69	1415.18		
25	406.60	138.00	292.77	130.68	355.15	17303.66	6674.60	419.66	1081.28	1576.49	1103.00	1438.02		
26	393.61	130.68	272.20	130.68	305.07	20712.41	5673.23	380.71	1016.61	1553.24	973.93	1369.70		
27	419.66	109.20	263.86	152.86	305.07	21555.68	4780.56	342.49	1038.09	1483.91	812.47	1438.02		
28	472.67	75.15	255.57	168.00	709.89	28805.84	4142.08	317.45	1460.93	1460.93	812.47	1190.69		
29	638.28	75.15	255.57	160.39	1124.81	26042.75	3645.42	280.58	1279.60	1438.02		1059.64		
30	782.90	45.82	247.34	183.39	2528.54	19252.23	3361.38	255.57	1483.91	1369.70		973.93		
31		39.27		191.18	6451.32		4826.81		2010.82	1392.40		952.71		
Total	12931.95	11163.43	12766.44	11840.49	20640.08	328086.86	214971.41	57678.27	26593.25	48756.27	42514.68	40029.63	827972.76	Ton/day
Mean	431.06	360.11	425.55	381.95	665.81	10936.23	6934.56	1922.61	857.85	1572.78	1518.38	1291.28	2268.42	Ton/day
Max	782.90	1168.65	868.76	1081.28	6451.32	28805.84	16033.61	5625.54	2010.82	2221.28	2886.41	2070.55	28805.84	Ton/day
Min	263.86	39.27	55.98	130.68	75.15	3062.74	2160.75	255.57	231.02	1257.26	812.47	931.59	39.27	Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Rim at Ban Mae Rim Tai , Chiang Mai (P.21)

Lat 18 - 55 - 39 N Long 98 - 56 - 23 E

Location : on left bank about 100 meters downstream from the bridge of Chiang Mai - Fang Highway.

	<b>Ban Mae Rim Tai</b>	<b>Amphoe Mae Rim</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	506 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.7965		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.4733 QW^{1.27890}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	9.97	1.08	1.18	1.85	2.82	15.01	23.71	2.40	0.74	0.50	0.56	
2	0.26	13.38	0.87	1.39	1.62	2.08	32.02	67.28	1.96	0.74	0.56	0.50	
3	0.28	10.87	0.81	1.39	1.08	1.73	40.92	68.56	2.20	0.68	0.62	0.50	
4	0.33	11.33	1.01	1.39	1.51	3.70	34.64	38.20	3.92	0.74	0.68	0.44	
5	0.33	12.84	1.01	1.85	1.51	3.04	26.93	23.71	1.62	0.68	0.74	0.44	
6	4.67	4.67	0.44	2.61	1.51	2.40	15.01	16.68	1.51	0.56	0.74	0.39	
7	6.44	3.04	0.42	10.41	1.18	3.04	10.41	15.01	1.29	0.94	0.87	0.39	
8	1.51	1.85	0.42	3.04	1.18	16.11	8.64	15.56	1.29	0.94	0.74	0.87	
9	1.08	1.73	2.40	134.55	1.01	8.64	9.08	26.10	1.18	0.74	0.87	0.56	
10	0.81	1.85	7.79	81.75	0.87	114.77	7.79	11.33	1.01	0.74	0.87	0.74	
11	0.62	3.47	3.70	29.45	1.01	77.71	9.08	8.64	0.94	0.74	0.81	0.81	
12	1.51	1.85	4.15	118.30	1.08	20.78	9.08	7.05	1.01	0.74	0.81	0.87	
13	1.96	1.62	2.08	32.89	1.01	10.87	17.24	6.74	1.01	0.74	0.87	0.74	
14	1.29	0.81	2.08	8.64	1.01	22.97	17.24	6.44	0.87	0.74	0.87	0.74	
15	1.39	0.28	5.24	12.31	1.51	32.89	20.06	5.54	0.87	0.81	0.50	0.81	
16	1.18	0.31	7.79	101.42	35.53	50.26	39.10	5.24	1.01	1.62	0.42	1.01	
17	1.39	0.26	18.64	59.75	34.64	113.06	51.22	9.08	0.62	2.82	0.42	0.87	
18	1.96	0.42	8.64	11.33	8.64	71.12	38.20	6.44	0.81	2.40	0.44	0.81	
19	2.61	1.39	2.20	6.44	5.83	52.42	28.60	5.83	0.87	2.08	0.44	0.74	
20	2.40	1.18	1.73	13.91	19.35	17.24	28.60	4.39	0.74	1.85	1.96	0.68	
21	1.85	0.94	1.39	72.41	12.31	13.91	20.06	5.24	0.81	4.39	1.39	0.56	
22	1.01	0.87	1.29	20.06	10.41	107.77	20.78	4.15	0.87	3.92	1.29	0.42	
23	0.68	0.44	1.08	9.52	3.04	75.01	44.61	4.15	0.81	2.82	1.01	0.42	
24	0.68	0.74	1.08	5.54	1.96	38.20	69.84	4.15	0.87	1.85	1.01	0.44	
25	1.73	0.74	1.01	5.24	3.25	26.10	30.30	3.92	0.94	1.18	0.94	0.81	
26	3.92	0.62	1.18	6.13	3.25	104.30	15.56	3.92	0.87	0.94	0.87	0.56	
27	9.52	0.81	1.29	5.54	2.82	116.58	12.84	4.67	0.87	0.81	0.74	0.42	
28	12.31	0.68	1.01	4.95	8.64	114.77	10.41	4.15	0.74	0.74	0.62	0.39	
29	10.41	0.94	1.01	2.40	12.31	43.68	16.68	3.70	0.74	0.44		0.36	
30	7.79	1.96	1.01	2.08	9.52	20.06	18.64	3.25	0.74	0.42		0.36	
31		1.73		1.85	4.67		29.45		0.81	0.62		0.36	
Total	82.18	93.59	83.85	769.72	195.11	1288.03	748.04	412.83	36.20	40.17	22.60	18.57	3790.89 Tonday
Mean	2.74	3.02	2.80	24.83	6.29	42.93	24.13	13.76	1.17	1.30	0.81	0.60	10.39 Ton/day
Max	12.31	13.38	18.64	134.55	35.53	116.58	69.84	68.56	3.92	4.39	1.96	1.01	134.55 Ton/day
Min	0.26	0.26	0.42	1.18	0.87	1.73	7.79	3.25	0.62	0.42	0.42	0.36	0.26 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Ngat at Ban Sahakorn Romklao , Chiang Mai (P.56A)

Lat 19 - 17 - 00 N Long 99 - 11 - 12 E

Location : on left bank at the bridge near land Cooperative Office.

	<b>Ban</b> Sahakorn Romklao	<b>Amphoe</b> Phrao	<b>Changwat</b> Chiang Mai
<b>Drainge Area</b>	546	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.7304		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.8557 QW^{1.63230}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	1.04	3.40	3.40	3.40	4.80	20.07	531.33	6.38	1.24	1.04	1.42	
2	0.72	1.04	3.40	3.40	3.40	5.20	18.42	580.42	4.80	1.24	1.04	1.24	
3	0.72	1.04	3.40	3.40	3.75	5.57	16.83	157.63	3.40	1.24	1.04	1.42	
4	0.72	1.04	3.40	3.40	13.09	5.57	16.05	48.47	3.40	1.24	1.04	1.24	
5	0.72	1.04	3.40	3.40	9.67	5.57	16.05	44.98	3.40	1.24	1.04	1.24	
6	0.72	1.04	3.40	4.80	12.39	5.57	13.09	38.90	3.40	1.24	1.04	1.24	
7	0.72	1.42	3.40	22.25	7.23	5.20	4.45	20.07	3.40	1.24	2.10	1.24	
8	0.72	19.24	3.40	10.20	6.82	4.80	6.38	18.42	3.40	1.24	2.33	1.04	
9	0.72	13.09	5.20	17.62	5.57	5.57	6.38	16.83	3.40	1.04	2.33	1.04	
10	0.72	12.39	8.17	24.51	4.80	8.17	6.38	16.83	3.40	1.04	2.33	1.04	
11	0.72	12.39	17.62	23.37	4.80	10.20	41.90	16.05	3.40	1.04	1.86	1.04	
12	0.72	10.73	11.27	26.85	5.57	7.23	35.99	13.09	3.40	1.04	1.24	1.04	
13	0.72	5.20	7.23	17.62	5.20	5.20	17.62	52.38	3.40	1.04	1.24	1.04	
14	0.72	3.40	9.67	11.27	4.80	7.23	12.39	41.90	3.40	1.04	1.24	1.04	
15	0.72	3.14	20.07	6.38	3.40	9.16	11.83	20.07	3.40	1.04	1.04	1.04	
16	0.72	2.85	20.07	5.57	3.40	9.67	11.27	12.39	3.40	1.04	1.04	1.04	
17	0.72	3.40	18.42	4.45	3.75	10.20	12.39	12.39	3.40	1.24	1.04	1.04	
18	1.04	2.85	12.39	3.40	6.82	11.83	12.39	12.39	3.40	11.83	1.65	1.04	
19	1.04	2.85	10.73	3.40	7.23	7.23	11.27	12.39	3.40	12.39	21.15	1.04	
20	1.04	2.85	7.23	5.20	7.23	6.38	7.23	11.27	3.40	11.83	11.27	1.04	
21	1.04	3.14	5.20	26.85	7.23	5.99	7.23	9.67	3.14	10.73	7.23	1.04	
22	1.24	3.40	3.40	22.25	7.69	11.27	8.17	9.67	1.42	7.69	6.38	1.04	
23	1.65	3.40	3.40	21.15	6.82	12.39	62.69	9.67	1.42	5.57	3.40	1.04	
24	0.72	3.40	3.40	16.83	6.38	11.83	37.43	9.16	1.42	3.40	3.14	1.04	
25	0.72	3.40	3.40	11.27	5.57	10.20	22.25	7.69	1.24	3.40	2.10	1.04	
26	0.72	3.40	3.40	7.69	5.20	13.09	38.90	9.16	1.24	3.40	1.42	1.04	
27	1.04	3.40	3.40	5.99	5.20	23.37	17.62	9.16	1.24	3.40	1.42	1.04	
28	2.85	3.40	3.40	4.80	5.20	50.41	12.39	7.23	1.24	2.85	1.42	1.04	
29	2.60	3.40	3.40	3.40	5.20	44.98	12.39	7.23	1.24	2.33		1.04	
30	1.04	3.40	3.40	3.40	5.20	20.07	12.39	7.23	1.24	1.04		1.04	
31		3.40		3.40	5.20		21.15		1.24	1.04		1.04	
Total	28.98	139.18	211.07	330.92	187.21	343.95	550.99	1764.07	88.46	100.38	84.61	34.00	3863.82 Tonday
Mean	0.97	4.49	7.04	10.67	6.04	11.46	17.77	58.80	2.85	3.24	3.02	1.10	10.59 Ton/day
Max	2.85	19.24	20.07	26.85	13.09	50.41	62.69	580.42	6.38	12.39	21.15	1.42	580.42 Ton/day
Min	0.72	1.04	3.40	3.40	3.40	4.80	4.45	7.23	1.24	1.04	1.04	1.04	0.72 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Ping River at Ban Mae Tae , Chiang Mai (P.67)**

Lat 19 - 01 - 31 N Long 98 - 57 - 36 E

Location : on left bank at the bridge on highway.

	<b>Ban Mae Tae</b>	<b>Amphoe San Sai</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	5,129 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	29		
<b>R-Square</b>	0.7241		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.8985 QW^{1.35200}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.90	1.55	15.45	2.14	6.05	12.04	75.58	64.89	2.51	1.23	0.85	1.90	
2	35.75	2.39	7.70	11.01	6.05	8.13	96.85	113.59	2.77	1.23	0.61	2.14	
3	23.53	4.44	5.27	15.45	7.70	8.13	111.16	121.11	3.58	1.39	0.92	2.26	
4	2.02	2.14	4.22	6.87	6.05	13.11	94.51	118.50	2.51	1.55	1.78	2.26	
5	1.55	2.02	3.79	4.00	6.46	8.13	59.83	111.16	2.26	1.47	4.89	11.01	
6	1.55	1.67	4.89	2.97	8.13	4.89	41.41	68.32	2.02	1.31	2.26	9.50	
7	1.39	1.90	9.50	4.44	5.66	7.28	34.65	53.41	1.67	3.79	2.39	2.77	
8	7.70	4.00	9.99	18.05	3.79	45.81	20.76	37.99	1.55	7.28	2.51	2.51	
9	39.12	5.66	16.09	50.33	2.77	39.12	13.65	32.46	1.55	2.14	2.51	2.51	
10	15.45	8.13	30.32	81.77	3.58	94.51	9.99	39.12	1.47	1.07	2.26	2.51	
11	2.64	9.01	41.41	56.52	4.89	101.56	9.01	33.55	1.31	1.00	1.78	2.26	
12	2.51	8.57	39.12	56.52	6.05	56.52	15.45	32.46	1.23	1.23	9.01	9.99	
13	1.67	10.50	18.05	34.65	4.66	28.33	12.57	41.41	1.15	0.85	2.26	6.05	
14	1.47	3.79	15.45	18.05	4.66	18.05	9.50	47.31	0.92	1.07	1.67	2.51	
15	2.14	2.26	18.72	12.57	6.05	32.46	8.57	40.26	0.78	4.89	1.39	2.39	
16	41.41	2.02	9.99	18.72	53.41	63.19	13.65	32.46	0.85	1.90	1.39	2.26	
17	12.57	3.17	18.05	41.41	108.74	131.68	56.52	25.42	0.92	2.77	1.47	2.26	
18	2.51	3.17	16.74	19.39	45.81	150.89	50.33	19.39	0.92	4.00	1.39	2.26	
19	2.14	2.97	9.99	14.19	20.76	192.15	28.33	17.39	1.00	3.79	11.01	14.82	
20	1.78	6.46	5.66	16.09	19.39	123.73	16.74	16.74	1.23	9.50	13.65	9.99	
21	1.47	4.89	4.00	39.12	31.39	59.83	16.09	13.11	1.23	6.05	2.51	2.77	
22	1.31	2.97	2.77	28.33	13.65	79.69	13.65	12.04	1.67	4.22	1.55	2.39	
23	1.07	16.09	3.17	20.07	7.70	113.59	83.86	13.65	2.02	2.26	1.31	1.90	
24	1.23	5.27	2.26	18.05	7.70	199.45	527.18	15.45	2.02	1.39	1.23	2.02	
25	2.02	4.22	2.51	14.82	7.70	108.74	292.04	18.05	1.67	1.07	0.92	1.90	
26	1.39	15.45	2.51	13.11	8.57	88.08	177.76	16.74	1.67	0.85	6.05	16.74	
27	1.39	18.05	2.26	10.50	9.01	252.85	101.56	19.39	1.31	0.72	5.27	12.57	
28	1.31	18.72	2.02	12.04	11.52	252.85	81.77	14.82	1.31	0.85	1.47	2.39	
29	1.47	27.35	1.90	11.01	16.74	221.78	68.32	9.01	1.15	5.27		1.78	
30	1.39	20.76	1.78	9.50	29.32	126.36	75.58	4.00	1.15	1.23		1.47	
31		16.74		7.28	17.39		81.77		1.23	1.00		1.23	
Total	214.85	236.33	325.58	668.97	491.35	2642.93	2298.64	1203.20	48.63	78.37	86.31	141.32	8436.48 Tonday
Mean	7.16	7.62	10.85	21.58	15.85	88.10	74.15	40.11	1.57	2.53	3.08	4.56	23.11 Ton/day
Max	41.41	27.35	41.41	81.77	108.74	252.85	527.18	121.11	3.58	9.50	13.65	16.74	527.18 Ton/day
Min	1.07	1.55	1.78	2.14	2.77	4.89	8.57	4.00	0.78	0.72	0.61	1.23	0.61 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Sop Soi , Chiang Mai (P.73)

Lat 18 - 17 - 57 N Long 98 - 38 - 45 E

Location : on left bank at Sop Soi Phatana Bridge.

	<b>Ban Sop Soi</b>	<b>Amphoe Chom Thong</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	14,718 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.9384		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.3149 QW^{1.51140}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	10.77	1.86	5.02	301.76	233.52	207.96	218.54	9.24	11.16	11.08	10.77	
2	1.07	10.38	1.90	4.96	264.46	284.45	597.76	8.14	9.99	10.85	10.93	10.69	
3	0.57	10.85	1.83	4.55	315.71	58.46	378.57	5.96	10.30	10.77	11.08	10.93	
4	0.48	7.85	1.79	3.12	288.50	161.92	121.02	8.72	8.94	10.61	11.01	10.85	
5	0.67	7.64	1.69	2.56	315.71	233.52	101.62	6.75	10.85	10.93	10.85	10.77	
6	0.71	6.95	1.33	2.52	445.45	126.04	405.36	8.43	9.76	10.93	11.08	10.77	
7	1.15	6.95	0.90	2.68	399.74	128.58	480.82	7.09	9.76	10.61	11.16	10.30	
8	1.62	6.89	0.90	2.92	363.72	48.46	329.87	6.42	10.77	10.77	11.01	10.53	
9	1.66	6.75	1.27	658.13	339.43	383.56	363.72	8.72	10.15	10.69	11.16	11.16	
10	1.59	7.85	0.95	897.93	301.76	280.41	368.65	7.16	10.30	10.93	10.69	10.93	
11	1.66	7.64	1.37	260.52	244.97	284.45	504.90	8.94	10.53	11.24	10.85	10.69	
12	1.97	7.71	1.97	334.64	197.77	116.06	445.45	7.71	11.08	11.08	11.16	10.77	
13	2.04	8.00	7.37	642.38	191.07	72.65	433.87	8.28	9.84	11.01	11.08	10.85	
14	2.11	7.02	9.24	480.82	174.68	177.92	486.80	11.16	9.46	10.85	11.01	11.32	
15	3.04	7.30	9.92	878.34	207.96	45.36	272.39	10.61	10.85	11.08	10.93	10.93	
16	3.54	7.57	9.92	457.14	264.46	74.76	378.57	9.61	10.61	11.01	10.93	11.24	
17	4.37	7.50	10.07	468.93	583.13	174.68	141.53	9.92	11.40	11.32	10.93	11.08	
18	5.09	7.30	9.46	474.86	329.87	111.17	1.57	9.92	10.30	11.16	11.01	11.08	
19	7.02	7.02	10.38	334.64	233.52	20.80	0.41	9.84	10.30	11.40	10.93	10.93	
20	8.64	5.83	9.01	416.68	233.52	13.04	0.18	9.99	9.99	11.24	11.24	10.93	
21	10.15	5.33	8.57	767.88	256.60	10.38	0.90	11.81	10.38	11.01	11.08	10.69	
22	10.93	4.90	7.93	378.57	463.02	12.21	2.00	11.16	10.69	10.93	11.08	10.93	
23	12.21	4.14	7.64	248.82	353.93	373.59	4.26	11.01	10.85	10.93	11.24	11.08	
24	11.64	3.16	7.57	207.96	272.39	144.17	7.78	12.63	9.84	10.69	11.08	11.01	
25	11.56	2.96	7.50	297.16	268.42	126.04	136.30	9.99	10.85	10.77	10.69	10.85	
26	10.53	2.92	7.43	363.72	634.87	28.27	518.84	9.09	11.40	10.77	10.77	10.93	
27	10.38	2.92	6.22	334.64	433.87	187.76	451.28	12.46	11.48	11.01	10.77	10.85	
28	10.85	2.79	5.21	329.87	474.86	439.65	539.99	11.16	11.08	11.08	10.61	10.93	
29	11.89	1.93	5.21	353.93	325.13	292.58	858.89	9.31	11.08	11.24		10.77	
30	11.64	1.97	5.02	329.87	256.60	276.39	463.02	7.93	10.93	11.16		10.46	
31		1.90		280.41	264.46		272.39		10.77	11.08		10.61	
Total	161.96	190.69	161.43	10226.17	10001.34	4920.85	9276.67	488.46	323.77	340.31	307.44	336.63	36735.72 Tonday
Mean	5.40	6.15	5.38	329.88	322.62	164.03	299.25	16.28	10.44	10.98	10.98	10.86	100.65 Ton/day
Max	12.21	10.85	10.38	897.93	634.87	439.65	858.89	218.54	11.48	11.40	11.24	11.32	897.93 Ton/day
Min	0.48	1.90	0.90	2.52	174.68	10.38	0.18	5.96	8.94	10.61	10.61	10.30	0.18 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Ping River at Ban Sop Pae , Chiang Mai (P.73A)**

Lat 18 - 15 - 09 N Long 98 - 38 - 03 E

Location : on right bank at Ban Sop Pae.

	<b>Ban Sop Pae</b>	<b>Amphoe Chom Thong</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	14,779 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2017-Cont'd		
<b>Actual Measurement</b>	2017-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.8728		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.3914 QW^{1.40120}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.65	3.47	0.64	4.08	35.00	65.19	1022.13	594.70	49.98	0.64	0.68	0.05	
2	1.65	3.18	0.64	3.47	37.81	288.52	808.48	884.09	37.81	0.64	0.87	0.04	
3	1.65	7.83	0.64	1.65	24.84	78.10	730.56	673.64	37.81	0.64	0.64	0.04	
4	1.65	123.94	0.64	1.37	4.40	33.62	1053.57	618.06	37.81	0.64	0.64	0.04	
5	1.65	32.25	0.64	0.64	4.08	78.10	686.17	528.78	37.81	0.64	0.53	0.03	
6	1.65	16.59	0.64	0.64	4.08	99.06	451.45	476.41	27.10	0.64	0.31	0.02	
7	1.94	9.34	0.64	0.64	2.89	90.35	266.96	310.54	8.32	0.64	0.36	0.02	
8	1.79	17.40	0.64	0.64	1.65	303.15	270.52	252.86	8.32	0.64	0.57	0.02	
9	2.35	7.34	0.64	2.89	1.65	303.15	249.37	212.21	8.32	0.64	0.31	0.02	
10	2.89	7.34	0.64	318.29	1.65	1674.04	167.96	167.96	8.32	0.64	0.31	0.02	
11	3.77	7.34	0.64	466.38	1.65	1939.59	186.34	156.26	7.34	0.64	0.31	0.53	
12	4.08	5.93	0.64	376.49	1.65	2795.23	165.01	139.61	4.08	0.64	0.31	0.53	
13	4.08	3.77	0.64	417.15	1.37	967.77	476.41	139.61	4.08	0.64	0.31	0.31	
14	4.08	3.47	0.46	205.65	0.64	756.28	195.93	139.61	4.08	0.64	0.31	0.31	
15	4.08	3.47	0.11	16.59	0.64	975.48	288.52	139.61	4.08	0.64	0.31	0.29	
16	4.40	3.47	0.99	150.50	0.87	1182.83	314.26	139.61	3.18	0.64	0.31	0.31	
17	7.83	1.94	32.25	225.50	8.32	1424.65	795.33	139.61	1.79	0.64	0.26	0.46	
18	6.86	0.64	18.42	228.86	19.45	1651.85	636.43	136.96	1.94	0.64	0.15	0.34	
19	4.08	0.64	8.32	96.66	116.31	1264.40	528.78	116.31	2.62	0.99	0.11	0.53	
20	3.47	0.64	8.32	58.18	53.22	983.22	496.66	59.91	2.09	3.77	0.14	0.53	
21	2.62	0.64	6.39	108.82	53.22	539.61	368.01	37.81	1.79	2.35	0.39	0.14	
22	2.35	0.64	7.83	136.96	59.91	692.47	436.65	37.81	1.79	4.08	0.31	0.12	
23	3.47	0.64	8.32	49.98	61.66	967.77	736.97	40.68	1.79	2.62	0.31	0.15	
24	3.77	0.64	6.86	51.59	39.24	3129.14	1029.97	58.18	1.79	2.62	0.31	0.76	
25	3.77	0.64	4.08	53.22	70.59	2884.71	1093.26	80.11	1.79	2.09	0.31	0.57	
26	3.18	0.64	4.08	54.86	222.16	2224.47	749.83	113.80	1.79	1.51	0.26	0.36	
27	1.79	0.64	4.08	58.18	150.50	3576.22	624.17	80.11	1.79	0.72	0.10	0.21	
28	2.35	0.64	4.08	37.81	180.03	3269.10	512.65	53.22	1.79	0.87	0.06	0.15	
29	2.62	0.64	4.08	36.40	189.52	2795.23	225.50	53.22	1.24	0.76		0.10	
30	2.62	0.64	4.08	35.00	242.43	1405.18	446.50	53.22	0.64	0.64		0.03	
31		0.64		35.00	142.28		1191.82		0.64	0.64		0.02	
Total	94.14	267.03	131.07	3234.09	1733.71	38438.48	17206.17	6634.51	313.72	35.18	9.79	7.05	68104.94 Tonday
Mean	3.14	8.61	4.37	104.33	55.93	1281.28	555.04	221.15	10.12	1.13	0.35	0.23	186.59 Ton/day
Max	7.83	123.94	32.25	466.38	242.43	3576.22	1191.82	884.09	49.98	4.08	0.87	0.76	3576.22 Ton/day
Min	1.65	0.64	0.11	0.64	0.64	33.62	165.01	37.81	0.64	0.64	0.06	0.02	0.02 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

## Ping River at Ban Cho Lae , Chiang Mai (P.75)

Lat 19 - 08 - 51 N Long 99 - 00 - 26 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Cho Lae	<b>Amphoe</b> Mae Teang	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	2,920 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.7174		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.4777 QW^{1.51330}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.52	4.50	2.32	3.89	7.23	8.04	44.73	18.99	4.81	2.32	2.32	2.12	
2	96.61	3.60	2.12	18.24	7.63	6.48	81.63	28.51	4.50	1.32	2.12	2.52	
3	5.79	4.81	1.45	2.94	8.46	7.63	63.54	22.10	4.81	1.58	2.32	2.52	
4	1.09	2.12	1.75	2.32	8.46	6.48	50.66	21.31	4.50	2.12	4.81	4.50	
5	2.32	3.37	1.75	2.52	8.88	4.81	29.59	16.82	4.19	2.12	4.81	15.48	
6	3.60	5.46	3.89	2.94	4.19	5.13	19.75	12.92	3.89	2.12	2.72	6.48	
7	5.13	7.63	4.19	5.13	5.13	14.18	14.18	11.11	4.19	12.31	2.94	1.93	
8	27.45	3.37	4.19	7.23	4.50	8.46	10.65	11.11	3.37	8.88	2.94	2.52	
9	39.06	3.37	5.13	9.75	3.89	8.46	9.32	10.20	3.60	4.81	2.72	2.72	
10	5.46	4.81	4.81	11.71	3.60	9.75	7.63	9.75	3.37	4.81	2.52	2.52	
11	1.93	4.19	8.04	11.71	3.89	10.20	8.88	8.88	3.15	4.50	6.13	6.48	
12	1.58	4.81	7.23	9.75	3.89	9.32	11.71	8.04	3.15	2.32	6.13	10.20	
13	1.75	4.81	4.50	11.11	3.37	8.88	11.71	10.65	3.60	1.93	1.93	4.81	
14	1.93	3.60	4.81	7.63	3.60	8.88	8.46	19.75	3.15	4.81	1.93	2.32	
15	23.71	2.94	5.46	6.13	3.37	11.71	8.46	9.75	3.15	4.19	2.32	2.32	
16	26.40	2.32	6.13	8.46	52.21	22.10	10.20	8.46	3.37	1.09	2.52	2.72	
17	3.60	1.75	9.32	10.65	50.66	43.29	16.82	7.23	3.15	3.89	2.12	2.32	
18	1.20	1.58	16.15	7.63	16.82	36.33	17.50	7.63	2.94	3.37	6.13	7.63	
19	2.52	1.75	9.75	7.23	8.46	74.14	12.92	7.23	2.32	5.46	10.20	14.18	
20	2.32	2.12	4.19	12.31	11.11	39.06	14.18	7.23	2.72	6.83	5.79	5.13	
21	2.32	2.12	3.15	11.71	8.88	29.59	13.55	6.48	2.72	5.46	2.94	1.58	
22	1.93	7.63	3.60	7.63	6.83	25.36	15.48	5.79	3.60	4.19	3.15	1.93	
23	1.75	6.83	3.89	12.31	6.48	63.54	74.14	5.79	3.15	3.60	3.60	1.45	
24	1.58	1.58	3.37	10.65	5.79	63.54	85.46	6.48	2.72	3.37	2.52	1.32	
25	2.12	1.93	3.15	11.11	6.48	27.45	79.74	6.48	2.52	3.60	6.83	10.20	
26	1.58	1.93	2.52	7.23	7.23	23.71	49.15	6.13	2.52	3.37	10.65	21.31	
27	2.72	1.93	1.93	7.63	6.83	50.66	30.68	6.48	2.12	2.52	4.50	6.83	
28	5.13	2.32	2.52	8.04	8.88	103.52	32.90	4.81	2.52	6.48	1.75	1.93	
29	4.50	2.52	2.52	6.48	14.18	81.63	21.31	3.60	2.94	4.81		1.75	
30	4.50	2.52	2.72	6.13	11.71	55.37	16.82	4.81	2.52	2.12		3.15	
31		2.32		5.79	9.75		13.55		2.32	1.75		3.60	
Total	302.10	106.54	136.55	253.99	312.39	867.70	885.30	314.52	101.58	122.05	111.36	156.47	3670.55 Tonday
Mean	10.07	3.44	4.55	8.19	10.08	28.92	28.56	10.48	3.28	3.94	3.98	5.05	10.06 Ton/day
Max	96.61	7.63	16.15	18.24	52.21	103.52	85.46	28.51	4.81	12.31	10.65	21.31	103.52 Ton/day
Min	1.09	1.58	1.45	2.32	3.37	4.81	7.63	3.60	2.12	1.09	1.75	1.32	1.09 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

Lat 18 - 08 - 26 N Long 98 - 53 - 45 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	Amphoe Li	Changwat Lamphun
<b>Drainage Area</b>	1,544 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	29		
<b>R-Square</b>	0.9452		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.8257 QW^{1.54370}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	1.45	1.20	0.87	6.17	9.45	147.21	65.23	3.77	1.50	1.24	1.20	
2	0.01	2.42	1.20	0.83	5.32	6.60	67.83	43.51	3.77	2.12	1.24	1.15	
3	0.00	1.71	1.15	0.83	4.92	13.76	215.34	31.52	3.41	1.50	1.24	1.20	
4	0.00	1.39	1.20	0.79	4.52	7.98	97.55	26.30	3.41	1.39	1.20	1.29	
5	0.00	1.20	1.15	0.75	4.14	21.43	55.20	22.58	3.41	1.39	1.20	1.24	
6	0.00	1.20	1.15	0.75	3.77	21.43	31.52	19.13	3.41	1.39	1.29	1.20	
7	0.00	1.29	1.15	0.83	3.07	20.23	30.15	11.80	3.41	1.39	1.24	1.20	
8	0.00	1.24	1.15	0.83	2.74	67.83	26.30	13.76	3.07	1.45	1.24	1.20	
9	0.00	1.15	1.15	0.87	2.42	696.06	23.82	11.80	2.74	1.45	1.29	1.15	
10	0.00	1.10	1.24	0.92	2.12	5711.07	21.43	11.80	2.42	1.39	1.24	1.15	
11	0.02	1.61	1.20	1.10	2.12	2416.20	36.98	13.76	2.42	1.34	1.15	1.24	
12	1.10	2.74	1.20	1.20	2.12	639.74	19.13	14.81	2.42	1.34	1.10	1.15	
13	1.15	2.12	1.24	1.29	2.12	297.17	34.88	10.89	2.42	1.34	1.10	1.15	
14	0.92	1.83	1.24	1.29	2.12	123.72	31.52	9.95	2.12	1.34	1.10	1.05	
15	0.79	1.77	1.24	1.29	1.83	73.14	23.82	8.95	1.83	1.34	1.20	0.75	
16	0.71	1.61	1.24	3.07	2.12	411.76	26.30	8.46	1.77	1.34	1.20	0.75	
17	0.71	1.50	1.29	25.02	2.42	777.68	57.65	6.60	1.77	1.39	1.20	0.87	
18	0.75	1.29	1.24	23.82	3.07	419.96	89.32	9.45	1.71	1.39	1.20	0.83	
19	0.87	1.29	1.20	19.13	2.42	215.34	65.23	7.98	1.71	1.39	1.29	0.87	
20	0.92	1.24	1.20	17.98	2.42	85.36	85.36	7.05	1.71	1.66	1.29	0.87	
21	0.92	1.24	1.10	14.81	2.42	78.58	55.20	7.51	1.71	2.12	1.20	1.20	
22	0.87	1.15	1.05	10.89	2.42	318.96	48.06	7.05	1.71	1.50	1.45	1.10	
23	0.75	1.15	1.05	9.45	2.74	2280.44	110.42	5.74	1.66	2.74	1.24	1.10	
24	0.67	1.10	1.01	6.60	2.74	3995.97	171.97	5.74	1.66	3.07	1.45	1.10	
25	0.67	1.10	1.01	6.17	2.74	1881.30	114.75	6.17	1.66	2.74	1.34	1.05	
26	0.63	1.10	0.96	5.32	3.77	1844.12	60.14	5.74	1.61	1.77	1.29	1.01	
27	0.55	1.29	0.96	4.92	3.77	1391.00	36.98	5.74	1.55	1.77	1.29	1.01	
28	1.55	1.45	0.96	5.74	3.41	2258.60	28.87	5.32	1.66	1.66	1.24	1.01	
29	1.83	1.39	0.96	9.45	3.77	837.90	36.98	4.52	1.61	1.55		1.01	
30	1.50	1.34	0.92	7.98	7.98	364.32	41.29	4.92	1.55	1.45		0.96	
31		1.20		6.17	8.95		16.92		1.45	1.29		0.96	
Total	17.90	44.66	34.01	190.96	106.66	27287.10	1908.12	413.78	70.53	50.50	34.75	33.02	30191.99 Tonday
Mean	0.60	1.44	1.13	6.16	3.44	909.57	61.55	13.79	2.28	1.63	1.24	1.07	82.72 Ton/day
Max	1.83	2.74	1.29	25.02	8.95	5711.07	215.34	65.23	3.77	3.07	1.45	1.29	5711.07 Ton/day
Min	0.00	1.10	0.92	0.75	1.83	6.60	16.92	4.52	1.45	1.29	1.10	0.75	0.00 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)**

Lat 18 - 26 - 05 N Long 99 - 05 - 08 E

Location : on left bank at the bridge on road.

	<b>Ban</b>	<b>Sop Mae Sapuad</b>	<b>Amphoe</b>	<b>Mae Tha</b>	<b>Changwat</b>	<b>Lamphun</b>
<b>Drainage Area</b>	552	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2001-Cont'd					
<b>Actual Measurement</b>	2001-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	20					
<b>R-Square</b>	0.9266					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 6.3679 QW^{1.80800}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.56	0.18	0.08	3.17	29.62	106.53	569.06	1.88	0.00	0.00	0.00	
2	0.00	1.88	0.18	0.10	2.30	16.98	86.38	79.85	1.69	0.00	0.00	0.00	
3	0.00	0.23	0.18	0.10	2.53	8.59	569.06	46.41	1.69	0.00	0.00	0.00	
4	0.00	0.18	0.23	0.10	2.30	11.10	121.14	46.41	1.50	0.00	0.00	0.00	
5	0.00	0.07	1.00	0.10	2.30	13.90	46.41	27.15	1.00	0.00	0.00	0.00	
6	0.00	0.07	1.16	0.14	1.88	32.18	40.44	16.98	0.64	0.00	0.00	0.00	
7	0.00	0.07	1.16	3.88	1.88	62.28	13.90	9.81	0.56	0.00	0.00	0.00	
8	0.00	0.07	1.33	0.86	1.88	106.53	6.37	7.44	0.56	0.00	0.00	0.00	
9	0.00	0.07	1.88	0.56	1.88	1213.19	5.91	20.32	0.72	0.00	0.00	0.00	
10	0.00	0.07	1.50	0.56	1.88	1644.22	8.59	7.44	0.86	0.00	0.00	0.00	
11	0.00	0.07	0.86	1.50	2.09	2028.76	2.84	5.05	1.00	0.00	0.00	0.00	
12	0.00	0.10	0.41	34.84	2.09	198.93	3.88	5.48	1.33	0.00	0.00	0.00	
13	0.00	0.10	0.41	20.32	1.69	56.66	20.32	4.65	1.33	0.00	0.00	0.00	
14	0.00	0.10	0.56	15.40	1.88	409.26	7.44	4.25	1.33	0.00	0.00	0.00	
15	0.00	0.08	0.56	3.17	3.17	246.22	5.48	3.52	1.33	0.00	0.00	0.00	
16	0.00	0.10	0.56	4.65	8.59	121.14	18.62	3.52	1.33	0.00	0.00	0.00	
17	0.00	0.10	0.41	0.64	16.98	106.53	73.89	3.17	0.00	0.00	0.00	0.00	
18	0.00	0.10	0.41	0.23	27.15	99.73	9.81	3.17	0.00	0.00	0.00	0.00	
19	0.00	0.10	0.35	0.56	11.10	136.58	5.48	3.52	0.00	0.00	0.00	0.00	
20	0.00	0.10	0.35	7.44	11.10	152.85	5.05	3.17	0.00	0.00	0.00	0.00	
21	0.00	0.10	0.35	12.47	7.44	543.60	5.05	3.17	0.00	0.00	0.00	0.00	
22	0.00	0.10	0.29	37.59	8.59	704.11	3.52	2.84	0.00	0.00	0.00	0.00	
23	0.00	0.18	0.23	18.62	6.37	648.55	56.66	2.53	0.00	0.00	0.00	0.00	
24	0.00	0.18	0.23	15.40	12.47	271.54	92.76	2.30	0.00	0.00	0.00	0.00	
25	0.00	0.18	0.23	11.10	222.01	409.26	22.50	2.30	0.00	0.00	0.00	0.00	
26	0.00	0.18	0.23	5.91	222.01	595.04	13.90	2.09	0.00	0.00	0.00	0.00	
27	0.00	0.18	0.23	5.48	121.14	1258.05	6.37	2.30	0.00	0.00	0.00	0.00	
28	0.00	0.18	0.18	4.25	187.82	409.26	8.59	2.09	0.00	0.00	0.00	0.00	
29	0.00	0.18	0.08	4.25	430.21	169.93	5.91	1.88	0.00	0.00		0.00	
30	0.00	0.18	0.08	3.88	169.93	99.73	1971.62	2.09	0.00	0.00		0.00	
31		0.18		3.52	152.85		169.93		0.00	0.00		0.00	
<b>Total</b>	0.00	6.04	15.81	217.70	1648.68	11804.32	3514.35	893.96	18.75	0.00	0.00	0.00	18119.61 Tonday
<b>Mean</b>	0.00	0.19	0.53	7.02	53.18	393.48	113.37	29.80	0.60	0.00	0.00	0.00	49.64 Ton/day
<b>Max</b>	0.00	1.88	1.88	37.59	430.21	2028.76	1971.62	569.06	1.88	0.00	0.00	0.00	2028.76 Ton/day
<b>Min</b>	0.00	0.07	0.08	0.08	1.69	8.59	2.84	1.88	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

## Khlung Khlung at Ban Sam Ruean , Kamphaeng Phet (P.78)

Lat 16 - 10 - 54 N Long 99 - 35 - 54 E

Location : on left bank at Ban Sam Ruean.

	<b>Ban</b> Sam Ruean	<b>Amphoe</b> Khlung Khlung	<b>Changwat</b> Kamphaeng Phet
<b>Drainage Area</b>	1,109 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.9122		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.8714 QW^{1.28000}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	11.56	0.00	0.00	4.12	904.12	582.54	773.50	0.90	0.28	0.00	5.15	
2	0.00	7.98	0.00	0.00	3.19	518.07	990.26	577.35	0.59	0.23	0.00	4.12	
3	0.00	5.15	0.00	0.00	2.27	265.03	946.98	499.34	0.46	0.18	0.00	3.38	
4	0.00	3.87	0.00	0.00	1.59	480.76	467.01	532.28	0.40	0.13	0.00	3.00	
5	0.00	3.38	0.00	0.00	1.01	1615.78	301.01	361.72	0.37	0.11	0.00	2.45	
6	0.00	2.82	0.00	0.00	0.49	1293.82	219.97	228.88	0.34	0.08	0.00	2.10	
7	1.59	2.27	0.00	0.00	0.40	613.88	619.14	149.89	0.31	0.06	0.00	1.76	
8	4.37	1.76	0.00	0.00	0.31	508.68	603.39	119.11	0.26	0.04	0.00	1.47	
9	0.43	8.69	0.00	0.00	0.28	191.03	291.03	162.24	0.20	0.03	0.00	7.98	
10	0.20	9.40	0.00	0.00	0.26	162.24	198.39	117.33	0.15	0.01	0.00	50.17	
11	0.11	6.62	0.00	0.28	0.23	624.41	155.87	97.05	0.11	0.00	0.00	29.83	
12	0.04	4.63	0.00	71.13	0.20	613.88	151.88	85.87	0.06	0.00	0.00	7.98	
13	0.03	3.87	0.00	408.88	0.26	265.03	314.43	68.52	1.01	0.00	0.00	5.96	
14	0.01	3.19	0.00	321.19	2.27	136.14	541.76	57.58	1.01	0.00	0.00	5.15	
15	0.00	3.00	0.00	120.79	7.29	88.91	284.42	45.45	0.59	0.00	1.24	4.63	
16	0.00	2.63	0.00	200.85	15.39	183.74	268.03	38.12	0.46	0.00	191.03	3.63	
17	0.00	1.93	0.00	324.58	5.96	284.42	416.87	31.24	0.43	0.00	2137.81	3.00	
18	0.00	1.35	0.00	134.20	3.87	271.29	567.00	25.04	0.40	0.00	1074.68	2.45	
19	3.00	1.01	0.00	117.33	2.27	1049.64	662.32	22.10	2.10	0.00	556.70	1.93	
20	1.59	0.49	0.00	44.52	1.59	361.72	870.61	19.24	1.12	0.00	284.42	1.47	
21	0.59	0.34	0.00	33.68	12.45	485.46	592.95	16.47	0.79	0.00	164.60	1.24	
22	0.37	0.23	0.00	31.94	11.56	2083.14	518.07	28.45	0.69	0.00	117.33	1.12	
23	0.26	0.13	0.00	27.07	4.37	1951.71	445.07	12.89	0.59	0.00	84.51	1.01	
24	0.18	0.04	0.00	22.10	3.38	1571.40	792.66	7.64	0.49	0.00	63.36	0.90	
25	0.11	0.00	0.00	17.57	3.00	1247.54	476.22	3.87	0.46	0.00	41.75	0.90	
26	0.06	0.00	0.00	13.35	3.63	1483.45	268.03	2.82	0.43	0.00	35.44	0.79	
27	0.04	0.00	0.00	9.82	3.87	3490.28	183.74	2.10	0.43	0.00	27.76	0.79	
28	0.03	0.00	0.00	6.95	4.37	3228.62	145.93	1.76	0.40	0.00	9.40	0.79	
29	0.01	0.00	0.00	4.89	117.33	2302.84	134.20	1.35	0.37	0.00		10.68	
30	9.04	0.00	0.00	4.63	1321.63	1116.94	294.35	1.12	0.34	0.00		5.68	
31		0.00		4.63	864.13		650.89		0.31	0.00		3.19	
Total	22.06	86.34	0.00	1920.38	2402.97	29393.97	13955.02	4090.32	16.57	1.15	4790.03	174.70	56853.51 Ton/day
Mean	0.74	2.79	0.00	61.95	77.52	979.80	450.16	136.34	0.53	0.04	171.07	5.64	155.76 Ton/day
Max	9.04	11.56	0.00	408.88	1321.63	3490.28	990.26	773.50	2.10	0.28	2137.81	50.17	3490.28 Ton/day
Min	0.00	0.00	0.00	0.00	0.20	88.91	134.20	1.12	0.06	0.00	0.00	0.79	0.00 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

Nam Mae Kuang at Ban Mae Wan , Chiang Mai (P.79)

Lat 18 - 57 - 53 N Long 99 - 14 - 13 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Mae Wan	<b>Amphoe</b> Doi Saket	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	135 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	31		
<b>R-Square</b>	0.8021		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.7669 QW^{1.42780}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.66	0.18	0.97	0.10	4.56	12.28	10.83	36.58	0.70	0.67	0.59	0.64	
2	1.66	0.18	0.97	0.09	4.56	8.42	11.31	28.09	0.70	0.67	0.59	0.64	
3	1.63	0.18	0.86	0.09	4.84	7.66	12.28	30.74	0.70	0.67	0.59	0.64	
4	1.63	0.18	0.59	10.41	4.84	8.04	11.31	31.88	0.70	0.67	0.59	0.64	
5	1.63	0.18	0.59	0.04	4.84	8.81	12.78	28.09	0.70	0.67	0.59	0.64	
6	1.66	0.18	0.52	0.05	4.29	8.04	26.37	25.52	0.70	0.67	0.59	0.59	
7	1.70	0.18	0.38	0.86	4.56	8.04	26.37	23.85	0.70	0.67	0.59	0.59	
8	1.70	0.18	0.32	6.00	4.29	8.42	24.68	23.02	0.70	0.67	0.59	0.59	
9	1.66	0.18	1.60	6.00	4.29	8.81	22.21	22.21	0.70	0.67	0.59	0.59	
10	1.66	0.18	1.33	5.13	4.29	8.81	22.21	22.21	0.70	0.67	0.59	0.59	
11	1.66	0.18	1.21	4.02	4.29	9.60	36.58	22.21	0.70	0.67	0.59	0.57	
12	1.66	0.18	1.33	6.00	4.56	9.20	28.09	22.21	0.70	0.67	0.59	0.54	
13	1.66	0.18	1.21	5.71	12.78	13.28	25.52	22.21	0.70	0.67	0.59	0.54	
14	1.66	0.18	1.46	5.41	6.61	15.88	23.02	22.21	0.70	0.67	0.59	0.54	
15	1.66	0.18	2.57	5.71	12.78	16.48	23.85	23.02	0.70	0.67	0.59	0.54	
16	1.66	0.18	1.73	5.71	13.79	15.88	28.09	23.85	0.70	0.67	0.59	0.52	
17	1.73	0.17	1.46	5.71	23.02	15.88	39.00	22.21	0.70	0.67	0.59	0.52	
18	1.63	0.10	1.46	5.71	12.78	10.41	30.74	22.21	0.70	0.67	0.59	0.54	
19	0.94	0.10	1.09	5.71	8.42	9.60	28.97	22.21	0.67	0.70	0.59	0.54	
20	0.52	0.10	0.86	5.41	64.15	10.83	28.09	20.89	0.67	0.70	0.59	0.54	
21	0.22	0.10	0.75	5.41	40.23	28.97	27.23	0.72	0.67	0.72	0.59	0.54	
22	0.20	0.10	0.67	5.13	30.74	10.00	27.23	0.72	0.67	0.72	0.59	0.54	
23	0.20	0.09	0.67	5.13	30.74	9.60	28.09	0.72	0.67	0.70	0.59	0.57	
24	0.20	0.09	0.59	5.13	30.74	9.60	28.97	0.72	0.67	0.70	0.59	0.57	
25	0.18	0.09	0.45	4.56	30.74	10.41	27.23	0.70	0.67	0.64	0.59	0.57	
26	0.18	0.09	0.67	4.56	28.09	10.83	26.37	0.70	0.67	0.59	0.59	0.54	
27	0.18	0.09	0.52	4.56	15.88	16.48	25.52	0.70	0.67	0.59	0.59	0.54	
28	0.18	2.57	0.38	4.56	9.20	17.09	23.85	0.70	0.67	0.57	0.59	0.54	
29	0.18	1.73	0.20	4.56	12.28	11.79	23.02	0.70	0.67	0.57		0.67	
30	0.18	1.09	0.15	4.56	8.81	10.83	22.21	0.70	0.67	0.54		0.54	
31		0.67		4.56	12.28		23.85		0.67	0.59		0.54	
Total	33.27	10.06	27.56	136.59	458.27	349.97	755.87	502.50	21.31	20.39	16.52	17.70	2350.01 Tonday
Mean	1.11	0.32	0.92	4.41	14.78	11.67	24.38	16.75	0.69	0.66	0.59	0.57	6.44 Ton/day
Max	1.73	2.57	2.57	10.41	64.15	28.97	39.00	36.58	0.70	0.72	0.59	0.67	64.15 Ton/day
Min	0.18	0.09	0.15	0.04	4.29	7.66	10.83	0.70	0.67	0.54	0.59	0.52	0.04 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Nam Mae Lai at Ban Pong Din , Chiang Mai (P.80)**

Lat 18 - 54 - 56 N Long 99 - 14 - 07 E

**Location : on left bank at the bridge on road.**

	<b>Ban Pong Din</b>	<b>Amphoe Doi Saket</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	135 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.7239		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.6682 QW^{1.40630}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	3.23	6.53	3.23	2.28	3.49	4.86	7.53	3.75	0.51	0.54	0.79	
2	0.56	6.53	4.58	3.03	2.28	3.23	5.75	4.58	3.49	0.51	0.54	0.79	
3	0.46	3.49	4.02	2.84	2.28	3.49	5.45	4.58	3.23	0.51	0.54	0.78	
4	0.46	2.65	3.75	2.84	2.28	3.49	5.15	4.58	0.63	0.49	0.54	0.78	
5	0.46	2.28	3.75	2.84	2.28	4.30	4.86	4.58	0.63	0.49	0.54	0.78	
6	0.46	2.46	4.58	2.84	2.28	4.02	4.58	4.30	0.63	0.49	0.54	0.78	
7	0.46	2.28	4.02	3.23	2.11	4.02	4.58	4.30	0.63	0.49	0.56	0.78	
8	0.46	2.28	4.30	3.23	2.11	4.02	4.86	4.02	0.63	0.48	0.61	0.76	
9	0.46	2.28	9.09	3.75	1.76	4.02	4.58	4.02	0.63	0.46	0.63	0.76	
10	0.46	2.28	5.15	3.49	1.60	4.86	4.30	4.02	0.63	0.46	0.63	0.79	
11	0.53	2.28	4.58	3.75	1.60	4.58	5.45	4.02	0.63	0.46	0.63	0.83	
12	0.53	2.28	4.58	3.75	1.44	4.58	4.58	4.02	0.63	0.46	0.63	0.89	
13	0.59	2.46	4.58	3.03	6.53	4.86	4.58	4.30	0.63	0.46	0.63	0.91	
14	0.59	4.30	4.58	3.75	7.03	5.75	4.58	4.02	0.61	0.46	0.63	0.91	
15	0.56	4.58	6.05	3.03	5.75	7.53	4.30	4.02	0.61	0.46	0.63	0.91	
16	0.56	4.58	4.58	2.65	3.03	4.86	4.30	4.02	0.59	0.46	0.63	0.91	
17	0.56	4.58	4.58	2.65	5.45	3.75	4.58	4.02	0.54	0.46	0.63	0.91	
18	0.70	4.58	4.30	2.84	10.74	4.02	4.58	4.02	0.54	0.53	0.63	0.91	
19	1.09	4.58	4.02	3.23	10.18	4.02	4.30	4.02	0.54	0.56	0.61	0.91	
20	1.01	4.30	4.02	2.84	5.45	4.58	4.02	4.02	0.54	0.70	0.59	0.89	
21	0.78	4.02	4.02	2.84	26.89	4.58	4.02	4.02	0.54	0.78	0.59	0.85	
22	0.63	4.02	4.02	2.84	5.15	4.58	4.58	4.02	0.49	0.76	0.59	0.85	
23	0.59	4.02	3.75	2.84	4.58	4.30	4.58	4.02	0.51	0.67	0.65	0.70	
24	0.56	4.02	3.23	2.65	4.58	4.58	4.58	3.75	0.51	0.59	0.89	0.59	
25	0.56	5.75	3.23	2.65	3.75	4.58	4.58	3.75	0.51	0.59	0.91	0.43	
26	0.93	5.45	3.23	2.65	4.30	4.58	5.15	3.75	0.51	0.58	0.91	0.43	
27	5.75	4.58	4.58	2.46	3.23	4.58	4.58	3.75	0.51	0.56	0.91	0.43	
28	6.05	4.86	3.23	2.28	3.03	5.45	4.58	3.75	0.51	0.56	0.91	0.43	
29	5.75	5.45	3.23	2.28	2.84	4.58	4.30	3.75	0.51	0.54		0.43	
30	3.23	6.05	3.23	2.28	2.84	4.58	4.58	3.75	0.51	0.54		0.43	
31		10.18		2.28	2.65		4.58		0.51	0.54		0.43	
Total	36.42	126.68	131.39	90.89	142.30	133.86	144.35	125.30	26.36	16.61	18.27	22.77	1015.20 Tonday
Mean	1.21	4.09	4.38	2.93	4.59	4.46	4.66	4.18	0.85	0.54	0.65	0.73	2.78 Ton/day
Max	6.05	10.18	9.09	3.75	26.89	7.53	5.75	7.53	3.75	0.78	0.91	0.91	26.89 Ton/day
Min	0.46	2.28	3.23	2.28	1.44	3.23	4.02	3.75	0.49	0.46	0.54	0.43	0.43 Tonday

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Wang at Ban Sop Win , Chiang Mai (P.82)

Lat 18 - 39 - 18 N Long 98 - 41 - 06 E

Location : on left bank at Ban Sop Win.

	Ban Sop Win	Amphoe Mae Wang	Changwat Chiang Mai
<b>Drainage Area</b>	391 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.8544		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9738 QW^{1.90520}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	6.55	2.92	1.75	5.20	16.67	115.41	76.80	13.79	9.31	4.15	2.92	
2	0.76	6.55	1.56	1.75	4.84	12.89	137.69	76.80	12.02	9.31	4.15	3.21	
3	0.64	3.82	1.56	1.75	4.84	42.31	119.39	57.44	11.18	8.72	3.82	3.21	
4	0.76	3.21	1.56	1.75	4.49	23.69	119.39	55.14	12.02	8.15	3.82	3.21	
5	1.75	2.65	1.38	1.56	4.49	25.15	55.14	48.52	12.02	8.15	3.82	3.21	
6	40.33	2.65	1.21	2.38	5.20	31.39	42.31	48.52	11.18	8.15	4.15	3.21	
7	7.60	1.95	1.05	6.55	6.06	103.87	36.50	48.52	11.18	7.60	5.20	3.82	
8	3.82	2.92	3.21	33.05	4.49	107.65	31.39	44.34	11.18	7.07	3.82	19.80	
9	3.21	4.49	20.90	16.67	4.15	327.65	26.65	42.31	11.18	7.07	3.51	5.58	
10	3.21	6.06	6.06	31.39	3.82	382.68	31.39	36.50	11.18	7.07	3.51	4.15	
11	2.65	5.20	3.51	179.98	3.51	626.83	36.50	31.39	11.18	7.07	3.21	3.51	
12	3.82	2.92	2.38	157.85	3.51	168.42	55.14	31.39	11.18	7.07	3.21	3.51	
13	8.15	2.16	2.16	33.05	2.92	79.78	48.52	26.65	10.54	7.07	3.21	3.21	
14	9.31	1.75	3.21	25.15	3.21	55.14	38.39	22.27	10.54	6.55	3.21	3.51	
15	5.58	1.75	4.15	18.73	8.72	147.61	46.41	22.27	9.91	6.55	3.21	7.07	
16	3.51	1.21	4.84	68.17	12.02	474.90	219.01	20.90	9.31	6.06	3.21	6.55	
17	4.49	1.38	7.60	33.05	9.91	179.98	432.30	20.90	9.31	6.06	3.21	3.51	
18	10.54	2.16	4.15	16.67	9.91	119.39	157.85	20.90	9.31	7.60	3.21	3.82	
19	5.20	2.16	3.21	12.02	8.15	71.00	186.23	20.90	9.31	6.55	4.84	3.82	
20	3.51	1.95	2.65	31.39	8.15	123.43	119.39	20.90	9.31	6.06	5.20	3.51	
21	3.21	1.75	2.38	22.27	8.72	96.49	89.37	20.90	9.31	7.07	4.15	3.82	
22	2.92	2.16	2.16	19.80	9.31	294.06	123.43	20.90	9.31	7.07	3.82	3.51	
23	2.65	1.95	2.92	18.73	5.58	585.42	270.20	20.90	9.31	7.07	3.51	4.49	
24	2.65	1.05	2.38	17.68	6.55	2122.81	262.46	23.69	9.31	7.07	3.21	3.51	
25	3.82	1.05	1.95	13.79	29.77	432.30	100.15	19.80	9.31	6.55	3.21	3.21	
26	2.16	1.21	1.75	12.02	62.70	2159.45	73.87	15.68	9.31	6.06	3.21	2.92	
27	4.15	1.38	1.95	12.89	20.90	1617.96	62.70	20.90	9.31	6.06	2.92	2.38	
28	8.15	3.82	1.56	11.18	46.41	508.10	65.41	19.80	9.31	6.06	2.92	2.38	
29	7.60	9.91	1.56	9.31	157.85	219.01	55.14	16.67	9.31	5.58		2.38	
30	23.69	4.49	1.56	7.60	52.89	142.61	225.87	14.72	9.31	4.84		2.38	
31		3.82		5.58	26.65		96.49		9.31	4.84		2.38	
<b>Total</b>	180.60	96.08	99.44	825.51	544.92	11298.64	3480.09	967.32	319.24	215.51	102.62	127.70	18257.67 Tonday
<b>Mean</b>	6.02	3.10	3.31	26.63	17.58	376.62	112.26	32.24	10.30	6.95	3.66	4.12	50.02 Ton/day
<b>Max</b>	40.33	9.91	20.90	179.98	157.85	2159.45	432.30	76.80	13.79	9.31	5.20	19.80	2159.45 Ton/day
<b>Min</b>	0.64	1.05	1.05	1.56	2.92	12.89	26.65	14.72	9.31	4.84	2.92	2.38	0.64 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Nam Mae Wang at Ban Phan Ton , Chiang Mai (P.84)**

Lat 18 - 35 - 29 N Long 98 - 47 - 48 E

Location : on left bank at Ban Phan Ton.

	<b>Ban</b> Phan Ton	<b>Amphoe</b> Mae Wang	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	455 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2005-Cont'd		
<b>Actual Measurement</b>	2005-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.8907		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1381 QW^{1.60940}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.85	9.19	0.20	0.20	6.35	22.07	145.14	98.65	33.07	0.34	0.18	0.18	
2	1.69	6.35	0.20	0.18	6.03	14.16	142.78	95.69	30.88	0.34	0.18	0.18	
3	1.85	5.09	0.20	0.20	4.49	36.84	145.14	95.69	30.88	0.34	0.18	0.18	
4	2.19	4.49	0.20	0.20	4.49	37.61	167.54	82.78	30.88	0.34	0.18	0.18	
5	2.89	5.39	0.18	0.18	4.79	15.06	95.69	75.92	30.88	0.34	0.18	0.18	
6	36.07	4.79	0.18	0.24	4.49	26.00	81.39	70.75	29.45	0.34	0.22	0.18	
7	9.96	0.15	0.18	15.52	4.79	181.41	77.27	75.92	24.00	0.32	0.20	0.18	
8	6.03	0.16	0.18	19.38	7.03	154.75	63.98	61.78	24.00	0.27	0.18	0.18	
9	5.39	0.18	0.40	38.39	7.03	243.33	49.92	71.91	24.66	0.27	0.18	0.18	
10	3.93	0.15	0.38	17.90	6.35	362.32	50.79	65.09	26.67	0.27	0.18	0.18	
11	4.49	0.15	0.32	157.19	7.37	579.55	59.76	56.11	23.35	0.29	0.18	0.18	
12	3.93	0.18	0.24	327.02	5.71	214.38	87.00	55.21	18.39	0.27	0.18	0.18	
13	3.14	0.18	0.25	58.84	6.35	113.98	73.23	53.42	17.41	0.18	0.18	0.18	
14	7.03	0.20	0.43	29.45	4.79	84.18	62.88	49.92	13.71	0.18	0.20	0.18	
15	9.58	0.18	0.24	22.71	5.39	112.22	58.84	48.21	0.38	0.18	0.18	0.18	
16	11.57	0.18	0.25	80.01	9.19	309.02	189.94	45.67	0.38	0.18	0.18	0.18	
17	5.39	0.16	0.27	60.69	10.36	239.93	356.85	45.67	0.38	0.20	0.18	0.18	
18	9.19	0.18	0.27	26.67	7.03	178.61	181.41	49.06	0.38	0.22	0.20	0.18	
19	7.72	0.15	0.22	29.45	5.71	92.76	159.64	45.67	0.38	0.24	0.22	0.18	
20	4.49	0.15	0.16	41.57	6.69	91.31	140.43	38.39	0.38	0.29	0.18	0.18	
21	4.49	0.18	0.16	84.18	6.03	170.28	106.98	35.31	0.38	0.29	0.18	0.18	
22	4.49	0.18	0.18	25.32	9.58	170.28	142.78	34.56	0.38	0.25	0.18	0.18	
23	4.79	0.15	0.18	34.56	5.71	565.04	265.74	35.31	0.38	0.20	0.18	0.18	
24	4.49	0.18	0.18	26.67	4.49	1605.12	291.41	45.67	0.34	0.20	0.18	0.18	
25	4.49	0.18	0.18	39.97	13.71	515.38	135.98	53.42	0.34	0.24	0.18	0.18	
26	4.49	0.18	0.18	23.35	78.63	1605.12	112.22	37.61	0.34	0.24	0.18	0.18	
27	4.49	0.18	0.20	15.99	20.92	1470.18	91.31	43.19	0.34	0.20	0.18	0.18	
28	5.39	0.18	0.16	11.57	22.71	418.77	98.65	46.51	0.34	0.18	0.18	0.18	
29	8.45	0.20	0.16	11.57	133.88	236.81	89.86	46.51	0.34	0.18		0.18	
30	26.67	0.18	0.20	10.76	71.91	159.64	189.94	44.84	0.34	0.18		0.18	
31		0.18		11.57	30.16		147.52		0.34	0.18		0.20	
Total	210.62	39.62	6.73	1221.50	522.16	10026.11	4062.01	1704.44	364.37	7.74	5.18	5.60	18176.08 Tonday
Mean	7.02	1.28	0.22	39.40	16.84	334.20	131.03	56.81	11.75	0.25	0.18	0.18	49.80 Ton/day
Max	36.07	9.19	0.43	327.02	133.88	1605.12	356.85	98.65	33.07	0.34	0.22	0.20	1605.12 Ton/day
Min	1.69	0.15	0.16	0.18	4.49	14.16	49.92	34.56	0.34	0.18	0.18	0.18	0.15 Ton/day

## WATER YEAR : 2021

## PING RIVER BASIN

## Nam Mae Taeng at Ban Mueang Kud, Chiang Mai (P.92)

Lat 19 - 13 - 17 N Long 98 - 50 - 55 E

Location : on left bank at Ban Mueang Kud.

	<b>Ban</b>	<b>Mueang Kud</b>	<b>Amphoe</b>	<b>Mae Taeng</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	1,803	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2011-Cont'd					
<b>Actual Measurement</b>	2011-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	29					
<b>R-Square</b>	0.7165					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 1.0091 QW^{2.02660}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.10	131.34	124.45	56.07	46.22	83.18	971.48	420.02	60.21	14.62	11.91	0.33	
2	38.10	455.02	88.22	78.29	52.07	64.50	1335.26	939.89	46.22	11.91	8.73	1.72	
3	38.10	153.15	49.10	60.21	40.72	60.21	1288.88	736.97	43.42	11.91	10.66	1.72	
4	38.10	111.23	46.22	56.07	56.07	98.77	1103.17	939.89	40.72	14.62	5.46	2.17	
5	40.72	104.91	188.90	56.07	33.13	64.50	590.52	570.07	40.72	14.62	3.51	1.51	
6	281.64	104.91	168.63	46.22	35.57	83.18	403.26	355.07	38.10	11.91	17.61	1.14	
7	199.47	93.42	160.79	60.21	33.13	1288.88	324.66	309.98	35.57	10.66	35.57	0.97	
8	138.42	324.66	104.91	98.77	35.57	683.73	256.70	221.48	35.57	9.67	13.23	1.51	
9	111.23	269.02	295.63	221.48	30.78	491.91	210.33	244.67	38.10	9.67	9.67	1.72	
10	56.07	269.02	473.28	510.90	33.13	1794.58	199.47	232.93	33.13	8.73	5.46	1.32	
11	40.72	111.23	455.02	710.10	33.13	908.82	199.47	199.47	28.51	8.73	4.11	0.82	
12	52.07	98.77	199.47	1137.42	35.57	403.26	188.90	256.70	33.13	7.84	4.76	1.72	
13	49.10	60.21	98.77	188.90	35.57	244.67	178.62	339.69	35.57	7.00	2.17	1.14	
14	56.07	38.10	138.42	188.90	43.42	178.62	160.79	221.48	35.57	6.20	2.17	1.51	
15	88.22	40.72	188.90	83.18	73.54	355.07	178.62	178.62	35.57	6.20	1.94	5.46	
16	153.15	38.10	178.62	632.51	473.28	657.87	339.69	160.79	38.10	16.08	1.72	1.94	
17	88.22	38.10	145.69	256.70	339.69	971.48	908.82	160.79	35.57	38.10	1.94	1.32	
18	78.29	38.10	199.47	244.67	295.63	2687.11	437.12	153.15	33.13	26.33	2.17	1.32	
19	73.54	49.10	138.42	93.42	199.47	2165.48	269.02	153.15	28.51	17.61	7.00	1.14	
20	64.50	40.72	104.91	93.42	455.02	549.98	244.67	111.23	24.45	20.89	30.78	0.74	
21	64.50	35.57	68.95	188.90	309.98	764.34	232.93	98.77	26.33	20.89	4.76	0.74	
22	46.22	30.78	73.54	49.10	188.90	1137.42	256.70	83.18	22.63	17.61	2.68	0.82	
23	43.42	28.51	64.50	46.22	131.34	2296.96	5004.80	78.29	16.08	14.62	2.42	1.94	
24	43.42	33.13	49.10	68.95	98.77	1207.50	2364.17	78.29	17.61	11.91	0.82	7.00	
25	60.21	199.47	49.10	64.50	256.70	1003.61	1036.27	73.54	17.61	14.62	0.74	5.46	
26	49.10	309.98	49.10	56.07	244.67	1914.30	570.07	78.29	17.61	16.08	0.55	1.72	
27	138.42	295.63	68.95	64.50	145.69	2856.43	339.69	73.54	17.61	16.08	0.43	1.14	
28	124.45	256.70	49.10	49.10	131.34	2604.41	403.26	73.54	16.08	14.62	0.12	0.55	
29	88.22	232.93	60.21	33.13	221.48	1630.97	324.66	64.50	16.08	13.23		2.17	
30	104.91	111.23	52.07	43.42	153.15	1172.19	355.07	56.07	16.08	13.23		1.94	
31		168.63		43.42	111.23		309.98		14.62	13.23		1.72	
Total	2486.70	4272.39	4132.44	5580.82	4373.96	30423.93	20987.05	7664.05	938.21	439.42	193.09	56.42	81548.48 Tonday
Mean	82.89	137.82	137.75	180.03	141.10	1014.13	677.00	255.47	30.26	14.17	6.90	1.82	223.42 Ton/day
Max	281.64	455.02	473.28	1137.42	473.28	2856.43	5004.80	939.89	60.21	38.10	35.57	7.00	5004.80 Ton/day
Min	38.10	28.51	46.22	33.13	30.78	60.21	160.79	56.07	14.62	6.20	0.12	0.33	0.12 Ton/day

**WATER YEAR : 2021****PING RIVER BASIN****Nam Mae Taeng at Ban Huai Pa Cang, Chiang Mai (P.92A)**

Lat 19 - 10 - 45 N Long 98 - 54 - 59 E

Location : on left bank at Ban Huai Pa Cang.

	<b>Ban</b>	<b>Huai Pa Cang</b>	<b>Amphoe</b>	<b>Mae Taeng</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	1,873	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2017-Cont'd					
<b>Actual Measurement</b>	2017-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	27					
<b>R-Square</b>	0.7318					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 3.4394 QW^{1.51620}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.22	51.25	61.51	19.12	44.35	82.02	928.24	333.76	126.69	26.03	26.03	26.03	
2	14.22	51.25	44.35	26.03	44.35	70.06	824.08	782.02	117.72	26.03	26.03	23.18	
3	14.22	117.72	39.95	26.03	44.35	78.97	852.53	598.98	117.72	23.18	26.03	23.18	
4	14.22	35.70	33.64	24.59	44.35	153.38	928.24	554.84	113.93	20.44	26.03	20.44	
5	18.10	33.64	48.91	19.12	44.35	88.56	439.55	480.41	102.79	20.44	39.95	20.44	
6	46.62	32.07	72.99	20.44	58.75	75.96	333.76	307.87	102.79	18.10	58.75	20.44	
7	95.58	37.81	82.02	26.03	44.35	75.96	262.83	270.17	102.79	18.10	158.93	20.44	
8	61.51	292.59	82.02	29.00	44.35	449.65	227.62	241.23	102.79	17.10	67.17	18.10	
9	39.95	78.97	131.89	188.44	44.35	522.49	188.44	214.28	95.58	14.22	51.25	18.10	
10	30.52	194.80	220.92	324.64	42.13	459.82	153.38	227.62	82.02	14.22	32.07	18.10	
11	26.03	88.56	241.23	324.64	35.70	333.76	188.44	207.72	75.96	14.22	26.03	17.10	
12	26.03	85.11	121.57	1148.49	33.64	895.82	201.22	220.92	70.06	14.22	26.03	14.22	
13	26.03	32.07	67.17	248.36	33.64	576.76	170.21	255.56	70.06	14.22	26.03	14.22	
14	30.52	24.59	58.75	220.92	35.70	315.61	147.91	207.72	70.06	17.10	26.03	14.22	
15	113.93	20.44	92.05	106.46	56.03	175.95	126.69	201.22	70.06	30.52	26.03	16.12	
16	26.03	17.10	78.97	194.80	459.82	164.54	137.16	170.21	70.06	53.62	23.18	27.50	
17	26.03	14.22	147.91	361.62	390.24	270.17	576.76	147.91	51.25	117.72	27.50	20.44	
18	29.00	14.22	92.05	207.72	307.87	399.94	361.62	147.91	44.35	92.05	51.25	21.80	
19	33.64	15.16	61.51	102.79	292.59	610.19	270.17	147.91	44.35	78.97	92.05	26.03	
20	29.00	17.10	39.95	85.11	342.96	1113.61	234.39	147.91	44.35	113.93	70.06	26.03	
21	29.00	14.22	30.52	110.17	361.62	1148.49	255.56	147.91	44.35	95.58	70.06	26.03	
22	26.03	15.16	26.03	214.28	234.39	480.41	1386.99	147.91	39.95	78.97	61.51	27.50	
23	26.03	21.80	26.03	142.50	182.16	565.76	1311.32	147.91	37.81	70.06	32.07	32.07	
24	26.03	29.00	26.03	117.72	110.17	740.71	824.08	147.91	32.07	70.06	29.00	32.07	
25	23.18	64.32	23.18	95.58	147.91	824.08	782.02	147.91	29.00	70.06	26.03	30.52	
26	24.59	92.05	21.80	78.97	207.72	754.39	380.62	131.89	26.03	64.32	26.03	26.03	
27	44.35	147.91	26.03	72.99	147.91	533.20	333.76	142.50	26.03	44.35	26.03	26.03	
28	78.97	158.93	21.80	82.02	137.16	647.35	270.17	126.69	26.03	42.13	26.03	27.50	
29	61.51	188.44	14.22	61.51	110.17	1219.35	270.17	126.69	26.03	35.70		30.52	
30	44.35	106.46	14.22	44.35	175.95	1201.31	361.62	126.69	26.03	30.52		27.50	
31		64.32		44.35	121.57		361.62		26.03	26.03		30.52	
Total	1099.44	2156.98	2049.22	4768.79	4380.60	15028.27	14091.17	7260.18	2014.74	1372.21	1203.19	722.42	56147.21 Tonday
Mean	36.65	69.58	68.31	153.83	141.31	500.94	454.55	242.01	64.99	44.26	42.97	23.30	153.83 Ton/day
Max	113.93	292.59	241.23	1148.49	459.82	1219.35	1386.99	782.02	126.69	117.72	158.93	32.07	1386.99 Ton/day
Min	14.22	14.22	14.22	19.12	33.64	70.06	126.69	126.69	26.03	14.22	23.18	14.22	14.22 Ton/day

**WATER YEAR : 2021****WANG RIVER BASIN****Wang River at Setuwaree Bridge , Lampang (W.1C)**

Lat 18 - 17 - 59 N Long 99 - 30 - 40 E

Location : on left bank at the bridge.

	<b>Ban</b> Setuwaree Bridge	<b>Amphoe</b> Mueang	<b>Changwat</b> Lampang
<b>Drainage Area</b>	3,434 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.7187		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.2547 QW^{0.88320}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.99	0.09	0.88	1.03	1.28	1.35	0.18	0.31	0.20	0.42	0.62	
2	0.08	1.73	0.12	1.10	0.76	1.24	1.31	0.17	0.33	0.22	0.40	0.59	
3	0.19	1.52	0.21	1.10	0.90	0.70	0.21	0.20	0.23	0.23	0.31	0.47	
4	0.45	0.62	0.96	0.63	1.00	0.36	0.21	0.16	0.20	0.28	0.42	0.35	
5	0.42	0.57	0.67	1.03	1.14	0.24	0.23	0.15	0.42	0.38	0.47	0.40	
6	0.08	2.03	0.21	1.71	0.96	0.26	0.20	0.14	0.49	0.47	0.54	0.40	
7	0.09	1.88	0.43	1.45	1.58	0.24	0.19	0.13	0.28	0.52	0.62	0.33	
8	9.56	0.92	0.20	1.90	1.14	0.21	0.19	0.78	0.22	0.57	0.52	0.66	
9	8.72	1.09	0.43	1.76	1.28	0.43	0.25	2.84	0.23	0.52	0.38	2.19	
10	5.19	2.29	0.43	1.17	1.80	0.90	1.54	1.35	0.69	0.49	0.33	3.20	
11	4.01	0.82	0.36	0.88	1.99	0.82	1.14	3.14	2.29	0.52	0.26	2.55	
12	3.01	0.22	0.43	1.62	2.08	0.36	0.40	3.20	3.32	0.52	0.20	0.62	
13	2.84	0.22	0.38	1.17	2.08	0.19	0.36	3.32	3.01	0.47	0.19	0.57	
14	2.29	0.23	0.20	1.17	2.46	0.17	0.21	2.13	1.42	0.40	0.18	0.57	
15	2.50	1.13	0.45	0.79	2.65	2.03	0.20	3.56	0.22	0.45	0.19	0.69	
16	1.58	1.83	0.33	1.17	2.17	2.34	0.19	3.62	0.20	0.45	0.20	0.64	
17	2.84	0.19	0.73	1.90	2.61	2.44	0.21	3.62	0.20	0.47	0.23	0.62	
18	1.52	0.16	0.24	1.40	4.90	2.50	0.20	3.94	0.19	0.52	0.69	0.59	
19	2.34	0.15	0.25	1.03	2.04	2.24	0.17	4.20	0.19	0.71	2.13	0.59	
20	2.34	0.13	0.49	2.95	1.76	2.24	0.16	4.14	0.18	0.99	3.75	0.62	
21	1.52	0.12	0.35	2.89	1.67	2.39	0.16	2.78	0.16	1.35	3.20	0.82	
22	2.61	0.19	0.42	2.22	0.61	2.50	0.17	1.35	0.16	3.56	4.20	2.61	
23	2.39	0.28	0.43	1.24	0.31	3.14	0.29	2.78	0.28	3.69	3.14	3.32	
24	0.99	0.12	0.25	1.36	0.26	3.14	0.42	2.78	0.33	1.73	3.88	2.73	
25	0.52	0.07	0.27	1.00	3.55	6.11	0.27	2.67	0.35	0.40	2.08	4.48	
26	0.59	0.07	0.43	1.14	2.17	9.75	0.21	1.06	0.33	0.42	0.82	5.19	
27	1.73	0.07	0.23	1.31	0.85	4.55	0.20	0.35	0.23	0.52	0.69	4.69	
28	2.24	0.07	0.20	1.03	0.63	2.84	0.19	0.35	0.19	0.57	0.64	4.41	
29	2.67	0.07	0.49	0.76	1.36	2.08	0.17	0.33	0.19	0.54		4.76	
30	2.34	0.08	0.63	1.24	1.80	1.63	0.16	0.33	0.19	0.49		4.62	
31		0.08		0.96	2.08		0.19		0.19	0.40		4.48	
<b>Total</b>	67.72	19.94	11.31	41.96	51.62	59.32	11.35	55.75	17.22	23.05	31.08	59.38	449.70 Tonday
<b>Mean</b>	2.26	0.64	0.38	1.35	1.67	1.98	0.37	1.86	0.56	0.74	1.11	1.92	1.23 Ton/day
<b>Max</b>	9.56	2.29	0.96	2.95	4.90	9.75	1.54	4.20	3.32	3.69	4.20	5.19	9.75 Ton/day
<b>Min</b>	0.07	0.07	0.09	0.63	0.26	0.17	0.16	0.13	0.16	0.20	0.18	0.33	0.07 Ton/day

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Don Chai , Lampang (W.3A)

Lat 17 - 38 - 29 N Long 99 - 13 - 55 E

Location : on right bank about 30 meters upstream from Siriyong Bridge.

	Ban Don Chai	Amphoe Thoen	Changwat Lampang
<b>Drainage Area</b>	8,929 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.8734		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.1410 QW^{1.96320}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	1.03	0.66	0.19	0.96	894.29	1076.18	1876.48	6.89	0.75	1.37	4.01	
2	0.07	1.03	0.55	0.17	0.82	953.08	857.10	1409.60	7.36	0.65	1.37	3.27	
3	0.05	2.99	0.45	0.17	0.92	953.08	719.77	993.30	7.36	0.55	1.23	2.61	
4	0.04	9.11	0.40	0.17	0.96	719.77	660.76	646.83	6.89	0.55	1.37	2.02	
5	0.04	17.22	0.50	0.17	0.92	503.21	478.99	443.77	5.99	0.65	1.37	1.68	
6	0.04	7.44	0.47	0.14	0.82	274.86	324.71	342.23	4.75	0.65	1.23	1.37	
7	0.04	10.01	0.45	11.93	0.96	455.37	251.46	259.15	4.37	0.55	0.98	1.10	
8	0.13	11.93	0.92	32.12	0.99	689.06	200.85	181.79	4.75	0.49	0.55	0.98	
9	0.79	12.95	1.18	43.81	0.96	7944.68	154.96	131.02	4.37	0.44	0.86	0.86	
10	371.33	7.44	0.96	10.01	0.99	17760.07	123.23	104.76	3.51	0.34	0.86	1.68	
11	236.43	3.75	0.96	32.12	1.03	13107.28	119.42	94.39	3.27	0.25	0.86	1.23	
12	23.83	1.46	0.92	10.95	0.99	7767.74	953.08	75.24	2.61	0.29	0.98	0.75	
13	6.67	1.22	0.82	17.22	1.10	2981.81	2461.73	56.63	2.21	1.23	0.49	0.65	
14	2.01	1.72	0.85	18.77	2.32	1486.77	1941.29	49.77	2.02	2.02	0.86	0.55	
15	1.06	1.18	0.79	67.03	5.25	1702.42	1055.16	49.77	2.61	1.68	1.52	0.65	
16	0.92	1.06	0.72	259.15	23.83	9353.20	646.83	38.00	2.61	1.52	1.52	0.65	
17	0.99	0.96	0.99	11.93	73.44	8579.34	2108.03	34.62	3.51	1.37	2.40	0.65	
18	0.96	0.85	0.96	2.64	37.74	4908.80	3825.34	29.85	2.61	1.52	4.75	0.49	
19	0.99	0.79	0.75	1.06	109.78	2734.08	1786.98	25.61	2.02	1.37	7.36	0.55	
20	1.03	0.99	0.72	4.60	282.88	1844.48	913.68	24.38	1.68	1.84	8.36	0.49	
21	0.92	0.89	0.75	3.36	187.41	804.23	579.36	28.34	1.23	1.84	8.36	0.55	
22	0.72	0.79	0.89	7.44	214.74	4415.86	515.53	26.87	1.10	2.21	7.36	0.55	
23	0.66	0.72	0.69	18.77	160.16	18949.42	839.29	23.18	1.10	2.21	26.87	2.21	
24	0.75	0.66	0.52	22.08	67.03	26048.37	993.30	17.63	1.10	1.84	16.61	5.99	
25	0.82	0.58	0.33	25.64	25.64	16608.57	1309.84	13.99	1.23	1.52	16.61	7.36	
26	0.75	0.47	0.29	14.31	23.83	10957.46	857.10	14.79	3.04	1.84	13.99	7.36	
27	0.75	0.63	0.25	6.67	592.56	11648.31	503.21	15.62	1.52	3.04	6.89	6.89	
28	0.92	4.60	0.24	4.60	467.11	7944.68	324.71	17.63	0.55	2.02	5.56	7.85	
29	1.03	0.79	0.20	2.32	351.80	4196.32	266.95	11.71	0.34	1.68		14.79	
30	1.10	0.85	0.17	1.22	579.36	2074.15	243.89	8.36	0.65	1.52		11.71	
31		0.92		1.18	769.89		619.40		0.75	0.98		10.31	
Total	655.94	107.03	19.35	631.94	3987.19	189260.76	27712.13	7045.31	94.00	39.41	142.54	101.81	229797.41 Tonday
Mean	21.86	3.45	0.64	20.39	128.62	6308.69	893.94	234.84	3.03	1.27	5.09	3.28	629.58 Ton/day
Max	371.33	17.22	1.18	259.15	769.89	26048.37	3825.34	1876.48	7.36	3.04	26.87	14.79	26048.37 Ton/day
Min	0.04	0.47	0.17	0.14	0.82	274.86	119.42	8.36	0.34	0.25	0.49	0.49	0.04 Ton/day

**WATER YEAR : 2021****WANG RIVER BASIN****Wang River at Ban Hai , Lampang (W.16A)**

Lat 18 - 47 - 07 N Long 99 - 37 - 49 E

Location : on left bank at Ban Hai

	<b>Ban Hai</b>	<b>Amphoe Chae Hom</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	1,395 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.7561		
<b>Remarks</b>	Continued Sediment Station		

QS = 1.2181 QW<sup>1.33840</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.71	0.81	1.47	1.84	2.10	3.04	2.25	1.47	1.01	0.27	0.33	0.27	
2	18.91	0.81	1.35	1.84	2.25	2.56	3.20	1.35	1.01	0.27	17.55	2.40	
3	21.36	0.81	1.23	1.97	1.97	2.56	4.42	1.35	1.01	0.27	26.02	47.49	
4	20.86	0.81	1.23	1.97	9.83	2.56	2.40	1.35	1.23	0.27	35.18	54.65	
5	19.37	0.81	1.23	1.84	32.16	4.42	2.10	1.35	1.01	0.27	54.65	50.64	
6	19.86	0.81	1.35	1.84	31.57	7.79	2.10	1.23	1.01	0.27	58.74	47.49	
7	21.87	0.90	1.23	2.10	30.97	5.16	2.88	1.23	1.01	0.27	57.92	46.71	
8	21.36	0.90	1.23	1.97	32.16	3.04	2.71	1.23	1.01	0.27	50.64	46.71	
9	22.38	0.81	1.47	2.25	34.57	3.71	2.40	1.23	1.12	0.20	47.49	46.71	
10	23.40	0.81	1.59	2.10	35.18	4.42	2.40	1.23	1.23	3.37	40.70	46.71	
11	23.92	0.81	1.59	2.71	34.57	3.89	7.27	1.23	1.23	23.92	50.64	45.93	
12	9.53	0.81	1.47	4.06	33.36	3.04	3.54	1.23	1.35	24.44	50.64	41.42	
13	1.01	0.81	1.47	3.20	3.89	2.71	2.40	1.23	1.35	23.92	51.44	1.23	
14	1.01	0.81	1.97	2.71	3.89	3.04	2.10	1.84	1.23	23.92	49.85	0.41	
15	1.01	0.81	2.40	2.56	6.51	3.20	1.97	1.23	1.23	23.92	27.62	0.27	
16	0.81	0.81	2.25	4.06	3.04	2.25	2.25	1.23	1.23	16.66	0.73	0.27	
17	0.90	0.81	2.71	4.24	2.10	4.97	1.97	1.23	1.23	0.64	0.33	0.20	
18	0.81	0.90	2.25	3.20	1.84	2.88	1.71	1.23	1.47	0.33	0.20	0.41	
19	0.73	0.90	1.97	6.27	1.84	2.40	1.59	6.76	1.12	0.20	0.14	0.27	
20	0.81	0.81	1.84	13.34	2.10	2.71	1.84	31.57	1.01	0.14	0.14	0.14	
21	0.81	0.81	1.84	5.54	2.10	3.04	1.71	10.44	0.41	0.14	0.12	0.12	
22	0.73	0.81	1.97	2.88	2.10	3.20	1.71	1.12	0.33	0.12	0.12	0.12	
23	0.73	0.81	1.97	2.56	2.10	3.71	1.97	1.59	0.33	0.10	0.14	0.20	
24	0.73	0.90	2.10	2.56	3.04	3.71	3.37	1.97	0.33	0.10	0.20	0.20	
25	0.81	2.40	1.97	2.40	5.16	2.88	2.40	1.12	0.27	0.10	0.27	0.27	
26	0.90	2.25	1.97	2.40	3.20	5.16	1.97	1.01	0.33	0.14	0.33	0.41	
27	0.81	2.25	1.71	2.40	2.71	4.79	1.84	1.01	0.33	0.20	0.27	0.48	
28	0.81	3.54	1.84	2.25	2.56	4.79	1.71	1.23	0.33	0.20	0.27	0.48	
29	0.81	3.89	1.71	2.25	2.56	3.54	1.71	1.01	0.27	0.20		0.73	
30	0.81	2.10	1.71	2.25	2.71	2.71	1.59	1.12	0.27	0.20		1.12	
31		1.71		2.25	2.40		1.47		0.27	0.27		0.90	
Total	239.57	38.03	52.09	95.81	336.54	107.88	74.95	83.42	26.57	145.59	622.67	485.36	2308.48 Tonday
Mean	7.99	1.23	1.74	3.09	10.86	3.60	2.42	2.78	0.86	4.70	22.24	15.66	6.32 Ton/day
Max	23.92	3.89	2.71	13.34	35.18	7.79	7.27	31.57	1.47	24.44	58.74	54.65	58.74 Ton/day
Min	0.73	0.81	1.23	1.84	1.84	2.25	1.47	1.01	0.27	0.10	0.12	0.12	0.10 Ton/day

## WATER YEAR : 2021

## WANG RIVER BASIN

## Nam Mae Soi at Ban Nong Nao , Lampang (W.17)

Lat 18 - 43 - 20 N Long 99 - 34 - 02 E

Location : on right at the bridge of Lampang - Wang Nua Road.

	Ban Nong Nao	Amphoe Chae Hom	Changwat Lampang
<b>Drainage Area</b>	719 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.7062		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.3668 QW^{1.46430}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.31	11.57	2.14	1.17	21.19	48.73	30.04	46.81	3.66	2.14	0.32	0.29	
2	0.31	13.34	1.08	1.17	21.19	37.62	61.51	30.04	3.66	2.01	0.34	0.31	
3	0.32	13.34	0.81	1.17	21.19	24.86	75.63	50.67	3.42	2.01	0.33	0.32	
4	0.31	5.23	0.65	1.17	22.39	23.61	46.81	59.25	3.18	1.87	0.33	0.32	
5	0.31	2.28	2.57	1.08	24.86	23.61	34.12	30.04	3.18	2.01	0.33	0.32	
6	5.23	4.16	2.14	0.99	24.86	32.74	28.71	23.61	3.18	1.61	0.37	0.31	
7	10.87	4.16	1.37	1.08	22.39	44.92	27.41	21.19	3.18	2.01	0.38	0.31	
8	18.11	2.14	1.17	1.08	22.39	32.74	23.61	19.12	2.95	1.87	0.38	0.32	
9	18.11	1.74	3.66	16.15	23.61	44.92	20.14	19.12	2.57	1.74	0.36	0.32	
10	13.34	2.14	30.04	191.19	22.39	70.82	20.14	18.11	2.72	1.87	0.31	0.31	
11	10.87	1.17	6.96	63.80	20.14	59.25	46.81	16.15	2.72	1.61	0.29	0.29	
12	10.18	0.99	2.57	162.03	20.14	39.40	46.81	14.26	2.57	1.37	0.31	0.29	
13	10.87	0.90	1.87	162.03	32.74	31.38	31.38	12.45	2.72	1.61	0.29	0.29	
14	10.87	0.73	13.34	24.86	41.22	124.21	26.12	10.18	2.72	1.61	0.31	0.29	
15	11.57	0.81	54.81	18.11	75.63	139.54	23.61	9.50	2.95	1.61	0.34	0.31	
16	15.19	0.73	23.61	75.63	68.46	70.82	31.38	8.20	2.95	1.74	0.36	0.33	
17	22.39	0.57	44.92	73.21	54.81	139.54	52.63	7.57	2.72	2.01	0.36	0.33	
18	37.62	0.50	6.37	43.06	39.40	81.42	37.62	7.57	2.57	2.01	0.36	0.50	
19	32.74	0.50	2.43	46.81	32.74	44.92	31.38	7.57	2.72	2.28	0.38	0.47	
20	17.12	0.57	2.01	162.03	73.21	31.38	30.04	6.96	2.95	2.57	0.42	0.38	
21	14.26	0.57	1.61	105.85	73.21	35.85	28.71	6.37	2.43	2.72	0.42	0.36	
22	10.87	0.57	1.37	43.06	44.92	39.40	32.74	6.37	2.28	2.95	0.40	0.36	
23	10.18	0.50	1.27	31.38	34.12	52.63	48.73	6.37	2.01	2.28	0.37	0.28	
24	10.18	0.45	1.37	26.12	28.71	57.02	93.38	7.57	2.14	2.01	0.34	0.23	
25	10.87	6.96	1.27	24.86	81.42	37.62	41.22	6.96	2.28	1.87	0.33	0.20	
26	22.39	46.81	1.17	23.61	50.67	70.82	30.04	4.42	2.57	1.74	0.28	0.17	
27	11.57	6.96	1.37	23.61	41.22	59.25	24.86	4.96	2.72	0.19	0.27	0.15	
28	8.20	1.87	1.37	21.19	35.85	63.80	23.61	4.69	2.57	0.31	0.29	0.14	
29	10.87	10.87	1.27	19.12	32.74	43.06	21.19	4.42	2.28	0.32		0.18	
30	14.26	5.79	1.17	22.39	57.02	31.38	22.39	4.16	2.28	0.31		0.25	
31		2.01		23.61	54.81		23.61		2.01	0.31		0.26	
<b>Total</b>	370.29	150.93	217.76	1412.62	1219.64	1637.26	1116.38	474.66	84.86	52.57	9.57	9.19	6755.73 Tonday
<b>Mean</b>	12.34	4.87	7.26	45.57	39.34	54.58	36.01	15.82	2.74	1.70	0.34	0.30	18.51 Ton/day
<b>Max</b>	37.62	46.81	54.81	191.19	81.42	139.54	93.38	59.25	3.66	2.95	0.42	0.50	191.19 Ton/day
<b>Min</b>	0.31	0.45	0.65	0.99	20.14	23.61	20.14	4.16	2.01	0.19	0.27	0.14	0.14 Ton/day

**WATER YEAR : 2021****WANG RIVER BASIN****Wang River at Ban Chiang Rai , Tak (W.23)**

Lat 17 - 21 - 60 N Long 99 - 06 - 47 E

Location : on left bank at Amphoe Sam Ngao.

	<b>Ban</b>	<b>Chiang Rai</b>	<b>Amphoe</b>	<b>Sam Ngao</b>	<b>Changwat</b>	<b>Tak</b>
<b>Drainage Area</b>	9,888	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2001-Cont'd					
<b>Actual Measurement</b>	2001-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	13					
<b>R-Square</b>	0.9231					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.3524 QW^{1.66570}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.98	0.00	0.00	0.00	342.36	1519.54	1330.95	14.10	5.49	0.00	0.00	
2	0.00	0.26	0.00	0.00	0.00	480.84	1029.47	1442.94	14.10	6.97	0.00	0.00	
3	0.00	0.13	0.00	0.00	0.00	442.59	1007.77	1175.83	28.72	5.49	0.00	0.00	
4	0.00	5.49	0.00	0.00	0.00	480.84	699.56	745.81	5.49	5.49	0.00	0.00	
5	0.00	18.21	0.00	0.00	0.00	315.64	577.72	552.84	11.49	5.49	0.00	0.00	
6	0.00	19.30	0.00	0.00	0.00	223.35	405.62	362.97	11.49	5.49	0.00	0.00	
7	0.00	11.49	0.00	0.00	0.00	169.10	342.36	283.47	7.56	5.49	0.00	0.00	
8	0.00	13.14	0.00	0.00	0.00	283.47	234.91	200.93	2.45	5.49	0.00	0.00	
9	0.00	17.14	0.00	0.00	0.00	912.48	179.46	154.01	8.17	5.49	0.00	0.00	
10	0.00	11.49	0.00	0.00	0.00	5677.92	139.50	121.05	13.14	5.49	0.00	0.00	
11	184.74	15.09	0.00	0.00	0.00	7026.62	121.05	95.60	13.14	5.49	0.00	0.00	
12	99.49	9.44	0.00	0.00	0.00	5186.49	158.98	80.67	5.85	4.16	0.00	0.00	
13	30.31	6.97	0.00	0.00	0.00	2906.22	1355.51	60.78	5.49	3.85	0.00	0.00	
14	18.21	4.48	0.00	0.00	0.00	1306.58	1468.30	84.31	4.48	3.85	0.00	0.00	
15	14.10	5.49	0.00	0.00	10.11	902.05	1040.47	48.04	4.16	0.00	0.00	0.00	
16	6.97	4.16	0.00	0.00	16.10	2716.19	628.80	48.04	4.16	0.00	0.00	0.00	
17	4.81	2.45	0.00	0.00	35.26	5983.28	736.44	38.73	3.85	0.00	0.00	0.00	
18	4.48	1.73	0.00	0.00	40.98	4260.31	2338.45	38.73	8.17	0.00	0.00	0.00	
19	3.85	0.77	0.00	0.00	28.72	2665.37	2000.91	33.58	7.56	0.00	0.00	0.00	
20	3.85	0.08	0.00	0.00	66.78	1841.55	1318.82	28.72	4.48	0.00	0.00	0.00	
21	3.85	0.04	0.00	0.00	107.91	812.70	793.35	28.72	4.48	0.00	0.00	0.00	
22	2.45	0.13	0.00	0.00	88.01	975.64	594.56	28.72	6.40	0.00	0.00	0.00	
23	1.31	0.00	0.00	0.00	95.60	6112.49	717.84	28.72	5.49	0.00	0.00	0.00	
24	1.31	0.00	0.00	0.00	66.78	12893.41	1040.47	27.17	5.49	0.00	0.00	0.00	
25	0.13	0.00	0.00	0.00	48.04	10183.22	1164.13	22.73	5.49	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	30.31	9350.17	1007.77	21.56	5.49	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	50.49	8898.10	646.20	21.56	14.10	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	270.99	11389.65	391.19	21.56	8.17	0.00	0.00	0.00	
29	0.13	0.00	0.00	0.00	184.74	6112.49	302.61	21.56	5.49	0.00		0.00	
30	1.96	0.00	0.00	0.00	179.46	2906.22	270.99	18.21	3.85	0.00		0.00	
31		0.00		0.00	362.97		328.89		3.55	0.00		0.00	
<b>Total</b>	381.95	150.46	0.00	0.00	1683.25	113757.34	24561.64	7168.51	246.05	73.73	0.00	0.00	148022.93 Tonday
<b>Mean</b>	12.73	4.85	0.00	0.00	54.30	3791.91	792.31	238.95	7.94	2.38	0.00	0.00	405.54 Ton/day
<b>Max</b>	184.74	19.30	0.00	0.00	362.97	12893.41	2338.45	1442.94	28.72	6.97	0.00	0.00	12893.41 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	169.10	121.05	18.21	2.45	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Tha Phai , Tak (W.24)

Lat 17 - 19 - 18 N Long 99 - 04 - 38 E

Location : on left bank at Ban Tha Phai

	<b>Ban</b>	<b>Tha Phai</b>	<b>Amphoe</b>	<b>Sam Ngao</b>	<b>Changwat</b>	<b>Tak</b>
<b>Drainage Area</b>	10,192 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2020-Cont'd					
<b>Actual Measurement</b>	2020-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	17					
<b>R-Square</b>	0.9287					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.3564 QW^{1.68190}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.30	0.00	0.00	11.28	770.34	3670.88	2213.51	21.83	3.93	0.00	0.00	
2	0.00	0.30	0.00	0.00	9.65	863.50	2603.44	2858.78	20.67	4.24	0.00	0.00	
3	0.00	0.21	0.00	0.00	6.72	852.94	2213.51	2392.34	36.51	3.93	0.00	0.00	
4	0.00	0.21	0.00	0.00	7.65	874.12	1699.32	1656.62	13.56	3.93	0.00	0.00	
5	0.00	4.24	0.00	0.00	7.65	662.39	1463.39	1195.21	25.54	3.64	0.00	0.00	
6	0.00	12.02	0.00	0.00	7.65	475.12	1122.67	884.79	16.85	3.64	0.00	0.00	
7	0.00	4.24	0.00	0.00	6.72	350.59	938.92	710.64	11.28	3.93	0.00	0.00	
8	0.00	4.24	0.00	0.00	7.18	534.74	720.45	597.18	5.91	3.64	0.00	0.00	
9	0.00	14.35	0.00	0.00	8.63	1490.25	561.16	442.34	9.13	3.35	0.00	0.00	
10	0.00	8.63	0.00	21.83	7.65	7599.28	442.34	329.11	11.28	3.07	0.00	0.00	
11	4.56	5.91	0.00	18.60	7.18	10542.14	395.18	268.03	10.73	3.35	0.00	0.00	
12	126.32	3.93	0.00	30.83	8.13	9401.02	466.83	236.32	9.65	3.07	0.00	0.00	
13	52.14	2.82	0.00	23.05	8.63	5852.38	2025.76	183.40	9.13	2.82	0.00	0.00	
14	33.62	1.89	0.00	25.54	8.63	2877.39	2840.22	141.03	8.13	2.82	0.00	0.00	
15	26.81	2.11	0.00	59.67	10.73	1815.33	2261.49	121.57	7.65	0.00	0.00	0.00	
16	19.50	2.11	0.00	90.72	16.00	4053.35	1490.25	112.28	7.65	0.00	0.00	0.00	
17	16.00	1.69	0.00	200.44	29.45	9812.79	1558.70	87.69	8.13	0.00	0.00	0.00	
18	11.28	1.69	0.00	36.51	57.11	8091.17	3838.97	78.83	9.13	0.00	0.00	0.00	
19	3.64	1.69	0.00	17.71	44.13	5339.77	4162.31	70.35	8.13	0.00	0.00	0.00	
20	1.12	1.12	0.00	10.73	75.96	3526.31	2952.78	59.67	7.18	0.00	0.00	0.00	
21	1.12	0.96	0.00	12.78	166.99	2213.51	1874.50	52.14	6.72	0.00	0.00	0.00	
22	0.80	1.30	0.00	15.16	126.32	2087.59	1384.53	54.60	5.91	0.00	0.00	0.00	
23	1.12	0.96	0.00	17.71	141.03	8715.94	1742.46	52.14	5.56	0.00	0.00	0.00	
24	0.80	0.80	0.00	29.45	103.29	17705.97	2087.59	44.13	5.21	0.00	0.00	0.00	
25	0.66	0.00	0.00	36.51	64.92	19947.76	2245.45	37.97	5.21	0.00	0.00	0.00	
26	0.53	0.00	0.00	42.57	44.13	16726.84	2165.94	32.19	5.21	0.00	0.00	0.00	
27	0.06	0.00	0.00	35.03	45.74	15566.46	1531.17	32.19	7.65	0.00	0.00	0.00	
28	0.21	0.00	0.00	24.27	418.38	19044.39	1028.83	32.19	7.18	0.00	0.00	0.00	
29	0.30	0.00	0.00	20.67	372.61	11993.06	790.67	33.62	4.56	0.00	0.00	0.00	
30	0.30	0.00	0.00	16.85	315.10	6453.31	691.18	26.81	3.64	0.00	0.00	0.00	
31		0.00		12.78	543.48		811.21		3.35	0.00	0.00	0.00	
Total	300.89	77.72	0.00	799.41	2688.72	196239.75	53782.10	15037.67	318.27	49.36	0.00	0.00	269293.89 Tonday
Mean	10.03	2.51	0.00	25.79	86.73	6541.32	1734.91	501.26	10.27	1.59	0.00	0.00	737.79 Ton/day
Max	126.32	14.35	0.00	200.44	543.48	19947.76	4162.31	2858.78	36.51	4.24	0.00	0.00	19947.76 Ton/day
Min	0.00	0.00	0.00	0.00	6.72	350.59	395.18	26.81	3.35	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## WANG RIVER BASIN

## Wang River at Ban Rong Kho, Lampang (W.25)

Lat 19 - 02 - 14 N Long 99 - 36 - 59 E

Location : on right bank at Ban Rong Kho.

	<b>Ban</b>	Rong Kho	<b>Amphoe</b>	Wang Nuea	<b>Changwat</b>	Lampang
<b>Drainage Area</b>	746	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2009-Cont'd					
<b>Actual Measurement</b>	2009-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	28					
<b>R-Square</b>	0.9300					
<b>Remarks</b>	Continued Sediment Station					

QS = 4.9792 QW<sup>1.44940</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.87	1.82	24.47	0.29	0.71	29.59	134.09	102.52	5.72	1.09	0.71	0.87	
2	0.79	1.82	7.61	0.29	0.79	42.92	342.62	107.91	5.72	1.09	0.71	0.87	
3	0.79	1.82	5.27	0.29	0.55	14.80	420.72	770.09	5.27	1.09	0.71	0.87	
4	1.09	1.82	2.67	0.23	0.41	13.21	125.17	140.95	4.84	1.09	0.71	0.87	
5	2.97	1.82	1.09	0.18	0.41	8.79	97.40	107.91	3.60	1.09	0.71	0.87	
6	5.72	1.82	0.87	0.18	0.55	5.27	71.40	89.87	2.97	1.09	0.87	0.87	
7	5.72	1.57	0.71	13.21	0.48	30.98	38.22	102.52	3.60	0.87	0.87	0.87	
8	6.17	1.57	0.63	2.67	0.48	19.89	25.66	97.40	3.28	0.79	0.87	4.00	
9	6.17	1.57	1.09	116.44	0.48	29.59	22.14	84.96	2.97	0.79	0.48	1.57	
10	6.17	1.57	38.22	264.50	0.41	131.09	17.71	182.97	4.00	0.79	0.15	0.87	
11	6.64	1.57	7.12	55.23	0.55	84.96	1465.24	75.73	3.60	1.09	0.15	0.87	
12	7.12	1.57	3.60	82.53	10.20	55.23	249.55	57.06	2.67	2.09	0.15	0.87	
13	8.79	1.57	2.37	125.17	1.82	23.30	102.52	49.83	2.09	1.82	0.15	0.87	
14	9.49	5.27	9.49	30.98	2.37	1442.17	69.27	41.24	1.82	1.82	0.15	0.79	
15	2.97	4.84	589.67	5.72	5.27	662.35	58.92	36.73	1.82	1.82	0.23	0.63	
16	2.09	4.00	110.73	4.41	5.27	234.63	128.12	33.82	1.57	1.82	1.32	0.63	
17	1.82	3.28	38.22	4.84	2.67	600.81	187.40	29.59	1.57	2.37	1.32	0.63	
18	1.82	1.32	19.89	4.84	1.82	158.57	131.09	28.22	1.82	5.27	1.32	0.63	
19	1.82	1.32	14.80	9.49	4.84	63.00	97.40	25.66	1.82	4.84	2.37	0.63	
20	2.09	1.09	5.72	205.89	1328.53	48.08	137.51	23.30	2.09	10.20	46.34	0.71	
21	5.27	1.09	7.61	58.92	623.26	545.80	110.73	18.79	1.82	8.79	13.21	0.79	
22	2.09	0.87	2.67	13.99	151.45	285.27	119.33	17.71	1.57	12.43	4.84	0.79	
23	2.09	0.87	0.79	5.72	71.40	215.34	1150.90	16.65	1.32	6.64	1.82	5.27	
24	1.82	0.87	0.55	5.72	36.73	134.09	285.27	19.89	1.32	4.84	1.57	10.93	
25	2.09	3.60	0.41	4.84	567.60	140.95	224.92	19.89	1.32	3.28	1.09	4.41	
26	2.09	6.17	0.48	44.62	116.44	513.59	134.09	18.79	1.09	1.32	1.09	2.97	
27	1.82	3.60	0.48	16.65	48.08	239.65	97.40	13.99	1.32	2.09	0.87	1.57	
28	1.82	57.06	0.41	6.17	30.98	979.55	73.56	12.43	1.32	2.09	0.87	2.67	
29	1.82	49.83	0.35	2.37	53.41	451.03	53.41	10.93	1.09	1.82		224.92	
30	1.82	21.01	0.29	1.57	42.92	244.46	58.92	7.12	1.09	1.09		24.47	
31		29.59		1.09	46.34		69.27		1.09	1.09		7.12	
Total	103.84	217.59	898.28	1089.04	3157.22	7448.96	6299.95	2344.47	77.19	88.40	85.65	305.70	22116.29 Tonday
Mean	3.46	7.02	29.94	35.13	101.85	248.30	203.22	78.15	2.49	2.85	3.06	9.86	60.59 Ton/day
Max	9.49	57.06	589.67	264.50	1328.53	1442.17	1465.24	770.09	5.72	12.43	46.34	224.92	1465.24 Ton/day
Min	0.79	0.87	0.29	0.18	0.41	5.27	17.71	7.12	1.09	0.79	0.15	0.63	0.15 Ton/day

**WATER YEAR : 2021****Yom RIVER BASIN****Yom River at Ban Nam Khong , Phrae (Y.1C)**

Lat 18 - 08 - 02 N Long 100 - 07 - 29 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	<b>Ban</b> Nam Khong	<b>Amphoe</b> Mueang	<b>Changwat</b> Phrae
<b>Drainage Area</b>	7,661 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	39		
<b>R-Square</b>	0.8776		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.6603 QW^{1.76530}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	51.52	128.11	8.35	144.68	269.06	2827.92	3109.36	9.10	9.88	10.68	14.17	
2	0.41	236.82	68.26	7.63	133.53	222.09	3233.51	3150.51	3.91	10.68	11.51	2.41	
3	0.21	244.33	38.46	7.63	133.53	244.33	2409.26	1860.23	4.38	9.88	9.10	0.27	
4	0.33	187.08	30.69	7.63	128.11	505.43	2558.13	1244.42	16.07	8.35	5.38	0.27	
5	1.72	133.53	56.87	8.35	144.68	313.97	2827.92	892.79	15.11	8.35	7.03	0.21	
6	44.78	150.39	8.35	12.37	342.34	236.82	3445.08	373.40	6.46	8.35	9.88	0.07	
7	71.25	62.45	3.47	20.03	304.74	260.45	1380.84	405.63	3.47	7.63	14.17	1.32	
8	18.67	68.26	5.38	29.05	193.88	286.66	1828.60	304.74	3.05	7.63	14.17	168.11	
9	9.88	332.76	18.67	84.42	168.11	3027.77	977.26	207.78	2.66	5.38	12.37	109.31	
10	5.91	113.72	54.16	450.39	168.11	5273.38	593.10	251.95	2.17	4.38	11.51	56.87	
11	8.35	51.52	162.11	548.50	150.39	3317.44	955.83	92.41	2.41	4.87	11.51	30.69	
12	16.07	32.56	118.22	463.89	162.11	2264.27	1612.46	139.06	2.17	5.91	9.88	104.97	
13	17.35	24.36	24.36	122.78	109.31	851.80	5219.04	150.39	1.94	7.63	9.88	439.01	
14	12.37	18.67	29.05	113.72	113.72	533.98	3109.36	71.25	2.17	9.10	10.68	11.51	
15	11.51	14.17	59.63	42.63	2056.04	772.34	2158.09	71.25	1.94	9.88	10.68	7.03	
16	7.63	22.87	1612.46	34.48	6261.85	892.79	913.59	68.26	1.51	9.10	9.88	5.91	
17	9.88	24.36	5493.15	32.56	5660.52	1765.70	644.71	62.45	1.32	9.88	6.46	3.47	
18	16.07	14.17	2056.04	25.88	2372.64	1353.07	533.98	62.45	0.97	10.68	5.38	0.59	
19	29.05	12.37	244.33	18.67	1408.86	1023.54	373.40	56.87	0.57	11.51	3.91	3.66	
20	128.11	9.88	122.78	30.69	1796.85	593.10	342.34	59.63	0.57	14.17	6.46	4.38	
21	109.31	7.63	104.97	88.38	4951.04	548.50	362.92	74.30	0.15	15.11	9.10	5.38	
22	54.16	7.03	38.46	193.88	1860.23	1000.28	463.89	51.52	1.32	15.11	14.17	6.71	
23	38.46	7.63	36.45	222.09	716.42	1408.86	7349.55	44.78	12.37	20.03	17.35	6.84	
24	29.05	9.88	15.11	269.06	450.39	3885.55	43619.28	14.17	2.17	24.36	17.35	7.36	
25	16.07	20.03	9.10	187.08	332.76	2300.15	23567.78	9.88	0.27	25.88	16.07	8.18	
26	16.07	21.43	7.63	156.20	2672.32	1734.43	5164.95	16.07	1.72	30.69	17.35	7.63	
27	9.88	133.53	5.38	342.34	1892.45	1642.77	2446.11	68.26	4.87	25.88	17.35	6.71	
28	20.03	88.38	6.46	313.97	505.43	2558.13	1465.63	38.46	8.35	21.43	15.11	6.09	
29	32.56	84.42	9.10	662.33	352.56	5493.15	1047.03	32.56	6.46	15.11		6.21	
30	24.36	427.75	8.35	214.88	286.66	5776.30	1070.75	27.45	7.63	13.26		6.59	
31		236.82		162.11	295.64		1217.88		8.35	11.51		9.92	
Total	759.77	2850.32	10575.56	4881.97	36269.90	50356.11	125720.19	13012.28	135.61	391.61	314.37	1041.85	246309.54 Ton/day
Mean	25.33	91.95	352.52	157.48	1170.00	1678.54	4055.49	433.74	4.37	12.63	11.23	33.61	674.82 Ton/day
Max	128.11	427.75	5493.15	662.33	6261.85	5776.30	43619.28	3150.51	16.07	30.69	17.35	439.01	43619.28 Ton/day
Min	0.21	7.03	3.47	7.63	109.31	222.09	342.34	9.88	0.15	4.38	3.91	0.07	0.07 Ton/day



**WATER YEAR : 2021****YOM RIVER BASIN****Yom River at Ban Kaeng Luang , Sukhothai (Y.6)**

Lat 17 - 26 - 12 N Long 99 - 47 - 15 E

Location : on left bank about 150 meters upstream from Kaeng Luang.

	<b>Ban</b> Kaeng Luang	<b>Amphoe</b> Si Satchanalai	<b>Changwat</b> Sukhothai
<b>Drainage Area</b>	12,619 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1963-1987,1997-Cont'd		
<b>Actual Measurement</b>	1963-1987,1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	10		
<b>R-Square</b>	0.7682		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.0472 QW^{2.09690}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	788.46	748.02	6996.00	12.56	291.18	0.20	0.00	0.00	
2	0.00	0.00	0.00	0.00	514.84	438.00	6331.06	45.54	291.18	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	452.85	284.37	7081.56	245.65	237.03	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	438.00	188.53	3609.38	154.81	171.16	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	514.84	107.97	1594.38	84.56	123.21	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	483.32	120.56	1594.38	19.54	78.22	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.41	498.95	171.81	1411.34	59.48	52.26	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.38	514.84	127.12	1381.97	33.53	41.32	0.00	0.00	0.00	
9	0.00	0.00	0.00	6.64	1501.40	1352.92	467.96	14.99	61.99	0.00	0.00	0.00	
10	0.00	0.00	0.00	40.37	1324.20	47675.26	483.32	57.02	81.11	0.00	0.00	0.00	
11	0.00	0.00	0.00	127.12	633.36	16623.24	263.56	127.50	72.59	0.00	0.00	0.00	
12	0.00	0.00	0.00	1185.39	263.56	7703.67	341.29	49.97	45.54	0.00	0.00	0.00	
13	0.00	0.00	0.00	3083.12	206.06	3443.20	633.36	64.56	27.46	0.00	0.00	0.00	
14	0.00	0.00	0.00	3131.03	120.56	1441.04	1007.44	81.11	15.85	0.00	0.00	0.00	
15	0.00	0.00	0.00	1080.12	42.63	748.02	2067.07	199.06	10.41	0.00	0.00	0.00	
16	0.00	0.00	0.00	851.21	40.37	580.99	1185.39	237.03	19.54	0.00	0.00	0.00	
17	0.00	0.00	0.00	1441.04	1626.02	1657.98	5051.92	184.83	26.04	0.00	0.00	0.00	
18	0.00	0.00	0.00	830.01	5264.51	5481.25	5481.25	150.07	23.32	0.00	0.00	0.00	
19	0.00	0.00	272.48	367.63	2758.57	5777.66	1381.97	106.84	23.32	0.00	0.00	0.00	
20	0.00	0.00	291.18	26.31	872.69	1563.06	633.36	102.94	14.16	0.00	0.00	0.00	
21	0.00	0.00	69.86	5.02	2849.37	1267.71	670.48	263.38	1722.90	0.00	0.00	0.00	
22	0.00	0.00	3.70	5.40	5554.81	1295.79	1054.61	272.48	1441.04	0.00	0.00	0.00	
23	0.00	0.00	0.00	19.88	4507.90	21880.34	3035.60	136.29	1158.59	0.00	0.00	0.00	
24	0.00	0.00	0.00	155.91	1501.40	36298.11	6996.00	191.88	851.21	0.00	0.00	0.00	
25	0.00	0.00	0.00	670.48	483.32	11531.42	19802.95	191.88	514.84	0.00	0.00	0.00	
26	0.00	0.00	0.00	1501.40	1132.12	12330.60	21036.37	75.38	328.50	0.00	0.00	0.00	
27	0.00	0.00	0.00	1789.11	1471.06	12468.67	6996.00	22.02	171.81	0.00	0.00	0.00	
28	0.00	0.00	0.00	1856.64	4442.37	9587.18	2452.84	7.98	50.19	0.00	0.00	0.00	
29	0.00	0.00	0.00	1626.02	2849.37	9255.39	1267.71	14.99	6.64	0.00	0.00	0.00	
30	0.00	0.00	0.00	1185.39	1890.89	6659.19	1105.96	127.50	2.02	0.00	0.00	0.00	
31	0.00	0.00	0.00	728.22	1185.39	0.00	984.28	0.00	0.86	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	637.22	21715.25	46728.03	218809.07	114400.76	3335.37	7955.49	0.20	0.00	0.00	413581.39 Ton/day
<b>Mean</b>	0.00	0.00	21.24	700.49	1507.36	7293.64	3690.35	111.18	256.63	0.01	0.00	0.00	1133.10 Ton/day
<b>Max</b>	0.00	0.00	291.18	3131.03	5554.81	47675.26	21036.37	272.48	1722.90	0.20	0.00	0.00	47675.26 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	40.37	107.97	263.56	7.98	0.86	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****YOM RIVER BASIN****Yom River at Ban Don Rabiang , Sukhothai (Y.14A)**

Lat 17 - 34 - 17 N Long 99 - 44 - 11 E

Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

	<b>Ban Don Rabiang</b>	<b>Amphoe Si Satchanalai</b>	<b>Changwat Sukhothai</b>
<b>Drainage Area</b>	12,141 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2020-Cont'd		
<b>Actual Measurement</b>	2020-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	13		
<b>R-Square</b>	0.6914		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.1888 QW^{1.92310}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	52.82	136.66	17.37	460.17	1919.85	5303.75	2057.94	47.73	4.63	7.39	2.40	
2	0.00	61.72	234.19	28.65	332.12	1504.46	6006.54	2783.89	45.28	4.15	6.79	3.15	
3	0.00	104.55	148.28	30.25	234.19	1224.43	4344.49	3931.31	38.30	3.70	6.21	2.89	
4	0.00	104.55	94.77	25.58	166.51	974.59	3260.88	3035.85	27.09	3.70	5.13	2.89	
5	0.00	234.19	68.32	22.67	148.28	822.26	2950.70	2274.02	21.29	3.42	5.13	2.89	
6	0.00	192.45	55.45	21.29	136.66	1045.03	2702.23	1446.25	16.46	3.70	5.13	2.40	
7	0.00	136.66	78.81	24.11	154.21	929.80	3035.85	952.07	22.67	3.70	4.15	1.95	
8	0.00	136.66	86.20	22.67	332.12	929.80	2425.63	556.60	25.58	3.70	4.63	1.95	
9	0.00	125.50	55.45	40.57	332.12	8416.00	1475.35	507.29	19.94	3.42	4.63	1.22	
10	0.00	75.23	42.89	148.28	199.27	41425.86	1446.25	429.99	16.46	3.15	4.15	1.95	
11	0.00	160.35	28.65	243.93	166.51	23572.04	997.36	345.35	14.71	2.89	4.15	2.17	
12	0.00	166.51	25.58	781.02	185.85	11139.82	1278.22	332.12	14.71	1.95	4.15	15.57	
13	0.00	86.20	52.82	781.02	172.87	5428.41	1885.90	192.45	13.87	1.22	4.15	21.29	
14	0.00	50.24	130.98	929.80	148.28	2742.91	2866.71	206.10	12.26	1.37	4.15	16.46	
15	0.00	36.10	94.77	206.10	142.37	1786.38	3399.28	206.10	12.26	2.89	5.13	13.05	
16	0.00	28.65	68.32	263.99	284.81	1819.16	2387.29	142.37	10.03	6.21	4.63	10.75	
17	0.27	22.67	86.20	160.35	4239.23	3170.02	6969.44	136.66	8.01	4.15	4.63	8.01	
18	38.30	17.37	1171.75	154.21	6686.21	5618.00	4186.84	120.05	8.66	5.66	3.70	8.01	
19	30.25	14.71	2503.19	75.23	4450.99	5180.48	2200.63	109.58	8.66	16.46	3.42	7.39	
20	28.65	16.46	460.17	94.77	2702.23	2661.84	1446.25	104.55	8.66	28.65	3.42	7.39	
21	24.11	16.46	243.93	94.77	4239.23	1919.85	1120.18	94.77	9.33	28.65	3.42	5.13	
22	25.58	13.87	130.98	71.73	4777.92	3124.86	1885.90	82.46	8.01	28.65	3.42	5.13	
23	114.80	11.49	104.55	86.20	3399.28	26191.10	3493.21	78.81	6.79	28.65	3.42	5.13	
24	109.58	10.75	71.73	206.10	1563.78	30282.55	12100.59	78.81	5.66	55.45	3.15	3.70	
25	61.72	10.75	58.55	345.35	997.36	14427.43	30963.60	64.98	5.66	8.66	3.15	3.15	
26	42.89	10.03	58.55	475.63	2503.19	11519.55	26826.57	52.82	4.63	6.79	2.89	2.40	
27	31.89	11.49	58.55	444.96	2164.36	8416.00	8497.88	40.57	4.15	12.26	2.89	2.17	
28	25.58	21.29	58.55	372.58	3981.28	7702.14	3399.28	36.10	10.03	7.39	2.89	1.95	
29	19.94	33.97	33.97	429.99	3352.97	5875.64	2128.71	50.24	5.66	6.79		2.17	
30	136.66	78.81	17.37	372.58	3733.63	5058.61	1721.37	55.45	8.66	6.79		2.17	
31		75.23		539.92	2503.19		1689.16		5.66	6.79		4.15	
Total	690.22	2117.73	6460.18	7511.67	54891.19	236828.87	154396.04	20505.55	466.87	305.59	120.10	171.03	484465.04 Tonday
Mean	23.01	68.31	215.34	242.31	1770.68	7894.30	4980.52	683.52	15.06	9.86	4.29	5.52	1327.30 Ton/day
Max	136.66	234.19	2503.19	929.80	6686.21	41425.86	30963.60	3931.31	47.73	55.45	7.39	21.29	41425.86 Ton/day
Min	0.00	10.03	17.37	17.37	136.66	822.26	997.36	36.10	4.15	1.22	2.89	1.22	0.00 Ton/day

**WATER YEAR : 2021****Yom RIVER BASIN****Yom River at Ban Kong , Sukhothai (Y.15)**

Lat 16 - 55 - 39 N Long 99 - 57 - 34 E

Location : on left bank at Ban Kong.

	<b>Ban Kong</b>	<b>Amphoe Kong Krailat</b>	<b>Changwat Sukhothai</b>
<b>Drainage Area</b>	18,894 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2010-2016, 2020-Cont'd		
<b>Actual Measurement</b>	2010-2016, 2020-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	7		
<b>R-Square</b>	0.5625		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.3333 QW^{1.69720}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	625.38	6200.03	2971.68	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	3.67	651.87	6200.03	2848.18	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	58.14	665.29	6033.73	2726.84	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	106.92	672.36	5869.29	2640.15	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	104.33	686.60	5596.10	2537.02	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	89.34	693.76	5323.46	2455.73	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	80.21	708.18	5056.44	2375.53	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	65.73	708.18	4692.15	2296.44	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	50.97	700.96	4334.13	2207.51	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	44.20	573.75	4077.98	2120.03	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	50.97	737.39	3910.80	2034.01	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	49.24	889.15	3726.68	1949.46	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	50.97	1083.55	3606.65	1874.24	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	49.24	1327.02	3429.65	1785.58	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	78.07	1516.78	3284.96	1698.69	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	125.78	1727.46	3173.74	1579.41	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	69.74	1785.58	3072.03	1455.20	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.66	125.78	1859.34	2971.68	1360.93	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	291.44	1889.18	2946.81	1271.28	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	386.48	1934.32	2872.71	1173.93	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	484.02	2051.10	2775.12	1083.55	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	467.03	2137.41	2726.84	986.64	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.66	484.02	2242.91	2660.98	889.15	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.90	518.63	2375.53	2619.39	797.24	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.66	495.45	2640.15	2578.07	700.96	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	1.80	501.14	3097.33	2640.15	586.49	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	1.47	495.45	3726.68	2799.38	484.02	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.28	495.45	4420.93	3021.68	366.18	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.28	524.43	5003.71	3122.71	241.78	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	573.75	6033.73	3148.18	117.54	0.00	0.00		0.00	
31		0.00		0.00	599.34		3046.81		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	0.00	6.71	7519.93	55165.58	117518.36	47615.39	0.00	0.00	0.00	0.00	227825.97 Ton/day
<b>Mean</b>	0.00	0.00	0.00	0.22	242.58	1838.85	3790.91	1587.18	0.00	0.00	0.00	0.00	624.18 Ton/day
<b>Max</b>	0.00	0.00	0.00	1.80	599.34	6033.73	6200.03	2971.68	0.00	0.00	0.00	0.00	6200.03 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	573.75	2578.07	117.54	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****YOM RIVER BASIN****Yom River at Ban Bang Rakam , Phitsanulok (Y.16)**

Lat 16 - 45 - 29 N Long 100 - 06 - 56 E

Location : on right bank about 58 meters upstream from the old staff gage.

	<b>Ban</b> Bang Rakam	<b>Amphoe</b> Bang Rakam	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	19,536 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1995-Cont'd		
<b>Actual Measurement</b>	1995-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	10		
<b>R-Square</b>	0.2207		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 42.0017 QW^{0.42940}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	196.89	318.19	511.51	529.43	284.73	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	177.80	323.13	523.64	529.43	262.73	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	131.87	324.96	537.49	528.47	233.23	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	98.62	325.56	547.22	526.54	201.49	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	91.30	327.37	558.57	524.12	180.94	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	86.92	321.29	567.62	521.69	177.16	0.00	0.00	0.00	
7	0.00	0.00	0.00	20.11	81.78	303.02	572.08	518.76	179.07	0.00	0.00	0.00	
8	0.00	0.00	0.00	34.21	79.35	293.85	572.08	515.39	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	43.07	76.17	309.39	568.97	511.51	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	47.78	72.80	354.87	564.93	506.59	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	49.99	70.68	369.75	561.76	500.61	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	53.80	67.70	380.80	561.76	494.11	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	55.33	65.35	383.10	558.57	487.07	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	56.07	62.25	374.36	554.49	478.89	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	79.35	58.93	380.80	549.96	469.31	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	84.69	62.89	389.34	545.39	459.47	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	97.45	132.54	393.24	541.69	449.61	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	102.03	207.24	404.25	537.95	439.48	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	192.28	230.66	411.34	535.60	428.74	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	212.37	248.08	419.85	532.77	418.80	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	215.68	250.72	425.57	529.91	409.17	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	215.68	239.04	429.83	529.91	401.47	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	220.21	205.98	433.60	533.24	393.24	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	221.49	188.21	439.48	530.86	381.37	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	228.69	187.52	447.50	528.47	376.13	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	234.50	192.28	455.34	526.54	370.31	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	222.75	192.28	465.20	524.12	359.48	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	218.29	185.43	476.39	523.64	337.63	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	214.37	197.53	489.60	525.58	311.89	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	212.37	260.78	501.62	527.51	294.45	0.00	0.00	0.00	0.00	
31		0.00		202.14	305.59		528.47		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	0.00	3534.70	4705.18	11672.59	16812.30	13473.16	1519.35	0.00	0.00	0.00	51717.28 Tonday
<b>Mean</b>	0.00	0.00	0.00	114.02	151.78	389.09	542.33	449.11	49.01	0.00	0.00	0.00	141.69 Ton/day
<b>Max</b>	0.00	0.00	0.00	234.50	305.59	501.62	572.08	529.43	284.73	0.00	0.00	0.00	572.08 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	58.93	293.85	511.51	294.45	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## Yom RIVER BASIN

## Yom River at Ban Huai Sak , Phrae (Y.20)

Lat 18 - 35 - 10 N Long 100 - 09 - 05 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

	<b>Ban Huai Sak</b>	<b>Amphoe Song</b>	<b>Changwat Phrae</b>
<b>Drainage Area</b>	5,392 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	32		
<b>R-Square</b>	0.8790		
<b>Remarks</b>	Continued Sediment Station		

QS = 1.2834 QW<sup>1.71030</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.13	683.41	81.55	57.11	494.99	383.21	1618.03	4415.15	63.63	16.30	13.04	9.48	
2	0.99	346.52	42.59	116.68	373.89	1533.82	3265.55	2104.55	57.11	16.30	9.48	7.93	
3	0.73	193.89	29.48	116.68	346.52	1234.88	3674.53	1411.02	53.96	16.30	6.49	7.93	
4	0.61	222.96	22.38	132.38	616.10	784.23	3632.73	1033.02	53.96	16.30	6.49	7.20	
5	0.73	121.43	50.89	67.00	1197.07	629.28	3345.74	769.48	50.89	16.30	6.49	6.49	
6	1.13	53.96	107.41	73.95	963.36	462.64	1836.68	603.05	47.89	15.18	7.20	5.82	
7	0.99	328.76	137.99	63.63	577.28	642.56	2050.24	505.97	40.27	13.04	7.93	9.48	
8	2.72	373.89	116.68	143.71	383.21	912.45	1273.18	421.42	33.63	12.03	7.93	29.48	
9	33.63	70.44	89.84	895.73	277.82	1390.97	740.32	383.21	33.63	11.15	7.20	19.85	
10	21.10	42.59	208.21	1411.02	215.53	1639.38	603.05	346.52	33.63	10.30	7.20	12.03	
11	14.10	31.53	452.06	862.68	269.67	1769.88	2104.55	311.38	33.63	10.30	6.49	14.10	
12	10.30	23.69	121.43	616.10	245.85	1050.75	4016.02	294.40	31.53	10.30	5.82	13.04	
13	7.93	21.10	107.41	431.20	697.46	616.10	2729.72	277.82	29.48	10.30	5.18	12.03	
14	10.30	22.38	754.84	245.85	2413.98	616.10	1533.82	253.69	27.49	10.30	4.57	7.93	
15	22.38	67.00	4505.96	238.12	4016.02	740.32	929.29	230.49	25.56	10.30	4.57	7.20	
16	19.85	22.38	10588.09	245.85	2695.42	669.49	740.32	208.21	27.49	9.48	5.18	6.49	
17	17.45	16.30	2132.17	269.67	1371.04	799.10	683.41	186.89	23.69	10.30	4.57	5.82	
18	121.43	17.45	895.73	286.06	1215.92	814.09	603.05	167.52	19.85	10.30	4.57	22.38	
19	311.38	14.10	505.97	186.89	799.10	564.58	528.24	161.43	16.30	16.30	5.82	40.27	
20	89.84	12.03	311.38	616.10	3010.54	505.97	411.72	143.71	17.45	21.10	7.20	53.96	
21	53.96	23.69	201.00	564.58	1836.68	1859.17	441.58	137.99	16.30	47.89	12.03	27.49	
22	40.27	19.85	143.71	302.84	1215.92	1471.89	4689.90	132.38	16.30	73.95	17.45	18.64	
23	23.69	23.69	102.90	193.89	799.10	3972.65	48040.22	132.38	16.30	53.96	29.48	13.04	
24	18.64	17.45	81.55	161.43	484.10	2159.46	28946.81	121.43	17.45	40.27	21.10	18.64	
25	16.30	35.79	77.53	294.40	4059.59	1431.19	6202.30	121.43	16.30	29.48	15.18	15.18	
26	15.18	173.71	67.00	1068.61	3228.59	1311.96	2271.02	112.00	16.30	23.69	13.04	15.18	
27	31.53	149.52	53.96	616.10	1159.75	1513.06	1390.97	107.41	17.45	22.38	11.15	16.30	
28	38.00	143.71	44.97	1159.75	799.10	6381.90	1033.02	89.84	17.45	18.64	9.48	15.18	
29	53.96	697.46	70.44	655.97	590.11	2939.26	1086.59	85.65	18.64	16.30		70.44	
30	215.53	215.53	77.53	431.20	462.64	2327.67	929.29	77.53	17.45	16.30		1331.54	
31		132.38		431.20	364.67		3345.74		17.45	14.10		373.89	
Total	1195.78	4318.59	22182.65	12956.38	37181.02	43128.01	134697.63	15346.97	908.46	619.14	262.33	2214.43	275011.39 Tonday
Mean	39.86	139.31	739.42	417.95	1199.39	1437.60	4345.08	511.57	29.31	19.97	9.37	71.43	753.46 Ton/day
Max	311.38	697.46	10588.09	1411.02	4059.59	6381.90	48040.22	4415.15	63.63	73.95	29.48	1331.54	48040.22 Ton/day
Min	0.61	12.03	22.38	57.11	215.53	383.21	411.72	77.53	16.30	9.48	4.57	5.82	0.61 Ton/day

**WATER YEAR : 2021****Yom RIVER BASIN****Nam Pi at Ban Mang , Phayao (Y.24)**

Lat 18 - 52 - 55 N Long 100 - 16 - 58 E

**Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.**

	<b>Ban Mang</b>	<b>Amphoe</b>	<b>Chiang Muan</b>	<b>Changwat</b>	<b>Phayao</b>
<b>Drainage Area</b>	621 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1997-Cont'd				
<b>Actual Measurement</b>	1997-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	26				
<b>R-Square</b>	0.7460				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 2.3435 QW^{1.79550}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	50.02	2.51	1.40	9.42	5.57	73.80	685.88	0.21	1.27	1.08	1.05	
2	0.78	4.29	1.24	1.79	4.91	121.12	111.62	230.53	0.27	1.27	1.02	0.85	
3	0.75	2.78	0.80	1.57	3.65	59.71	371.46	141.64	0.29	1.27	0.96	0.83	
4	0.72	2.02	0.45	1.24	3.35	18.92	116.33	85.23	0.49	1.24	0.94	0.83	
5	0.72	1.08	1.40	1.40	3.35	14.69	66.59	59.71	0.72	1.05	0.88	0.78	
6	0.88	0.68	1.79	35.45	2.51	13.39	40.06	44.92	1.47	0.63	0.83	0.80	
7	0.91	0.56	2.51	3.35	1.57	16.05	188.08	35.45	1.50	0.39	0.80	0.91	
8	0.91	0.80	13.39	3.06	1.79	10.29	66.59	29.01	1.50	11.20	0.75	0.65	
9	0.94	0.56	9.42	42.46	1.79	85.23	42.46	21.99	1.50	56.40	0.70	0.49	
10	0.94	0.45	4.91	17.46	2.02	136.25	37.72	18.92	1.53	44.92	0.63	0.39	
11	0.94	0.36	3.35	5.57	1.57	77.53	443.79	16.05	1.47	14.69	0.58	0.27	
12	0.91	0.36	2.51	3.35	1.40	26.98	381.44	13.39	1.24	1.05	0.60	0.22	
13	0.91	0.27	2.51	6.27	2.02	21.99	147.13	11.20	1.20	1.20	0.65	0.21	
14	0.94	0.22	2.51	2.51	2.26	16.05	81.34	10.29	1.30	1.24	0.68	0.18	
15	0.94	0.68	2.51	5.57	2.26	31.09	63.11	9.42	1.40	1.27	0.68	0.13	
16	0.96	0.68	47.44	7.00	3.96	25.27	47.44	7.77	1.47	1.30	0.65	0.12	
17	59.71	0.27	201.80	2.78	23.61	20.43	47.44	7.00	1.43	1.33	0.60	0.19	
18	98.03	0.22	26.98	2.26	17.46	14.69	44.92	4.91	1.40	1.50	0.54	0.24	
19	26.98	0.25	12.14	1.79	40.06	12.14	29.01	5.57	1.43	1.50	0.54	0.24	
20	16.05	0.68	6.27	1.24	66.59	66.59	21.99	4.29	1.50	1.47	0.91	0.29	
21	16.05	1.57	1.57	0.45	53.17	111.62	53.17	4.29	1.27	1.47	0.91	0.29	
22	10.29	1.24	1.57	0.56	25.27	245.52	568.81	4.29	1.33	1.50	0.80	0.24	
23	8.58	0.45	1.24	0.80	16.05	181.96	2165.73	3.65	1.50	1.43	0.75	0.21	
24	7.00	0.68	1.24	1.08	7.00	70.16	278.14	3.35	1.50	1.24	0.60	0.30	
25	5.57	56.40	1.40	3.06	35.45	98.03	107.01	2.51	1.47	1.14	0.80	0.43	
26	12.14	23.61	0.94	44.92	20.43	77.53	66.59	2.78	1.47	1.08	1.11	0.36	
27	37.72	3.65	0.80	17.46	14.69	130.95	50.02	2.78	1.50	1.27	1.17	0.29	
28	8.58	606.76	0.56	9.42	10.29	1050.79	35.45	2.51	1.47	1.36	1.05	0.27	
29	1.57	47.44	2.51	2.51	5.57	237.97	169.99	2.78	1.33	1.24		0.96	
30	44.92	20.43	7.00	9.42	3.35	141.64	978.92	0.80	1.33	1.20		1.17	
31		9.42		50.02	3.35		1246.37		1.30	1.14		0.78	
Total	367.14	838.88	365.27	287.22	390.17	3140.15	8142.52	1472.91	38.79	160.26	22.21	14.97	15240.49 Tonday
Mean	12.24	27.06	12.18	9.27	12.59	104.67	262.66	49.10	1.25	5.17	0.79	0.48	41.75 Ton/day
Max	98.03	606.76	201.80	50.02	66.59	1050.79	2165.73	685.88	1.53	56.40	1.17	1.17	2165.73 Ton/day
Min	0.72	0.22	0.45	0.45	1.40	5.57	21.99	0.80	0.21	0.39	0.54	0.12	0.12 Ton/day

## WATER YEAR : 2021

## Yom RIVER BASIN

## Yom River at Ban Khlong Tan , Sukhothai (Y.33)

Lat 17 - 10 - 08 N Long 99 - 51 - 40 E

Location : on left bank at the bridge on road from Tambon Khlong Tan.

	<b>Ban</b> Khlong Tan	<b>Amphoe</b> Si Samrong	<b>Changwat</b> Sukhothai
<b>Drainage Area</b>	12,778 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2016-Cont'd		
<b>Actual Measurement</b>	2016-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	11		
<b>R-Square</b>	0.7555		
<b>Remarks</b>	Continued Sediment Station		

QS = 5.8329 QW<sup>1.16100</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	134.05	0.00	97.49	248.94	856.20	709.94	309.96	46.88	0.00	0.00	0.00	
2	0.00	134.05	11.39	112.35	215.76	715.48	693.36	41.32	58.64	0.00	0.00	0.00	
3	0.00	62.11	72.95	39.55	186.99	709.94	709.94	165.27	70.74	0.00	0.00	0.00	
4	0.00	87.06	139.09	22.67	114.49	704.41	633.05	598.16	61.64	0.00	0.00	0.00	
5	0.00	178.48	136.57	65.69	62.11	649.42	765.59	337.97	46.88	0.00	0.00	0.00	
6	0.00	215.76	121.59	30.18	31.72	616.74	932.27	255.80	29.67	0.00	0.00	0.00	
7	0.00	227.54	101.70	6.65	48.06	573.91	1208.81	129.46	13.80	0.00	0.00	0.00	
8	0.00	209.96	53.27	0.00	65.69	564.45	1418.77	106.96	2.13	0.00	0.00	0.00	
9	0.00	93.30	44.63	0.00	62.11	643.96	1017.93	33.44	0.00	0.00	0.00	0.00	
10	0.00	97.49	42.93	0.00	69.31	5809.98	560.24	20.40	0.00	0.00	0.00	0.00	
11	0.00	99.59	37.97	16.90	87.06	7333.06	474.23	45.44	0.00	0.00	0.00	0.00	
12	0.00	95.39	14.11	21.21	89.13	5641.51	264.51	116.34	0.00	0.00	0.00	0.00	
13	0.00	82.94	0.00	56.78	58.55	4046.25	347.74	148.59	0.00	0.00	0.00	0.00	
14	0.00	46.34	7.77	112.35	67.50	2679.11	411.53	208.63	0.00	0.00	0.00	0.00	
15	0.00	31.72	44.63	124.07	71.12	1630.63	579.16	234.19	0.00	0.00	0.00	0.00	
16	0.00	36.39	39.55	62.11	87.06	1448.99	532.03	264.51	0.00	0.00	0.00	0.00	
17	0.00	34.82	36.39	56.78	198.43	938.15	357.55	247.12	0.00	0.00	0.00	0.00	
18	0.00	27.14	30.18	103.82	974.83	799.25	957.22	282.06	0.00	0.00	0.00	0.00	
19	0.00	28.66	71.12	103.82	1622.50	1486.89	377.28	229.90	0.00	0.00	0.00	0.00	
20	0.00	76.81	261.29	103.82	1145.90	1479.30	86.67	124.07	0.00	0.00	0.00	0.00	
21	0.00	108.07	110.21	103.82	607.18	856.20	64.65	111.63	0.00	0.00	0.00	0.00	
22	0.00	25.64	37.97	91.21	856.20	804.88	475.23	225.62	0.00	0.00	0.00	0.00	
23	0.00	0.69	25.64	85.00	1104.18	1671.37	1000.21	268.88	0.00	7.77	0.00	0.00	
24	0.00	0.00	18.32	76.81	732.13	6371.93	2569.62	95.39	0.00	89.13	0.00	0.00	
25	0.00	14.11	12.74	99.59	441.49	4968.85	5167.56	69.21	0.00	144.15	0.00	0.00	
26	0.00	33.27	4.50	170.01	403.96	3011.25	7352.19	104.63	0.00	126.55	0.00	0.00	
27	0.00	28.66	0.00	239.74	492.23	2094.00	4209.10	134.89	0.00	74.78	0.00	0.00	
28	56.78	39.55	0.00	296.37	588.14	1541.49	1301.38	104.63	0.00	39.55	0.00	0.00	
29	87.06	21.21	48.06	309.96	879.51	1208.81	466.76	91.01	0.00	19.76	0.00	0.00	
30	119.11	2.49	58.55	299.76	833.11	776.79	303.15	67.69	0.00	0.00	0.00	0.00	
31		0.69		276.85	920.51		306.55		0.00	0.00	0.00	0.00	
Total	262.95	2273.98	1583.12	3185.36	13365.90	62633.20	36254.22	5173.17	330.38	501.69	0.00	0.00	125563.97 Tonday
Mean	8.76	73.35	52.77	102.75	431.16	2087.77	1169.49	172.44	10.66	16.18	0.00	0.00	344.01 Ton/day
Max	119.11	227.54	261.29	309.96	1622.50	7333.06	7352.19	598.16	70.74	144.15	0.00	0.00	7352.19 Ton/day
Min	0.00	0.00	0.00	0.00	31.72	564.45	64.65	20.40	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****Yom RIVER BASIN****Yom River at Ban Wang Chin , Phrae (Y.37)**

Lat 17 - 54 - 05 N Long 99 - 36 - 21 E

Location : on left bank at the bridge on road.

	<b>Ban</b>	<b>Wang Chin</b>	<b>Amphoe</b>	<b>Wang Chin</b>	<b>Changwat</b>	<b>Phrae</b>
<b>Drainage Area</b>	10,265	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2007-Cont'd					
<b>Actual Measurement</b>	2007-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	30					
<b>R-Square</b>	0.8381					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.4237 QW^{1.64340}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	61.62	112.77	20.51	207.23	444.62	2080.39	783.35	48.44	2.61	3.80	1.69	
2	0.04	112.77	93.05	22.79	173.70	422.57	1891.79	1369.17	40.36	2.85	3.04	1.56	
3	0.04	76.33	59.34	18.34	127.37	352.28	1489.77	1369.17	25.15	2.85	2.55	1.43	
4	0.02	143.34	37.09	12.92	109.38	299.72	1051.81	906.00	17.28	3.10	1.82	1.14	
5	0.02	127.37	27.97	12.92	109.38	372.84	1181.81	644.95	16.25	3.37	2.25	1.05	
6	0.03	89.91	40.36	9.77	109.38	408.11	1115.69	490.03	23.96	3.10	2.40	0.96	
7	0.03	78.90	46.36	12.26	178.35	338.83	1238.31	379.79	29.42	3.10	2.40	0.96	
8	0.02	71.29	23.96	20.51	239.79	452.07	706.15	312.55	21.64	3.10	2.40	0.80	
9	0.01	48.44	16.25	89.91	164.55	4715.38	697.27	268.58	12.92	10.37	2.10	0.53	
10	13.59	106.03	12.26	93.05	135.26	9124.14	521.25	234.23	10.99	44.07	2.55	2.25	
11	15.25	116.19	14.27	379.79	135.26	4893.10	553.23	217.88	10.99	55.20	2.55	11.36	
12	8.61	59.34	35.50	352.28	131.29	2385.47	697.27	187.79	9.18	63.99	2.71	7.40	
13	8.05	33.94	68.82	365.94	116.19	1281.36	843.80	160.04	9.77	65.28	2.71	6.07	
14	10.37	26.55	48.44	147.45	109.38	636.38	1726.48	202.30	8.61	66.59	2.40	4.84	
15	10.99	21.64	33.94	127.37	112.77	529.18	1102.80	131.29	5.68	67.90	2.10	3.80	
16	9.77	12.26	50.55	89.91	1064.47	688.44	1102.80	116.19	4.02	66.59	1.82	3.23	
17	10.99	10.37	239.79	131.29	2843.49	1026.68	1662.03	116.19	6.12	61.42	1.14	3.41	
18	11.62	9.77	1310.38	96.23	2572.49	2459.62	906.00	112.77	5.68	58.90	1.05	3.23	
19	11.62	9.18	644.95	63.99	1167.85	1281.36	569.49	99.46	7.06	60.16	1.33	2.87	
20	10.37	12.92	228.73	59.34	1195.84	793.30	386.80	93.05	6.59	61.42	1.69	1.96	
21	14.27	10.37	96.23	48.44	1824.96	627.86	444.62	84.14	6.12	67.90	1.96	1.56	
22	63.99	8.61	96.23	59.34	1942.53	662.21	773.45	86.81	4.41	70.57	1.56	1.05	
23	50.55	7.06	68.82	135.26	874.68	2553.54	1874.99	84.14	3.37	70.57	1.96	0.53	
24	30.90	7.06	44.33	187.79	452.07	2150.70	7407.53	68.82	4.82	73.27	1.43	0.36	
25	21.64	6.59	33.94	245.39	763.59	2784.53	13010.53	59.34	2.85	24.23	1.56	0.36	
26	17.28	12.26	23.96	228.73	773.45	2348.74	6805.00	35.50	3.37	3.61	2.40	0.53	
27	13.59	16.25	18.34	212.53	1195.84	1726.48	2115.43	30.90	5.24	5.07	2.25	0.40	
28	12.92	21.64	11.62	217.88	1128.64	1874.99	1001.78	52.69	4.41	5.81	1.96	1.24	
29	10.99	52.69	9.77	245.39	715.07	1662.03	744.03	61.62	4.02	5.56		1.69	
30	18.34	48.44	11.62	287.10	602.57	2080.39	644.95	54.87	2.61	4.84		1.69	
31		89.91		239.79	505.55		706.15		2.85	4.41		1.43	
Total	375.97	1509.04	3559.64	4234.21	21782.37	51376.92	57053.40	8813.61	364.18	1041.81	59.89	71.38	150242.42 Tonday
Mean	12.53	48.68	118.65	136.59	702.66	1712.56	1840.43	293.79	11.75	33.61	2.14	2.30	411.62 Ton/day
Max	63.99	143.34	1310.38	379.79	2843.49	9124.14	13010.53	1369.17	48.44	73.27	3.80	11.36	13010.53 Ton/day
Min	0.01	6.59	9.77	9.77	109.38	299.72	386.80	30.90	2.61	2.61	1.05	0.36	0.01 Ton/day

**WATER YEAR : 2021****Yom RIVER BASIN****Nam Pi at Ban Phi Tai , Nan (Y.65)**

Lat 18 - 52 - 38 N Long 100 - 26 - 20 E

Location : on right bank at the bridge on road.

	<b>Ban Phi Tai</b>	<b>Amphoe Ban Luang</b>	<b>Changwat Nan</b>
<b>Drainage Area</b>	129 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2018-Cont'd		
<b>Actual Measurement</b>	2018-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.7784		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.3672 QW^{1.46100}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.67	0.71	0.53	0.71	0.67	7.29	13.01	0.58	0.29	0.39	0.00	
2	0.00	1.41	0.62	0.62	0.49	0.58	5.32	6.28	0.49	0.35	0.37	0.00	
3	0.00	0.86	0.58	0.62	0.45	0.58	5.32	3.83	0.49	0.39	0.31	0.00	
4	0.01	0.67	0.49	0.58	0.41	1.07	2.76	2.26	0.49	0.39	0.31	0.00	
5	0.01	0.58	0.49	0.67	0.39	0.58	1.77	1.90	0.39	0.37	0.33	0.00	
6	0.01	0.62	0.49	0.49	0.39	0.53	1.41	1.52	0.39	0.35	0.28	0.00	
7	0.04	0.71	1.65	0.53	0.39	0.58	1.77	1.29	0.49	0.31	0.24	0.00	
8	0.19	0.58	7.64	1.18	0.39	0.62	1.18	1.29	0.49	0.29	0.24	0.00	
9	0.18	0.58	1.29	9.08	0.37	2.76	1.18	1.18	0.35	0.29	0.19	0.00	
10	0.26	0.49	0.86	3.01	0.37	9.83	1.90	1.07	0.18	0.33	0.11	0.00	
11	0.13	0.49	0.71	1.77	0.37	5.95	15.57	0.96	0.28	0.24	0.11	0.00	
12	0.12	0.45	0.67	0.81	0.39	1.90	14.70	0.81	0.21	0.33	0.11	0.00	
13	0.12	0.41	0.62	0.81	0.39	0.81	8.35	0.81	0.13	0.37	0.11	0.00	
14	0.15	0.58	102.77	0.53	0.39	1.90	3.01	0.71	0.13	0.37	0.11	0.00	
15	0.13	0.58	16.01	0.62	0.49	1.29	1.41	0.81	0.16	0.37	0.11	0.00	
16	0.16	0.49	5.32	0.62	0.76	0.96	1.65	0.81	0.19	0.21	0.11	0.00	
17	0.28	0.53	3.01	0.49	0.96	0.81	2.76	0.81	0.15	0.26	0.12	0.00	
18	0.45	0.49	1.65	0.37	0.71	0.96	1.41	0.81	0.16	0.39	0.12	0.00	
19	0.67	0.96	0.81	0.31	5.95	0.96	1.07	0.76	0.15	0.45	0.00	0.00	
20	0.39	4.41	0.67	0.33	6.61	1.65	1.07	0.76	0.23	0.45	0.00	0.00	
21	0.39	1.07	0.58	0.39	3.55	3.28	1.41	0.71	0.21	0.58	0.00	0.00	
22	0.35	0.49	0.45	0.39	1.07	14.70	3.83	0.67	0.13	0.53	0.00	0.00	
23	0.24	0.58	0.33	0.45	0.71	6.61	15.13	0.62	0.13	0.49	0.00	0.00	
24	0.19	0.76	0.24	0.45	3.28	3.01	5.63	0.67	0.29	0.45	0.00	0.00	
25	0.19	2.76	0.13	0.81	4.11	2.51	3.01	0.62	0.35	0.45	0.00	0.00	
26	0.28	3.83	0.12	1.29	1.29	1.52	1.77	0.62	0.33	0.45	0.00	0.00	
27	0.31	1.41	0.58	0.86	0.76	0.81	1.29	0.62	0.37	0.41	0.00	0.00	
28	0.49	5.95	0.39	0.62	0.86	30.33	1.90	0.62	0.45	0.41	0.00	0.00	
29	0.28	21.59	0.71	0.49	0.53	8.35	2.51	0.58	0.37	0.41	0.00	0.00	
30	0.53	3.01	0.58	0.49	0.45	10.99	2.51	0.58	0.31	0.39	0.00	0.00	
31		1.07		0.67	0.41		11.38		0.29	0.39		0.00	
Total	6.55	59.08	151.17	30.88	38.40	117.10	131.27	47.99	9.36	11.76	3.67	0.00	607.23 Tonday
Mean	0.22	1.91	5.04	1.00	1.24	3.90	4.23	1.60	0.30	0.38	0.13	0.00	1.66 Ton/day
Max	0.67	21.59	102.77	9.08	6.61	30.33	15.57	13.01	0.58	0.58	0.39	0.00	102.77 Ton/day
Min	0.00	0.41	0.12	0.31	0.37	0.53	1.07	0.58	0.13	0.21	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Nan River at Forestry Office , Nan (N.1)**

Lat 18 - 46 - 30 N Long 100 - 46 - 47 E

**Location : on right bank in front of Forestry Office.**

	<b>Ban</b> Forestry Office	<b>Amphoe</b> Mueang	<b>Changwat</b> Nan
<b>Drainage Area</b>	4,570 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1979-Cont'd		
<b>Actual Measurement</b>	1979-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	34		
<b>R-Square</b>	0.8861		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.1848 QW^{1.91240}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.68	131.46	23.96	216.91	4763.42	1486.52	954.22	368.73	66.46	15.92	8.38	7.55	
2	2.35	155.10	17.41	201.52	5460.61	1110.19	1517.63	547.08	66.46	15.92	6.76	6.76	
3	2.04	131.46	9.25	216.91	15594.44	1192.38	1425.22	667.09	69.72	15.92	6.76	6.76	
4	2.35	131.46	7.55	167.61	15468.80	1580.77	1710.73	444.98	69.72	14.50	6.76	5.31	
5	4.65	73.05	10.17	112.68	9658.43	1517.63	1425.22	325.45	63.27	14.50	6.02	4.65	
6	112.68	29.54	38.54	103.81	5129.60	1914.83	1004.96	249.29	40.97	13.15	7.55	4.65	
7	1395.03	23.96	31.68	368.73	3231.69	2633.12	769.50	224.80	36.18	13.15	9.25	4.21	
8	547.08	17.41	14.50	500.51	2203.99	2355.82	631.64	187.26	33.89	13.15	9.25	6.76	
9	161.30	17.41	46.04	2633.12	1580.77	1710.73	530.86	180.59	33.89	11.12	8.38	11.12	
10	117.25	18.95	76.46	1645.14	1192.38	2203.99	444.98	201.52	36.18	11.12	6.02	10.17	
11	43.47	17.41	194.04	835.81	1083.41	1645.14	631.64	167.61	36.18	10.17	3.03	7.55	
12	29.54	11.12	155.10	472.35	1395.03	1164.67	1030.80	149.01	40.97	9.25	4.65	5.31	
13	22.23	13.15	121.90	315.03	1083.41	1083.41	1486.52	137.19	29.54	9.25	6.02	4.65	
14	22.23	11.12	11118.64	224.80	979.43	1220.40	747.98	143.04	25.76	9.25	6.02	4.21	
15	10.17	12.11	63666.08	180.59	881.47	1743.99	614.27	143.04	23.96	8.38	5.31	4.21	
16	12.11	10.17	16355.25	726.74	4602.87	3742.83	514.88	131.46	23.96	8.38	4.21	8.38	
17	20.56	9.25	4392.88	580.21	5327.02	2355.82	444.98	149.01	23.96	10.17	4.65	31.68	
18	31.68	10.17	2317.41	379.95	3011.21	1743.99	368.73	137.19	23.96	14.50	4.65	63.27	
19	143.04	7.55	1248.74	304.78	2512.48	1306.33	325.45	126.63	23.96	29.54	5.31	51.39	
20	112.68	7.55	614.27	791.31	3888.43	1164.67	284.75	99.51	22.23	33.89	12.11	43.47	
21	43.47	10.17	379.95	2512.48	2166.79	1335.59	257.72	91.16	20.56	43.47	187.26	25.76	
22	25.76	6.02	266.29	2433.55	1365.16	1612.80	249.29	79.94	20.56	48.68	95.29	15.92	
23	15.92	6.02	216.91	1277.38	1056.95	1580.77	472.35	76.46	20.56	38.54	38.54	15.92	
24	12.11	5.31	180.59	881.47	1277.38	1220.40	705.80	73.05	20.56	27.62	22.23	15.92	
25	11.12	5.31	126.63	2394.54	3647.23	929.32	418.38	69.72	20.56	20.56	17.41	20.56	
26	10.17	13.15	99.51	3367.54	2394.54	1030.80	325.45	66.46	20.56	15.92	14.50	22.23	
27	11.12	20.56	99.51	14850.94	1777.55	1645.14	274.98	76.46	20.56	15.92	12.11	15.92	
28	12.11	18.95	108.20	6733.67	1306.33	2166.79	224.80	69.72	20.56	13.15	9.25	11.12	
29	91.16	23.96	274.98	3742.83	1004.96	1743.99	209.15	63.27	18.95	12.11		51.39	
30	126.63	103.81	346.77	6585.94	791.31	1248.74	224.80	63.27	17.41	10.17		294.68	
31		38.54		9308.72	726.74		294.68		17.41	9.25		117.25	
Total	3154.69	1091.20	102559.21	65067.57	106563.83	49391.57	20522.36	5509.99	1009.47	536.62	527.68	898.73	356832.92 Tonday
Mean	105.16	35.20	3418.64	2098.95	3437.54	1646.39	662.01	183.67	32.56	17.31	18.85	28.99	977.62 Ton/day
Max	1395.03	155.10	63666.08	14850.94	15594.44	3742.83	1710.73	667.09	69.72	48.68	187.26	294.68	63666.08 Ton/day
Min	2.04	5.31	7.55	103.81	726.74	929.32	209.15	63.27	17.41	8.38	3.03	4.21	2.04 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Nai Mueang , Uttaradit (N.2B)

Lat 17 - 36 - 36 N Long 100 - 05 - 59 E

Location : on right bank at Mueang, Uttaradit.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Uttaradit
<b>Drainage Area</b>	16,744 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2015,2020-Cont'd		
<b>Actual Measurement</b>	2015,2020-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.1924		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 32.7029 QW^{0.55050}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	574.66	550.86	512.05	832.46	389.35	364.35	347.56	345.10	342.62	349.99	349.99	357.23	
2	574.66	432.40	531.74	827.97	417.49	392.11	340.15	347.56	345.10	369.60	359.62	366.71	
3	582.42	494.67	553.54	884.67	411.93	394.85	319.70	342.62	347.56	406.30	372.47	345.10	
4	587.54	534.51	471.34	834.77	409.12	389.35	330.06	342.62	342.62	394.85	352.42	362.01	
5	600.70	491.72	500.52	771.73	523.38	383.79	354.84	340.15	335.12	400.61	366.71	380.99	
6	613.96	488.76	517.74	731.07	587.54	369.60	347.56	335.12	340.15	386.58	364.35	359.62	
7	611.32	488.76	503.42	698.57	587.54	357.23	332.61	330.06	335.12	337.65	375.33	369.60	
8	616.58	500.52	579.84	632.13	572.06	345.10	322.32	327.49	337.65	337.65	375.33	340.15	
9	613.96	479.95	595.33	603.37	479.95	409.12	319.70	324.93	337.65	345.10	366.71	359.62	
10	600.70	482.80	598.02	619.19	468.44	509.19	311.76	322.32	332.61	342.62	357.23	383.79	
11	540.00	491.72	584.99	598.02	456.68	545.45	309.09	319.70	330.06	392.11	366.71	477.10	
12	526.18	500.52	526.18	587.54	523.38	637.25	319.70	317.09	335.12	392.11	357.23	474.22	
13	523.38	465.52	500.52	542.73	497.60	417.49	332.61	314.43	378.17	394.85	372.47	485.79	
14	528.97	485.79	517.74	534.51	512.05	378.17	340.15	314.43	372.47	394.85	372.47	471.34	
15	542.73	477.10	520.57	526.18	514.90	392.11	345.10	314.43	383.79	375.33	359.62	465.52	
16	542.73	528.97	553.54	542.73	542.73	579.84	352.42	314.43	378.17	349.99	352.42	482.80	
17	556.22	590.09	659.86	542.73	523.38	447.70	435.49	311.76	357.23	366.71	369.60	465.52	
18	520.57	606.03	634.69	497.60	520.57	441.63	444.67	309.09	314.43	400.61	359.62	471.34	
19	540.00	579.84	647.38	471.34	517.74	432.40	392.11	309.09	327.49	392.11	375.33	450.71	
20	534.51	595.33	637.25	453.70	450.71	392.11	383.79	314.43	330.06	392.11	364.35	420.25	
21	523.38	624.40	600.70	432.40	465.52	380.99	362.01	324.93	340.15	389.35	372.47	441.63	
22	488.76	598.02	561.54	435.49	456.68	375.33	386.58	335.12	357.23	397.74	372.47	438.57	
23	491.72	579.84	556.22	471.34	453.70	375.33	465.52	392.11	383.79	359.62	372.47	426.15	
24	488.76	577.26	587.54	465.52	394.85	389.35	528.97	378.17	392.11	349.99	366.71	441.63	
25	482.80	537.26	582.42	474.22	450.71	453.70	432.40	359.62	372.47	375.33	366.71	438.57	
26	485.79	520.57	626.98	577.26	474.22	392.11	380.99	354.84	397.74	359.62	366.71	438.57	
27	488.76	517.74	753.57	520.57	465.52	372.47	357.23	342.62	383.79	354.84	366.71	438.57	
28	494.67	523.38	801.38	435.49	414.72	364.35	352.42	347.56	357.23	364.35	364.35	429.28	
29	506.31	512.05	859.76	429.28	406.30	364.35	352.42	345.10	352.42	369.60		438.57	
30	479.95	528.97	808.09	380.99	420.25	406.30	352.42	345.10	352.42	364.35		441.63	
31		514.90		392.11	394.85		349.99		347.56	369.60		438.57	
Total	16262.69	16300.25	17884.46	17747.68	14703.86	12453.12	11302.34	10022.02	10940.10	11576.12	10238.58	13101.15	162532.37 Tonday
Mean	542.09	525.81	596.15	572.51	474.32	415.10	364.59	334.07	352.91	373.42	365.66	422.62	445.29 Ton/day
Max	616.58	624.40	859.76	884.67	587.54	637.25	528.97	392.11	397.74	406.30	375.33	485.79	884.67 Ton/day
Min	479.95	432.40	471.34	380.99	389.35	345.10	309.09	309.09	314.43	337.65	349.99	340.15	309.09 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Mueang , Phitsanulok (N.5A)

Lat 16 - 48 - 22 N Long 100 - 14 - 45 E

Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	24,876 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.5858		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.2952 QW^{1.44580}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	312.76	280.86	318.52	974.94	312.76	450.69	1191.69	868.34	184.25	176.48	170.89	176.48	
2	338.90	344.80	330.13	1085.26	260.30	500.19	1213.85	863.58	184.25	180.35	172.63	169.17	
3	321.39	347.78	365.71	1014.63	232.39	420.21	1332.18	821.16	180.35	174.55	174.55	170.89	
4	365.71	275.68	327.19	1147.77	270.52	375.03	1453.85	696.06	182.30	167.45	180.35	176.48	
5	413.66	309.88	333.03	1241.71	255.41	304.53	1477.40	666.78	178.41	164.02	184.25	157.23	
6	423.50	291.32	312.76	1075.08	236.94	230.13	1366.61	625.63	178.41	170.89	190.15	192.13	
7	621.56	227.87	344.80	926.01	350.73	188.17	1121.12	585.30	178.41	170.89	184.25	165.73	
8	532.83	212.26	378.20	887.43	413.66	167.45	935.73	511.00	182.30	192.13	184.25	172.63	
9	573.58	257.75	394.20	751.94	416.93	262.83	751.94	341.86	184.25	216.68	192.13	172.63	
10	633.79	273.08	447.22	609.40	341.86	844.65	633.79	283.45	184.25	196.10	184.25	174.55	
11	625.63	255.41	482.33	547.54	318.52	1602.89	554.94	296.59	182.30	192.13	184.25	170.89	
12	514.62	246.12	485.88	666.78	227.87	1933.24	629.71	286.07	180.35	180.35	182.30	169.17	
13	410.40	248.44	423.50	662.63	283.45	1657.64	802.52	234.66	176.48	186.21	174.55	162.31	
14	371.86	192.13	353.72	585.30	291.32	1153.23	858.84	223.37	172.63	178.41	169.17	162.31	
15	368.70	190.15	341.86	457.67	368.70	742.85	1070.00	198.10	170.89	162.31	172.63	184.25	
16	407.14	293.93	390.98	384.58	426.79	670.94	811.82	182.30	170.89	162.31	198.10	188.17	
17	475.24	333.03	461.17	387.78	381.39	960.18	858.84	176.48	178.41	165.73	194.11	210.22	
18	514.62	356.69	589.29	407.14	410.40	1180.67	1303.70	165.73	186.21	180.35	178.41	234.66	
19	500.19	397.42	601.33	324.31	371.86	1100.58	1506.99	152.20	180.35	178.41	178.41	275.68	
20	482.33	362.68	577.33	324.31	420.21	999.69	1453.85	167.45	176.48	180.35	192.13	384.58	
21	468.19	371.86	573.58	309.88	353.72	830.53	1292.36	165.73	174.55	188.17	210.22	378.20	
22	368.70	464.67	507.39	257.75	304.53	821.16	1126.27	202.11	164.02	221.14	202.11	390.98	
23	315.62	454.18	454.18	347.78	324.31	654.35	1343.63	218.91	164.02	198.10	234.66	390.98	
24	267.94	420.21	416.93	426.79	301.89	882.65	1743.91	194.11	167.45	172.63	216.68	362.68	
25	280.86	378.20	436.85	436.85	230.13	1286.70	1958.94	198.10	170.89	172.63	218.91	270.52	
26	243.82	507.39	433.41	482.33	216.68	1512.93	1812.63	210.22	169.17	174.55	216.68	236.94	
27	283.45	420.21	489.45	734.27	255.41	1436.27	1518.88	200.10	180.35	178.41	202.11	223.37	
28	270.52	344.80	662.63	761.06	384.58	1298.03	1418.76	186.21	190.15	169.17	188.17	216.68	
29	304.53	307.22	892.23	493.02	464.67	1258.53	1343.63	194.11	182.30	170.89		218.91	
30	296.59	347.78	877.87	335.98	543.85	1213.85	1258.53	186.21	174.55	184.25		225.62	
31		338.90		301.89	511.00		1034.66		178.41	172.63		260.30	
Total	12308.63	10052.70	14003.67	19349.81	10482.78	26940.79	37181.57	10301.92	5508.03	5578.67	5331.30	7045.34	164085.21 Ton/day
Mean	410.29	324.28	466.79	624.19	338.15	898.03	1199.41	343.40	177.68	179.96	190.40	227.27	449.55 Ton/day
Max	633.79	507.39	892.23	1241.71	543.85	1933.24	1958.94	868.34	190.15	221.14	234.66	390.98	1958.94 Ton/day
Min	243.82	190.15	312.76	257.75	216.68	167.45	554.94	152.20	164.02	162.31	169.17	157.23	152.20 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Ban Rat Chang Khwan , Phichit (N.7A)

Lat 16 - 28 - 10 N Long 100 - 19 - 51 E

Location : on right bank in front of Phichit Phitthaya Khom School

	<b>Ban</b>	<b>Rat Chang Khwan</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phichit</b>
<b>Drainage Area</b>	27,969 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2001-Cont'd					
<b>Actual Measurement</b>	2001-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	21					
<b>R-Square</b>	0.6761					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 6.0007 QW^{0.95160}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	565.08	574.32	626.55	1117.40	696.86	963.46	3166.16	2718.07	589.71	454.10	432.44	444.83	
2	583.55	562.00	605.07	1199.06	666.33	935.03	3183.34	2700.91	577.40	451.02	429.32	423.11	
3	611.21	644.93	611.21	1257.57	635.74	959.93	3217.70	2709.49	568.16	454.10	426.24	407.60	
4	608.14	666.33	629.61	1241.99	623.48	1019.30	3273.46	2666.63	562.00	447.91	426.24	515.75	
5	654.10	611.21	608.14	1341.92	644.93	1041.98	3303.50	2576.93	555.83	429.32	432.44	565.08	
6	693.81	614.28	605.07	1374.51	629.61	1030.64	3312.08	2496.11	546.58	423.11	444.83	620.41	
7	739.48	592.78	598.93	1261.44	644.93	895.90	3230.55	2411.58	509.61	432.44	444.83	429.32	
8	853.09	518.85	623.48	1163.93	757.70	804.06	3105.98	2322.63	521.90	466.46	432.44	407.60	
9	822.75	503.45	654.10	1136.52	819.64	878.05	2959.57	2150.74	491.14	497.30	435.52	410.68	
10	856.63	546.58	675.50	1015.52	804.06	1265.35	2773.85	1963.26	491.14	488.08	447.91	410.68	
11	906.56	565.08	730.35	885.18	724.27	2083.03	2636.72	1819.05	484.97	466.46	441.71	410.68	
12	888.77	528.04	760.74	856.63	647.99	2619.62	2611.07	1766.83	481.91	457.21	438.64	410.68	
13	791.60	503.45	766.81	938.61	562.00	2778.20	2765.20	1702.45	481.91	444.83	435.52	407.60	
14	706.00	494.24	718.18	945.72	592.78	2718.07	2856.00	1557.14	472.64	451.02	426.24	398.79	
15	666.33	466.46	657.16	863.78	623.48	2436.95	2907.81	1451.76	466.46	441.71	413.81	401.65	
16	657.16	441.71	651.05	785.36	699.91	2229.55	2925.06	1378.59	463.39	416.90	423.11	426.24	
17	699.91	549.66	699.91	763.77	751.63	2263.26	2890.54	1280.92	463.39	413.81	463.39	438.64	
18	760.74	592.78	769.84	772.87	739.48	2432.70	2959.57	1202.99	472.64	420.03	451.02	466.46	
19	791.60	626.55	870.92	785.36	739.48	2513.04	3088.77	1167.81	481.91	438.64	432.44	497.30	
20	782.24	657.16	874.51	727.31	733.40	2508.75	3136.05	1091.03	469.57	435.52	438.64	562.00	
21	766.81	638.80	863.78	715.14	745.55	2470.76	3105.98	967.03	460.28	441.71	457.21	666.33	
22	733.40	651.05	835.19	669.39	681.60	2496.11	3006.95	867.37	454.10	460.28	475.74	678.55	
23	660.22	724.27	785.36	635.74	635.74	2424.24	2972.48	845.94	441.71	497.30	475.74	690.76	
24	592.78	727.31	736.44	724.27	641.86	2398.86	3075.84	791.60	444.83	475.74	500.40	687.71	
25	543.49	702.95	699.91	828.97	592.78	2615.34	3179.03	641.86	447.91	438.64	488.08	654.10	
26	543.49	681.60	702.95	924.38	515.75	2907.81	3204.80	641.86	447.91	429.32	488.08	562.00	
27	512.70	751.63	709.05	1098.57	503.45	3080.16	3123.18	657.16	447.91	432.44	484.97	512.70	
28	537.31	709.05	763.77	1301.13	595.85	3105.98	3006.95	635.74	447.91	429.32	488.08	488.08	
29	534.22	644.93	927.92	1265.35	760.74	3110.26	2899.17	614.28	451.02	423.11		478.81	
30	565.08	605.07	1075.95	989.02	867.37	3148.97	2830.08	608.14	451.02	426.24		481.91	
31		629.61		782.24	967.03		2786.85		454.10	441.71		497.30	
Total	20628.25	18726.13	21837.45	30368.65	21245.42	62135.36	93494.29	46405.90	15100.96	13825.78	12575.03	15453.35	371796.57 Tonday
Mean	687.61	604.07	727.92	979.63	685.34	2071.18	3015.94	1546.86	487.13	445.99	449.11	498.50	1018.62 Ton/day
Max	906.56	751.63	1075.95	1374.51	967.03	3148.97	3312.08	2718.07	589.71	497.30	500.40	690.76	3312.08 Ton/day
Min	512.70	441.71	598.93	635.74	503.45	804.06	2611.07	608.14	441.71	413.81	413.81	398.79	398.79 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

Nan River at Bang Mun Nak , Phichit (N.8)

Lat 16 - 01 - 52 N Long 100 - 22 - 38 E

Location : on right bank opposite to Wat Bang Mun Nak.

	<b>Ban -</b>	<b>Amphoe</b>	Bang Mun Nak	<b>Changwat</b>	Phichit
<b>Drainage Area</b>	32,594	sq.km.			
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1997-Cont'd				
<b>Actual Measurement</b>	1997-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	21				
<b>R-Square</b>	0.6337				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 3.0343 QW^{1.08460}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	358.98	572.68	551.61	1041.39	786.78	1022.98	4599.88	4176.56	633.49	351.01	319.33	367.01	
2	358.98	605.98	542.58	1108.23	682.71	1067.26	4640.38	4076.72	609.02	348.35	311.44	348.35	
3	375.25	587.75	518.70	1199.56	633.49	1157.33	4660.74	4138.70	581.75	343.06	314.08	321.94	
4	386.23	645.73	536.56	1222.67	602.95	1253.60	4715.01	4138.70	560.60	337.78	311.44	308.98	
5	372.52	605.98	548.60	1242.02	596.84	1338.79	4728.55	4076.72	515.75	335.12	314.08	306.58	
6	337.78	557.59	533.61	1343.02	599.87	1372.64	4721.78	3979.38	483.12	321.94	316.68	308.98	
7	324.59	551.61	527.65	1330.33	581.75	1321.86	4715.01	3864.63	489.03	311.44	329.85	306.58	
8	321.94	512.75	518.70	1226.56	621.22	1176.50	4599.88	3743.84	468.52	321.94	324.59	324.59	
9	327.24	454.01	533.61	1141.96	729.42	1138.14	4421.04	3535.13	442.44	356.31	314.08	306.58	
10	351.01	439.58	554.57	1082.13	786.78	1338.79	4247.22	3259.43	436.67	389.02	316.68	306.58	
11	343.06	477.21	609.02	989.91	754.85	1908.42	4112.41	2924.12	442.44	372.52	324.59	304.12	
12	319.33	486.10	664.15	893.02	679.59	2862.14	4068.01	2625.63	477.21	369.79	327.24	308.98	
13	304.12	454.01	701.25	886.25	587.75	3399.25	4093.35	2417.42	428.05	369.79	329.85	301.72	
14	343.06	439.58	710.57	931.33	521.70	3492.85	4157.31	2147.55	416.63	367.01	329.85	299.27	
15	351.01	419.39	661.09	916.73	539.57	3522.46	4182.98	1936.40	402.78	343.06	324.59	287.14	
16	337.78	351.01	615.14	842.52	587.75	3307.39	4099.65	1775.50	389.02	329.85	321.94	291.98	
17	324.59	372.52	618.18	780.33	664.15	3172.62	4157.31	1592.93	378.03	308.98	340.44	319.33	
18	327.24	468.52	664.15	770.75	707.50	3226.32	4247.22	1448.46	383.50	314.08	372.52	327.24	
19	364.29	512.75	748.47	773.94	710.57	3364.38	4363.04	1330.91	405.58	308.98	353.68	364.29	
20	364.29	551.61	826.10	777.14	698.19	3446.00	4466.19	1233.81	386.23	321.94	348.35	397.29	
21	358.98	569.66	816.27	713.69	710.57	3534.28	4512.19	1117.78	375.25	321.94	358.98	483.12	
22	345.73	560.60	829.41	695.07	707.50	3660.66	4485.55	993.06	367.01	332.51	383.50	569.66	
23	332.51	584.72	783.53	636.54	645.73	3648.35	4433.93	904.56	356.31	356.31	394.50	596.84	
24	324.59	645.73	726.25	633.49	605.98	3642.23	4446.83	884.10	345.73	386.23	402.78	621.22	
25	314.08	654.93	673.42	729.42	605.98	3803.28	4485.55	833.70	343.06	367.01	411.08	615.14	
26	337.78	642.68	639.58	839.26	554.57	4157.31	4518.94	737.35	345.73	329.85	402.78	566.64	
27	380.76	636.54	642.68	960.59	483.12	4427.48	4498.75	679.24	364.29	321.94	397.29	474.33	
28	391.76	664.15	654.93	1168.80	471.40	4579.60	4421.04	663.05	348.35	321.94	389.02	419.39	
29	380.76	627.35	751.66	1326.09	587.75	4586.36	4324.40	619.48	361.61	316.68		394.50	
30	337.78	554.57	924.03	1245.86	764.42	4586.36	4247.22	594.90	361.61	301.72		391.76	
31		527.65		989.91	906.56		4195.82		358.98	308.98		391.76	
Total	10398.02	16734.94	19626.07	30438.51	20117.01	84515.63	136567.18	66449.76	13257.79	10487.08	9685.23	11931.89	430209.11 Ton/day
Mean	346.60	539.84	654.20	981.89	648.94	2817.19	4405.39	2214.99	427.67	338.29	345.90	384.90	1178.66 Ton/day
Max	391.76	664.15	924.03	1343.02	906.56	4586.36	4728.55	4176.56	633.49	389.02	411.08	621.22	4728.55 Ton/day
Min	304.12	351.01	518.70	633.49	471.40	1022.98	4068.01	594.90	343.06	301.72	311.44	287.14	287.14 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Ban Hat Phai , Uttaradit (N.12A)

Lat 17 - 44 - 13 N Long 100 - 31 - 54 E

Location : on right bank about 4 kilometers downstream, Sirikit Dam Site, along Phasom - Silot road.

	<b>Ban Hat Phai</b>	<b>Amphoe Tha Pla</b>	<b>Changwat Uttaradit</b>
<b>Drainage Area</b>	15,562 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	9		
<b>R-Square</b>	0.1034		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 19321.6714 QW^{-0.68990}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	577.18	734.32	608.53	331.32	1029.94	1161.98	1880.43	1771.71	1594.14	1395.39	2078.72	1292.82	
2	538.50	712.51	644.34	319.71	1074.92	1143.15	1634.38	1824.09	1556.25	1245.32	1161.98	2156.93	
3	560.97	618.27	741.99	297.29	989.21	1424.27	2156.93	1634.38	1367.90	1395.39	1268.44	1245.32	
4	520.96	623.29	705.57	309.84	719.59	1107.75	1424.27	1677.19	2903.41	989.21	1245.32	1015.88	
5	507.89	741.99	749.81	358.04	557.08	1223.05	1395.39	2234.63	1634.38	1424.27	2078.72	1454.66	
6	564.92	712.51	719.59	439.29	581.42	1454.66	1722.86	4058.59	1677.19	2156.93	1594.14	1268.44	
7	531.30	698.82	549.52	486.83	557.08	1268.44	1424.27	1941.24	1634.38	1771.71	1316.71	2515.91	
8	534.88	757.88	517.60	531.30	841.59	1201.88	1941.24	2319.56	2156.93	1556.25	1454.66	1594.14	
9	495.59	719.59	517.60	524.34	712.51	871.40	2412.85	1824.09	2758.70	2234.63	2078.72	1143.15	
10	623.29	712.51	534.88	504.73	814.16	749.81	3258.07	1771.71	2078.72	952.30	1292.82	719.59	
11	719.59	734.32	623.29	531.30	655.53	511.07	1771.71	2319.56	1824.09	1161.98	2078.72	805.50	
12	741.99	772.97	741.99	545.82	673.27	1029.94	1594.14	2234.63	1771.71	1341.71	1223.05	851.25	
13	685.75	780.80	679.42	577.18	655.53	2234.63	1245.32	2319.56	2156.93	1074.92	1367.90	939.62	
14	698.82	788.83	661.33	628.41	623.29	1059.44	1880.43	2319.56	1143.15	1556.25	1454.66	952.30	
15	673.27	655.53	618.27	613.35	772.97	564.92	1520.49	2078.72	1341.71	1722.86	2007.10	797.06	
16	603.79	534.88	444.06	618.27	726.88	871.40	1594.14	2515.91	1824.09	1486.68	1367.90	851.25	
17	673.27	560.97	453.98	765.34	788.83	1029.94	1634.38	2758.70	2234.63	1181.45	2078.72	892.77	
18	719.59	534.88	469.94	757.88	780.80	915.46	1594.14	3068.25	1677.19	1454.66	1201.88	1044.38	
19	560.97	531.30	486.83	757.88	915.46	1395.39	1722.86	1824.09	1941.24	1074.92	1634.38	1074.92	
20	628.41	557.08	478.45	1002.38	757.88	927.35	1722.86	1520.49	1245.32	1245.32	2234.63	952.30	
21	726.88	564.92	531.30	1029.94	915.46	1454.66	2156.93	1824.09	1268.44	989.21	2007.10	927.35	
22	679.42	542.19	594.59	881.93	952.30	1677.19	3068.25	1880.43	952.30	1161.98	1722.86	1292.82	
23	749.81	549.52	538.50	892.77	1015.88	1091.09	1341.71	1824.09	952.30	2234.63	1486.68	1029.94	
24	805.50	633.60	531.30	881.93	881.93	1029.94	1454.66	2007.10	1634.38	1341.71	1268.44	1044.38	
25	757.88	633.60	507.89	734.32	788.83	1223.05	1941.24	1395.39	952.30	1556.25	1424.27	989.21	
26	685.75	712.51	418.78	608.53	757.88	1594.14	2007.10	2319.56	1201.88	1486.68	1677.19	1107.75	
27	741.99	719.59	337.88	915.46	903.94	1367.90	1824.09	1556.25	2007.10	1341.71	1771.71	1268.44	
28	661.33	705.57	305.18	1074.92	1044.38	861.18	2319.56	2319.56	1880.43	1181.45	1677.19	1044.38	
29	823.06	618.27	314.68	1074.92	1074.92	1059.44	1556.25	1941.24	1722.86	1316.71		976.55	
30	841.59	749.81	326.28	1143.15	1245.32	1556.25	2412.85	1824.09	1771.71	1722.86		1268.44	
31		649.89		1059.44	1125.17		2007.10		2234.63	1316.71		1044.38	
<b>Total</b>	19634.14	20562.72	16353.37	21197.81	25933.95	35060.77	57620.90	62908.46	53100.39	44072.05	45254.61	35561.83	437261.00 Ton/day
<b>Mean</b>	654.47	663.31	545.11	683.80	836.58	1168.69	1858.74	2096.95	1712.92	1421.68	1616.24	1147.16	1197.98 Ton/day
<b>Max</b>	841.59	788.83	749.81	1143.15	1245.32	2234.63	3258.07	4058.59	2903.41	2234.63	2234.63	2515.91	4058.59 Ton/day
<b>Min</b>	495.59	531.30	305.18	297.29	557.08	511.07	1245.32	1395.39	952.30	952.30	1161.98	719.59	297.29 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Khek River at Ban Wang Nok Aen , Phitsanulok (N.24A)

Lat 16 - 50 - 50 N Long 100 - 30 - 44 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

	<b>Ban Wang Nok Aen</b>	<b>Amphoe Wang Thong</b>	<b>Changwat Phitsanulok</b>
<b>Drainage Area</b>	1,840 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.8930		
<b>Remarks</b>	Continued Sediment Station		

QS = 1.2821 QW<sup>1.63440</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.47	696.96	35.13	11.41	256.12	541.02	3484.32	946.73	44.00	16.82	9.38	8.62	
2	3.47	197.17	26.91	18.09	233.59	1503.97	2617.06	613.74	42.85	16.25	9.11	6.58	
3	3.72	136.86	21.29	11.41	151.00	2349.74	2481.21	724.47	40.58	15.92	8.89	7.10	
4	3.60	185.76	17.80	10.12	178.30	2514.52	1695.31	473.58	38.36	15.64	8.41	6.74	
5	3.85	141.52	15.31	8.62	498.78	3956.13	1272.46	473.58	36.19	15.31	8.62	6.74	
6	93.53	58.81	13.59	8.41	260.72	3295.54	1209.01	356.65	34.60	14.76	8.62	6.58	
7	63.03	35.66	12.21	9.11	304.60	1718.57	981.25	309.52	33.03	14.44	8.62	6.23	
8	27.39	28.78	11.12	15.31	193.34	1401.19	857.84	287.10	32.08	13.86	8.41	19.39	
9	23.39	22.17	12.21	103.70	128.12	6197.86	628.53	240.26	31.57	13.59	8.02	28.29	
10	26.03	18.74	11.66	106.02	90.23	5458.40	551.13	208.84	30.63	13.33	7.64	24.70	
11	18.38	17.16	23.84	70.02	70.91	4306.93	1001.19	187.65	30.13	13.02	7.64	15.31	
12	25.16	20.92	16.82	55.79	57.25	5509.50	1952.75	169.15	29.70	12.76	7.47	11.12	
13	15.92	15.04	17.80	40.58	169.15	2944.71	1858.18	151.00	28.78	12.46	7.47	9.11	
14	66.49	17.45	20.12	41.15	78.22	2972.22	1219.80	136.86	28.29	11.96	7.31	8.89	
15	16.53	30.63	58.81	55.79	93.53	2744.59	981.25	126.62	27.81	11.66	7.64	8.89	
16	19.39	51.51	101.41	524.48	94.64	2808.61	1401.19	115.36	26.91	11.12	10.36	8.23	
17	40.58	27.81	75.44	380.98	174.62	4271.24	5381.28	106.02	26.03	11.12	11.96	7.47	
18	183.89	28.29	52.92	272.36	106.02	3785.10	3069.10	103.70	25.16	10.88	11.66	7.47	
19	201.03	71.81	37.27	197.17	73.62	3224.33	2274.34	103.70	24.30	10.64	12.76	16.82	
20	98.00	34.07	31.57	146.23	116.80	3557.70	1891.88	93.53	23.84	10.12	13.59	9.61	
21	84.83	35.13	26.50	151.00	101.41	3853.35	1332.49	89.14	23.39	9.84	14.17	33.55	
22	54.35	46.68	20.49	119.59	68.25	4042.75	1113.61	81.97	23.00	10.64	33.55	25.56	
23	31.57	70.02	16.82	440.57	59.65	2317.31	1026.33	77.29	21.73	11.12	22.55	15.92	
24	29.20	50.81	14.44	720.55	55.79	5064.60	813.27	71.81	21.73	12.46	16.25	15.31	
25	27.39	294.50	12.46	1782.80	66.49	13411.55	665.84	66.49	21.29	12.76	13.59	11.96	
26	19.03	214.78	11.66	1970.44	107.18	11091.80	567.99	62.18	20.49	13.33	11.96	10.88	
27	24.70	101.41	10.88	1510.48	123.76	11682.53	495.60	57.25	19.69	12.21	10.64	10.12	
28	56.52	51.51	10.36	830.78	206.88	7438.55	449.29	53.63	19.03	11.96	10.36	9.61	
29	81.97	129.50	10.12	406.14	296.93	5638.88	440.57	50.11	18.09	11.41		12.46	
30	57.25	72.71	9.61	240.26	292.09	3801.88	782.97	46.68	17.80	10.36		38.36	
31		45.33		214.78	602.97		1103.20		17.16	9.84		28.78	
Total	1403.66	2949.50	756.57	10474.14	5310.96	133405.07	45600.24	6584.61	858.24	391.59	316.65	436.40	208487.63 Tonday
Mean	46.79	95.15	25.22	337.88	171.32	4446.84	1470.98	219.49	27.69	12.63	11.31	14.08	571.20 Ton/day
Max	201.03	696.96	101.41	1970.44	602.97	13411.55	5381.28	946.73	44.00	16.82	33.55	38.36	13411.55 Ton/day
Min	3.47	15.04	9.61	8.41	55.79	541.02	440.57	46.68	17.16	9.84	7.31	6.23	3.47 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nam Khwae Noi at Ban Nong Krathao , Phitsanulok (N.36)

Lat 17 - 05 - 06 N Long 100 - 49 - 29 E

Location : on left bank about 50 meters upstream from the bridge along Lom Sak - Nakhon Thai Road, Tambon Nong Krathao.

	<b>Ban</b> Nong Krathao	<b>Amphoe</b> Nakhon Thai	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	1,663 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	12		
<b>R-Square</b>	0.9198		
<b>Remarks</b>	Continued Sediment Station		

QS = 2.8444 QW<sup>1.39780</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	57.57	21.85	19.89	377.68	463.14	714.53	222.48	13.52	10.99	0.00	0.00	
2	0.00	88.96	10.18	42.92	287.01	613.04	664.83	278.76	12.66	11.82	0.00	0.00	
3	0.00	84.54	5.78	23.86	200.67	724.51	630.54	159.03	11.82	10.18	0.00	0.00	
4	0.00	67.44	3.84	11.82	244.65	968.75	542.53	97.76	12.66	8.62	0.00	0.00	
5	0.00	38.18	2.19	7.92	358.48	2689.39	405.61	73.99	11.82	7.18	0.00	0.00	
6	5.78	33.52	0.48	5.11	250.03	2786.29	312.90	61.83	10.99	8.62	0.00	0.00	
7	3.25	16.19	1.69	5.11	149.00	1258.49	235.93	55.62	10.99	8.62	0.00	0.00	
8	31.22	10.99	2.73	15.28	132.24	922.47	197.60	51.13	11.82	7.18	0.00	0.00	
9	44.83	13.52	16.19	151.22	114.80	975.86	160.28	47.90	11.82	5.78	0.00	0.00	
10	30.12	8.62	17.04	274.67	74.49	2404.67	135.09	43.18	11.82	6.47	0.00	0.00	
11	19.89	7.18	26.90	181.71	55.99	1753.06	143.51	40.95	10.99	7.92	0.00	0.00	
12	30.12	4.46	49.96	120.07	47.20	1148.25	326.77	39.01	10.99	7.92	0.00	0.00	
13	23.86	2.73	61.35	77.93	45.52	1094.23	538.81	35.05	9.39	6.47	0.00	0.00	
14	25.93	3.25	50.32	70.69	48.17	955.40	473.17	33.52	10.99	5.11	0.00	0.00	
15	26.90	4.46	127.52	72.88	53.32	916.09	284.94	31.22	10.99	5.11	0.00	0.00	
16	18.93	5.11	192.04	115.71	73.38	792.33	225.65	27.96	10.99	5.11	0.00	0.00	
17	10.99	3.25	167.72	151.22	97.00	735.70	505.69	26.90	10.18	3.84	0.00	0.48	
18	31.22	6.47	140.37	135.09	109.93	694.49	679.52	25.93	8.62	2.73	2.19	4.46	
19	77.93	5.11	110.72	145.70	104.35	625.74	558.90	24.89	7.92	4.46	0.48	5.11	
20	73.99	3.84	68.03	115.71	79.16	635.36	440.44	24.89	9.39	7.92	0.18	4.46	
21	60.59	3.84	36.61	94.30	62.69	645.20	301.60	23.86	8.62	8.62	3.84	6.47	
22	41.89	3.84	15.28	102.69	57.57	596.23	209.94	21.85	9.39	13.52	17.98	9.39	
23	11.82	5.11	10.18	219.33	48.17	579.56	176.67	19.89	9.39	17.98	10.99	13.52	
24	7.92	10.99	9.39	563.01	35.87	600.42	151.22	18.93	9.39	17.04	1.69	16.19	
25	5.78	6.47	9.39	752.56	49.24	645.20	121.92	17.98	9.39	7.92	0.00	15.28	
26	2.73	17.04	7.18	962.07	213.06	955.40	97.76	17.04	10.18	0.82	0.00	11.82	
27	8.62	8.62	5.78	1498.18	274.67	1067.50	83.29	16.19	11.82	0.00	0.00	9.39	
28	17.04	10.18	7.18	1040.96	149.00	1019.05	72.88	16.19	13.52	0.00	0.00	6.47	
29	32.00	20.86	10.18	857.60	130.34	948.95	66.36	16.19	10.99	0.00		7.92	
30	53.68	32.72	10.18	699.44	165.19	809.55	72.28	14.39	10.18	0.00		15.28	
31		40.28		531.40	383.28		99.07		10.18	0.00		30.12	
Total	697.03	625.34	1198.25	9066.05	4472.15	31024.32	9630.23	1584.51	333.42	207.95	37.35	156.36	59032.96 Tonday
Mean	23.23	20.17	39.94	292.45	144.26	1034.14	310.65	52.82	10.76	6.71	1.33	5.04	161.73 Ton/day
Max	77.93	88.96	192.04	1498.18	383.28	2786.29	714.53	278.76	13.52	17.98	17.98	30.12	2786.29 Ton/day
Min	0.00	2.73	0.48	5.11	35.87	463.14	66.36	14.39	7.92	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nam Phak at Ban Tha Sakae , Phitsanulok (N.55)

Lat 17 - 15 - 11 N Long 100 - 37 - 42 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

	Ban Tha Sakae	Amphoe Chat Trakan	Changwat Phitsanulok
<b>Drainage Area</b>	972 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1994-Cont'd		
<b>Actual Measurement</b>	1994-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	14		
<b>R-Square</b>	0.8049		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9902 QW^{1.51530}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	198.12	277.39	286.62	65.49	11.35	4.97	0.00	3.03	
2	0.00	0.00	0.00	0.00	156.98	272.82	298.77	67.88	11.35	4.97	0.00	2.68	
3	0.00	0.00	0.00	0.00	134.94	284.25	321.33	50.54	10.80	4.56	0.00	2.35	
4	0.00	0.00	0.00	0.00	143.33	326.49	293.77	42.60	10.26	4.16	0.00	2.35	
5	0.00	0.00	0.00	0.00	88.26	438.58	241.72	39.72	9.74	4.56	0.00	2.35	
6	0.00	0.00	0.00	6.27	43.57	531.74	182.69	44.55	9.19	4.56	0.00	2.35	
7	0.00	0.00	0.00	10.80	31.56	477.76	155.30	41.63	9.19	4.16	0.00	2.35	
8	0.00	0.00	0.00	31.56	25.99	374.05	151.80	38.77	9.19	4.16	0.00	4.97	
9	0.00	0.00	39.72	33.32	20.13	410.06	151.80	36.04	8.68	4.16	0.00	5.82	
10	0.00	0.00	44.55	19.43	15.49	585.56	113.54	33.32	8.68	4.16	3.78	3.38	
11	0.00	0.00	49.51	15.49	13.07	648.85	107.72	34.22	8.68	4.16	3.38	3.03	
12	0.00	0.00	22.26	12.50	11.90	692.08	202.04	34.22	8.18	3.78	3.03	2.68	
13	0.00	0.00	11.35	9.19	11.35	634.61	321.33	31.56	8.18	3.38	3.03	2.35	
14	0.00	0.00	28.35	13.07	12.50	538.37	306.23	25.99	8.18	3.38	2.35	2.35	
15	0.00	0.00	71.58	25.27	34.22	483.90	226.79	23.75	8.18	3.38	4.56	2.04	
16	0.00	0.00	63.07	24.50	69.08	459.35	200.12	23.00	7.70	3.03	5.82	2.68	
17	0.00	0.00	29.15	80.44	46.48	483.90	385.05	22.26	7.22	3.03	4.16	2.04	
18	0.00	0.00	14.25	45.54	32.44	505.88	347.18	20.85	7.22	3.03	3.78	2.04	
19	0.00	0.00	0.00	25.27	23.00	561.80	263.84	20.13	6.72	2.68	3.78	5.82	
20	0.00	0.00	0.00	34.22	18.73	613.39	198.12	20.13	6.72	0.00	14.25	4.16	
21	0.00	0.00	0.00	45.54	16.73	599.42	153.55	20.13	6.72	0.00	48.50	3.78	
22	0.00	0.00	0.00	92.30	14.25	538.37	164.01	19.43	6.72	0.00	25.99	4.16	
23	0.00	0.00	0.00	175.13	11.90	531.74	178.90	18.73	7.22	0.00	10.26	6.72	
24	0.00	0.00	0.00	206.08	9.19	499.51	139.92	18.73	6.72	0.00	7.70	4.97	
25	0.00	0.00	0.00	200.12	59.60	568.42	110.61	17.40	6.72	0.00	6.72	10.26	
26	0.00	0.00	0.00	339.29	138.31	592.41	90.97	16.73	6.27	0.00	6.27	6.27	
27	0.00	0.00	0.00	456.21	119.46	515.42	76.59	16.11	6.72	0.00	6.27	4.56	
28	0.00	0.00	0.00	357.92	85.65	459.35	65.49	14.84	5.82	0.00	5.82	3.38	
29	0.00	0.00	0.00	259.35	72.80	412.86	58.39	13.07	5.82	0.00		3.78	
30	0.00	0.00	0.00	239.58	182.69	347.18	55.00	11.90	5.39	0.00		4.16	
31		0.00		208.12	266.05		51.63		5.39	0.00		3.38	
Total	0.00	0.00	373.79	2966.51	2107.77	14665.51	5900.82	883.72	244.92	74.27	169.45	116.24	27503.00 Ton/day
Mean	0.00	0.00	12.46	95.69	67.99	488.85	190.35	29.46	7.90	2.40	6.05	3.75	75.35 Ton/day
Max	0.00	0.00	71.58	456.21	266.05	692.08	385.05	67.88	11.35	4.97	48.50	10.26	692.08 Ton/day
Min	0.00	0.00	0.00	0.00	9.19	272.82	51.63	11.90	5.39	0.00	0.00	2.04	0.00 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nam Fua at Ban Kok Muang , Phitsanulok (N.58)

Lat 17 - 08 - 50 N Long 100 - 55 - 49 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

	<b>Ban</b>	<b>Kok Muang</b>	<b>Amphoe</b>	<b>Nakhon Thai</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	316	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2001-Cont'd					
<b>Actual Measurement</b>	2001-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	19					
<b>R-Square</b>	0.8534					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 14.0087 QW^{1.91960}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.11	11.69	0.11	150.10	2100.58	1373.54	135.38	4.92	4.92	1.22	3.70	
2	0.02	0.11	7.66	0.09	108.15	1897.95	1400.27	121.40	4.92	4.92	1.22	3.70	
3	0.02	0.09	4.92	0.09	99.03	2942.37	624.60	114.68	4.92	4.92	1.22	3.70	
4	0.02	0.09	2.41	0.09	60.35	3005.41	486.86	101.80	5.77	4.45	1.67	4.14	
5	0.02	0.09	1.39	0.09	36.63	1742.96	330.55	92.95	7.06	4.45	3.02	4.45	
6	0.02	0.06	1.22	0.06	43.76	1667.83	300.66	80.71	8.27	4.45	3.70	4.92	
7	0.02	0.06	24.22	0.06	32.89	2184.38	257.84	73.41	7.66	4.45	3.70	4.92	
8	0.02	0.06	150.10	23.18	31.29	1781.11	257.84	64.19	7.66	4.45	4.14	4.92	
9	0.02	0.06	48.51	71.05	21.17	1481.95	257.84	51.98	7.66	4.14	4.14	4.45	
10	0.02	0.04	23.18	14.83	13.21	1243.59	257.84	47.06	7.06	4.14	4.14	4.45	
11	0.02	0.04	13.21	20.20	11.69	1144.09	354.17	41.01	7.06	4.14	3.70	4.14	
12	0.02	0.04	5.77	20.20	14.01	1594.29	285.66	34.12	8.27	4.14	3.70	4.14	
13	0.03	0.04	3.70	14.01	13.21	1347.06	278.86	28.97	7.66	4.14	3.42	4.14	
14	0.04	0.04	1.67	16.53	14.83	1168.59	278.86	24.22	7.66	3.70	3.42	4.14	
15	0.04	0.06	0.98	9.57	237.61	1008.56	278.86	21.17	7.66	3.70	3.42	4.14	
16	0.03	0.06	0.47	19.25	78.24	1193.34	525.84	16.53	7.06	3.70	4.45	4.14	
17	0.03	0.06	0.28	0.01	42.37	1373.54	668.43	15.67	7.06	3.42	24.22	4.45	
18	0.06	0.04	0.24	4.14	11.69	1294.83	272.13	14.01	7.06	3.42	15.67	4.45	
19	0.11	0.04	0.20	0.00	10.96	1243.59	223.21	13.21	7.66	3.42	19.25	4.45	
20	0.09	0.04	0.20	2.41	7.66	1294.83	278.86	12.44	7.66	3.02	14.01	5.77	
21	0.06	0.04	0.14	0.83	6.68	1119.84	278.86	11.69	7.66	2.77	14.83	18.32	
22	0.04	0.03	0.11	0.47	4.14	1119.84	278.86	10.25	7.06	2.41	11.69	23.18	
23	0.04	0.03	0.09	0.20	3.02	1029.53	272.13	8.91	7.06	2.19	9.57	21.17	
24	0.17	0.06	0.09	0.00	4.45	946.91	272.13	7.66	6.68	2.19	8.27	19.25	
25	0.09	0.42	0.06	0.00	10.96	926.77	272.13	7.06	6.13	1.87	6.13	18.32	
26	0.09	0.42	0.06	1168.59	24.22	1347.06	272.13	6.13	6.13	1.67	4.14	17.41	
27	0.06	5.25	0.09	99.03	48.51	1481.95	264.39	6.13	5.77	1.39	4.14	17.41	
28	0.04	34.12	0.09	394.38	71.05	1269.09	264.39	5.77	5.77	1.39	3.70	16.53	
29	0.32	30.12	0.09	214.19	66.44	1144.09	257.84	5.25	5.25	1.22		16.53	
30	0.37	19.25	0.06	125.21	51683.60	829.20	252.44	5.25	5.25	1.22		17.41	
31		15.67		128.30	1072.08		248.16		4.92	1.22		17.41	
<b>Total</b>	1.95	106.64	302.90	2347.17	54034.00	43925.13	11926.18	1179.01	208.39	101.63	185.90	290.25	114609.15 Tonday
<b>Mean</b>	0.07	3.44	10.10	75.72	1743.03	1464.17	384.72	39.30	6.72	3.28	6.64	9.36	314.00 Ton/day
<b>Max</b>	0.37	34.12	150.10	1168.59	51683.60	3005.41	1400.27	135.38	8.27	4.92	24.22	23.18	51683.60 Ton/day
<b>Min</b>	0.02	0.03	0.06	0.00	3.02	829.20	223.21	5.25	4.92	1.22	1.22	3.70	0.00 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Lam Nam Khan at Ban Na Pho Na Chan , Phitsanulok (N.59)

Lat 17 - 02 - 14 N Long 100 - 50 - 29 E

Location : on left bank at Ban Na Chan.

	Ban Na Pho Na Chan	Amphoe Nakhon Thai	Changwat Phitsanulok
Drainage Area	420 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2021		
Number of observation	16		
R-Square	0.9697		
Remarks	Continued Sediment Station		

$$QS = 3.8221 QW^{1.53320}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	10.89	0.00	8.31	34.13	26.66	239.46	159.28	2.41	0.25	1.84	0.00	
2	0.00	9.49	0.00	6.61	17.13	66.61	114.43	68.36	2.21	0.21	1.93	0.00	
3	0.00	7.63	0.00	3.48	12.18	379.06	135.50	16.44	2.12	0.13	2.56	0.00	
4	0.00	5.99	0.00	2.26	120.41	591.45	63.31	11.32	2.07	0.08	1.97	0.00	
5	0.00	4.86	0.00	1.79	32.51	1537.32	38.35	9.01	1.93	0.13	1.97	0.00	
6	0.00	0.00	0.00	4.86	13.71	591.45	39.40	7.78	1.44	0.10	1.97	1.20	
7	0.00	0.00	0.00	1.32	9.17	221.43	31.04	6.97	1.40	0.10	2.21	2.26	
8	0.00	0.00	0.00	28.76	24.17	199.00	38.35	6.33	1.24	0.15	2.12	2.98	
9	0.00	0.00	0.00	151.42	9.65	2451.61	21.34	5.78	1.16	0.54	1.97	2.66	
10	0.00	0.00	0.00	55.26	6.47	809.97	15.01	5.32	1.05	0.54	0.00	1.84	
11	0.00	0.00	0.00	16.05	5.45	267.69	61.61	4.99	0.57	0.54	0.00	1.53	
12	0.00	0.00	0.00	7.34	4.74	571.27	531.65	4.74	0.83	0.54	0.00	1.28	
13	0.00	0.00	0.00	4.99	5.18	159.28	451.42	4.55	0.73	0.51	0.00	0.94	
14	0.00	0.00	0.00	33.13	4.99	405.16	72.55	4.36	0.70	0.48	0.00	1.01	
15	0.00	0.00	0.00	15.29	5.12	159.28	38.88	4.12	0.60	0.51	0.00	1.12	
16	0.00	0.00	0.00	29.24	4.55	112.90	48.30	3.94	0.57	0.48	0.00	0.97	
17	0.00	0.00	0.00	60.07	4.24	167.94	674.57	3.71	0.54	0.83	0.00	0.87	
18	0.00	0.00	0.00	66.61	3.82	75.35	178.76	3.65	0.51	2.71	0.00	0.87	
19	0.00	0.00	0.00	38.88	3.36	187.53	80.87	3.65	0.46	2.98	0.00	0.83	
20	0.00	0.00	0.00	22.85	4.99	386.91	49.86	3.53	0.43	3.14	0.00	0.73	
21	0.00	0.00	0.00	19.35	4.06	87.39	35.64	3.36	0.38	3.03	0.00	0.83	
22	0.00	0.00	0.00	24.17	19.35	85.48	32.51	3.20	0.38	3.03	0.00	0.94	
23	0.00	0.00	0.00	985.89	3.71	114.43	29.72	3.14	0.35	4.24	0.00	1.70	
24	0.00	0.00	0.00	798.67	2.82	208.81	19.76	3.03	0.35	3.71	0.00	1.44	
25	0.00	0.00	0.00	949.75	7.12	667.50	16.05	2.87	0.35	3.20	0.00	1.24	
26	0.00	0.00	0.00	1179.08	456.67	768.82	12.62	2.82	0.32	2.66	0.00	1.05	
27	0.00	0.00	0.00	717.54	52.90	598.23	11.06	2.71	0.32	2.36	0.00	0.90	
28	0.00	0.00	0.00	178.76	21.66	973.79	10.23	2.66	0.32	2.12	0.00	0.83	
29	7.78	0.00	0.00	67.40	42.48	430.64	9.17	2.66	0.32	1.93		0.83	
30	16.44	0.00	0.00	36.15	42.48	142.45	8.62	2.56	0.30	1.79		0.80	
31		0.00		24.17	132.07		8.16		0.30	1.57		0.83	
Total	24.22	38.86	0.00	5539.45	1111.29	13445.41	3118.20	366.84	26.66	44.59	18.54	32.48	23766.54 Ton/day
Mean	0.81	1.25	0.00	178.69	35.85	448.18	100.59	12.23	0.86	1.44	0.66	1.05	65.11 Ton/day
Max	16.44	10.89	0.00	1179.08	456.67	2451.61	674.57	159.28	2.41	4.24	2.56	2.98	2451.61 Ton/day
Min	0.00	0.00	0.00	1.32	2.82	26.66	8.16	2.56	0.30	0.08	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Nan River at Ban Pha Khwang , Nan (N.64)**

Lat 19 - 00 - 55 N Long 100 - 46 - 49 E

Location : on right bank at the bridge on highway from Tambon Bo.

	<b>Ban</b>	<b>Pha Khwang</b>	<b>Amphee</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Nan</b>
<b>Drainge Area</b>	3,482	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1994-Cont'd					
<b>Actual Measurement</b>	1994-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	34					
<b>R-Square</b>	0.8946					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.3096 QW^{1.87380}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.27	119.97	37.53	259.27	2896.43	1133.09	866.19	371.79	91.65	34.44	25.19	17.49	
2	6.27	91.65	28.63	231.88	4684.84	792.55	1178.77	671.06	86.45	34.44	25.19	13.50	
3	3.58	91.65	23.54	181.40	19373.93	1110.56	1002.37	721.97	86.45	34.44	25.19	13.50	
4	3.97	81.39	20.41	181.40	11626.81	1521.95	1201.92	472.42	86.45	34.44	18.93	13.50	
5	8.08	58.64	54.82	139.13	6525.10	1320.85	982.35	371.79	86.45	34.44	17.49	13.50	
6	44.08	51.11	91.65	166.73	3269.92	2022.62	756.88	308.08	86.45	31.47	17.49	13.50	
7	671.06	51.11	37.53	1133.09	2022.62	2425.12	671.06	240.85	76.47	31.47	21.95	16.11	
8	360.79	28.63	37.53	513.96	1444.98	1708.77	528.79	249.98	71.70	28.63	23.54	20.41	
9	181.40	34.44	62.58	3269.92	1066.15	1600.78	446.21	231.88	67.06	28.63	20.41	17.49	
10	67.06	34.44	152.64	1272.65	942.88	1764.00	433.37	223.06	67.06	28.63	17.49	16.11	
11	62.58	31.47	197.58	671.06	810.68	1044.26	605.88	214.41	62.58	26.88	16.11	13.50	
12	40.74	28.63	159.61	383.76	1110.56	923.42	962.52	205.92	62.58	26.88	14.78	13.50	
13	37.53	23.54	139.13	298.00	704.81	847.50	756.88	205.92	54.82	23.54	14.78	13.50	
14	44.08	21.95	20070.00	205.92	739.33	1110.56	621.88	214.41	54.82	23.54	14.78	13.50	
15	31.47	20.41	56494.19	278.32	828.99	1820.04	485.79	197.58	58.64	21.95	13.50	13.50	
16	21.95	25.19	8111.47	1044.26	5821.05	3153.08	446.21	181.40	62.58	21.95	13.50	18.93	
17	18.93	25.19	2861.47	605.88	2792.15	1654.37	420.71	166.73	58.64	26.88	12.32	40.74	
18	21.95	18.93	1394.70	420.71	1496.09	1272.65	395.90	159.61	58.64	31.47	12.32	108.11	
19	62.58	14.78	810.68	459.23	1791.92	1002.37	339.24	145.81	58.64	31.47	13.50	145.81	
20	81.39	17.49	621.88	810.68	2826.71	942.88	298.00	139.13	51.11	62.58	102.48	62.58	
21	51.11	17.49	543.82	3191.81	1736.28	1110.56	223.06	145.81	47.53	71.70	268.72	47.53	
22	44.08	16.11	433.37	1708.77	923.42	1044.26	205.92	145.81	44.08	91.65	102.48	34.44	
23	34.44	13.50	288.09	962.52	671.06	1002.37	318.31	139.13	44.08	81.39	76.47	37.53	
24	34.44	13.50	278.32	942.88	1574.30	866.19	485.79	113.88	40.74	54.82	51.11	47.53	
25	28.63	12.32	278.32	2082.32	2457.49	739.33	371.79	108.11	40.74	47.53	34.44	34.44	
26	26.88	25.19	166.73	4783.37	1419.74	847.50	349.94	108.11	40.74	34.44	28.63	26.88	
27	20.41	34.44	119.97	11286.17	1002.37	1088.25	288.09	102.48	40.74	28.63	26.88	25.19	
28	25.19	37.53	181.40	3926.39	847.50	1681.47	268.72	97.00	40.74	28.63	23.54	21.95	
29	67.06	173.99	472.42	2689.67	638.08	1066.15	240.85	97.00	37.53	26.88		159.61	
30	81.39	231.88	420.71	6227.19	528.79	866.19	259.27	97.00	37.53	26.88		76.47	
31		62.58		4186.95	721.97		298.00		37.53	26.88		34.44	
Total	2189.39	1509.14	94590.72	54515.29	85296.95	39483.69	16710.66	6848.13	1841.22	1137.60	1053.21	1144.79	306320.79 Tonday
Mean	72.98	48.68	3153.02	1758.56	2751.51	1316.12	539.05	228.27	59.39	36.70	37.61	36.93	839.24 Ton/day
Max	671.06	231.88	56494.19	11286.17	19373.93	3153.08	1201.92	721.97	91.65	91.65	268.72	159.61	56494.19 Ton/day
Min	3.58	12.32	20.41	139.13	528.79	739.33	205.92	97.00	37.53	21.95	12.32	13.50	3.58 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Nam Yao at Ban Pang Sa , Nan (N.65)**

Lat 19 - 13 - 49 N Long 100 - 45 - 15 E

**Location : on right bank at the bridge on highway.**

	<b>Ban Pang Sa</b>	<b>Amphoe</b>	<b>Tha Wang Pha</b>	<b>Changwat</b>	<b>Nan</b>
<b>Drainage Area</b>	620 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1997-Cont'd				
<b>Actual Measurement</b>	1997-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	32				
<b>R-Square</b>	0.8185				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.4902 QW^{1.83900}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	7.17	2.45	7.79	69.84	33.22	27.88	27.88	6.57	4.04	2.74	1.95	
2	0.77	4.40	1.95	10.53	396.76	26.19	27.88	21.93	5.99	4.04	2.74	1.95	
3	1.11	3.70	1.95	9.11	1404.78	33.22	23.23	12.82	5.99	3.70	2.74	1.72	
4	3.05	3.05	1.95	7.79	609.07	59.32	24.55	18.26	5.99	3.70	2.74	1.72	
5	5.17	2.74	3.05	9.11	221.22	52.06	21.93	17.10	5.57	3.70	2.74	1.72	
6	17.10	2.20	3.36	11.27	87.94	43.05	21.93	14.89	5.57	3.70	2.45	1.72	
7	21.93	1.72	1.95	18.26	78.65	78.65	20.67	12.82	5.17	3.36	2.45	1.50	
8	9.81	1.72	3.36	20.67	67.01	38.98	17.10	12.03	5.17	3.36	2.45	1.95	
9	3.70	2.74	5.57	61.83	47.46	43.05	15.98	12.03	4.78	3.05	2.20	1.72	
10	2.74	2.74	49.73	35.09	31.39	40.99	14.89	11.27	4.78	3.05	2.20	1.72	
11	2.20	2.20	14.89	24.55	37.01	31.39	19.45	11.27	4.78	3.05	1.95	1.72	
12	5.17	2.45	8.44	17.10	56.85	23.23	24.55	10.53	4.40	3.05	1.95	1.72	
13	7.79	1.95	9.11	11.27	38.98	24.55	20.67	11.27	4.40	3.05	1.95	1.72	
14	4.04	1.50	1195.50	9.11	29.61	31.39	18.26	8.44	4.40	3.05	1.95	1.30	
15	2.74	1.50	547.74	11.27	115.54	67.01	15.98	8.44	4.40	2.74	1.72	2.45	
16	2.20	1.72	108.24	29.61	481.22	40.99	15.98	8.44	4.78	3.05	1.72	2.74	
17	2.45	1.50	72.72	15.98	147.63	37.01	14.89	7.79	4.40	3.70	1.95	2.20	
18	10.53	1.50	45.23	14.89	138.98	38.98	12.03	8.44	4.40	4.78	1.72	3.05	
19	11.27	1.72	10.53	156.53	91.14	24.55	11.27	9.11	4.40	4.04	2.20	2.45	
20	5.17	2.20	11.27	81.70	179.79	21.93	11.27	8.44	4.40	5.57	7.79	1.95	
21	4.04	1.95	9.81	175.02	134.74	21.93	12.03	8.44	4.40	5.99	4.40	1.50	
22	3.70	1.72	8.44	64.40	78.65	27.88	17.10	8.44	4.40	7.17	3.05	2.20	
23	2.74	1.72	6.57	38.98	56.85	45.23	56.85	8.44	4.04	5.57	3.05	1.95	
24	2.74	1.50	5.99	33.22	45.23	23.23	29.61	7.79	4.04	4.78	2.45	3.70	
25	2.74	2.45	5.57	38.98	170.31	19.45	19.45	7.79	4.04	4.04	2.20	3.70	
26	1.95	4.04	5.17	662.43	101.16	26.19	17.10	7.79	4.04	4.04	2.20	2.74	
27	1.95	2.74	6.57	232.18	64.40	31.39	13.84	7.17	4.04	3.70	1.95	2.45	
28	2.74	2.74	12.82	67.01	47.46	72.72	13.84	6.57	4.40	3.70	1.95	4.40	
29	3.05	3.05	10.53	38.98	43.05	40.99	12.82	6.57	4.40	3.70		33.22	
30	5.17	3.05	8.44	87.94	33.22	26.19	18.26	6.57	4.40	3.36		8.44	
31		2.45		59.32	31.39		29.61		4.04	3.05		4.40	
Total	150.53	77.83	2178.90	2061.92	5137.33	1124.96	620.90	328.77	146.58	120.88	71.60	107.67	12127.87 Tonday
Mean	5.02	2.51	72.63	66.51	165.72	37.50	20.03	10.96	4.73	3.90	2.56	3.47	33.23 Ton/day
Max	21.93	7.17	1195.50	662.43	1404.78	78.65	56.85	27.88	6.57	7.17	7.79	33.22	1404.78 Ton/day
Min	0.77	1.50	1.95	7.79	29.61	19.45	11.27	6.57	4.04	2.74	1.72	1.30	0.77 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)**

Lat 17 - 07 - 25 N Long 100 - 53 - 40 E

**Location : on right bank at Ban Noen Phoem.**

	<b>Ban</b> Noen Phoem	<b>Amphoe</b> Nakhon Thai	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	152 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	13		
<b>R-Square</b>	0.6031		
<b>Remarks</b>	Continued Sediment Station		

QS = 13.9689 QW<sup>1.24950</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	23.76	0.99	0.42	9.91	220.24	73.09	59.98	1.31	0.00	0.00	0.04	
2	0.00	6.17	0.69	0.33	7.69	73.09	167.45	16.09	1.20	0.00	0.00	0.04	
3	0.00	8.31	0.33	0.33	11.23	409.74	66.83	11.23	0.99	0.00	0.00	0.04	
4	0.00	1.87	0.11	0.25	306.74	1228.32	51.25	9.91	0.79	0.00	0.00	0.04	
5	0.00	1.41	0.00	0.00	28.11	1017.58	32.38	8.95	0.79	0.00	0.00	0.00	
6	0.00	0.99	0.00	0.11	16.09	231.80	24.93	8.00	0.79	0.00	0.00	0.00	
7	15.02	0.60	0.00	0.00	12.25	85.93	33.63	7.38	0.60	0.00	0.00	0.00	
8	7.69	0.50	0.17	25.92	44.77	131.06	19.57	6.77	0.60	0.00	0.00	0.00	
9	0.79	0.42	4.73	13.97	9.91	1391.66	15.74	5.88	0.60	0.00	0.00	0.00	
10	0.25	0.25	1.31	2.35	5.88	850.78	14.32	5.01	0.42	0.00	0.00	0.00	
11	0.17	0.17	1.41	1.41	4.31	581.10	20.70	4.45	0.42	0.00	0.00	0.00	
12	0.04	0.89	1.53	1.99	3.63	259.33	38.69	4.17	0.42	0.00	0.00	0.00	
13	0.04	0.42	1.31	8.95	5.58	124.00	34.88	3.90	0.50	0.00	0.00	0.00	
14	0.00	0.11	9.59	2.47	3.50	465.99	20.70	3.63	0.50	0.00	0.25	0.99	
15	0.00	0.00	13.62	36.78	6.47	94.03	13.97	3.50	0.50	0.00	0.25	0.60	
16	0.00	0.00	5.58	38.69	4.03	87.44	22.80	3.36	0.33	0.00	0.33	0.33	
17	0.00	0.69	82.68	9.59	3.23	100.72	138.19	3.10	0.25	0.00	0.33	0.42	
18	35.51	0.42	4.03	28.11	2.72	50.12	51.25	2.97	0.25	0.00	0.33	0.00	
19	1.31	0.25	1.53	5.01	1.99	56.50	34.25	2.85	0.25	0.00	0.25	0.00	
20	0.33	0.25	1.20	5.29	1.87	44.77	25.92	2.72	0.50	0.00	0.42	0.00	
21	0.25	0.04	0.79	4.17	1.75	161.45	21.65	2.11	0.42	0.00	0.50	0.00	
22	0.11	0.04	0.42	7.69	1.64	57.66	18.09	1.87	0.42	0.00	0.42	1.41	
23	0.04	1.41	0.00	478.68	1.53	65.16	15.74	1.87	0.33	0.00	0.50	1.20	
24	0.00	0.50	0.00	440.81	0.99	77.73	14.67	1.75	0.25	0.00	0.33	1.20	
25	0.00	0.50	0.00	391.32	0.99	573.02	13.27	1.75	0.17	0.00	0.17	1.09	
26	0.00	0.79	0.00	1648.04	2.60	525.07	12.59	1.75	0.11	0.25	0.11	0.89	
27	0.00	0.25	0.00	403.59	3.36	422.12	10.24	1.53	0.04	0.00	0.04	0.60	
28	0.11	0.60	4.31	146.52	2.23	243.48	7.69	1.41	0.00	0.00	0.04	0.42	
29	0.60	0.42	1.31	31.77	1.75	185.70	9.59	1.31	0.00	0.00		0.25	
30	0.89	0.99	1.09	16.45	56.50	92.50	13.27	1.20	0.00	0.00		0.17	
31		0.99		146.52	149.59		8.95		0.00	0.00		0.11	
Total	63.15	54.01	138.73	3897.53	712.84	9908.09	1046.29	190.40	13.75	0.25	4.27	9.84	16039.15 Tonday
Mean	2.10	1.74	4.62	125.73	22.99	330.27	33.75	6.35	0.44	0.01	0.15	0.32	43.94 Ton/day
Max	35.51	23.76	82.68	1648.04	306.74	1391.66	167.45	59.98	1.31	0.25	0.50	1.41	1648.04 Ton/day
Min	0.00	0.00	0.00	0.00	0.99	44.77	7.69	1.20	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Nan River at Ban Koei Chai, Nakhon Sawan (N.67)

Lat 15 - 52 - 08 N Long 100 - 15 - 52 E

Location : on right bank at the bridge near Wat Koei Chai Nua

	<b>Ban Koei Chai</b>	<b>Amphoe Chum Saeng</b>	<b>Changwat Nakhon Sawan</b>
<b>Drainge Area</b>	57,007 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2005-Cont'd		
<b>Actual Measurement</b>	2005-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	31		
<b>R-Square</b>	0.8833		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.6460 QW^{1.37570}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1024.43	1182.40	1008.72	2386.49	2605.70	4036.52	24375.90	22604.16	4055.62	954.25	702.01	885.45	
2	993.07	1298.52	1024.43	2620.95	2177.49	4560.57	24594.45	22604.16	3604.25	985.27	752.19	832.92	
3	969.73	1329.42	977.49	2883.89	1948.76	5040.68	24682.02	22732.56	3311.59	969.73	744.96	803.31	
4	1097.29	1340.70	977.49	3073.56	1715.05	5600.31	24813.53	22646.94	2946.75	938.84	687.84	773.99	
5	1220.77	1397.52	1050.77	3105.49	1548.19	6205.67	24813.53	22518.68	2560.09	908.22	687.84	759.44	
6	1329.42	1201.54	1041.53	3365.95	1420.42	6658.58	24725.83	22220.17	2190.40	840.37	781.29	759.44	
7	1454.97	1116.05	1050.77	3622.76	1329.42	6755.03	24594.45	21668.71	1874.08	803.31	795.95	818.08	
8	1654.92	1041.53	1016.57	3475.38	1249.77	6252.93	24288.63	21163.04	1849.36	795.95	832.92	862.83	
9	1948.76	931.16	1024.43	3105.49	1536.45	5738.49	23896.98	20452.30	1886.47	825.49	803.31	862.83	
10	1986.40	832.92	1060.03	2852.60	1775.76	6324.01	23248.12	19627.63	1751.41	908.22	744.96	847.84	
11	1986.40	847.84	1144.36	2636.23	1787.97	8178.64	22646.94	18528.20	1571.74	961.98	781.29	825.49	
12	2062.26	931.16	1269.21	2373.28	1642.97	12024.23	22305.35	17409.31	1466.53	908.22	832.92	795.95	
13	2113.26	877.89	1420.42	2203.33	1431.91	15659.50	22220.17	16418.81	1478.12	840.37	810.68	781.29	
14	1998.99	818.08	1513.05	2281.34	1144.36	17040.62	22475.97	15194.41	1489.74	818.08	803.31	766.70	
15	1654.92	788.61	1478.12	2373.28	1087.94	16967.14	22646.94	14066.12	1408.96	810.68	832.92	716.25	
16	1431.91	673.76	1352.01	2242.24	1144.36	16237.13	22732.56	13098.68	1278.96	818.08	840.37	702.01	
17	1308.33	611.39	1249.77	2049.56	1318.16	15551.83	22818.27	12150.39	1182.40	766.70	870.35	659.76	
18	1329.42	759.44	1329.42	1898.88	1524.74	15623.59	23032.92	11320.41	1078.61	730.57	1024.43	744.96	
19	1536.45	908.22	1501.38	1898.88	1595.39	16346.07	23766.82	10598.52	1016.57	716.25	1163.33	788.61	
20	1787.97	985.27	1763.57	1948.76	1678.90	16967.14	24157.89	9948.37	977.49	759.44	1097.29	862.83	
21	1824.74	1060.03	1849.36	1800.20	1911.32	17483.31	24375.90	9223.42	977.49	825.49	1024.43	954.25	
22	1715.05	1060.03	1849.36	1654.92	2177.49	18041.01	24245.03	8429.61	946.53	847.84	1041.53	1024.43	
23	1763.57	1060.03	1837.04	1536.45	2216.28	18227.97	24027.34	7655.71	915.85	855.33	1041.53	1363.35	
24	1443.43	1191.96	1654.92	1374.71	2100.48	18678.81	23983.87	7267.54	877.89	900.61	1000.89	1478.12	
25	1153.83	1308.33	1536.45	1536.45	2024.23	19398.75	24027.34	6876.13	862.83	969.73	1016.57	1607.25	
26	1000.89	1308.33	1352.01	2087.72	1886.47	20995.21	24114.35	6158.50	840.37	908.22	1008.72	1559.95	
27	1008.72	1230.42	1308.33	2575.27	1619.13	22433.28	24027.34	5554.45	832.92	818.08	961.98	1397.52	
28	1050.77	1308.33	1363.35	3275.49	1489.74	23334.35	23723.48	5304.09	832.92	803.31	915.85	1191.96	
29	1125.46	1318.16	1536.45	4093.88	1702.98	23940.42	23377.50	4859.11	877.89	803.31		1024.43	
30	1144.36	1163.33	1923.78	4209.26	2281.34	24201.45	22946.99	4462.21	931.16	781.29		923.50	
31		1008.72		3475.38	2994.13		22689.74		908.22	709.12		915.85	
Total	44120.49	32891.09	40464.59	80018.07	54067.30	414503.24	734376.15	422762.34	48783.21	26282.35	24601.66	29290.59	1952161.08 Tonday
Mean	1470.68	1061.00	1348.82	2581.23	1744.11	13816.77	23689.55	14092.08	1573.65	847.82	878.63	944.86	5348.39 Ton/day
Max	2113.26	1397.52	1923.78	4209.26	2994.13	24201.45	24813.53	22732.56	4055.62	985.27	1163.33	1607.25	24813.53 Ton/day
Min	969.73	611.39	977.49	1374.71	1087.94	4036.52	22220.17	4462.21	832.92	709.12	687.84	659.76	611.39 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Khlong Tron at Ban Wang Pla Kod , Uttaradit (N.72)**

Lat 17 - 27 - 32 N Long 100 - 16 - 25 E

Location : on right bank at Ban Wang Pla Kod.

	<b>Ban</b>	<b>Wang Pla Kod</b>	<b>Amphoe</b>	<b>Thong Saen Khan</b>	<b>Changwat</b>	<b>Uttaradit</b>
<b>Drainage Area</b>	980	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2005-Cont'd					
<b>Actual Measurement</b>	2005-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	7					
<b>R-Square</b>	0.7399					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 4.6663 QW^{1.38470}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	184.24	14.52	8.18	51.33	443.34	198.93	215.62	12.44	5.80	21.96	21.96	
2	0.00	132.38	14.52	8.18	37.22	215.62	810.24	215.62	44.54	6.22	21.96	21.96	
3	0.00	102.34	14.52	6.93	16.60	854.15	346.74	176.93	56.68	6.93	21.96	21.96	
4	0.00	56.68	14.52	3.37	18.84	215.62	215.62	142.13	47.84	6.93	20.38	19.61	
5	0.00	40.25	8.18	1.22	82.65	69.60	123.14	142.13	19.61	7.73	20.38	18.84	
6	0.00	35.39	8.18	0.00	41.19	69.60	44.54	191.46	11.10	8.18	26.24	18.08	
7	0.00	30.72	14.52	14.52	40.25	44.54	202.61	102.34	11.10	9.18	34.38	17.34	
8	0.00	21.96	21.96	123.14	44.54	16.60	176.93	102.34	8.18	11.10	42.86	16.60	
9	0.00	14.52	30.72	44.54	34.38	2526.79	129.28	73.32	8.18	11.76	35.39	15.96	
10	0.00	14.52	21.96	33.48	31.60	4524.45	44.54	73.32	8.18	12.44	25.30	14.52	
11	0.00	14.52	21.96	75.27	29.74	2421.20	132.38	56.68	7.36	13.82	21.96	13.12	
12	0.00	14.52	14.52	18.84	30.72	890.91	1219.06	54.88	8.18	14.52	21.96	12.44	
13	0.00	14.52	14.52	9.81	24.48	263.84	1805.03	47.84	8.18	15.23	21.96	11.10	
14	0.00	14.52	37.22	8.18	30.72	361.15	627.36	37.22	8.18	15.96	21.17	10.45	
15	0.00	14.52	99.45	8.18	32.48	666.78	368.31	13.82	8.18	16.60	21.17	9.81	
16	0.00	14.52	75.27	14.52	42.86	443.34	278.83	19.61	8.56	17.34	21.96	9.18	
17	0.00	14.52	56.68	46.24	39.19	768.58	2438.47	21.96	8.56	18.08	22.75	8.56	
18	0.00	14.52	40.25	34.38	32.48	443.34	588.87	21.96	8.56	18.84	23.56	8.56	
19	0.00	14.52	30.72	21.96	30.72	263.84	273.81	29.74	8.56	19.61	24.48	9.81	
20	0.00	14.52	21.96	21.17	27.92	758.19	249.09	34.38	8.18	20.38	25.30	13.12	
21	3.08	14.52	21.96	20.38	26.24	420.61	142.13	40.25	8.18	21.17	26.24	16.60	
22	6.22	14.52	30.72	39.19	26.24	339.49	854.15	39.19	8.18	21.96	26.24	22.75	
23	8.56	14.52	21.96	114.10	21.96	1333.31	3820.41	30.72	7.73	21.96	27.07	33.48	
24	12.44	14.52	14.52	53.10	19.61	1275.83	1773.32	30.72	7.36	23.56	27.92	30.72	
25	15.23	14.52	14.52	54.88	27.92	1135.27	443.34	27.92	6.93	25.30	28.88	25.30	
26	22.75	8.18	8.18	2580.04	155.83	532.66	318.20	21.96	6.57	25.30	28.88	21.96	
27	28.88	8.18	8.18	283.87	129.28	390.45	202.61	21.96	6.57	26.24	29.74	20.38	
28	34.38	8.18	8.18	126.20	93.76	1465.65	176.93	12.44	6.22	26.24	29.74	18.08	
29	39.19	11.10	8.18	65.80	598.30	428.07	249.09	8.18	6.22	25.30		19.61	
30	46.24	14.52	8.18	42.86	676.81	234.58	166.37	8.18	5.80	24.48		24.48	
31		21.96		65.80	368.31		176.93		5.80	23.56		33.48	
Total	216.97	922.92	720.73	3948.33	2864.17	23817.40	18597.26	2014.82	385.91	521.72	721.79	559.82	55291.84 Tonday
Mean	7.23	29.77	24.02	127.37	92.39	793.91	599.91	67.16	12.45	16.83	25.78	18.06	151.48 Ton/day
Max	46.24	184.24	99.45	2580.04	676.81	4524.45	3820.41	215.62	56.68	26.24	42.86	33.48	4524.45 Ton/day
Min	0.00	8.18	8.18	0.00	16.60	16.60	44.54	8.18	5.80	5.80	20.38	8.56	0.00 Ton/day

## WATER YEAR : 2021

## NAN RIVER BASIN

## Khek River at Ban Tan Tawan , Phetchabun (N.73)

Lat 16 - 34 - 09 N Long 100 - 53 -30 E

Location : on right bank at Ban Tan Tawan.

	<b>Ban Tan Tawan</b>	<b>Amphoe Khao Kho</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	224 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2020-Cont'd		
<b>Actual Measurement</b>	2020-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	14		
<b>R-Square</b>	0.7006		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.4466 QW^{1.19050}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	2.38	1.57	0.99	17.53	20.60	58.12	53.15	4.37	0.95	1.66	0.71	
2	0.24	2.47	1.31	1.50	12.02	31.47	46.63	42.60	4.14	0.88	1.66	0.71	
3	0.24	2.21	1.13	1.82	11.03	84.77	37.45	31.47	4.02	0.88	1.73	0.71	
4	0.24	2.14	0.99	2.38	95.31	115.77	33.43	29.06	3.80	0.88	1.82	0.71	
5	0.24	1.89	0.88	1.82	91.25	300.98	25.75	22.48	3.68	0.88	1.98	0.65	
6	0.24	1.66	0.82	1.50	79.28	70.06	22.16	20.29	3.58	0.88	1.89	0.59	
7	0.35	1.38	0.88	2.64	72.34	49.58	20.92	18.12	3.36	0.88	1.57	0.53	
8	0.88	1.31	0.95	2.82	66.49	38.49	17.84	16.43	3.07	0.88	1.50	0.65	
9	1.24	1.38	0.99	2.82	12.53	80.82	17.84	15.10	2.99	0.88	1.50	1.06	
10	1.31	1.24	0.88	2.38	7.33	95.31	15.37	13.80	2.89	0.88	1.45	1.13	
11	1.45	1.13	0.88	2.14	6.56	251.15	80.04	12.28	2.82	0.88	1.45	0.95	
12	1.73	0.99	1.45	2.14	7.33	91.25	37.97	11.42	2.72	0.88	1.98	0.88	
13	2.47	0.88	1.57	2.64	6.93	54.35	31.47	10.63	2.64	1.24	1.66	0.71	
14	2.38	0.76	1.73	3.24	9.08	41.07	34.91	9.85	2.55	1.50	1.57	0.59	
15	1.73	0.76	2.31	5.41	37.97	34.91	55.58	9.45	2.47	1.50	1.82	0.59	
16	1.98	0.71	2.38	10.44	21.84	42.10	122.67	9.85	2.47	1.50	2.14	0.49	
17	2.38	0.88	2.82	5.93	14.60	120.64	104.84	8.88	2.38	1.50	2.14	0.43	
18	1.89	0.95	4.02	4.14	10.44	53.15	72.34	7.99	2.31	1.57	2.21	0.49	
19	2.31	0.95	2.55	10.44	8.69	46.63	70.83	7.72	2.21	1.50	2.47	0.49	
20	3.16	1.06	1.82	8.12	8.12	49.58	51.96	7.33	2.14	1.57	2.38	0.59	
21	2.47	1.24	1.45	6.82	7.85	46.63	41.07	6.93	2.05	1.73	2.21	1.06	
22	1.98	1.73	1.24	9.45	7.47	37.97	36.43	6.69	1.66	1.89	1.98	1.24	
23	1.73	1.31	1.13	11.03	6.30	60.02	33.91	6.56	1.31	1.98	1.57	1.66	
24	1.73	1.45	1.06	20.92	5.54	124.67	26.68	6.17	1.24	2.05	1.31	1.31	
25	1.45	2.64	1.06	45.46	9.08	239.05	22.78	5.80	1.24	1.89	1.13	1.19	
26	1.50	1.38	1.19	28.12	17.22	352.37	20.29	5.54	1.19	1.73	0.99	0.95	
27	1.73	1.98	1.06	33.43	19.66	157.89	18.43	5.31	1.13	1.50	0.88	0.82	
28	2.55	2.05	0.95	16.43	19.66	92.06	16.69	5.08	1.13	1.50	0.76	0.65	
29	3.24	2.55	0.88	12.28	19.66	75.41	33.43	4.82	1.06	1.45		0.82	
30	2.89	2.89	0.82	20.60	19.97	57.47	69.29	4.59	1.06	1.45		1.13	
31		2.14		21.53	26.22		50.77		0.99	1.57		1.45	
Total	47.97	48.49	42.77	301.38	755.30	2916.22	1327.89	415.39	74.67	41.25	47.41	25.94	6044.68 Tonday
Mean	1.60	1.56	1.43	9.72	24.36	97.21	42.84	13.85	2.41	1.33	1.69	0.84	16.56 Ton/day
Max	3.24	2.89	4.02	45.46	95.31	352.37	122.67	53.15	4.37	2.05	2.47	1.66	352.37 Ton/day
Min	0.24	0.71	0.82	0.99	5.54	20.60	15.37	4.59	0.99	0.88	0.76	0.43	0.24 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Nam Wa at Tha Li Bridge , Nan (N.75)**

Lat 18 - 32 - 54 N Long 100 - 48 - 31 E

Location : on left bank at the bridge.

	<b>Ban</b> Tha Li Bridge	<b>Amphoe</b> Wiang Sa	<b>Changwat</b> Nan
<b>Drainage Area</b>	2,173 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2018-Cont'd		
<b>Actual Measurement</b>	2018-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	33		
<b>R-Square</b>	0.8639		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.2366 QW^{1.83150}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.48	39.72	15.64	705.52	1987.81	705.52	791.28	533.01	56.61	31.70	17.49	14.75	
2	8.35	43.16	13.89	283.93	1758.29	435.12	1415.61	271.06	56.61	30.35	17.49	13.89	
3	8.91	36.41	15.64	163.40	2899.68	504.81	884.21	258.47	54.54	30.35	16.55	13.89	
4	15.64	27.74	13.05	150.98	3681.01	486.95	791.28	211.78	52.51	30.35	15.64	13.89	
5	43.16	21.67	10.67	117.28	3049.17	426.74	638.27	167.64	50.51	29.03	16.55	13.89	
6	58.71	20.54	11.44	97.64	2011.46	513.85	504.81	131.27	48.55	26.47	18.45	13.89	
7	117.28	21.67	20.54	325.52	1358.85	435.12	543.15	131.27	46.72	26.47	19.43	13.89	
8	83.16	17.49	20.54	252.27	939.40	595.13	426.74	131.27	46.72	26.47	18.45	21.67	
9	65.22	16.55	38.05	283.93	682.76	830.53	347.28	127.71	44.92	25.23	17.49	29.03	
10	39.72	14.75	211.78	167.64	385.96	1592.21	418.44	113.89	44.92	25.23	16.55	20.54	
11	26.47	14.75	139.00	176.71	418.44	1253.81	533.01	113.89	43.16	25.23	14.75	17.49	
12	39.72	8.91	142.95	176.71	533.01	752.90	765.60	110.55	41.42	25.23	13.89	15.64	
13	25.23	7.29	222.33	246.15	418.44	728.62	1492.94	107.26	41.42	25.23	13.89	14.75	
14	20.54	8.91	11272.15	181.54	574.08	830.53	605.79	104.01	41.42	24.01	14.75	13.05	
15	19.43	12.23	16934.20	181.54	752.90	953.44	495.84	104.01	41.42	24.01	14.75	13.05	
16	17.49	10.67	6043.40	347.28	1848.56	1377.65	443.58	97.64	41.42	22.83	13.89	14.75	
17	13.05	7.81	1253.81	271.06	3140.50	1073.06	418.44	94.66	39.72	22.83	13.89	16.55	
18	44.92	10.67	513.85	186.43	1632.73	804.27	347.28	85.97	39.72	25.23	13.89	24.01	
19	72.33	14.75	159.21	124.19	939.40	584.56	297.51	113.89	38.05	30.35	14.75	36.41	
20	38.05	15.64	171.93	142.95	728.62	543.15	271.06	91.72	36.41	33.24	36.41	38.05	
21	21.67	13.05	150.98	486.95	522.96	504.81	252.27	85.97	34.81	33.24	277.46	17.49	
22	15.64	11.44	117.28	682.76	486.95	638.27	264.73	83.16	34.81	34.81	63.01	14.75	
23	13.05	12.23	94.66	522.96	410.21	967.57	347.28	74.97	33.24	33.24	30.35	15.64	
24	12.23	10.06	77.66	469.38	370.17	705.52	222.33	69.73	31.70	30.35	24.01	54.54	
25	13.05	13.89	69.73	2724.81	574.08	682.76	217.03	69.73	31.70	25.23	19.43	50.51	
26	24.01	25.23	60.84	3615.40	362.39	694.10	201.47	67.46	31.70	20.54	18.45	27.74	
27	17.49	30.35	83.16	7447.57	402.05	3079.48	211.78	65.22	31.70	20.54	17.49	18.45	
28	21.67	21.67	74.97	3171.21	325.52	1492.94	206.59	63.01	31.70	20.54	15.64	14.75	
29	31.70	34.81	107.26	1871.45	297.51	1153.64	171.93	63.01	31.70	19.43		21.67	
30	46.72	26.47	495.84	1758.29	290.68	911.61	191.38	58.71	30.35	18.45		163.40	
31		17.49		3813.83	277.46		385.96		30.35	18.45		135.11	
Total	984.09	588.02	38556.45	31147.28	34061.05	26258.67	15104.87	3801.94	1260.53	814.66	804.79	907.13	154289.48 Tonday
Mean	32.80	18.97	1285.22	1004.75	1098.74	875.29	487.25	126.73	40.66	26.28	28.74	29.26	422.71 Ton/day
Max	117.28	43.16	16934.20	7447.57	3681.01	3079.48	1492.94	533.01	56.61	34.81	277.46	163.40	16934.20 Ton/day
Min	8.35	7.29	10.67	97.64	277.46	426.74	171.93	58.71	30.35	18.45	13.89	13.05	7.29 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok (N.81)**

Lat 17 - 07 - 43 N Long 100 - 35 - 17 E

Location : on left bank at Ban Kaeng Bua Kham.

	<b>Ban</b> Kaeng Bua Kham	<b>Amphoe</b> Chat Trakan	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	3,675 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2012-Cont'd		
<b>Actual Measurement</b>	2012-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.8675		
<b>Remarks</b>	Continued Sediment Station		

QS = 1.5584 QW<sup>1.47690</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	202.83	76.32	66.90	1790.70	1833.42	3739.00	695.07	63.82	17.44	7.32	9.91	
2	0.98	257.76	57.88	60.79	1463.02	2007.52	3896.59	807.56	60.79	17.44	6.54	7.74	
3	4.02	243.51	32.62	76.32	1098.31	2141.39	3291.31	807.56	57.88	16.10	6.54	6.94	
4	13.53	222.64	20.21	66.90	833.67	2775.60	3041.20	611.79	52.07	14.79	6.54	6.14	
5	29.36	172.36	14.79	41.12	647.11	3350.09	2498.24	446.76	49.30	13.53	6.54	5.78	
6	46.52	116.57	12.25	29.36	707.32	3864.39	2029.63	348.49	46.52	12.25	9.91	5.78	
7	69.94	79.58	20.21	43.79	611.79	4595.44	1613.13	309.62	43.79	11.06	20.21	5.40	
8	73.11	63.82	34.29	160.71	446.76	4907.90	1371.64	287.02	41.12	11.06	23.12	5.40	
9	73.11	49.30	132.57	215.82	356.44	5601.51	1224.50	257.76	38.56	9.91	17.44	11.06	
10	73.11	52.07	184.38	294.49	317.27	5601.51	940.95	229.53	38.56	9.91	12.25	12.25	
11	69.94	38.56	222.64	391.70	243.51	5601.51	756.65	209.07	35.99	8.80	8.80	8.80	
12	69.94	29.36	172.36	365.12	196.54	5677.10	1192.54	202.83	35.99	8.80	7.32	6.94	
13	66.90	24.62	149.23	309.62	184.38	5714.85	1833.42	190.43	34.29	8.80	6.94	6.94	
14	63.82	21.65	190.43	272.26	178.39	5714.85	2186.63	166.50	32.62	8.80	6.54	6.14	
15	63.82	18.81	309.62	324.99	196.54	5119.97	2074.11	149.23	30.98	7.74	6.94	5.78	
16	66.90	17.44	475.09	588.66	324.99	4768.35	1963.51	138.02	30.98	7.32	11.06	5.40	
17	76.32	17.44	543.27	731.85	332.76	4458.84	2425.26	127.20	29.36	7.32	16.10	6.14	
18	149.23	16.10	437.35	577.28	324.99	4158.19	2376.75	121.89	27.77	7.32	13.53	6.14	
19	209.07	18.81	365.12	446.76	324.99	3961.55	2257.48	121.89	27.77	7.32	13.53	6.94	
20	222.64	20.21	287.02	365.12	309.62	4026.85	1985.48	121.89	26.15	6.94	24.62	14.79	
21	184.38	17.44	209.07	513.66	279.61	3617.76	1613.13	116.57	24.62	7.32	96.33	12.25	
22	121.89	16.10	132.57	533.39	229.53	3262.18	1689.94	106.34	24.62	8.80	121.89	9.91	
23	89.52	14.79	79.58	846.83	190.43	3095.04	1594.11	101.25	24.62	14.79	86.14	17.44	
24	73.11	13.53	57.88	1322.00	172.36	3408.94	1305.58	96.33	24.62	21.65	66.90	20.21	
25	66.90	20.21	43.79	1575.16	257.76	3557.77	1160.85	89.52	23.12	23.12	35.99	26.15	
26	63.82	21.65	35.99	2775.60	659.08	3769.44	927.34	86.14	21.65	23.12	24.62	38.56	
27	57.88	34.29	30.98	2571.92	886.70	3831.99	647.11	82.79	21.65	20.21	18.81	23.12	
28	54.95	41.12	32.62	2749.32	954.63	3739.00	494.18	76.32	21.65	16.10	14.79	17.44	
29	92.86	35.99	29.36	2646.54	900.12	3864.39	437.35	73.11	21.65	13.53		17.44	
30	121.89	73.11	38.56	2281.18	1052.15	3864.39	400.78	69.94	20.21	11.06		60.79	
31		92.86		1963.51	1481.53		409.79		18.81	8.80		111.42	
Total	2370.14	2064.53	4428.05	25208.67	17953.00	121891.73	53378.18	7248.42	1051.53	381.15	697.26	505.14	237177.80 Ton/day
Mean	79.00	66.60	147.60	813.18	579.13	4063.06	1721.88	241.61	33.92	12.30	24.90	16.29	649.80 Ton/day
Max	222.64	257.76	543.27	2775.60	1790.70	5714.85	3896.59	807.56	63.82	23.12	121.89	111.42	5714.85 Ton/day
Min	0.68	13.53	12.25	29.36	172.36	1833.42	400.78	69.94	18.81	6.94	6.54	5.40	0.68 Ton/day

**WATER YEAR : 2021****NAN RIVER BASIN****Nam Pat at Ban Suan , Uttaradit (N.84)**

Lat 17 - 44 - 28 N Long 100 - 40 - 45 E

Location : on right bank at Ban Suan.

	<b>Ban Suan</b>	<b>Amphoe Nam Pat</b>	<b>Changwat Uttaradit</b>
<b>Drainage Area</b>	2,204 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2016-Cont'd		
<b>Actual Measurement</b>	2016-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	8		
<b>R-Square</b>	0.8786		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.2868 QW^{1.64100}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.91	19.19	6.41	8.63	15.74	94.94	584.50	75.73	5.27	2.45	0.79	2.45	
2	0.79	87.03	5.52	6.69	13.83	124.51	855.64	48.93	5.83	2.24	0.79	1.69	
3	0.65	120.13	4.73	5.27	10.82	58.25	562.09	34.05	5.52	2.05	0.79	1.53	
4	1.69	39.36	4.25	3.98	10.24	79.50	406.76	25.83	5.01	1.69	0.91	1.69	
5	1.69	17.11	4.25	3.50	10.24	48.93	337.27	21.36	4.73	1.35	1.20	1.86	
6	3.07	22.83	3.98	3.28	9.13	72.13	230.39	19.19	4.73	1.35	1.86	2.24	
7	39.36	14.47	24.28	3.07	7.59	280.72	204.25	17.82	4.73	1.35	3.50	2.45	
8	15.08	12.57	14.47	3.50	7.30	155.88	115.81	15.74	4.48	1.53	2.84	10.82	
9	8.11	10.24	7.59	79.50	7.30	1245.30	115.81	14.47	4.25	1.86	2.05	65.05	
10	8.63	9.13	7.30	98.94	6.69	5084.31	107.25	13.19	3.98	1.86	2.05	10.24	
11	9.68	7.59	6.97	68.50	6.10	5727.56	65.05	12.57	3.98	1.69	1.86	5.83	
12	10.24	6.97	6.69	328.95	5.52	1590.15	155.88	11.41	3.75	1.35	1.86	4.73	
13	9.68	6.41	6.69	129.08	5.27	540.02	155.88	10.82	3.50	1.53	1.53	3.98	
14	13.83	5.83	50.95	52.92	5.27	1003.35	91.01	10.24	3.50	1.35	1.35	3.98	
15	17.11	5.52	362.73	24.28	5.27	3666.11	65.05	10.24	3.50	1.20	1.06	3.50	
16	19.92	5.27	91.01	22.83	4.73	2359.05	58.25	9.68	3.28	1.06	0.91	3.07	
17	17.82	5.01	35.81	48.93	6.69	2012.43	75.73	9.13	3.28	1.06	0.91	3.28	
18	133.58	4.48	17.82	29.04	6.97	2676.94	98.94	8.63	3.07	0.91	0.91	8.63	
19	150.14	4.25	11.41	19.92	6.69	1510.87	72.13	8.11	3.07	0.91	0.91	6.41	
20	30.62	3.98	8.63	14.47	6.41	2777.89	44.97	7.30	2.64	1.06	1.53	5.52	
21	15.74	3.50	6.69	15.08	6.10	1194.01	37.53	7.30	2.64	1.20	4.73	4.48	
22	10.82	3.50	5.52	15.74	5.52	1194.01	55.01	6.97	2.64	1.20	6.97	5.27	
23	8.11	3.50	4.48	37.53	5.52	2311.54	107.25	6.69	2.64	1.20	8.63	9.13	
24	6.97	3.50	3.50	87.03	5.27	2382.94	161.69	6.41	2.64	1.35	6.10	5.27	
25	6.10	3.50	3.07	972.79	94.94	1452.21	55.01	6.41	2.64	1.35	4.48	4.25	
26	5.83	3.75	3.07	584.50	204.25	957.65	35.81	6.10	2.24	1.20	3.28	3.75	
27	9.68	5.01	2.84	198.02	167.45	2079.72	25.83	5.83	2.64	0.91	2.84	3.50	
28	12.57	6.10	3.50	91.01	52.92	2777.89	19.92	5.52	2.45	0.79	2.84	3.07	
29	10.24	10.24	17.82	44.97	30.62	1925.03	19.92	5.27	2.05	0.65		2.84	
30	11.96	10.24	16.42	27.42	24.28	884.18	22.83	5.52	2.45	0.91		8.63	
31		9.13		19.92	35.81		48.93		2.45	0.65		12.57	
Total	590.62	469.34	748.40	3049.29	790.48	48268.02	4992.39	446.46	109.58	41.26	69.48	211.71	59787.03 Ton/day
Mean	19.69	15.14	24.95	98.36	25.50	1608.93	161.04	14.88	3.53	1.33	2.48	6.83	163.80 Ton/day
Max	150.14	120.13	362.73	972.79	204.25	5727.56	855.64	75.73	5.83	2.45	8.63	65.05	5727.56 Ton/day
Min	0.65	3.50	2.84	3.07	4.73	48.93	19.92	5.27	2.05	0.65	0.79	1.53	0.65 Ton/day

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)

Lat 15 - 40 - 14 N Long 100 - 06 - 34 E

Location : on left bank at Ban Phai Lom

	<b>Ban</b> Phai Lom	<b>Amphoe</b> Mueang	<b>Changwat</b> Nakhon Sawan
<b>Drainage Area</b>	109,782 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1956-Cont'd		
<b>Actual Measurement</b>	1956-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.9300		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.0300 QW^{1.43000}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1363.03	2188.18	1038.41	2417.24	3170.17	11696.50	79843.45	65601.45	6624.00	4203.89	2679.64	2213.29	
2	1286.95	2600.07	1052.58	2733.08	2547.42	11491.99	79165.83	65036.42	5913.87	4547.12	2679.64	2289.14	
3	1256.88	2786.84	1052.58	2974.22	2213.29	11560.04	78940.35	64472.87	5596.35	4508.58	2733.08	2417.24	
4	1347.71	2600.07	1153.37	3236.32	1966.11	13087.14	79165.83	63163.66	5108.21	4279.46	3006.62	2733.08	
5	1519.07	2391.46	1550.88	3269.54	1681.44	14832.13	76764.94	63723.76	4624.48	3942.61	3336.30	2733.08	
6	1704.65	1990.43	1869.74	3403.46	1534.95	17164.75	74624.96	61492.31	3905.70	3369.83	3369.83	3236.32	
7	1917.75	1774.84	1990.43	3722.71	1424.83	17604.74	73383.67	58396.17	3170.17	3269.54	3403.46	3650.26	
8	2138.22	1534.95	1941.88	3722.71	1332.44	15950.79	72165.52	55262.94	2759.92	3137.25	3437.19	3578.24	
9	2443.12	1378.40	1704.65	3471.03	1456.04	14206.94	71155.11	52419.70	2786.84	3104.44	2941.93	3759.10	
10	2679.64	1227.04	1566.86	3203.19	1681.44	14129.37	68548.18	50286.88	2941.93	3137.25	2813.84	3614.20	
11	2653.03	1167.99	1566.86	3006.62	1845.88	15385.75	65790.12	47156.73	3006.62	3203.19	2759.92	3403.46	
12	2600.07	1363.03	1681.44	2759.92	1822.11	28918.31	63536.89	43296.94	2786.84	2786.84	2877.67	3203.19	
13	2573.71	1332.44	1893.70	2600.07	1658.33	42032.57	63536.89	39862.29	2845.70	3039.12	2813.84	2974.22	
14	2443.12	1167.99	1990.43	3236.32	1440.41	43720.89	65601.45	36003.34	3006.62	2877.67	2877.67	2521.22	
15	2314.59	1066.81	2039.34	3832.19	1363.03	41474.26	66365.33	32440.68	3471.03	2909.75	3071.73	2365.75	
16	2039.34	996.24	2014.84	3686.43	1487.45	37918.05	65601.45	29496.88	3269.54	2845.70	2909.75	2138.22	
17	1822.11	866.26	1845.88	3203.19	1845.88	35371.77	66760.63	26889.39	3336.30	2909.75	3336.30	1990.43	
18	1774.84	844.03	1845.88	3039.12	2469.07	37148.59	74199.16	24887.14	3104.44	2941.93	4780.39	2039.34	
19	2014.84	945.43	1917.75	3203.19	2974.22	41474.26	82641.48	22657.73	3006.62	3104.44	4898.33	2188.18	
20	2213.29	1024.29	2113.37	3104.44	2786.84	45000.16	80985.39	20683.41	2845.70	3203.19	4741.26	2213.29	
21	2314.59	1109.83	2238.49	2733.08	2600.07	46146.55	80069.70	19034.94	2653.03	3336.30	3979.62	2365.75	
22	2263.77	1138.80	2188.18	2263.77	2759.92	45285.94	78057.63	17516.48	2521.22	3336.30	3614.20	2600.07	
23	2113.37	1138.80	2163.15	1966.11	2813.84	48779.86	75692.68	15704.83	2495.11	3236.32	3403.46	2909.75	
24	1893.70	1212.19	2014.84	1658.33	2653.03	54609.97	73587.28	14051.92	2547.42	3471.03	3137.25	3542.39	
25	1635.32	1347.71	1869.74	1612.40	2495.11	57566.61	72570.89	12525.26	2573.71	3578.24	2974.22	4166.25	
26	1456.04	1409.31	1635.32	2014.84	2365.75	64660.55	71558.76	10613.74	2600.07	3302.87	2733.08	4431.81	
27	1456.04	1363.03	1519.07	2521.22	2113.37	68947.34	69547.38	9581.63	2495.11	3137.25	2495.11	4053.97	
28	1471.72	1363.03	1635.32	3137.25	1869.74	75478.77	67354.90	8872.51	2600.07	2974.22	2188.18	3650.26	
29	1681.44	1393.83	1658.33	3942.61	2443.12	81457.53	65790.12	8123.11	3039.12	2909.75		2974.22	
30	1893.70	1317.22	1941.88	4317.40	3650.26	80749.63	63910.79	7326.00	3203.19	2845.70		2706.32	
31		1124.29		4016.74	7530.43		63723.76		3542.39	2733.08		2495.11	
Total	58285.65	45164.83	52695.19	94008.74	71995.99	1133851.75	2230640.52	1046581.11	104381.32	102182.61	89993.51	91157.15	5120938.37 Ton/day
Mean	1942.85	1456.93	1756.51	3032.54	2322.45	37795.06	71956.15	34886.04	3367.14	3296.21	3214.05	2940.55	14029.97 Ton/day
Max	2679.64	2786.84	2238.49	4317.40	7530.43	81457.53	82641.48	65601.45	6624.00	4547.12	4898.33	4431.81	82641.48 Ton/day
Min	1256.88	844.03	1038.41	1612.40	1332.44	11491.99	63536.89	7326.00	2495.11	2733.08	2188.18	1990.43	844.03 Ton/day

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Phutsa, Sing Buri (C.3)

Lat 14 - 53 - 55 N Long 100 - 24 - 07 E

Location : on right bank at Ban Bang Phutsa.

	<b>Ban</b> Bang Phutsa	<b>Amphoe</b> Mueang	<b>Changwat</b> Sing Buri
<b>Drainage Area</b>	116,851 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1950-Cont'd		
<b>Actual Measurement</b>	1950-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.9641		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.9046 QW^{1.20820}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	443.56	467.04	350.25	443.56	575.13	350.25	38647.02	32484.42	1623.47	520.60	520.60	455.27	
2	443.56	449.41	364.72	544.72	575.13	649.25	38906.74	32300.83	1491.85	508.61	526.61	431.90	
3	426.09	426.09	359.89	710.34	538.67	1257.58	39166.76	32239.67	1181.07	490.72	532.64	420.29	
4	461.15	455.27	350.25	748.99	508.61	3262.36	39231.81	31995.23	1076.16	496.67	526.61	414.51	
5	437.72	478.85	299.23	764.55	502.63	4569.61	39101.73	31263.86	1006.54	502.63	526.61	420.29	
6	461.15	461.15	269.47	741.23	437.72	5596.04	38776.85	30899.27	898.95	526.61	532.64	408.74	
7	455.27	455.27	277.92	532.64	389.07	6565.72	37999.05	30232.78	795.83	538.67	514.60	403.81	
8	420.29	437.72	290.67	443.56	389.07	7060.23	37030.65	28763.45	702.65	550.78	502.63	389.07	
9	426.09	437.72	290.67	461.15	364.72	7137.63	36515.94	27256.02	624.37	544.72	484.78	408.74	
10	403.81	431.90	299.23	484.78	359.89	6320.82	36130.73	26123.81	532.64	538.67	508.61	437.72	
11	461.15	426.09	286.41	449.41	364.72	6296.42	35632.43	25195.77	526.61	526.61	490.72	449.41	
12	478.85	393.97	277.92	520.60	364.72	8571.35	34453.80	23518.64	526.61	526.61	514.60	443.56	
13	478.85	379.30	282.16	764.55	374.43	12153.83	33343.56	21595.82	490.72	532.64	502.63	431.90	
14	484.78	369.57	290.67	819.44	384.18	14919.54	32790.81	19683.62	467.04	532.64	496.67	426.09	
15	478.85	364.72	282.16	819.44	355.06	16325.81	33712.94	17869.22	478.85	526.61	496.67	408.74	
16	472.94	384.18	286.41	835.23	335.87	15928.10	35259.49	16370.10	472.94	526.61	484.78	398.89	
17	562.94	374.43	350.25	624.37	331.10	15225.28	35943.73	14454.95	461.15	526.61	508.61	393.97	
18	605.83	359.89	364.72	496.67	335.87	15094.12	36580.21	12707.54	520.60	526.61	508.61	408.74	
19	599.67	369.57	379.30	472.94	355.06	16060.48	37869.68	11446.40	556.85	526.61	508.61	398.89	
20	599.67	364.72	379.30	514.60	340.65	16947.79	39101.73	10264.70	526.61	532.64	490.72	359.89	
21	532.64	374.43	369.57	514.60	321.60	18058.77	39361.97	8916.69	514.60	538.67	478.85	374.43	
22	502.63	369.57	364.72	508.61	331.10	19731.78	39361.97	7974.33	532.64	526.61	490.72	374.43	
23	496.67	316.87	364.72	526.61	316.87	22110.49	39427.07	7192.91	544.72	526.61	502.63	369.57	
24	431.90	282.16	389.07	514.60	299.23	25577.20	39361.97	6150.35	556.85	508.61	508.61	369.57	
25	420.29	273.69	379.30	520.60	294.95	27718.35	38841.79	5334.19	544.72	502.63	496.67	379.30	
26	431.90	290.67	389.07	514.60	312.15	31446.43	38128.49	4352.17	526.61	502.63	478.85	389.07	
27	420.29	326.35	403.81	514.60	335.87	34083.02	37223.98	3413.65	514.60	520.60	472.94	379.30	
28	449.41	384.18	426.09	514.60	331.10	35508.04	35943.73	2871.04	478.85	532.64	467.04	379.30	
29	467.04	359.89	437.72	467.04	312.15	37352.97	34887.23	2310.07	467.04	526.61		374.43	
30	455.27	331.10	437.72	478.85	321.60	38193.24	33836.23	1954.57	490.72	514.60		364.72	
31		345.44		562.94	340.65		33036.28		514.60	508.61		359.89	
<b>Total</b>	14210.26	11941.21	10293.39	17830.42	11699.57	470072.50	1145606.37	527136.07	20647.46	16211.69	14075.26	12424.43	2272148.63 Ton/day
<b>Mean</b>	473.68	385.20	343.11	575.17	377.41	15669.08	36955.04	17571.20	666.05	522.96	502.69	400.79	6225.06 Ton/day
<b>Max</b>	605.83	478.85	437.72	835.23	575.13	38193.24	39427.07	32484.42	1623.47	550.78	532.64	455.27	39427.07 Ton/day
<b>Min</b>	403.81	273.69	269.47	443.56	294.95	350.25	32790.81	1954.57	461.15	490.72	467.04	359.89	269.47 Ton/day

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Kaeo, Ang Thong (C.7A)

Lat 14 - 35 - 26 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaeo.

	<b>Ban</b> Bang Kaeo	<b>Amphoe</b> Mueang	<b>Changwat</b> Ang Thong
<b>Drainge Area</b>	Flood Plain		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9837		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.8261 QW^{1.40450}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	707.65	973.23	604.49	377.42	404.08	676.21	47573.52	40204.05	1873.34	1011.69	826.35	804.38	
2	760.95	893.28	544.90	395.14	377.42	782.58	47884.59	39724.41	1983.79	950.19	859.63	718.22	
3	686.65	1038.77	458.95	431.27	422.15	984.81	48404.34	39724.41	1841.20	882.02	893.28	645.19	
4	750.20	938.73	377.42	496.62	440.44	1605.38	48404.34	39538.19	1589.99	893.28	826.35	665.83	
5	782.58	848.50	292.47	614.59	431.27	2810.06	48196.25	38726.44	1544.09	848.50	927.30	676.21	
6	915.92	760.95	325.70	655.49	413.09	3756.82	48092.30	38187.98	1513.70	793.46	927.30	614.59	
7	655.49	707.65	284.32	506.18	404.08	4607.55	47366.47	37656.80	1423.60	793.46	750.20	624.75	
8	525.43	614.59	308.95	404.08	368.65	5528.24	46232.34	36106.40	1438.50	793.46	645.19	554.71	
9	515.78	645.19	404.08	468.29	325.70	5868.51	45617.07	34321.57	1291.48	676.21	686.65	718.22	
10	525.43	604.49	368.65	604.49	395.14	5629.71	45310.32	32729.40	1066.06	574.47	826.35	739.50	
11	614.59	655.49	308.95	665.83	525.43	5160.80	44698.63	31570.29	1107.37	554.71	771.74	760.95	
12	665.83	525.43	377.42	686.65	604.49	6557.00	43018.31	29449.96	984.81	707.65	750.20	728.84	
13	793.46	676.21	477.68	645.19	564.56	9858.53	41555.81	26899.64	782.58	826.35	697.13	750.20	
14	718.22	564.56	574.47	804.38	554.71	13373.59	40492.63	24309.24	771.74	760.95	728.84	739.50	
15	782.58	718.22	506.18	655.49	594.44	15852.40	41168.28	21761.23	804.38	739.50	760.95	624.75	
16	815.34	728.84	468.29	665.83	655.49	16099.27	43116.32	19769.00	782.58	750.20	750.20	554.71	
17	848.50	697.13	458.95	574.47	515.78	15300.97	44297.51	17439.71	826.35	739.50	739.50	525.43	
18	815.34	655.49	359.93	377.42	554.71	14696.86	45106.16	15118.41	927.30	697.13	815.34	544.90	
19	793.46	554.71	325.70	395.14	574.47	15667.96	46437.95	13544.14	973.23	707.65	848.50	554.71	
20	826.35	440.44	334.16	515.78	525.43	16789.86	47988.41	12098.04	782.58	782.58	804.38	535.14	
21	771.74	386.25	334.16	676.21	554.71	18228.83	48508.48	10484.34	739.50	837.40	804.38	718.22	
22	686.65	300.68	325.70	760.95	496.62	20449.74	48612.69	9145.47	893.28	815.34	771.74	697.13	
23	574.47	262.12	468.29	634.95	431.27	23308.71	48716.96	8105.43	938.73	771.74	815.34	665.83	
24	496.62	262.12	422.15	655.49	404.08	28007.21	48716.96	7004.96	998.22	614.59	826.35	718.22	
25	431.27	325.70	468.29	604.49	496.62	31077.22	48196.25	5937.26	848.50	525.43	984.81	739.50	
26	458.95	334.16	584.43	515.78	525.43	35764.43	47366.47	4963.48	826.35	594.44	984.81	771.74	
27	506.18	449.67	655.49	525.43	645.19	39724.41	46437.95	3979.12	728.84	697.13	961.69	697.13	
28	655.49	686.65	634.95	477.68	750.20	42236.49	44902.26	3217.58	564.56	782.58	882.02	604.49	
29	750.20	634.95	515.78	404.08	665.83	44698.63	43509.03	2644.93	574.47	760.95		506.18	
30	826.35	859.63	368.65	395.14	655.49	46643.83	42236.49	2190.94	793.46	718.22		506.18	
31		728.84		377.42	707.65		41168.28		984.81	728.84		477.68	
Total	20657.67	19472.67	12939.55	16967.37	15984.62	491746.61	1419333.37	646552.82	33199.39	23329.62	22866.52	20183.03	2743233.24 Ton/day
Mean	688.59	628.15	431.32	547.33	515.63	16391.55	45784.95	21551.76	1070.95	752.57	816.66	651.07	7515.71 Ton/day
Max	915.92	1038.77	655.49	804.38	750.20	46643.83	48716.96	40204.05	1983.79	1011.69	984.81	804.38	48716.96 Ton/day
Min	431.27	262.12	284.32	377.42	325.70	676.21	40492.63	2190.94	564.56	525.43	645.19	477.68	262.12 Ton/day

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

Lat 15 - 09 - 50 N Long 100 - 11 - 17 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

	Ban Bang Luang	Amphoe Sanphaya	Changwat Chai Nat
Drainage Area	116,801 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1953-Cont'd		
Actual Measurement	1953-Cont'd		
Using Rating Curve Water Year	2021		
Number of observation	34		
R-Square	0.9694		
Remarks	Continued Sediment Station		

$$QS = 1.8391 QW^{1.27620}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	471.92	399.90	399.90	625.50	678.68	439.11	42451.75	33223.46	1326.34	480.20	480.20	399.90		
2	471.92	399.90	399.90	824.88	547.54	871.80	42529.81	33223.46	1013.96	480.20	480.20	399.90		
3	471.92	412.88	399.90	914.05	513.63	2663.12	42529.81	33154.95	852.96	480.20	480.20	399.90		
4	471.92	471.92	348.88	914.05	488.51	4544.54	42607.90	32744.51	806.27	480.20	480.20	399.90		
5	471.92	471.92	317.79	914.05	439.11	5739.39	42451.75	31926.98	732.78	480.20	480.20	399.90		
6	471.92	471.92	317.79	643.12	432.52	6765.90	41595.16	31655.46	643.12	480.20	480.20	399.90		
7	471.92	471.92	317.79	513.63	425.95	7576.80	40378.07	30507.17	496.86	480.20	480.20	399.90		
8	471.92	471.92	317.79	513.63	399.90	7838.83	39334.50	28619.14	425.95	480.20	480.20	399.90		
9	471.92	471.92	317.79	513.63	399.90	7411.69	38740.85	26960.01	399.90	480.20	480.20	399.90		
10	471.92	439.11	317.79	513.63	399.90	6237.72	38370.81	25873.42	399.90	480.20	480.20	399.90		
11	471.92	399.90	317.79	778.53	399.90	7605.82	37338.81	24558.68	399.90	480.20	480.20	399.90		
12	471.92	399.90	317.79	914.05	399.90	10988.08	35656.76	22423.45	399.90	480.20	480.20	399.90		
13	471.92	399.90	317.79	914.05	399.90	15122.95	34496.64	20364.83	399.90	480.20	480.20	399.90		
14	471.92	412.88	317.79	914.05	367.84	17518.68	34207.91	18316.60	399.90	480.20	480.20	399.90		
15	471.92	399.90	317.79	914.05	317.79	17940.15	36239.92	16636.12	399.90	480.20	480.20	387.00		
16	471.92	399.90	406.38	643.12	317.79	16913.75	37854.05	15080.69	399.90	480.20	480.20	361.49		
17	678.68	399.90	432.52	513.63	317.79	16144.79	38370.81	13116.38	439.11	480.20	480.20	361.49		
18	678.68	399.90	432.52	513.63	374.20	16728.55	39260.19	11562.37	480.20	480.20	480.20	342.61		
19	634.29	399.90	432.52	513.63	374.20	17658.93	41207.06	10555.08	480.20	480.20	480.20	317.79		
20	471.92	399.90	432.52	513.63	317.79	18694.73	42373.72	9371.83	480.20	480.20	480.20	317.79		
21	471.92	399.90	432.52	513.63	317.79	20008.00	42529.81	8102.77	480.20	480.20	480.20	317.79		
22	471.92	348.88	432.52	513.63	317.79	21969.85	42451.75	7303.18	480.20	480.20	480.20	317.79		
23	471.92	317.79	432.52	513.63	317.79	25513.38	42529.81	6500.65	480.20	480.20	480.20	317.79		
24	471.92	317.79	471.92	513.63	317.79	28168.72	42217.76	5323.92	480.20	480.20	439.11	317.79		
25	471.92	317.79	471.92	513.63	317.79	31519.90	40902.06	4588.38	480.20	480.20	399.90	317.79		
26	471.92	399.90	471.92	513.63	317.79	36239.92	39930.10	3499.44	480.20	480.20	399.90	317.79		
27	471.92	399.90	480.20	513.63	281.33	37559.44	38592.74	2779.55	480.20	480.20	399.90	330.15		
28	425.95	399.90	513.63	513.63	234.28	40378.07	37045.08	2384.96	480.20	480.20	399.90	348.88		
29	399.90	399.90	513.63	513.63	234.28	42373.72	35802.36	1836.09	480.20	480.20		317.79		
30	412.88	399.90	513.63	616.72	234.28	42529.81	34713.53	1446.45	480.20	480.20		317.79		
31		399.90		678.68	234.28		33635.18		480.20	480.20		317.79		
Total	14556.46	12596.84	11915.14	19940.61	11437.93	531666.14	1218346.46	513639.98	16659.35	14886.20	13083.31	11225.91	2389954.33	Today
Mean	485.22	406.35	397.17	643.25	368.97	17722.20	39301.50	17121.33	537.40	480.20	467.26	362.13	6547.82	Ton/day
Max	678.68	471.92	513.63	914.05	678.68	42529.81	42607.90	33223.46	1326.34	480.20	480.20	399.90	42607.90	Ton/day
Min	399.90	317.79	317.79	513.63	234.28	439.11	33635.18	1446.45	399.90	480.20	399.90	317.79	234.28	Ton/day

## WATER YEAR : 2021

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Pom, Phra Nakhon Si Ayutthaya (C.35)

Lat 14 - 22 - 09 N Long 100 - 31 - 43 E

Location : on right bank at Ban Pom

	<b>Ban</b> Pom	<b>Amphoe</b> Phra Nakhon Si Ayutthaya	<b>Changwat</b> Phra Nakhon Si Ayutthaya
<b>Drainage Area</b>	Flood Plain		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	19		
<b>R-Square</b>	0.9434		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.2692 QW^{1.57200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1385.23	1481.25	1325.02	859.67	907.99	1310.12	25365.93	16681.14	2520.46	2109.16	1770.60	1400.44	
2	1481.25	1516.39	1178.80	847.74	895.82	1385.23	26019.15	16470.53	3033.14	1980.22	1623.58	1251.13	
3	1400.44	1551.82	1137.04	800.63	944.85	1400.44	26583.85	16540.62	2907.96	1903.01	1659.90	1280.50	
4	1733.41	1463.79	1058.61	957.26	957.26	1623.58	26867.86	16400.54	2567.79	1922.21	1569.65	1265.79	
5	1770.60	1339.98	824.06	1097.57	883.71	2426.77	26867.86	16126.32	2639.39	1826.92	1826.92	1222.01	
6	1999.70	1339.98	835.87	1084.53	871.66	2663.41	20294.13	16059.18	2544.09	1733.41	1714.93	1164.52	
7	1770.60	1164.52	982.25	883.71	944.85	2907.96	20458.10	15992.14	2496.92	1623.58	1400.44	1110.67	
8	1385.23	1207.54	994.83	895.82	789.01	3376.67	20130.64	15528.05	2615.44	1605.53	1280.50	1123.83	
9	1370.09	1222.01	1045.74	1084.53	812.32	3684.56	19880.06	14956.09	2311.48	1463.79	1385.23	1280.50	
10	1339.98	1207.54	871.66	1007.47	895.82	3656.17	19880.06	14258.83	2109.16	1123.83	1678.17	1295.28	
11	1415.70	1295.28	720.58	1150.31	982.25	3627.85	19755.20	13608.60	2175.85	1400.44	1605.53	1310.12	
12	1516.39	1280.50	789.01	1164.52	1032.93	3914.56	19012.05	12615.97	1941.48	1587.55	1446.41	1251.13	
13	1431.03	1222.01	994.83	1207.54	1123.83	5003.09	17755.89	11552.34	1659.90	1696.51	1370.09	1295.28	
14	1431.03	1355.00	1032.93	1251.13	1137.04	5961.56	16610.83	10543.05	1696.51	1551.82	1534.07	1280.50	
15	1431.03	1032.93	907.99	1045.74	1207.54	7132.37	16681.14	9619.54	1696.51	1516.39	1481.25	1084.53	
16	1463.79	1236.54	907.99	1137.04	1325.02	7493.76	17314.03	9134.56	1678.17	1551.82	1587.55	1020.17	
17	1463.79	1207.54	847.74	1058.61	1110.67	7177.19	18155.82	8533.46	1826.92	1516.39	1400.44	994.83	
18	1463.79	1222.01	777.45	932.50	1178.80	6954.13	18889.21	8008.36	1980.22	1659.90	1446.41	1020.17	
19	1569.65	1137.04	687.22	969.72	1137.04	7177.19	19755.20	7675.11	1960.82	1534.07	1463.79	982.25	
20	1733.41	1032.93	765.95	1137.04	1058.61	7539.39	20787.48	7229.03	1605.53	1623.58	1339.98	1007.47	
21	1733.41	994.83	847.74	1325.02	1150.31	8235.81	21619.27	6792.75	1696.51	1696.51	1370.09	1236.54	
22	1789.31	969.72	824.06	1310.12	1032.93	9365.45	22306.25	6310.36	1883.88	1659.90	1339.98	1150.31	
23	1659.90	920.21	982.25	1236.54	932.50	10507.34	22829.88	6215.12	1960.82	1623.58	1385.23	1164.52	
24	1415.70	944.85	754.51	1178.80	969.72	12531.32	22829.88	5753.22	1960.82	1415.70	1446.41	1236.54	
25	1339.98	994.83	800.63	1164.52	1071.54	14121.72	22567.51	5143.02	1789.31	1193.14	1714.93	1295.28	
26	1097.57	1032.93	1058.61	1020.17	1097.57	16437.85	21787.05	4524.51	1770.60	1325.02	1714.93	1325.02	
27	1123.83	1058.61	1123.83	1123.83	1295.28	18889.21	21118.77	4002.11	1569.65	1587.55	1659.90	1207.54	
28	1137.04	1207.54	1071.54	1007.47	1400.44	20706.23	19880.06	3431.92	1385.23	1696.51	1569.65	1058.61	
29	1251.13	1280.50	1007.47	932.50	1310.12	22368.85	18783.79	2982.84	1431.03	1678.17		957.26	
30	1415.70	1415.70	907.99	932.50	1355.00	24260.25	17844.75	2687.51	1808.08	1481.25		932.50	
31		1310.12		932.50	1325.02		17226.14		2109.16	1516.39		920.21	
Total	44519.71	37646.44	28064.20	32737.05	33137.45	243840.03	645857.84	305376.82	63332.83	49803.85	42786.56	36125.45	1563228.23 Ton/day
Mean	1483.99	1214.40	935.47	1056.03	1068.95	8128.00	20834.12	10179.23	2042.99	1606.58	1528.09	1165.34	4282.82 Ton/day
Max	1999.70	1551.82	1325.02	1400.44	1400.44	24260.25	26867.86	16681.14	3033.14	2109.16	1826.92	1400.44	26867.86 Ton/day
Min	1097.57	920.21	687.22	800.63	789.01	1310.12	16610.83	2687.51	1385.23	1123.83	1280.50	920.21	687.22 Ton/day

## WATER YEAR : 2021

## SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct.5A)

Lat 15 - 55 - 42 N Long 99 - 30 - 09 E

Location : on left bank behind Wat Pang Makha.

	<b>Ban</b>	Pang Makha	<b>Amphoe</b>	Khanu Woralaksaburi	<b>Changwat</b>	Kamphaeng Phet
<b>Drainage Area</b>	980	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1969-Cont'd					
<b>Actual Measurement</b>	1969-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	10					
<b>R-Square</b>	0.8921					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.0380 QW^{1.63470}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	85.60	665.39	133.59	53.72	173.50	3933.22	3419.17	813.05	102.09	35.46	16.54	14.21	
2	73.98	462.02	110.75	49.06	163.14	1103.02	3629.96	542.53	102.09	35.46	16.54	14.21	
3	71.31	2626.02	97.86	47.01	153.04	1240.44	3377.60	828.44	97.86	33.66	17.76	13.09	
4	81.65	451.12	89.61	51.37	163.14	3758.77	3377.60	1027.33	93.70	33.66	17.76	12.01	
5	168.29	350.28	81.65	49.06	173.50	1122.26	3377.60	637.25	93.70	31.90	17.76	14.21	
6	309.48	302.95	71.31	51.37	158.06	555.70	3419.17	495.31	89.61	31.90	25.76	13.09	
7	168.29	357.69	68.68	56.11	153.04	782.60	3502.90	419.05	89.61	30.18	21.62	21.62	
8	153.04	283.68	68.68	53.72	143.19	637.25	3377.60	542.53	85.60	30.18	19.01	43.02	
9	148.08	240.67	66.09	58.55	138.36	451.12	3377.60	595.93	81.65	28.67	16.54	85.60	
10	115.19	211.65	66.09	1748.45	128.89	462.02	3377.60	429.64	77.78	28.67	16.54	37.30	
11	93.70	194.94	66.09	828.44	119.69	679.64	3377.60	380.25	77.78	28.67	16.54	25.76	
12	89.61	189.49	66.09	971.95	115.19	637.25	3377.60	350.28	77.78	27.20	16.54	21.62	
13	106.39	163.14	66.09	316.07	119.69	419.05	5702.63	322.71	77.78	27.20	17.76	19.01	
14	89.61	143.19	66.09	283.68	128.89	517.99	3377.60	309.48	73.98	25.76	16.54	16.54	
15	81.65	133.59	66.09	302.95	133.59	637.25	3587.41	290.05	73.98	25.76	106.39	15.36	
16	77.78	124.26	77.78	506.60	128.89	971.95	3587.41	223.08	77.78	25.76	63.54	14.21	
17	73.98	110.75	93.70	462.02	128.89	955.56	6370.46	178.77	51.37	24.35	128.89	16.54	
18	73.98	119.69	93.70	296.47	115.19	623.36	5196.27	178.77	49.06	24.35	51.37	14.21	
19	97.86	138.36	89.61	240.67	106.39	637.25	5077.75	173.50	47.01	24.35	45.00	39.17	
20	89.61	124.26	73.98	217.34	115.19	1064.91	3758.77	163.14	47.01	22.96	115.19	33.66	
21	110.75	106.39	68.68	211.65	110.75	3587.41	3377.60	153.04	43.02	25.76	43.02	21.62	
22	119.69	102.09	63.54	206.02	124.26	11941.49	3460.93	143.19	39.17	24.35	28.67	20.30	
23	110.75	97.86	61.02	217.34	143.19	5572.53	3587.41	138.36	41.08	24.35	22.96	19.01	
24	97.86	89.61	56.11	211.65	133.59	6507.45	3545.05	143.19	39.17	25.76	21.62	24.35	
25	85.60	89.61	53.72	194.94	173.50	4304.26	3377.60	133.59	39.17	24.35	19.01	158.06	
26	77.78	93.70	51.37	194.94	173.50	31180.52	3377.60	124.26	37.30	24.35	19.01	35.46	
27	258.77	81.65	53.72	228.89	258.77	17606.64	2440.60	119.69	39.17	21.62	16.54	22.96	
28	939.29	89.61	53.72	240.67	2155.03	6854.86	609.59	115.19	37.30	21.62	15.36	25.76	
29	2588.51	158.06	53.72	252.68	1673.39	4110.72	542.53	110.75	37.30	20.30		217.34	
30	3254.08	148.08	53.72	223.08	679.64	3377.60	651.26	106.39	35.46	20.30		66.09	
31		148.08		194.94	1027.33		875.29		35.46	19.01		39.17	
Total	9892.16	8597.88	2182.85	9021.41	9412.41	116234.09	103495.76	10188.74	1990.82	827.87	949.78	1134.56	273928.33 Today
Mean	329.74	277.35	72.76	291.01	303.63	3874.47	3338.57	339.62	64.22	26.71	33.92	36.60	750.49 Ton/day
Max	3254.08	2626.02	133.59	1748.45	2155.03	31180.52	6370.46	1027.33	102.09	35.46	128.89	217.34	31180.52 Ton/day
Min	71.31	81.65	51.37	47.01	106.39	419.05	542.53	106.39	35.46	19.01	15.36	12.01	12.01 Ton/day





## WATER YEAR : 2021

## SAKAE KRANG RIVER BASIN

## Lower Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20)

Lat 15 - 26 - 50 N Long 99 - 35 - 13 E

Location : on right bank at Ban Saphan Leak

	<b>Ban</b> Saphan Leak	<b>Amphoe</b> Lan Sak	<b>Changwat</b> Uthai Thani
<b>Drainage Area</b>	674 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	13		
<b>R-Square</b>	0.8856		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 8.0954 QW^{1.18650}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	55.43	0.00	0.00	0.00	31.82	99.71	340.01	15.62	19.85	0.00	21.30	
2	0.00	27.23	0.00	0.00	0.00	58.30	305.21	205.68	0.35	19.85	0.00	0.00	
3	0.00	21.30	0.00	0.00	0.00	33.38	285.43	259.39	25.73	19.85	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	31.82	375.73	416.26	21.30	28.75	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	38.72	399.54	382.93	11.56	104.00	0.00	0.00	
6	0.00	0.00	298.60	0.00	0.00	28.75	637.80	347.11	5.30	125.85	0.00	0.00	
7	0.00	0.00	399.54	0.00	0.00	27.23	1173.45	298.60	0.00	153.80	0.00	0.00	
8	24.24	0.00	433.09	0.00	0.00	21.30	733.51	292.00	0.00	163.62	0.00	0.00	
9	1.79	0.00	512.81	0.00	0.00	17.01	657.69	305.21	0.00	168.56	0.00	0.00	
10	0.00	0.00	531.30	71.21	0.00	12.89	744.44	240.62	0.00	178.51	0.00	0.00	
11	0.00	0.00	522.04	407.89	0.00	46.96	824.67	285.43	0.00	183.52	1.27	0.00	
12	0.00	0.00	503.60	38.72	0.00	27.23	766.39	228.88	0.00	178.51	46.96	0.00	
13	0.00	0.00	441.54	21.30	0.00	19.85	1840.82	183.52	0.00	178.51	71.21	0.00	
14	0.00	0.00	424.66	6.49	21.30	8.97	848.16	139.27	0.00	178.51	99.71	0.00	
15	0.00	0.00	399.54	46.96	24.24	6.49	1214.51	104.00	0.00	183.52	95.45	0.00	
16	0.00	0.00	382.93	64.50	0.00	6.49	1510.00	78.02	0.00	188.55	74.60	0.00	
17	0.00	0.00	361.37	246.53	0.00	3.47	2950.19	49.75	3.47	88.41	64.50	0.00	
18	0.00	0.00	340.01	240.62	0.00	1.79	4892.26	27.23	10.25	0.00	58.30	0.00	
19	0.00	0.00	194.24	81.46	0.00	74.60	3306.63	21.30	19.85	0.00	33.38	0.00	
20	0.00	0.00	0.00	49.75	0.00	71.21	1840.82	22.76	19.85	0.00	21.30	0.00	
21	0.00	0.00	0.00	38.72	0.00	325.88	1395.99	22.76	3.47	0.00	1.27	0.00	
22	0.00	0.00	0.00	31.82	19.85	272.37	1065.06	24.24	2.33	0.00	46.96	0.00	
23	0.00	0.00	0.00	28.75	0.00	424.66	985.71	25.73	8.97	0.00	71.21	0.00	
24	0.00	0.00	0.00	25.73	0.00	848.16	668.44	24.24	18.43	0.00	99.71	0.00	
25	0.00	0.00	0.00	24.24	0.00	234.74	173.52	24.24	25.73	0.00	95.45	0.00	
26	0.00	0.00	0.00	22.76	0.00	1626.49	188.55	24.24	27.23	0.00	74.60	0.00	
27	0.00	22.76	0.00	21.30	25.73	531.30	228.88	22.76	27.23	0.00	64.50	0.00	
28	0.00	0.00	0.00	17.01	44.18	173.52	332.93	15.62	24.24	0.00	58.30	0.00	
29	30.28	71.21	0.00	7.71	74.60	91.92	325.88	6.49	25.73	0.00		0.00	
30	64.50	81.46	0.00	0.00	55.43	64.50	340.01	24.24	21.30	0.00		0.00	
31		7.71	0.00	0.00	36.03		332.93		19.85	0.00		0.00	
<b>Total</b>	120.81	287.10	5745.27	1493.47	301.36	5161.82	31444.86	4442.53	337.79	2162.17	1078.68	21.30	52597.16 Ton/day
<b>Mean</b>	4.03	9.26	191.51	48.18	9.72	172.06	1014.35	148.08	10.90	69.75	38.52	0.69	144.10 Ton/day
<b>Max</b>	64.50	81.46	531.30	407.89	74.60	1626.49	4892.26	416.26	27.23	188.55	99.71	21.30	4892.26 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	1.79	99.71	6.49	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## PASAK RIVER BASIN

Pasak River at Ban Tan Dieo , Phetchabun (S.3)

Lat 16 - 46 - 54 N Long 101 - 14 - 48 E

Location : on left bank near the bridge of Samakkhichai - Nonthakit Road.

	Ban Tan Dieo	Amphoe Lom Sak	Changwat Phetchabun
<b>Drainage Area</b>	1,026 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	17		
<b>R-Square</b>	0.7863		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 10.6994 QW^{1.65430}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	21.39	10.00	24.25	54.65	3769.51	2563.78	344.80	33.68	0.00	0.00	46.80		
2	0.00	34.80	4.10	40.62	37.09	1816.43	2068.39	769.81	30.40	0.00	0.00	68.80		
3	0.00	64.42	2.35	17.79	43.05	1011.55	1577.58	389.94	28.29	0.00	0.00	79.45		
4	0.00	43.05	5.11	6.21	34.80	661.63	1524.37	257.51	26.24	0.00	0.00	43.05		
5	0.00	54.65	8.66	3.63	272.63	1595.48	998.74	206.76	28.29	0.00	0.00	10.70		
6	0.00	25.24	2.75	3.18	76.34	3577.08	515.04	172.04	37.09	0.00	0.00	6.80		
7	0.00	38.25	2.75	3.18	38.25	5452.60	430.36	157.42	34.80	0.16	1.97	6.21		
8	0.00	14.47	68.80	10.70	23.28	2732.85	531.53	161.03	22.33	1.62	0.05	6.80		
9	125.99	18.67	444.19	262.51	16.10	5411.00	451.16	128.82	19.56	3.18	0.00	16.10		
10	65.87	150.31	812.53	617.01	10.00	22100.32	679.82	112.22	18.67	4.10	0.00	153.85		
11	46.80	56.01	314.59	277.74	5.11	22100.32	812.53	106.89	17.79	4.10	0.00	61.57		
12	39.43	8.66	812.53	161.03	2.35	20164.16	2396.00	104.26	17.79	2.75	0.00	29.34		
13	84.20	4.60	202.77	157.42	1.01	17704.18	3545.40	96.54	16.10	1.62	0.00	24.25		
14	48.07	2.75	58.76	71.78	1.62	10134.03	5494.32	91.52	12.91	0.52	0.00	23.28		
15	25.24	1.62	748.80	376.82	12.15	9422.86	2209.37	87.42	11.42	0.52	0.00	34.80		
16	24.25	0.75	738.38	237.89	10.70	6189.86	1722.99	84.20	10.70	0.16	0.52	28.29		
17	37.09	0.32	183.33	451.16	172.04	5832.65	10585.13	89.05	10.70	0.05	10.70	29.34		
18	48.07	5.11	383.36	164.67	61.57	8393.64	7185.31	79.45	10.00	0.52	24.25	31.48		
19	62.99	7.40	164.67	54.65	16.94	4802.23	2563.78	79.45	4.10	0.52	30.40	44.29		
20	79.45	54.65	50.67	81.02	6.21	6690.41	1386.03	76.34	4.60	0.16	17.79	43.05		
21	85.80	617.01	19.56	131.67	3.18	11667.64	867.20	71.78	4.10	0.05	17.79	35.94		
22	67.33	32.57	8.02	146.80	28.29	6636.29	2009.10	68.80	4.10	0.00	38.25	26.24		
23	26.24	3.63	5.65	228.31	12.15	6374.93	3900.01	67.33	3.63	0.16	15.27	33.68		
24	20.47	0.52	11.42	1854.34	1.97	8216.49	1320.01	67.33	2.75	5.65	10.70	43.05		
25	16.10	0.00	12.15	3801.97	3.18	8692.19	728.02	64.42	2.75	13.68	8.02	37.09		
26	16.94	29.34	5.11	6799.18	24.25	15429.08	506.87	60.16	1.30	4.10	6.21	48.07		
27	13.68	54.65	7.40	6636.29	76.34	16758.52	423.52	56.01	0.00	1.30	8.66	44.29		
28	12.15	61.57	13.68	2459.53	120.40	12955.28	351.12	54.65	0.00	0.00	26.24	34.80		
29	46.80	370.33	16.10	490.69	134.55	7522.95	288.09	53.31	0.00	0.00		33.68		
30	23.28	137.45	12.91	206.76	233.08	4166.23	326.13	50.67	0.00	0.00		65.87		
31		26.24		101.66	1854.34		293.31		0.00	0.00		539.85		
Total	1016.24	1940.43	5131.10	25880.46	3387.62	257982.39	60255.01	4209.93	414.09	44.92	216.82	1730.81	362209.82	Ton/day
Mean	33.87	62.59	171.04	834.85	109.28	8599.41	1943.71	140.33	13.36	1.45	7.74	55.83	992.36	Ton/day
Max	125.99	617.01	812.53	6799.18	1854.34	22100.32	10585.13	769.81	37.09	13.68	38.25	539.85	22100.32	Ton/day
Min	0.00	0.00	2.35	3.18	1.01	661.63	288.09	50.67	0.00	0.00	0.00	6.21	0.00	Ton/day

## WATER YEAR : 2021

## PASAK RIVER BASIN

Pasak River at Mueang , Phetchabun (S.4B)

Lat 16 - 25 - 24 N Long 101 - 09 - 43 E

Location : on left bank about 300 meters downstream, Phatthana Phak Nua 2 bridge.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Phetchabun
<b>Drainage Area</b>	3,141 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	14		
<b>R-Square</b>	0.7898		
<b>Remarks</b>	Continued Sediment Station		

QS = 2.9053 QW<sup>1.65730</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	59.44	11.80	0.00	87.06	1503.15	14012.35	1418.03	25.40	0.00	0.00	0.00	
2	0.00	94.98	4.78	0.00	53.81	1646.97	13427.37	1731.13	2.81	0.00	0.00	0.00	
3	0.00	79.77	2.81	0.00	30.24	1294.07	12078.02	1680.43	0.00	0.00	0.00	0.00	
4	0.00	108.80	0.58	0.00	35.79	1135.88	8897.29	1376.21	0.00	0.00	0.00	0.00	
5	0.00	94.98	0.00	0.00	48.41	1200.80	5838.86	1123.06	0.00	0.00	0.00	0.00	
6	0.00	59.44	0.00	0.00	105.97	1418.03	3522.29	536.18	0.00	0.00	0.00	0.00	
7	0.00	46.66	0.00	0.00	59.44	2047.69	2047.69	304.16	0.00	0.00	0.00	0.00	
8	0.00	38.70	0.00	0.00	19.97	2486.45	1517.53	233.23	0.00	0.00	0.00	0.00	
9	0.00	25.40	0.00	0.00	7.21	1993.47	1294.07	190.52	0.00	0.00	0.00	0.00	
10	0.00	18.95	2.81	0.00	2.13	3235.05	1148.75	131.97	0.00	0.00	0.00	0.00	
11	0.00	26.55	105.97	34.36	0.77	6029.84	1187.70	108.80	0.00	0.00	0.00	0.00	
12	0.00	73.42	41.70	103.18	0.13	8026.12	1630.34	113.29	0.00	0.00	0.00	0.00	
13	0.00	44.94	97.69	89.67	0.00	8792.96	2444.54	100.42	0.00	0.00	0.00	0.00	
14	0.00	34.36	63.32	69.31	0.00	9426.25	3442.99	94.98	0.00	0.00	0.00	0.00	
15	0.00	44.94	40.19	27.72	0.00	9679.63	4391.75	87.06	0.00	0.00	0.00	0.00	
16	0.00	50.19	173.38	69.31	0.00	10064.68	4391.75	81.93	0.00	0.00	0.00	0.00	
17	0.00	40.19	173.38	89.67	0.77	11053.17	6904.90	77.63	0.00	0.00	0.00	0.00	
18	0.00	55.67	81.93	146.72	35.79	11390.78	9319.49	81.93	0.00	0.00	0.00	0.00	
19	0.00	41.70	69.31	73.42	25.40	11255.25	11053.17	71.35	0.00	0.00	0.00	0.00	
20	40.19	32.96	35.79	30.24	9.39	10852.54	11595.27	59.44	0.00	0.00	0.00	0.00	
21	57.54	26.55	6.66	28.91	4.37	10064.68	10653.37	59.44	0.00	0.00	0.00	0.00	
22	57.54	67.29	0.25	23.17	0.77	9679.63	8076.37	61.37	0.00	0.00	0.00	0.00	
23	50.19	31.59	0.00	40.19	0.00	10064.68	6999.73	61.37	0.00	0.00	0.00	0.00	
24	43.24	17.26	0.00	67.29	1.01	10455.67	6952.25	57.54	0.00	0.00	0.00	0.00	
25	30.24	13.71	0.00	1148.75	0.40	11120.37	6119.73	51.99	0.00	0.00	0.00	0.00	
26	25.40	13.09	0.00	1697.27	0.00	12568.55	4166.64	41.70	0.00	0.00	0.00	0.00	
27	23.17	13.71	0.00	2142.63	0.00	14160.14	2382.21	37.23	0.00	0.00	0.00	0.00	
28	21.01	11.80	0.00	2181.08	57.54	14832.77	1646.97	34.36	0.00	0.00	0.00	0.00	
29	22.08	7.21	0.00	1488.83	223.72	14457.56	1307.63	27.72	0.00	0.00	0.00	0.00	
30	24.27	24.27	0.00	879.13	821.89	14308.54	1334.89	25.40	0.00	0.00	0.00	0.00	
31		44.94		645.48	949.82		1446.19		0.00	0.00		0.00	
Total	394.87	1343.46	912.35	11076.33	2581.80	236245.37	171232.10	10059.87	28.21	0.00	0.00	0.00	433874.36 Tonday
Mean	13.16	43.34	30.41	357.30	83.28	7874.85	5523.62	335.33	0.91	0.00	0.00	0.00	1188.70 Ton/day
Max	57.54	108.80	173.38	2181.08	949.82	14832.77	14012.35	1731.13	25.40	0.00	0.00	0.00	14832.77 Ton/day
Min	0.00	7.21	0.00	0.00	0.00	1135.88	1148.75	25.40	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****PASAK RIVER BASIN****Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)**

Lat 14 - 47 - 22 N Long 101 - 07 - 02 E

Location : on right bank at Ban Tharahad.

	<b>Ban Tharahad</b>	<b>Amphoe</b>	<b>Wang Muang</b>	<b>Changwat</b>	<b>Saraburi</b>
<b>Drainage Area</b>	628 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	2018-Cont'd				
<b>Actual Measurement</b>	2018-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	20				
<b>R-Square</b>	0.9594				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 5.1580 QW^{1.07190}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.19	11.31	12.65	7.51	4.33	3.79	14.60	38.99	4.06	9.57	7.51	13.30	
2	34.20	11.31	12.65	8.88	4.33	3.79	15.91	26.23	4.06	9.57	7.51	13.30	
3	34.20	11.31	12.65	8.88	5.16	3.79	15.91	18.55	4.33	9.57	7.51	13.30	
4	34.20	11.31	13.30	8.88	9.22	3.79	17.22	18.55	4.33	9.57	7.51	13.30	
5	34.20	11.31	13.30	8.19	9.22	3.79	19.88	9.22	4.06	9.57	7.51	13.30	
6	35.20	11.66	12.65	6.83	9.22	3.79	20.54	4.61	4.06	9.57	7.51	13.30	
7	34.20	11.66	12.65	6.50	8.88	3.79	20.54	35.20	4.06	9.57	7.51	13.30	
8	34.20	12.01	12.65	6.50	8.88	3.79	20.54	122.48	3.79	9.57	7.51	13.30	
9	34.20	12.01	12.65	6.83	8.54	3.52	19.88	85.63	3.79	9.57	7.51	13.30	
10	34.20	12.65	23.90	6.50	5.49	3.52	19.88	4.61	3.79	9.57	7.51	13.30	
11	34.20	13.30	35.20	6.16	4.61	3.25	19.88	4.33	3.79	9.57	7.51	13.30	
12	34.20	13.95	35.20	5.82	4.33	3.25	19.88	4.33	3.79	9.22	7.51	13.30	
13	34.20	14.60	23.90	6.16	6.83	3.25	19.88	4.33	4.33	9.22	7.51	14.60	
14	35.20	13.95	12.65	6.83	8.88	3.25	19.88	4.33	5.82	9.22	7.51	15.25	
15	34.20	12.65	12.65	5.82	8.88	3.25	21.21	4.33	6.50	9.22	7.51	16.57	
16	34.20	12.65	12.65	5.49	8.88	3.25	21.88	8.88	6.50	9.22	7.51	18.55	
17	34.20	12.65	12.65	5.49	8.88	3.25	92.32	13.95	6.50	9.22	7.51	19.21	
18	34.20	12.65	12.65	4.88	8.54	3.25	110.21	4.06	6.50	9.57	9.22	19.21	
19	29.20	12.65	12.65	4.33	8.54	3.25	26.23	15.91	6.50	8.54	11.31	19.21	
20	24.57	12.65	15.91	4.33	7.85	3.25	4.88	4.61	6.50	7.51	11.31	19.21	
21	24.57	13.30	23.22	4.33	4.33	3.25	4.61	4.33	6.50	7.85	11.66	19.21	
22	23.90	12.65	21.21	4.33	4.33	3.25	5.16	19.21	6.50	7.51	13.95	19.21	
23	23.90	21.88	26.23	4.33	9.22	3.25	20.54	4.61	6.50	7.51	13.30	19.21	
24	23.90	38.99	58.26	4.33	10.26	4.61	15.25	4.33	6.50	7.51	13.30	19.21	
25	23.90	24.57	44.08	4.33	8.54	4.33	4.61	4.06	6.50	7.51	13.30	19.21	
26	23.90	12.01	23.22	4.33	8.54	4.06	4.61	17.22	6.50	7.51	13.30	18.55	
27	23.90	12.01	23.22	4.33	7.51	16.57	4.61	4.33	7.17	7.51	13.30	18.55	
28	23.90	12.01	15.91	4.33	4.33	143.10	6.83	4.33	8.54	7.85	13.30	18.55	
29	25.25	12.01	7.85	4.33	4.33	221.71	21.88	9.92	8.88	7.51		18.55	
30	17.22	12.65	7.51	4.33	4.33	69.06	14.60	4.33	9.57	7.51		18.55	
31		12.65		4.33	4.33		17.89		9.57	7.51		18.55	
<b>Total</b>	879.70	432.97	575.87	178.44	219.54	543.05	661.74	509.80	179.79	269.50	264.92	508.76	5224.08 Tonday
<b>Mean</b>	29.32	13.97	19.20	5.76	7.08	18.10	21.35	16.99	5.80	8.69	9.46	16.41	14.31 Ton/day
<b>Max</b>	35.20	38.99	58.26	8.88	10.26	221.71	110.21	122.48	9.57	9.57	13.95	19.21	221.71 Ton/day
<b>Min</b>	8.19	11.31	7.51	4.33	4.33	3.25	4.61	4.06	3.79	7.51	7.51	13.30	3.25 Ton/day

## WATER YEAR : 2021

## PASAK RIVER BASIN

Pasak River at Ban Pa , Saraburi (S.9)

Lat 14 - 37 - 45 N Long 101 - 00 - 52 E

Location : on left bank at Ban Mueang Nua railway bridge.

	<b>Ban Pa</b>	<b>Amphoe</b>	<b>Kaeng Khoi</b>	<b>Changwat</b>	<b>Saraburi</b>
<b>Drainage Area</b>	14,350 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1978-Cont'd				
<b>Actual Measurement</b>	1978-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	20				
<b>R-Square</b>	0.9472				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 3.8671 QW^{1.14770}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	186.31	107.63	297.25	128.71	49.62	69.29	12132.14	3204.69	155.10	419.91	386.34	330.07	
2	186.31	82.57	284.25	140.63	40.25	71.49	12931.46	3236.33	155.10	432.59	398.89	320.18	
3	186.31	67.11	281.01	140.63	36.32	73.69	13062.20	3173.09	167.29	424.14	386.34	313.60	
4	186.31	57.84	277.78	140.63	50.98	60.62	12931.46	3334.86	152.67	307.05	313.60	411.49	
5	192.46	53.71	268.11	140.63	52.34	60.62	12206.21	3863.03	152.67	271.33	365.54	336.68	
6	198.63	52.34	261.68	287.49	126.35	62.77	11025.39	4159.81	152.67	258.48	271.33	349.02	
7	204.84	50.98	258.48	300.51	152.67	48.27	9875.51	4234.44	152.67	258.48	201.73	336.68	
8	192.46	53.71	248.90	229.88	152.67	42.91	8665.21	4371.70	152.67	274.55	229.88	333.37	
9	189.38	59.23	248.90	116.94	147.84	48.27	7393.90	4409.24	155.10	271.33	271.33	330.07	
10	189.38	80.34	242.54	60.62	135.84	56.46	6128.90	3645.12	155.10	313.60	271.33	271.33	
11	189.38	60.62	248.90	69.29	131.08	62.77	4761.49	2184.25	195.54	333.37	369.69	261.68	
12	189.38	55.08	284.25	52.34	131.08	64.94	2558.28	1102.70	214.18	333.37	445.32	261.68	
13	183.24	128.71	303.78	52.34	131.08	44.24	585.37	648.80	233.04	340.79	453.84	320.18	
14	157.53	150.25	316.89	48.27	143.03	33.73	1648.11	492.39	248.90	287.49	470.92	330.07	
15	162.40	147.84	349.02	119.28	128.71	35.02	2595.17	353.14	255.28	255.28	462.37	320.18	
16	164.84	198.63	307.05	121.63	164.84	42.91	3645.12	316.89	264.89	220.45	436.83	307.05	
17	155.10	284.25	236.20	71.49	169.74	31.16	4850.09	300.51	271.33	258.48	432.59	320.18	
18	155.10	293.99	183.24	50.98	164.84	23.63	5999.17	297.25	274.55	316.89	428.36	320.18	
19	162.40	293.99	164.84	53.71	164.84	21.18	6432.97	252.09	290.74	326.77	378.00	326.77	
20	172.20	290.74	155.10	48.27	164.84	22.40	6360.40	242.54	297.25	258.48	357.27	398.89	
21	155.10	287.49	147.84	40.25	164.84	41.58	6244.51	220.45	303.78	264.89	340.79	428.36	
22	150.25	284.25	167.29	32.44	133.46	49.62	6258.98	220.45	378.00	274.55	336.68	419.91	
23	135.84	287.49	214.18	42.91	107.63	44.24	6389.42	242.54	394.70	277.78	281.01	436.83	
24	128.71	349.02	217.31	48.27	109.95	80.34	6462.03	217.31	382.17	281.01	268.11	458.10	
25	128.71	361.40	207.95	50.98	96.13	69.29	6360.40	207.95	271.33	277.78	271.33	445.32	
26	133.46	349.02	189.38	50.98	91.58	297.25	5769.43	214.18	290.74	274.55	373.84	428.36	
27	138.23	390.52	147.84	49.62	91.58	843.72	5015.19	186.31	293.99	287.49	419.91	428.36	
28	123.99	394.70	128.71	46.92	98.42	2632.13	4346.71	152.67	297.25	313.60	326.77	424.14	
29	119.28	386.34	109.95	46.92	84.81	5740.79	3801.56	150.25	293.99	386.34		297.25	
30	135.84	378.00	103.01	42.91	82.57	9962.05	3334.86	167.29	274.55	407.28		271.33	
31		361.40		41.58	78.11		3173.09		394.70	394.70		274.55	
Total	4953.37	6399.19	6851.63	2868.05	3578.04	20737.38	202944.73	45802.27	7671.94	9602.80	9949.94	10811.86	332171.20 Today
Mean	165.11	206.43	228.39	92.52	115.42	691.25	6546.60	1526.74	247.48	309.77	355.36	348.77	910.06 Ton/day
Max	204.84	394.70	349.02	300.51	169.74	9962.05	13062.20	4409.24	394.70	432.59	470.92	458.10	13062.20 Ton/day
Min	119.28	50.98	103.01	32.44	36.32	21.18	585.37	150.25	152.67	220.45	201.73	261.68	21.18 Ton/day

**WATER YEAR : 2021****PASAK RIVER BASIN****Pasak River at Ban Nong Bua , Lop Buri (S.28)**

Lat 14 - 50 - 05 N Long 101 - 05 - 04 E

Location : on left bank at Ban Nong Bua.

	<b>Ban Nong Bua</b>	<b>Amphoe Phatthana Nikhom Changwat</b>	<b>Lop Buri</b>
<b>Drainage Area</b>	12,838 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	31		
<b>R-Square</b>	0.9746		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.2981 QW^{1.01220}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	189.40	59.40	212.93	47.27	18.94	24.94	6847.13	1832.58	108.13	346.12	338.45	258.06	
2	186.26	42.43	211.36	54.55	20.14	23.74	6808.31	1836.49	108.13	348.04	332.70	242.78	
3	189.40	45.45	206.65	53.94	23.14	23.74	6653.06	1848.23	106.57	296.31	313.54	325.04	
4	189.40	32.77	205.08	48.48	24.34	23.74	6375.41	2010.14	108.13	221.79	277.18	319.29	
5	189.40	30.96	198.81	89.46	24.34	23.74	5728.13	2465.01	106.57	223.70	290.57	292.48	
6	192.53	30.96	198.81	267.62	46.67	23.74	5178.56	2509.71	106.57	231.33	198.81	282.92	
7	140.88	27.95	192.53	209.79	89.46	23.74	4614.45	2524.61	108.13	237.06	147.13	259.97	
8	112.80	23.14	190.97	290.57	81.70	23.74	4145.53	2559.39	106.57	258.06	219.88	244.69	
9	112.80	23.74	190.97	84.80	78.59	14.75	3528.04	2440.17	106.57	261.89	223.70	205.08	
10	194.10	28.55	189.40	29.15	78.59	11.77	2952.14	1634.31	137.76	305.88	240.87	190.97	
11	120.59	28.55	195.67	27.95	70.84	11.77	2154.68	1005.06	167.47	305.88	363.38	181.56	
12	125.27	27.95	211.36	20.74	61.56	11.77	738.18	580.63	173.73	303.97	355.71	212.93	
13	129.95	43.03	227.51	17.74	70.84	11.77	570.64	430.16	198.81	281.00	355.71	244.69	
14	129.95	56.97	258.06	16.54	126.83	11.77	1495.55	338.45	206.65	225.61	357.63	256.15	
15	194.10	70.84	254.24	16.54	153.38	11.77	1742.61	281.00	208.22	227.51	348.04	238.96	
16	154.95	111.24	231.33	16.54	151.82	11.77	2198.50	252.33	221.79	229.42	336.54	256.15	
17	148.69	181.56	187.83	17.14	145.57	11.77	2698.55	214.50	219.88	281.00	334.62	256.15	
18	139.32	221.79	162.77	17.14	128.39	11.77	3213.40	208.22	231.33	298.23	305.88	258.06	
19	144.01	203.51	153.38	17.14	119.03	11.77	3302.40	170.60	238.96	302.05	275.27	298.23	
20	194.10	203.51	153.38	17.14	119.03	11.77	3263.46	165.90	244.69	263.80	277.18	355.71	
21	142.44	212.93	151.82	17.14	119.03	11.77	3235.65	165.90	284.83	229.42	279.09	355.71	
22	94.12	211.36	139.32	16.54	100.34	11.77	3241.21	165.90	332.70	219.88	246.60	346.12	
23	70.84	214.50	154.95	19.54	44.24	11.77	3307.97	164.34	332.70	217.98	209.79	355.71	
24	69.29	227.51	129.95	20.74	32.77	11.77	3313.53	159.64	284.83	219.88	209.79	355.71	
25	72.39	227.51	115.92	20.74	28.55	11.77	3185.59	162.77	235.15	219.88	240.87	353.79	
26	73.94	282.92	108.13	20.74	28.55	11.77	2837.81	142.44	235.15	223.70	344.20	353.79	
27	77.04	298.23	101.90	20.14	28.55	513.94	2534.55	101.90	237.06	254.24	305.88	353.79	
28	78.59	302.05	66.20	20.74	28.55	2514.67	2277.41	106.57	237.06	281.00	254.24	313.54	
29	78.59	294.40	47.27	20.74	28.55	4372.59	2075.83	101.90	219.88	328.87		209.79	
30	78.59	292.48	46.67	20.74	28.55	6633.66	1840.41	108.13	261.89	330.79		208.22	
31		244.69		20.74	28.55		1824.75		334.62	336.54		208.22	
Total	4013.73	4302.88	5095.17	1578.78	2129.43	14440.82	103883.44	26686.98	6210.53	8310.83	7983.25	8594.26	193230.10 Tonday
Mean	133.79	138.80	169.84	50.93	68.69	481.36	3351.08	889.57	200.34	268.09	285.12	277.23	529.40 Ton/day
Max	194.10	302.05	258.06	290.57	153.38	6633.66	6847.13	2559.39	334.62	348.04	363.38	355.71	6847.13 Ton/day
Min	69.29	23.14	46.67	16.54	18.94	11.77	570.64	101.90	106.57	217.98	147.13	181.56	11.77 Ton/day

## WATER YEAR : 2021

## PASAK RIVER BASIN

## Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

Lat 17 - 00 - 15 N Long 101 - 21 - 11 E

Location : on left bank at Ban Tha Hai Yong

	<b>Ban</b>	<b>Tha Hai Yong</b>	<b>Amphoe</b>	<b>Lom Kao</b>	<b>Changwat</b>	<b>Phetchabun</b>
<b>Drainage Area</b>	515	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2001-Cont'd					
<b>Actual Measurement</b>	2001-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	18					
<b>R-Square</b>	0.2442					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 72.3298 QW^{0.95240}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	76.46	153.26	80.57	106.42	153.26	531.59	779.70	554.02	179.70	126.60	97.62	94.90	
2	76.46	91.50	79.20	89.46	129.95	486.60	739.27	384.57	176.40	126.60	98.97	93.54	
3	76.46	153.26	82.63	86.73	123.25	492.24	659.94	331.15	173.11	126.60	99.65	93.54	
4	78.52	90.82	79.20	82.63	486.60	537.20	581.98	315.81	173.11	123.25	129.95	93.54	
5	80.57	98.97	78.52	81.26	186.27	2178.68	503.50	300.43	169.81	119.89	106.42	93.54	
6	79.20	87.41	78.52	79.20	156.58	862.68	469.68	286.94	166.51	119.89	103.04	92.86	
7	311.97	82.63	176.40	86.73	133.29	937.98	531.59	280.51	166.51	119.89	99.65	93.54	
8	103.04	87.41	514.74	361.72	123.25	762.56	447.06	270.84	166.51	116.53	98.97	153.26	
9	86.73	267.62	238.50	222.25	106.42	10084.13	615.45	264.39	163.20	116.53	98.97	103.04	
10	84.68	92.86	267.62	182.99	97.62	7253.76	643.27	261.16	163.20	113.17	97.62	96.94	
11	83.31	81.26	248.22	103.04	97.62	2731.51	970.08	254.70	159.89	109.80	97.62	94.90	
12	84.68	82.63	169.81	92.86	96.94	2598.05	1280.62	251.46	159.89	106.42	99.65	94.90	
13	83.31	80.57	123.25	149.94	98.97	988.82	1455.48	248.22	153.26	106.42	98.97	93.54	
14	84.68	79.20	626.59	293.37	173.11	1572.64	756.44	241.74	153.26	103.04	98.97	93.54	
15	83.31	79.20	342.63	189.56	116.53	937.98	587.57	238.50	149.94	99.65	99.65	93.54	
16	84.68	78.52	196.12	514.74	395.97	906.44	1476.81	235.25	149.94	103.04	113.17	93.54	
17	88.78	79.20	350.27	169.81	163.20	1970.73	1109.36	232.01	146.62	99.65	163.20	119.89	
18	98.97	84.68	192.84	156.58	126.60	1090.12	750.92	228.75	146.62	99.65	119.89	98.97	
19	153.26	86.73	139.96	133.29	119.89	1928.66	609.88	225.50	143.30	99.65	109.80	95.58	
20	153.26	146.62	103.04	350.27	133.29	1886.55	537.20	222.25	139.96	98.97	153.26	94.90	
21	87.41	89.46	95.58	192.84	182.99	1163.99	486.60	215.73	143.30	99.65	143.30	93.54	
22	88.78	84.68	91.50	218.99	106.42	1362.83	1026.87	209.20	139.96	109.80	116.53	96.94	
23	84.68	81.26	88.78	1090.12	96.94	1551.37	559.61	205.93	139.96	139.96	99.65	103.04	
24	85.36	81.26	86.73	1466.15	94.90	1434.12	475.32	199.39	136.63	113.17	98.97	97.62	
25	82.63	109.80	84.68	1077.49	143.30	3235.47	435.74	196.12	136.63	106.42	96.94	97.62	
26	83.31	94.90	83.31	1774.01	225.50	1914.63	407.35	196.12	133.29	99.65	96.94	94.90	
27	163.20	82.63	96.94	497.87	290.16	1498.13	395.97	192.84	133.29	99.65	95.58	93.54	
28	84.68	81.26	90.82	319.65	182.99	1127.99	395.97	189.56	133.29	98.97	95.58	91.50	
29	83.31	94.90	87.41	238.50	176.40	912.51	395.97	186.27	133.29	98.97		113.17	
30	88.78	86.73	182.99	199.39	1195.14	768.07	369.35	186.27	129.95	97.62		334.98	
31		81.26		166.51	919.18		338.81		129.95	96.94		143.30	
Total	2984.47	3052.49	5157.37	10774.37	6832.53	55708.03	20793.36	7605.63	4690.28	3396.04	3028.53	3342.15	127365.25 Ton/day
Mean	99.48	98.47	171.91	347.56	220.40	1856.93	670.75	253.52	151.30	109.55	108.16	107.81	348.95 Ton/day
Max	311.97	267.62	626.59	1774.01	1195.14	10084.13	1476.81	554.02	179.70	139.96	163.20	334.98	10084.13 Ton/day
Min	76.46	78.52	78.52	79.20	94.90	486.60	338.81	186.27	129.95	96.94	95.58	91.50	76.46 Ton/day

## WATER YEAR : 2021

## PASAK RIVER BASIN

Pasak River at Ban Bo Rang , Phetchabun (S.42)

Lat 15 - 34 - 42 N Long 101 - 05 - 19 E

Location : on left bank at the bridge.

	<b>Ban</b>	Bo Rang	<b>Amphoe</b>	Wichian Buri	<b>Changwat</b>	Phetchabun
<b>Drainage Area</b>	7,400	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2005-Cont'd					
<b>Actual Measurement</b>	2005-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	8					
<b>R-Square</b>	0.9263					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 12.5030 QW^{0.86340}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	434.79	666.52	1761.46	1598.78	43.61	0.00	0.00	0.00	
2	0.00	71.37	0.00	0.00	347.04	828.20	1719.98	1583.23	36.88	0.00	0.00	0.00	
3	0.00	50.18	0.00	0.00	217.27	893.96	1692.30	1557.10	28.53	0.00	0.00	0.00	
4	0.00	35.51	0.00	0.00	134.76	949.07	1669.19	1510.50	22.16	0.00	0.00	0.00	
5	0.00	32.75	0.00	0.00	94.75	1015.32	1646.02	1402.99	19.77	0.00	0.00	0.00	
6	0.00	44.93	0.00	0.00	68.58	1050.11	1625.90	1248.91	17.95	0.00	0.00	0.00	
7	0.00	43.61	0.00	0.00	56.61	1040.47	1602.63	1096.23	16.72	0.00	0.00	0.00	
8	0.00	35.51	0.00	0.00	52.77	990.07	1579.32	952.99	16.10	0.00	0.00	0.00	
9	0.00	25.66	0.00	0.00	55.33	947.11	1553.78	788.28	14.84	0.00	0.00	0.00	
10	0.00	20.97	0.00	0.00	54.05	949.07	1527.17	636.49	14.21	0.00	0.00	0.00	
11	0.00	19.17	0.00	0.00	35.51	1044.33	1494.10	552.69	13.58	0.00	0.00	0.00	
12	0.00	19.17	0.00	0.00	20.97	1243.08	1436.18	465.66	12.93	0.00	0.00	0.00	
13	0.00	16.72	0.00	0.00	16.72	1410.66	1319.41	378.47	10.98	0.00	0.00	0.00	
14	0.00	14.84	0.00	0.00	14.21	1475.85	1168.62	299.55	9.42	0.00	0.00	0.00	
15	0.00	12.93	0.00	0.00	13.58	1436.18	1084.73	261.93	8.96	0.00	0.00	0.00	
16	0.00	11.63	0.00	0.00	11.63	1392.76	1157.24	223.44	8.50	0.00	0.00	0.00	
17	0.00	10.31	0.00	0.00	9.42	1378.30	1337.58	188.93	8.04	0.00	0.00	0.00	
18	0.00	9.42	0.00	0.00	100.36	1364.75	1571.53	162.64	7.11	0.00	0.00	0.00	
19	0.00	7.58	0.00	0.00	103.15	1335.31	1641.38	151.35	6.15	0.00	0.00	0.00	
20	0.00	7.11	0.00	0.00	68.58	1301.21	1594.87	132.98	5.67	0.00	0.00	0.00	
21	0.00	5.67	0.00	0.00	60.42	1279.86	1543.81	122.44	4.67	0.00	0.00	0.00	
22	0.00	3.12	0.00	0.00	98.96	1348.91	1494.10	111.75	3.65	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	74.15	1513.83	1460.61	94.75	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	43.61	1629.80	1436.18	76.91	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	27.10	1733.79	1431.08	71.37	0.00	0.00	0.00	8.50	
26	0.00	0.00	0.00	0.00	19.77	2293.96	1436.18	69.98	0.00	0.00	0.00	14.21	
27	0.00	0.00	0.00	0.00	17.95	2184.69	1448.40	62.93	0.00	0.00	0.00	16.72	
28	0.00	0.00	0.00	0.00	25.66	1994.82	1457.56	54.05	0.00	0.00	0.00	19.17	
29	0.00	0.00	0.00	0.00	118.89	1877.81	1460.61	44.93	0.00	0.00	0.00	16.10	
30	0.00	0.00	0.00	0.00	217.27	1811.09	1527.17	43.61	0.00	0.00	0.00	35.51	
31		0.00		370.66	432.82		1587.10		0.00	0.00		54.05	
Total	0.00	498.16	0.00	370.66	3046.68	40380.89	46466.19	15945.86	330.43	0.00	0.00	164.26	107203.13 Tonday
Mean	0.00	16.07	0.00	11.96	98.28	1346.03	1498.91	531.53	10.66	0.00	0.00	5.30	293.71 Ton/day
Max	0.00	71.37	0.00	370.66	434.79	2293.96	1761.46	1598.78	43.61	0.00	0.00	54.05	2293.96 Ton/day
Min	0.00	0.00	0.00	0.00	9.42	666.52	1084.73	43.61	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## PASAK RIVER BASIN

## Pasak River at Ban Phun Sap , Lop Buri (S.43)

Lat 15 - 19 - 39 N Long 101 - 12 - 45 E

Location : on right bank at the bridge.

	<b>Ban</b>	Phun Sap	<b>Amphoe</b>	Chai Badan	<b>Changwat</b>	Lop Buri
<b>Drainage Area</b>	9,359	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2011-Cont'd					
<b>Actual Measurement</b>	2011-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	26					
<b>R-Square</b>	0.8980					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 37.4350 QW^{0.78230}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	975.94	975.94	975.94	965.29	584.15	670.76	6864.89	4069.57	1891.91	1612.88	1292.60	940.30		
2	975.94	975.94	975.94	943.88	623.06	860.53	6393.31	4199.26	1887.58	1599.92	1277.71	929.54		
3	975.94	975.94	975.94	915.13	571.02	1176.58	6019.81	4199.26	1883.25	1582.59	1262.77	915.13		
4	975.94	975.94	975.94	878.83	486.91	1288.88	5687.86	4115.09	1874.58	1573.90	1247.79	900.66		
5	975.94	975.94	975.94	842.11	415.71	1325.92	5346.88	4004.29	1870.25	1566.03	1228.99	886.12		
6	975.94	975.94	975.94	808.68	244.32	1458.69	4996.13	3800.80	1865.91	1558.15	1221.44	871.52		
7	975.94	975.94	975.94	778.63	244.32	1634.42	4674.81	3435.38	1861.56	1546.31	1217.67	856.85		
8	975.94	975.94	975.94	748.26	244.32	1732.52	4404.50	2997.20	1857.22	1538.41	1206.32	860.53		
9	975.94	975.94	975.94	717.54	244.32	1673.00	4147.52	2620.75	1852.87	1526.52	1198.73	849.49		
10	975.94	975.94	975.94	686.45	244.32	1546.31	3918.98	2348.64	1848.52	1514.61	1187.33	842.11		
11	975.94	975.94	975.94	661.30	244.32	1569.97	3730.67	2161.96	1839.80	1502.68	1172.98	831.01		
12	975.94	975.94	975.94	648.62	244.32	1643.02	3577.45	2061.09	1835.44	1486.72	1158.59	823.58		
13	975.94	975.94	975.94	632.68	244.32	1887.58	3484.74	1986.42	1826.71	1474.73	1147.76	814.65		
14	975.94	975.94	975.94	616.62	244.32	2179.37	3336.05	1982.15	1817.97	1462.70	1129.64	805.69		
15	975.94	975.94	975.94	610.16	244.32	2431.54	3214.89	1973.60	1809.22	1454.67	1118.73	793.69		
16	975.94	975.94	975.94	606.93	244.32	2562.39	3291.65	1969.33	1800.45	1446.63	1104.14	784.67		
17	975.94	975.94	975.94	603.69	244.32	2630.45	4043.49	1960.77	1791.68	1434.54	1093.16	775.61		
18	975.94	975.94	975.94	600.45	244.32	2630.45	4702.91	1952.20	1778.89	1418.37	1078.48	778.63		
19	975.94	975.94	975.94	597.20	244.32	2577.02	4878.71	1947.91	1770.48	1402.16	1071.12	787.68		
20	975.94	975.94	975.94	593.94	244.32	2528.18	4786.93	1947.91	1762.07	1394.03	1060.04	766.52		
21	975.94	975.94	975.94	590.68	244.32	2459.36	4695.89	1943.62	1749.42	1398.10	1034.08	754.36		
22	975.94	975.94	975.94	587.42	244.32	2567.27	4569.00	1939.32	1736.75	1398.10	1022.90	736.02		
23	975.94	975.94	975.94	584.15	244.32	3045.35	4469.64	1935.03	1724.05	1394.03	1011.69	723.72		
24	975.94	975.94	975.94	580.87	244.32	3385.82	4276.55	1930.73	1711.33	1385.89	1000.67	714.45		
25	975.94	975.94	975.94	577.59	244.32	4095.60	3945.28	1926.42	1702.83	1373.66	990.09	708.26		
26	975.94	975.94	975.94	574.31	244.32	5825.18	3671.95	1917.81	1694.32	1366.34	975.94	692.70		
27	975.94	975.94	975.94	571.02	244.32	10010.64	3529.94	1913.50	1681.54	1359.02	958.17	677.05		
28	975.94	975.94	975.94	571.02	244.32	9634.70	3457.34	1909.19	1668.72	1348.01	951.03	661.30		
29	975.94	975.94	975.94	571.02	244.32	8409.44	3451.85	1904.87	1660.17	1336.98		651.80		
30	975.94	975.94	975.94	567.72	277.09	7518.45	3789.14	1900.55	1647.31	1322.23		1030.36		
31		975.94		567.72	442.45		3925.56		1630.12	1311.14		805.69		
Total	29278.20	30254.14	29278.20	20799.91	9264.07	92959.39	135284.32	74954.62	55332.92	45090.05	31420.56	24969.69	578886.07	Ton/day
Mean	975.94	975.94	975.94	670.96	298.84	3098.65	4364.01	2498.49	1784.93	1454.52	1122.16	805.47	1585.99	Ton/day
Max	975.94	975.94	975.94	965.29	623.06	10010.64	6864.89	4199.26	1891.91	1612.88	1292.60	1030.36	10010.64	Ton/day
Min	975.94	975.94	975.94	567.72	244.32	670.76	3214.89	1900.55	1630.12	1311.14	951.03	651.80	244.32	Ton/day

## WATER YEAR : 2021

## THA CHIN BASIN

## Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)

Lat 15 - 00 - 52 N Long 99 - 36 - 59 E

Location : on left bank at Ban Thap Man.

	<b>Ban</b> Thap Man	<b>Amphoe</b> Dan Chang	<b>Changwat</b> Suphan Buri
<b>Drainage Area</b>	640 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2003-Cont'd		
<b>Actual Measurement</b>	2003-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.9330		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.0543 QW^{1.66980}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	354.99	26.38	0.57	18.86	1358.99	975.79	1232.51	60.91	18.86	6.38	27.54	
2	0.15	132.75	20.90	0.37	18.86	1316.28	1358.99	795.64	60.91	18.86	7.04	26.38	
3	0.05	63.45	15.02	0.29	15.95	5926.57	2669.86	780.93	53.54	16.89	5.14	24.13	
4	0.15	35.80	11.55	0.47	15.02	1358.99	1032.90	527.73	48.84	15.02	4.56	23.03	
5	0.68	26.38	8.45	0.88	15.02	855.59	639.93	418.90	44.31	15.02	5.75	19.87	
6	0.68	20.90	5.75	2.46	15.02	507.20	1380.55	346.20	44.31	13.24	7.04	18.86	
7	2.15	18.86	5.14	0.57	14.12	517.42	6210.89	287.23	46.55	11.55	7.04	19.87	
8	0.88	15.02	4.01	1.86	12.38	311.96	1358.99	447.58	42.12	11.55	7.04	25.24	
9	0.21	76.76	4.01	55.95	9.18	381.86	694.98	400.21	39.97	12.38	6.38	44.31	
10	0.09	28.71	3.13	46.55	7.73	1617.17	639.93	287.23	35.80	11.55	5.75	26.38	
11	0.05	19.87	2.46	1191.46	6.38	2741.20	428.38	247.85	28.71	9.18	6.38	23.03	
12	0.09	12.38	2.15	271.20	6.38	920.00	477.02	229.24	33.79	9.95	55.95	19.87	
13	0.09	9.95	2.46	694.98	11.55	447.58	795.64	207.83	31.83	9.18	60.91	18.86	
14	1.86	11.55	2.46	129.33	12.38	263.32	653.52	192.33	29.91	8.45	76.76	15.95	
15	0.37	9.18	2.46	112.74	10.73	437.94	2529.46	177.32	29.91	8.45	1806.59	15.95	
16	0.37	6.38	2.79	409.51	8.45	303.63	3012.12	162.79	29.91	8.45	437.94	14.12	
17	0.37	5.14	3.48	1490.37	7.73	447.58	19200.75	158.07	28.71	9.95	139.71	12.38	
18	0.47	4.56	3.13	1253.25	7.04	182.27	21717.74	148.78	27.54	8.45	187.27	17.86	
19	15.95	4.56	2.79	247.85	11.55	192.33	10341.02	136.22	25.24	7.73	346.20	63.45	
20	55.95	4.56	3.13	129.33	53.54	4525.81	4372.12	125.94	25.24	7.73	122.58	35.80	
21	24.13	5.14	3.48	88.14	14.12	1643.72	2426.16	119.27	23.03	9.18	85.24	37.86	
22	14.12	6.38	2.46	60.91	12.38	7947.51	1697.32	112.74	23.03	11.55	55.95	28.71	
23	9.95	5.14	1.59	55.95	20.90	24150.23	1316.28	109.53	23.03	13.24	53.54	53.54	
24	6.38	3.48	1.09	42.12	26.38	11814.09	994.68	103.23	20.90	11.55	48.84	103.23	
25	3.48	5.14	1.09	39.97	24.13	14725.41	723.18	103.23	20.90	9.95	44.31	153.39	
26	3.13	9.18	0.88	37.86	144.22	12280.10	569.77	97.08	20.90	9.18	39.97	68.65	
27	53.54	10.73	0.88	33.79	2358.25	10546.63	477.02	94.06	21.96	8.45	31.83	37.86	
28	437.94	55.95	0.68	27.54	1071.68	3972.77	428.38	88.14	20.90	8.45	29.91	33.79	
29	139.71	66.03	0.68	24.13	372.81	2358.25	723.18	74.02	19.87	7.04		51.17	
30	497.06	103.23	0.88	23.03	182.27	1424.07	517.42	63.45	18.86	7.04		497.06	
31		44.31		20.90	5539.52		639.93		18.86	6.38		122.58	
Total	1270.20	1176.46	145.36	6494.33	10044.53	115476.47	91003.90	8275.28	1000.29	334.45	3692.00	1680.72	240593.99 Tonday
Mean	42.34	37.95	4.85	209.49	324.02	3849.22	2935.61	275.84	32.27	10.79	131.86	54.22	659.16 Ton/day
Max	497.06	354.99	26.38	1490.37	5539.52	24150.23	21717.74	1232.51	60.91	18.86	1806.59	497.06	24150.23 Ton/day
Min	0.05	3.48	0.68	0.29	6.38	182.27	428.38	63.45	18.86	6.38	4.56	12.38	0.05 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)

Lat 14 - 10 - 32 N Long 99 - 26 - 03 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	<b>Ban</b>	Thung Na Nang Rok	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Kanchanaburi
<b>Drainage Area</b>	2,293	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	35					
<b>R-Square</b>	0.9797					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.9505 QW^{1.41680}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	131.69	48.37	40.93	26.03	66.35	2433.74	730.40	111.72	28.45	12.05	32.18	
2	0.00	223.38	44.61	22.54	24.85	74.86	1343.14	814.68	126.61	26.03	10.20	32.18	
3	0.00	286.17	40.93	26.03	22.54	124.09	980.00	864.04	126.61	24.85	10.20	33.45	
4	0.00	191.26	36.04	17.06	21.41	217.43	833.09	845.43	102.11	20.29	10.20	34.74	
5	0.00	129.14	32.18	11.11	21.41	343.95	920.58	864.04	74.86	22.54	10.20	33.45	
6	0.00	99.74	28.45	34.74	22.54	369.65	1821.77	1000.83	72.71	22.54	8.44	33.45	
7	0.00	106.88	26.03	29.67	22.54	211.53	2689.19	748.23	68.45	19.19	8.44	33.45	
8	0.00	202.77	24.85	24.85	20.29	131.69	2689.19	601.60	66.35	21.41	10.20	37.36	
9	0.00	274.20	24.85	14.99	18.12	147.28	2409.66	575.79	62.21	24.85	11.11	39.13	
10	4.51	535.20	26.03	16.01	16.01	226.37	1617.71	456.71	56.16	22.54	11.11	37.36	
11	20.29	1223.31	27.23	27.23	13.99	282.16	1049.91	404.92	54.18	22.54	13.01	36.04	
12	14.99	952.44	28.45	29.67	14.99	365.33	839.26	339.72	54.18	20.29	34.74	32.18	
13	12.05	520.21	28.45	42.76	10.20	391.47	790.33	335.50	50.28	20.29	28.45	30.92	
14	12.05	226.37	27.23	46.48	8.44	266.30	796.40	274.20	50.28	19.19	32.18	28.45	
15	13.01	142.03	27.23	50.28	7.60	177.16	839.26	254.59	48.37	19.19	29.67	28.45	
16	37.36	102.11	28.45	66.35	7.60	157.96	778.23	232.39	46.48	17.06	26.03	28.45	
17	46.48	92.75	28.45	60.17	5.24	174.38	1078.26	217.43	42.76	16.01	23.69	28.45	
18	33.45	99.74	29.67	74.86	3.82	211.53	2509.43	199.88	39.13	17.06	27.23	36.04	
19	22.54	97.40	28.45	66.35	3.82	220.40	8410.51	177.16	36.04	17.06	24.85	50.28	
20	13.99	88.17	27.23	58.16	2.54	278.17	15551.31	166.11	36.04	17.06	48.37	52.22	
21	10.20	77.04	27.23	58.16	1.43	560.47	9610.68	155.27	34.74	16.01	50.28	62.21	
22	13.01	62.21	26.03	56.16	2.54	772.20	5154.71	139.42	33.45	14.99	44.61	62.21	
23	24.85	52.22	27.23	54.18	1.96	1884.36	2964.76	142.03	32.18	17.06	37.36	62.21	
24	19.19	46.48	27.23	50.28	1.96	3256.29	2172.81	139.42	32.18	17.06	33.45	58.16	
25	20.29	40.93	26.03	48.37	0.95	3371.81	3061.04	129.14	30.92	17.06	32.18	68.45	
26	14.99	37.36	26.03	48.37	1.43	3012.79	2885.22	119.10	29.67	16.01	30.92	85.91	
27	17.06	33.45	26.03	44.61	5.24	2661.30	1597.70	109.29	29.67	13.99	30.92	72.71	
28	12.05	52.22	26.03	37.36	9.31	3190.82	1114.02	104.49	29.67	13.99	30.92	60.17	
29	16.01	56.16	22.54	40.93	40.93	3505.28	907.93	102.11	27.23	13.99		54.18	
30	155.27	70.57	22.54	33.45	64.27	3371.81	766.19	95.06	30.92	13.01		58.16	
31		64.27		27.23	66.35		748.23		28.45	13.01		74.86	
<b>Total</b>	533.64	6317.87	870.10	1259.34	490.35	30025.19	81364.26	11338.98	1664.61	584.62	681.01	1417.46	136547.43 Tonday
<b>Mean</b>	17.79	203.80	29.00	40.62	15.82	1000.84	2624.65	377.97	53.70	18.86	24.32	45.72	374.10 Ton/day
<b>Max</b>	155.27	1223.31	48.37	74.86	66.35	3505.28	15551.31	1000.83	126.61	28.45	50.28	85.91	15551.31 Ton/day
<b>Min</b>	0.00	33.45	22.54	11.11	0.95	66.35	748.23	95.06	27.23	13.01	8.44	28.45	0.00 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

Lat 13 - 32 - 47 N Long 99 - 21 - 12 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	<b>Ban Bo</b>	<b>Amphoe</b>	<b>Suan Phung</b>	<b>Changwat</b>	<b>Ratchaburi</b>
<b>Drainage Area</b>	1,343 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1999-Cont'd				
<b>Actual Measurement</b>	1999-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	33				
<b>R-Square</b>	0.9083				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.4714 QW^{1.98310}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.64	41.90	12.59	1.29	36.55	97.74	228.41	287.05	87.86	9.55	2.07	2.46	
2	0.91	41.90	17.91	1.15	25.36	228.41	167.02	295.19	78.63	9.55	2.07	2.25	
3	2.46	56.37	16.96	1.29	21.23	346.38	177.48	337.56	69.80	9.55	2.68	2.07	
4	2.25	43.83	19.89	1.29	22.54	182.82	265.90	253.09	64.23	8.19	2.68	2.07	
5	3.38	25.36	12.59	1.29	25.36	107.99	177.48	210.73	47.71	6.94	3.14	1.90	
6	3.14	18.89	6.94	1.43	31.48	94.34	931.76	199.33	43.83	5.78	3.89	2.07	
7	8.86	38.27	5.24	1.58	28.34	75.59	984.39	240.60	38.27	5.24	3.14	2.07	
8	8.86	36.55	4.16	1.58	22.54	142.26	966.69	204.99	36.55	4.73	2.90	3.63	
9	11.02	58.90	4.44	1.58	16.96	234.47	766.70	5142.79	33.16	4.73	2.46	6.94	
10	13.41	97.74	6.35	1.58	13.41	142.26	666.09	5928.80	31.48	4.44	2.07	7.55	
11	8.86	123.88	9.55	4.16	10.27	104.56	423.65	2168.14	29.93	4.16	2.07	3.38	
12	5.78	104.56	10.27	16.96	8.19	107.99	295.19	1176.47	26.86	3.89	5.24	2.46	
13	4.16	84.77	11.02	14.26	6.94	87.86	295.19	520.92	26.86	5.78	4.16	2.07	
14	4.73	161.91	6.94	9.55	6.35	75.59	204.99	393.44	25.36	4.16	5.24	1.90	
15	7.55	58.90	6.94	8.19	7.55	58.90	156.88	355.30	22.54	3.63	6.94	1.74	
16	12.59	45.70	10.27	29.93	6.94	47.71	132.91	287.05	19.89	3.63	11.02	1.58	
17	29.93	84.77	16.03	21.23	13.41	47.71	216.54	498.55	16.96	3.38	8.19	3.38	
18	18.89	49.66	13.41	13.41	11.02	36.55	487.39	337.56	16.96	3.14	34.79	2.68	
19	18.89	40.11	25.36	12.59	8.19	111.61	476.37	346.38	16.03	2.90	132.91	4.16	
20	12.59	56.37	16.03	29.93	6.35	487.39	328.86	259.46	14.26	2.90	38.27	5.24	
21	33.16	43.83	8.19	49.66	5.78	2768.37	234.47	210.73	14.26	3.89	16.96	4.44	
22	56.37	47.71	4.44	43.83	17.91	2654.94	295.19	177.48	12.59	7.55	10.27	4.44	
23	51.76	22.54	3.14	34.79	22.54	1217.47	5268.36	167.02	11.79	4.44	7.55	5.78	
24	28.34	16.03	3.38	33.16	12.59	782.49	4077.76	240.60	11.79	3.63	5.78	45.70	
25	15.13	13.41	2.90	34.79	9.55	567.46	2440.33	216.54	11.02	3.38	4.44	26.86	
26	12.59	12.59	2.46	56.37	6.35	498.55	1432.91	177.48	11.02	2.90	3.63	41.90	
27	15.13	12.59	2.25	64.23	8.19	691.89	880.57	147.06	11.79	2.68	3.14	28.34	
28	75.59	17.91	2.07	97.74	5.78	465.75	615.63	111.61	11.02	2.46	2.68	25.36	
29	51.76	16.03	1.74	111.61	6.94	328.86	476.37	97.74	11.02	2.68		26.86	
30	40.11	14.26	1.58	75.59	7.55	272.43	364.34	87.86	11.02	2.07		23.96	
31		10.27		49.66	53.79		374.00		10.27	2.07		15.13	
Total	558.84	1497.51	265.04	825.70	485.95	13066.34	24809.82	21077.52	874.76	144.02	330.38	310.37	64246.25 Tonday
Mean	18.63	48.31	8.83	26.64	15.68	435.54	800.32	702.58	28.22	4.65	11.80	10.01	176.02 Ton/day
Max	75.59	161.91	25.36	111.61	53.79	2768.37	5268.36	5928.80	87.86	9.55	132.91	45.70	5928.80 Ton/day
Min	0.64	10.27	1.58	1.15	5.78	36.55	132.91	87.86	10.27	2.07	2.07	1.58	0.64 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Huai Tha Khoei at Ban Kha , Ratchaburi (K.25A)

Lat 13 - 24 - 11 N Long 99 - 25 - 01 E

Location : on right bank about 8 kilometers upstream from station K.25

	<b>Ban Kha</b>	<b>Amphoe Ban Kha</b>	<b>Changwat Ratchaburi</b>
<b>Drainage Area</b>	375 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1994-Cont'd		
<b>Actual Measurement</b>	1994-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9517		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.7770 QW^{1.74940}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.07	20.33	21.71	2.78	6.53	37.68	208.94	128.19	41.31	4.28	2.78	4.28	
2	5.58	12.20	13.99	2.78	6.53	45.41	229.77	138.65	37.68	4.28	2.78	4.28	
3	1.96	54.45	18.98	2.78	6.05	35.92	229.77	172.11	37.68	3.88	2.78	3.88	
4	1.72	16.40	17.67	3.13	6.05	20.33	138.65	133.25	27.65	3.88	2.78	3.88	
5	1.72	10.94	10.34	2.78	6.53	24.60	82.72	122.97	13.99	3.88	3.13	3.88	
6	1.96	12.84	7.54	2.78	6.53	18.98	365.41	143.88	12.20	3.88	3.13	3.88	
7	1.96	16.40	6.53	3.13	6.05	21.71	183.95	149.46	10.94	3.49	2.78	3.88	
8	2.22	15.18	6.05	3.13	5.13	82.72	149.46	85.66	10.34	3.13	2.78	4.69	
9	1.96	16.40	6.53	3.13	4.69	113.04	133.25	8528.90	9.75	3.13	2.78	4.28	
10	2.49	34.19	7.54	4.28	4.28	69.30	98.94	3245.59	9.75	3.13	2.78	3.88	
11	2.22	27.65	7.03	7.54	5.13	59.23	82.72	1066.98	9.75	3.13	2.49	3.88	
12	1.72	20.33	6.53	7.03	5.58	54.45	98.94	548.87	9.17	2.78	2.78	3.49	
13	1.72	15.18	5.58	5.58	5.13	52.04	80.04	177.84	8.61	3.13	2.78	3.49	
14	4.69	215.79	4.28	5.58	5.13	52.04	59.23	177.84	8.61	2.78	2.78	3.49	
15	6.05	41.31	4.69	7.03	5.13	43.19	49.84	183.95	8.07	2.78	3.49	3.13	
16	3.13	26.11	7.03	9.75	5.13	41.31	52.04	166.18	7.54	2.49	4.69	5.13	
17	3.49	29.23	6.05	8.07	6.05	35.92	103.48	183.95	7.03	2.49	4.28	3.13	
18	3.13	27.65	7.54	7.54	9.17	41.31	143.88	172.11	7.03	2.49	39.48	2.78	
19	3.88	37.68	29.23	7.54	7.54	94.28	113.04	177.84	6.53	2.49	37.68	4.28	
20	7.03	56.73	8.61	8.07	6.05	258.86	80.04	122.97	6.05	2.78	10.34	3.88	
21	10.34	32.50	6.53	9.75	4.69	1381.70	66.62	98.94	6.05	4.28	8.07	5.13	
22	17.67	30.84	5.13	9.75	4.69	824.14	289.42	82.72	6.05	3.13	7.03	9.75	
23	21.71	26.11	4.69	8.61	4.69	548.87	1187.91	85.66	6.05	2.78	6.53	39.48	
24	8.07	24.60	4.69	8.61	4.69	464.85	561.56	118.08	5.58	2.78	6.05	34.19	
25	6.53	20.33	4.69	9.17	4.28	419.25	430.57	108.33	5.58	2.49	5.13	27.65	
26	5.58	21.71	4.28	8.61	4.28	512.00	365.41	91.44	5.58	2.22	5.13	13.99	
27	4.69	23.14	4.28	8.61	4.28	476.24	297.29	74.59	5.58	2.22	4.69	13.99	
28	9.17	30.84	3.88	8.61	4.28	375.68	258.86	56.73	5.13	2.22	4.28	12.84	
29	7.54	23.14	3.88	9.17	5.58	289.42	229.77	52.04	4.69	2.22		12.20	
30	6.05	21.71	3.13	8.07	7.54	266.36	172.11	47.52	4.69	1.96		11.56	
31		20.33		7.03	13.99		149.46		4.69	1.96		8.61	
Total	157.05	982.24	248.63	200.42	181.40	6760.83	6693.09	16643.24	349.35	92.56	186.20	266.88	32761.89 Tonday
Mean	5.24	31.69	8.29	6.47	5.85	225.36	215.91	554.77	11.27	2.99	6.65	8.61	89.76 Ton/day
Max	21.71	215.79	29.23	9.75	13.99	1381.70	1187.91	8528.90	41.31	4.28	39.48	39.48	8528.90 Ton/day
Min	1.07	10.94	3.13	2.78	4.28	18.98	49.84	47.52	4.69	1.96	2.49	2.78	1.07 Ton/day

**WATER YEAR : 2021****MAE KLONG RIVER BASIN****Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)**

Lat 14 - 26 - 03 N Long 98 - 48 - 33 E

**Location : on right bank about 2 kilometers downstream from station K.22A**

	<b>Ban</b> Nam Chon	<b>Amphoe</b> Sai Yok	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	780 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.9346		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.7348 QW^{1.60320}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	22.71	5.08	11.30	1192.12	326.21	180.77	118.33	29.37	13.34	7.36	5.81	
2	1.44	14.77	5.08	11.97	1162.60	509.98	188.30	112.02	27.97	13.34	6.97	5.81	
3	1.56	12.65	4.07	11.30	1348.20	633.56	166.04	108.91	27.97	14.77	6.97	5.81	
4	1.80	14.05	4.74	9.39	1760.09	543.53	148.31	94.39	26.64	15.51	6.57	5.45	
5	3.13	17.79	4.39	9.39	1685.64	445.33	144.85	87.25	26.64	15.51	6.57	5.45	
6	3.44	17.02	4.07	8.19	3493.35	319.23	192.12	82.60	25.29	15.51	7.79	6.97	
7	5.08	9.39	4.07	7.79	2394.36	255.85	199.83	78.06	24.01	14.77	7.36	8.78	
8	16.26	6.97	4.74	8.19	1221.91	234.88	173.35	87.25	24.01	11.30	7.36	8.78	
9	7.79	10.01	6.97	10.65	779.57	224.64	141.43	78.06	22.71	11.30	6.57	6.97	
10	4.39	9.39	10.65	13.34	577.88	199.83	134.67	69.26	21.02	11.30	6.57	7.36	
11	6.19	6.19	65.01	26.64	445.33	209.62	112.02	67.12	19.38	11.30	6.19	6.97	
12	5.08	5.08	80.32	25.29	347.48	224.64	105.84	60.86	17.79	10.65	6.19	6.19	
13	3.44	4.07	33.64	33.64	283.00	177.04	177.04	58.82	20.20	10.65	6.19	6.19	
14	7.36	4.07	47.79	19.38	255.85	158.86	124.77	58.82	22.71	10.01	6.19	5.45	
15	11.30	3.44	347.48	17.79	224.64	151.80	283.00	52.88	22.71	9.39	6.19	5.45	
16	5.45	3.44	406.62	17.02	250.54	255.85	326.21	52.88	21.86	8.78	6.19	5.08	
17	4.74	3.74	188.30	16.26	199.83	180.77	1893.56	47.79	21.86	8.78	6.97	5.08	
18	5.45	3.74	141.43	30.76	169.68	180.77	856.77	47.79	21.02	8.78	9.39	5.81	
19	4.39	5.45	65.01	717.35	155.31	453.23	453.23	46.10	21.02	8.78	11.97	6.57	
20	3.74	4.74	41.28	2488.71	131.34	272.01	299.78	44.49	20.20	8.78	10.65	7.36	
21	2.85	4.39	27.97	1331.32	169.68	754.45	234.88	42.85	20.20	8.19	21.86	10.01	
22	2.56	3.74	21.86	1206.98	144.85	1382.41	204.70	42.85	19.38	8.19	10.65	11.97	
23	2.30	5.08	18.58	1779.06	121.54	950.26	856.77	41.28	19.38	8.19	8.78	10.65	
24	2.30	4.39	17.79	1575.93	121.54	535.07	509.98	39.69	18.58	8.19	6.97	14.05	
25	2.56	4.39	16.26	2706.03	112.02	376.61	326.21	38.16	18.58	8.19	6.19	10.65	
26	2.04	4.39	14.77	2854.77	121.54	414.25	250.54	36.61	18.58	8.19	6.19	7.36	
27	3.44	4.39	12.65	3268.27	115.16	406.62	199.83	33.64	18.58	7.79	6.19	6.57	
28	5.81	6.19	11.30	7991.06	99.79	319.23	173.35	33.64	17.79	7.79	6.19	6.19	
29	11.97	7.79	11.30	4835.49	96.82	245.28	155.31	30.76	17.79	7.79		5.81	
30	47.79	7.79	10.65	2632.92	99.79	204.70	141.43	30.76	14.77	7.36		5.81	
31		6.57		2010.95	219.59		131.34		14.05	7.36		5.08	
Total	187.21	237.82	1633.87	35687.13	19501.04	11546.51	9486.23	1823.92	662.06	319.78	219.23	221.49	81526.29 Tonday
Mean	6.24	7.67	54.46	1151.20	629.07	384.88	306.01	60.80	21.36	10.32	7.83	7.14	223.36 Ton/day
Max	47.79	22.71	406.62	7991.06	3493.35	1382.41	1893.56	118.33	29.37	15.51	21.86	14.05	7991.06 Ton/day
Min	1.44	3.44	4.07	7.79	96.82	151.80	105.84	30.76	14.05	7.36	6.19	5.08	1.44 Ton/day

**WATER YEAR : 2021****MAE KLONG RIVER BASIN****Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)**

Lat 14 - 16 - 34 N Long 98 - 55 - 52 E

Location : on right bank at Ban Bong Ti.

	<b>Ban</b> Bong Ti	<b>Amphoe</b> Sai Yok	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	520 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.9576		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.1712 QW^{1.58080}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	3.35	4.85	0.44	258.32	544.62	411.21	211.95	13.17	6.70	2.99	1.31	
2	0.00	8.77	3.53	0.28	181.01	384.82	333.99	211.95	13.17	6.32	2.99	1.31	
3	0.00	5.56	2.99	0.21	162.15	568.50	276.57	420.15	12.58	5.94	2.82	1.18	
4	0.00	3.85	2.48	0.15	181.01	282.75	429.16	190.05	12.58	5.94	2.99	1.18	
5	0.00	19.70	2.16	0.09	133.79	181.01	359.07	123.80	12.09	5.94	2.99	1.18	
6	0.00	11.51	1.86	0.28	103.60	105.54	1193.00	93.49	11.51	5.94	2.99	1.18	
7	0.00	7.10	1.57	0.15	81.98	69.55	2139.31	78.27	11.03	5.56	2.99	1.18	
8	7.10	5.20	1.44	0.15	56.68	61.39	1283.78	130.51	11.03	5.20	2.99	2.48	
9	2.99	4.85	1.31	0.21	39.11	63.00	813.53	80.22	10.56	4.85	2.82	2.99	
10	2.01	3.53	1.31	0.35	31.05	258.32	521.11	67.89	10.10	4.85	2.01	2.99	
11	1.44	3.53	1.57	7.92	28.20	117.22	376.16	56.68	10.10	4.85	0.83	2.82	
12	29.14	2.82	1.57	10.10	32.02	83.96	376.16	49.14	10.10	4.51	5.94	2.65	
13	8.34	2.32	1.44	25.46	25.46	55.14	667.74	44.81	9.65	4.51	3.17	2.65	
14	5.56	1.86	1.31	12.58	23.07	38.07	456.61	41.23	9.65	4.51	2.65	2.32	
15	3.85	2.01	1.72	13.68	17.87	59.81	420.15	37.03	9.21	4.51	2.32	2.16	
16	2.82	2.32	2.32	22.33	15.99	200.89	438.24	33.99	8.77	4.51	2.01	2.01	
17	3.53	21.72	2.65	41.23	15.46	91.63	1803.73	29.14	8.77	4.51	2.01	2.01	
18	2.32	6.70	2.48	21.00	14.82	173.43	1421.67	25.46	8.34	4.51	2.01	3.85	
19	2.01	3.53	2.16	36.01	10.10	2379.04	845.80	23.69	8.34	4.17	2.48	4.85	
20	3.35	3.85	1.72	258.32	7.51	996.62	521.11	21.00	8.34	3.85	2.82	4.51	
21	2.48	4.17	1.44	95.56	5.94	20490.39	342.28	20.41	8.34	3.53	2.48	4.17	
22	1.86	2.82	1.18	55.14	32.02	8448.28	301.60	20.41	8.34	3.85	2.32	4.17	
23	1.57	2.16	1.06	40.17	17.20	3292.27	1564.65	21.72	7.92	3.85	2.01	4.51	
24	1.31	1.72	0.94	61.39	13.17	1712.61	2218.18	19.12	7.92	3.53	1.86	4.85	
25	1.06	1.57	0.83	376.16	11.51	1048.89	1031.35	17.87	7.51	3.53	1.72	5.56	
26	1.06	1.31	0.72	781.73	11.03	1048.89	592.76	16.65	7.10	3.53	1.57	6.32	
27	0.94	1.18	0.72	1109.81	39.11	1214.14	376.16	15.99	7.10	3.35	1.57	5.56	
28	0.83	12.09	0.62	1682.63	59.81	1506.86	246.41	15.46	6.70	3.35	1.44	5.94	
29	1.06	21.72	0.53	1652.84	39.11	911.71	181.01	14.30	6.70	3.17		7.92	
30	4.51	12.58	0.53	878.53	38.07	605.03	137.35	13.68	6.32	3.17		5.94	
31		7.92		521.11	532.82		301.60		6.32	2.99		5.20	
<b>Total</b>	91.14	193.32	51.01	7706.01	2218.99	46994.38	22381.45	2146.06	289.36	139.53	69.79	106.95	82387.99 Tonday
<b>Mean</b>	3.04	6.24	1.70	248.58	71.58	1566.48	721.98	71.54	9.33	4.50	2.49	3.45	225.72 Ton/day
<b>Max</b>	29.14	21.72	4.85	1682.63	532.82	20490.39	2218.18	420.15	13.17	6.70	5.94	7.92	20490.39 Ton/day
<b>Min</b>	0.00	1.18	0.53	0.09	5.94	38.07	137.35	13.68	6.32	2.99	0.83	1.18	0.00 Ton/day

**WATER YEAR : 2021****MAE KLONG RIVER BASIN****Khwaee Noi River at Ban Wang Yen , Kanchanaburi (K.37)**

Lat 13 - 56 - 24 N Long 99 - 24 - 58 E

Location : on left bank at Ban Wang Yen.

	<b>Ban</b>	<b>Wang Yen</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	10,659 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	24					
<b>R-Square</b>	0.8433					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.0072 QW^{2.27150}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	286.96	728.01	418.83	475.56	2309.91	3016.47	2713.39	2280.37	624.75	557.51	590.14	1419.87	
2	317.33	688.26	374.62	515.62	1519.59	4315.74	2399.80	2107.60	624.75	590.14	869.65	1519.59	
3	286.96	557.51	341.23	446.69	1160.63	4607.08	2617.05	1862.64	601.24	601.24	1108.86	1788.16	
4	349.41	391.98	294.39	495.36	1581.24	3809.11	3134.77	1602.10	612.47	579.15	1009.27	1969.42	
5	325.19	349.41	240.11	568.27	3215.06	2617.05	2648.95	1323.93	612.47	624.75	993.18	2280.37	
6	446.69	286.96	234.58	557.51	3633.63	2051.70	5545.58	1178.19	612.47	465.82	1025.51	1836.46	
7	485.40	245.71	234.58	601.24	5169.03	1836.46	7828.96	1195.88	612.47	409.77	1058.41	2024.07	
8	557.51	245.71	437.29	662.44	5711.51	1499.34	5012.18	1323.93	637.18	456.20	1041.89	1969.42	
9	495.36	286.96	383.24	601.24	4557.78	1400.38	3462.76	1602.10	601.24	428.01	1143.23	1889.02	
10	383.24	272.41	349.41	568.27	3255.63	1647.54	2369.63	2713.39	688.26	437.29	1178.19	2107.60	
11	374.62	325.19	357.71	782.98	2750.30	1624.73	1969.42	3055.62	769.03	418.83	1108.86	2251.05	
12	341.23	374.62	333.15	797.07	2553.90	1740.57	1602.10	1647.54	782.98	590.14	1231.73	2713.39	
13	341.23	400.82	475.56	755.22	2193.04	1717.05	2135.87	1249.87	649.74	568.27	1195.88	2862.69	
14	391.98	374.62	437.29	701.37	2135.87	1647.54	2824.94	1009.27	649.74	525.92	1041.89	2648.95	
15	374.62	366.11	428.01	688.26	1969.42	1342.82	2713.39	930.27	662.44	525.92	1108.86	2135.87	
16	391.98	357.71	536.34	701.37	2309.91	1419.87	2460.80	884.59	755.22	557.51	1143.23	3016.47	
17	374.62	383.24	728.01	797.07	1996.64	1479.25	3055.62	1058.41	755.22	515.62	1025.51	3462.76	
18	349.41	333.15	755.22	728.01	1788.16	1479.25	7209.27	1249.87	714.62	505.44	1381.04	3016.47	
19	366.11	333.15	714.62	688.26	1624.73	1602.10	8662.63	1213.73	637.18	637.18	1647.54	3095.06	
20	325.19	294.39	624.75	977.24	1439.51	2939.02	4756.75	1091.90	688.26	624.75	1693.70	3547.62	
21	309.57	286.96	437.29	3590.48	1381.04	4460.08	3215.06	1125.97	624.75	624.75	1647.54	3337.62	
22	272.41	294.39	428.01	2339.66	1717.05	14037.90	3134.77	1091.90	579.15	601.24	1539.99	2713.39	
23	265.29	272.41	495.36	1764.27	1581.24	13924.20	3505.04	1286.60	579.15	637.18	1539.99	3633.63	
24	229.12	251.38	409.77	1836.46	1419.87	8351.06	7344.51	1009.27	637.18	637.18	1693.70	3720.79	
25	240.11	428.01	446.69	1996.64	1602.10	4315.74	7142.18	945.78	688.26	590.14	1400.38	3590.48	
26	245.71	391.98	418.83	2939.02	2051.70	3215.06	4268.22	930.27	495.36	637.18	1459.31	4174.05	
27	286.96	428.01	437.29	4081.07	2024.07	4315.74	2430.19	811.30	590.14	579.15	1479.25	3853.71	
28	325.19	485.40	374.62	5221.92	2221.94	4756.75	1812.22	769.03	579.15	601.24	1400.38	3055.62	
29	301.93	446.69	366.11	8662.63	2251.05	4174.05	1499.34	741.55	612.47	590.14		2648.95	
30	557.51	446.69	437.29	8428.36	2164.35	3255.63	1479.25	662.44	590.14	601.24		3633.63	
31		465.82		4220.99	2460.80		2079.55		601.24	601.24		3337.62	
Total	10598.84	11793.66	12950.20	58190.55	73750.70	108599.28	113034.19	39955.31	19868.72	17320.14	34757.11	85253.80	586072.50 Tonday
Mean	353.29	380.44	431.67	1877.11	2379.05	3619.98	3646.26	1331.84	640.93	558.71	1241.33	2750.12	1605.68 Ton/day
Max	557.51	728.01	755.22	8662.63	5711.51	14037.90	8662.63	3055.62	782.98	637.18	1693.70	4174.05	14037.90 Ton/day
Min	229.12	245.71	234.58	446.69	1160.63	1342.82	1479.25	662.44	495.36	409.77	590.14	1419.87	229.12 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

Lat 14 - 34 - 26 N Long 98 - 48 - 55 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	<b>Ban Nong Bang</b>	<b>Amphoe Thong Pha Phum</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	109 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	17		
<b>R-Square</b>	0.8905		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.8198 QW^{1.26200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	6.26	1.20	2.17	20.53	95.35	17.56	12.76	4.21	2.05	0.98	0.87	
2	0.80	2.44	1.09	2.17	17.56	54.36	18.30	12.14	4.21	2.05	0.98	0.87	
3	0.80	1.43	1.67	2.44	18.30	36.96	13.38	11.53	3.82	2.05	0.98	0.77	
4	1.20	1.09	2.17	1.92	20.53	26.78	13.38	12.14	3.82	2.05	0.98	0.77	
5	2.44	1.43	1.92	1.67	24.92	21.28	12.14	10.93	3.82	1.84	0.98	0.77	
6	1.67	1.20	1.92	1.67	24.92	18.30	33.74	9.74	3.82	1.84	0.98	1.20	
7	2.70	1.20	2.97	2.17	25.85	16.12	22.18	9.16	3.53	1.84	0.98	2.05	
8	5.42	1.67	4.61	1.92	21.28	14.71	16.84	10.33	3.53	1.59	0.98	3.82	
9	2.17	1.92	3.82	2.97	16.84	14.01	15.41	9.16	3.53	1.84	0.87	1.47	
10	2.17	1.09	3.82	5.01	14.71	14.01	14.01	8.59	3.53	1.84	0.77	1.20	
11	1.43	1.02	5.84	7.57	12.76	16.84	12.76	8.02	3.25	1.47	0.77	1.09	
12	1.67	1.02	5.42	5.01	10.93	14.01	34.81	7.57	3.25	1.47	0.77	1.47	
13	1.92	0.91	3.82	5.01	9.74	11.53	28.68	7.57	3.25	1.47	0.87	2.30	
14	4.21	0.73	5.01	3.53	9.16	10.93	22.18	7.13	3.25	1.47	0.87	2.79	
15	1.92	0.73	10.33	3.25	8.02	10.33	35.88	6.70	3.25	1.47	0.87	3.02	
16	1.43	0.53	8.02	3.53	8.02	12.14	26.78	6.70	2.97	1.47	0.98	3.02	
17	1.20	0.63	7.13	5.84	7.13	12.14	40.23	6.26	2.97	1.47	1.47	1.47	
18	1.43	0.53	5.84	7.57	6.26	10.93	29.63	6.26	2.97	1.36	4.06	1.84	
19	1.67	0.63	5.01	28.68	5.84	11.53	24.92	5.84	3.53	1.36	3.53	1.20	
20	1.09	0.63	3.82	19.78	5.42	15.41	22.18	5.84	3.30	1.36	2.79	1.59	
21	0.91	0.53	3.25	14.01	6.26	22.18	20.53	5.42	3.30	1.36	2.05	2.05	
22	0.73	0.47	2.70	14.71	5.42	21.28	19.78	5.42	3.30	1.59	1.47	2.52	
23	0.73	0.47	2.97	30.59	5.01	17.56	34.81	5.42	3.30	1.36	1.20	3.30	
24	0.63	0.47	3.25	17.56	4.61	15.41	43.88	5.01	3.02	1.36	1.20	3.53	
25	0.63	0.47	2.97	35.88	5.42	16.84	23.09	4.61	3.02	1.20	1.09	1.59	
26	0.63	0.63	2.70	38.04	5.84	29.63	19.78	4.21	2.79	1.09	0.98	1.36	
27	0.63	0.80	2.44	43.88	7.13	21.28	18.30	4.21	2.52	1.09	0.98	1.20	
28	0.63	1.02	2.44	43.88	6.26	18.30	16.84	4.21	2.52	1.09	0.87	1.09	
29	2.17	1.09	2.97	29.63	6.70	15.41	16.12	3.82	2.30	1.09		1.09	
30	5.01	1.09	2.44	30.59	7.57	14.01	14.71	3.82	2.30	1.09		1.09	
31		1.20		26.78	19.78		14.01		2.05	1.09		0.98	
Total	50.77	35.33	113.56	439.43	368.72	629.57	696.84	220.52	100.23	46.77	36.30	53.38	2791.42 Tonday
Mean	1.69	1.14	3.79	14.18	11.89	20.99	22.48	7.35	3.23	1.51	1.30	1.72	7.65 Ton/day
Max	5.42	6.26	10.33	43.88	25.85	95.35	43.88	12.76	4.21	2.05	4.06	3.82	95.35 Ton/day
Min	0.63	0.47	1.09	1.67	4.61	10.33	12.14	3.82	2.05	1.09	0.77	0.77	0.47 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)

Lat 14 - 42 - 14 N Long 98 - 40 - 02 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	Ban Ong Thi	Amphoe Thong Pha Phum	Changwat Kanchanaburi
<b>Drainage Area</b>	52 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.9466		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.9333 QW^{1.45390}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	2.01	0.96	2.34	14.73	6.96	26.25	6.08	2.34	1.23	1.04	0.85	
2	0.78	1.44	0.85	2.34	9.24	5.25	22.22	8.29	2.34	1.23	1.04	0.78	
3	0.68	1.23	0.85	1.44	22.22	6.08	14.73	5.63	2.01	1.23	1.04	0.78	
4	1.04	1.23	0.78	1.23	30.60	6.96	15.87	5.25	2.01	1.23	1.04	0.78	
5	1.35	1.15	0.78	1.23	23.51	6.08	11.33	4.46	2.01	1.23	1.15	0.78	
6	1.04	1.23	0.85	1.23	23.51	4.46	12.46	4.05	2.01	1.23	1.15	0.78	
7	1.15	1.15	0.96	1.74	15.87	5.63	11.33	4.05	2.01	1.23	1.15	0.96	
8	1.23	1.15	1.04	1.35	10.31	6.48	8.80	4.05	2.01	1.15	1.04	1.04	
9	1.04	1.35	1.04	4.05	8.80	5.25	10.31	3.71	2.01	1.23	1.04	0.96	
10	1.15	1.15	1.23	3.32	7.86	5.63	8.29	3.71	1.74	1.15	1.04	0.96	
11	1.44	1.35	1.74	3.71	7.86	8.80	7.86	3.71	2.01	1.15	1.04	0.96	
12	1.74	1.15	1.44	3.00	6.96	6.48	12.46	3.32	1.74	1.15	1.04	0.85	
13	1.15	1.04	1.23	2.34	9.24	5.63	9.24	3.00	1.74	1.15	1.04	0.85	
14	4.82	0.85	2.01	1.74	7.86	5.25	8.80	3.00	1.74	1.15	1.35	0.85	
15	1.44	0.85	4.82	3.32	6.48	5.25	11.33	2.64	1.74	1.15	1.04	0.85	
16	1.23	0.85	4.82	3.00	6.08	5.63	18.31	2.64	1.74	1.15	1.15	0.85	
17	1.15	0.85	4.46	2.01	5.25	4.46	163.07	2.64	1.74	1.15	1.04	0.96	
18	1.04	0.85	3.00	3.00	4.46	7.86	27.71	2.34	1.44	1.15	1.15	1.15	
19	1.44	0.85	2.01	51.94	4.05	10.31	14.73	3.00	1.44	1.15	1.35	1.04	
20	1.35	0.78	1.44	12.46	3.71	7.37	9.24	3.32	1.44	1.15	1.23	1.04	
21	1.15	0.78	1.35	7.86	4.05	15.87	8.29	3.32	1.44	1.15	1.15	1.04	
22	1.04	0.85	1.35	6.08	3.71	39.06	26.25	3.32	1.44	1.15	1.04	1.04	
23	0.96	0.96	1.35	7.86	3.32	27.71	20.86	3.00	1.44	1.15	0.96	1.04	
24	0.96	0.96	1.35	10.31	3.00	14.73	17.12	3.00	1.35	1.15	0.96	1.04	
25	1.04	0.96	1.35	20.86	4.05	22.22	9.24	3.00	1.35	1.04	0.96	1.04	
26	0.96	0.96	1.44	30.60	10.31	43.23	7.86	3.00	1.35	1.04	0.85	0.96	
27	1.04	0.85	2.34	65.91	8.80	23.51	7.37	2.64	1.35	1.04	0.85	0.96	
28	1.74	0.85	2.64	58.86	5.63	15.87	6.96	2.34	1.35	1.04	0.85	0.96	
29	10.31	0.96	1.74	27.71	4.46	12.46	6.96	2.34	1.35	1.04		0.85	
30	4.46	1.15	1.35	20.86	6.08	10.31	6.08	2.34	1.23	1.04		0.85	
31		1.04		15.87	8.80		6.08		1.35	1.04		0.85	
<b>Total</b>	50.60	32.83	52.57	379.57	290.81	350.79	547.41	107.19	52.26	35.52	29.78	28.70	1958.03 Tonday
<b>Mean</b>	1.69	1.06	1.75	12.24	9.38	11.69	17.66	3.57	1.69	1.15	1.06	0.93	5.36 Ton/day
<b>Max</b>	10.31	2.01	4.82	65.91	30.60	43.23	163.07	8.29	2.34	1.23	1.35	1.15	163.07 Ton/day
<b>Min</b>	0.68	0.78	0.78	1.23	3.00	4.46	6.08	2.34	1.23	1.04	0.85	0.78	0.68 Ton/day

**WATER YEAR : 2021****MAE KLONG RIVER BASIN****Huai Dinso at Ban Sahakorn Nikom , Kanchanaburi (K.50A)**

Lat 14 - 40 - 37 N Long 98 - 42 - 53 E

**Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway.**

	<b>Ban</b> Sahakorn Nikom	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	121 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2020-Cont'd		
<b>Actual Measurement</b>	2020-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9392		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.1840 QW^{1.38740}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	3.73	0.47	2.03	34.18	11.35	20.94	16.05	1.74	0.91	0.53	0.47	
2	0.05	2.12	0.41	4.97	23.25	8.35	43.09	15.26	1.74	0.83	0.53	0.39	
3	0.05	1.47	0.39	2.31	40.05	10.64	57.78	8.89	1.69	0.81	0.53	0.34	
4	0.07	1.08	0.34	1.69	47.18	15.68	40.05	8.09	1.60	0.81	0.53	0.32	
5	0.14	0.91	0.32	1.41	42.33	15.26	24.43	6.81	1.60	0.81	0.53	0.34	
6	0.39	0.81	0.34	1.28	36.35	9.70	25.63	5.83	1.55	0.81	0.51	0.34	
7	0.32	0.77	0.53	1.28	27.45	9.98	17.71	5.13	1.55	0.77	0.51	0.37	
8	0.32	0.95	1.41	1.20	18.15	13.67	13.26	5.36	1.55	0.74	0.51	0.39	
9	0.27	2.59	1.20	1.20	14.43	8.62	12.12	4.49	1.47	0.74	0.47	0.41	
10	0.53	0.95	1.28	1.89	13.67	7.32	12.52	4.19	1.47	0.74	0.47	0.39	
11	0.83	0.70	3.87	5.13	10.64	11.01	9.98	3.87	1.41	0.74	0.45	0.34	
12	3.28	0.66	3.87	4.01	9.16	9.16	9.43	3.73	1.47	0.70	0.45	0.32	
13	0.77	0.59	2.03	3.41	12.52	7.06	16.47	3.59	1.41	0.70	0.45	0.28	
14	12.12	0.53	2.46	3.01	10.26	7.83	11.35	3.41	1.41	0.70	0.70	0.28	
15	6.07	0.47	8.89	3.73	9.16	5.59	19.25	3.14	1.33	0.68	0.66	0.27	
16	1.28	0.45	11.74	9.98	8.09	5.83	24.43	3.14	1.33	0.68	0.68	0.27	
17	0.83	0.41	10.64	5.13	6.32	7.57	161.94	2.85	1.28	0.68	0.68	0.27	
18	0.70	0.39	6.32	12.12	5.13	6.07	53.29	2.72	1.28	0.66	1.03	0.28	
19	0.66	0.34	3.14	86.26	4.49	12.12	30.64	2.59	1.15	0.66	3.41	0.28	
20	0.70	0.32	1.97	53.29	3.87	8.89	20.94	2.46	1.15	0.61	1.15	0.27	
21	0.59	0.27	1.89	22.67	9.70	26.23	16.05	2.46	1.15	0.66	0.95	0.32	
22	0.51	0.25	3.14	15.68	5.59	65.63	22.09	2.31	1.15	0.68	0.74	0.45	
23	0.47	0.34	6.07	25.63	3.87	51.52	27.45	2.18	1.08	0.70	0.68	0.51	
24	0.41	0.41	2.72	20.37	3.59	29.31	32.04	2.12	1.08	0.66	0.66	0.39	
25	0.37	0.41	3.28	38.56	4.34	24.43	14.84	2.03	1.08	0.61	0.59	0.34	
26	0.37	0.51	2.59	59.60	7.06	82.65	11.74	1.89	1.08	0.55	0.55	0.28	
27	0.34	0.47	2.46	97.45	23.84	54.18	9.70	1.89	1.03	0.59	0.51	0.25	
28	0.55	0.41	9.16	99.99	14.84	34.18	8.62	1.83	0.95	0.59	0.47	0.22	
29	6.32	0.68	3.59	80.31	9.43	22.67	8.09	1.74	0.95	0.59		0.19	
30	17.33	0.55	2.18	52.41	9.70	16.90	9.16	1.83	0.91	0.53		0.14	
31		0.51		48.04	15.26		41.56		0.91	0.53		0.14	
<b>Total</b>	56.69	25.05	98.70	766.04	483.90	599.40	826.59	131.88	40.55	21.47	19.93	9.85	3080.05 Tonday
<b>Mean</b>	1.89	0.81	3.29	24.71	15.61	19.98	26.66	4.40	1.31	0.69	0.71	0.32	8.44 Ton/day
<b>Max</b>	17.33	3.73	11.74	99.99	47.18	82.65	161.94	16.05	1.74	0.91	3.41	0.51	161.94 Ton/day
<b>Min</b>	0.05	0.25	0.32	1.20	3.59	5.59	8.09	1.74	0.91	0.53	0.45	0.14	0.05 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Khwae Noi River at Ban Lin Thin , Kanchanaburi (K.54)

Lat 14 - 32 - 09 N Long 98 - 47 - 16 E

Location : on right bank at the bridge on road.

	<b>Ban</b> Lin Thin	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	4,785 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.4652		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.0003 QW^{2.79200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.66	194.11	96.56	160.13	69.58	1882.95	453.44	154.87	112.50	154.87	592.05	1409.64	
2	165.51	47.99	79.04	176.57	60.88	1162.27	565.06	108.30	112.50	171.01	855.21	1316.08	
3	96.56	43.38	112.50	188.14	253.14	526.07	538.86	112.50	100.34	212.67	488.93	1688.46	
4	121.16	47.99	50.41	267.68	692.91	408.76	538.86	125.66	116.76	219.12	331.06	2122.20	
5	165.51	31.17	79.04	165.51	677.86	339.62	165.51	79.04	112.50	96.56	513.47	1040.05	
6	108.30	52.91	75.80	282.69	982.12	592.05	212.67	176.57	125.66	82.36	526.07	1688.46	
7	139.77	58.14	298.29	314.37	1079.87	149.75	206.35	139.77	154.87	96.56	723.65	1557.64	
8	92.88	58.14	121.16	232.34	1100.00	339.62	160.13	154.87	121.16	96.56	787.61	944.67	
9	96.56	58.14	125.66	200.14	820.96	322.65	139.77	85.78	182.30	82.36	526.07	2030.25	
10	75.80	58.14	116.76	267.68	755.25	513.47	139.77	79.04	206.35	188.14	633.98	1742.51	
11	92.88	63.70	100.34	239.16	771.27	314.37	149.75	82.36	171.01	149.75	771.27	3346.72	
12	89.28	52.91	144.71	339.62	708.17	526.07	306.29	72.64	182.30	176.57	565.06	1854.30	
13	82.36	45.65	130.27	165.51	739.34	565.06	677.86	72.64	176.57	160.13	453.44	1661.75	
14	116.76	52.91	139.77	171.01	677.86	290.42	578.45	89.28	206.35	160.13	1059.84	2251.93	
15	100.34	82.36	130.27	188.14	982.12	282.69	348.25	72.64	171.01	219.12	441.99	2708.50	
16	82.36	69.58	200.14	200.14	855.21	253.14	419.65	232.34	339.62	125.66	513.47	3137.80	
17	89.28	69.58	171.01	149.75	578.45	322.65	1825.94	139.77	82.36	160.13	1020.50	2030.25	
18	82.36	89.28	267.68	176.57	513.47	219.12	982.12	130.27	182.30	267.68	787.61	2352.60	
19	82.36	72.64	79.04	260.34	551.86	648.40	331.06	188.14	171.01	206.35	755.25	3097.21	
20	82.36	66.60	144.71	663.02	633.98	398.12	290.42	182.30	212.67	239.16	890.35	2122.20	
21	75.80	96.56	160.13	246.11	926.29	723.65	298.29	121.16	154.87	253.14	837.97	3016.79	
22	79.04	58.14	134.95	165.51	648.40	755.25	176.57	154.87	182.30	260.34	1020.50	2671.34	
23	39.62	79.04	188.14	239.16	739.34	501.14	144.71	116.76	322.65	154.87	1020.50	2976.95	
24	72.64	212.67	171.01	225.64	771.27	260.34	154.87	112.50	72.64	282.69	926.29	2598.23	
25	75.80	116.76	188.14	331.06	1362.34	212.67	100.34	130.27	212.67	200.14	963.27	3790.56	
26	79.04	139.77	165.51	551.86	1001.19	419.65	79.04	104.21	154.87	194.11	1040.05	2821.49	
27	75.80	134.95	130.27	804.17	1141.27	465.08	72.64	116.76	165.51	232.34	677.86	1457.97	
28	79.04	100.34	139.77	755.25	1040.05	476.91	66.60	112.50	176.57	225.64	1162.27	2671.34	
29	149.75	104.21	194.11	633.98	1001.19	526.07	125.66	92.88	194.11	219.12		3016.79	
30	182.30	121.16	225.64	116.76	1270.98	501.14	108.30	100.34	165.51	194.11		2318.66	
31		116.76		100.34	855.21		139.77		182.30	212.67		2783.58	
<b>Total</b>	2996.88	2595.68	4360.83	8978.35	24261.83	14899.15	10497.00	3641.03	5224.14	5694.06	20885.59	70226.92	174261.46 Tonday
<b>Mean</b>	99.90	83.73	145.36	289.62	782.64	496.64	338.61	121.37	168.52	183.68	745.91	2265.38	477.43 Ton/day
<b>Max</b>	182.30	212.67	298.29	804.17	1362.34	1882.95	1825.94	232.34	339.62	282.69	1162.27	3790.56	3790.56 Ton/day
<b>Min</b>	39.62	31.17	50.41	100.34	60.88	149.75	66.60	72.64	72.64	82.36	331.06	944.67	31.17 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

Lat 14 - 37 - 28 N Long 98 - 43 - 19 E

Location : on right bank at the bridge on road.

	Ban	Kui Mang	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	132	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2002-Cont'd					
Actual Measurement	2002-Cont'd					
Using Rating Curve Water Year	2021					
Number of observation	26					
R-Square	0.9210					
Remarks	Continued Sediment Station					

$$QS = 4.3073 QW^{1.70910}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	23.22	1.80	2.94	45.85	119.83	47.63	56.96	7.29	4.31	2.34	0.72	
2	0.43	3.95	1.32	2.94	14.32	93.13	36.29	45.85	7.29	3.95	2.06	0.72	
3	0.43	2.63	1.19	2.63	18.96	44.10	174.44	34.70	7.29	3.95	2.06	0.72	
4	1.32	2.06	1.55	2.34	30.44	42.56	212.97	30.44	7.29	3.95	2.06	0.61	
5	0.94	1.55	1.32	2.06	21.05	53.14	74.48	27.84	7.29	3.95	2.06	0.61	
6	0.72	1.55	1.32	2.06	16.06	31.78	212.97	24.27	6.74	3.95	1.80	0.61	
7	1.32	1.32	1.80	2.34	6.74	27.84	93.13	23.22	6.74	3.95	1.80	0.72	
8	3.26	1.32	2.06	2.94	2.94	39.37	42.56	23.22	6.74	3.60	1.80	1.32	
9	2.94	4.76	2.06	3.26	1.55	24.27	39.37	21.05	6.74	3.60	1.80	1.19	
10	2.34	2.34	2.06	3.95	1.32	18.96	30.44	19.92	6.22	3.60	1.55	0.94	
11	2.34	1.80	4.76	7.29	0.82	25.49	23.22	19.92	6.22	3.60	1.32	0.72	
12	2.63	1.55	5.72	7.84	0.52	23.22	21.05	19.92	5.72	3.60	1.19	0.61	
13	2.34	2.34	3.60	9.62	0.43	16.96	27.84	18.96	5.72	3.60	1.19	0.61	
14	4.76	2.34	4.31	5.23	0.61	16.96	26.58	18.96	5.72	3.26	1.19	0.61	
15	1.80	2.06	19.92	5.23	0.43	15.18	40.86	18.96	5.72	3.26	1.19	0.52	
16	1.32	1.80	17.88	34.70	0.43	15.18	51.28	17.88	5.72	3.26	1.32	0.52	
17	1.32	1.80	11.10	15.18	0.28	16.96	865.49	17.88	5.72	3.26	1.55	0.43	
18	1.55	1.80	7.84	16.96	0.19	16.06	178.91	16.96	5.23	3.26	1.80	0.52	
19	1.80	1.32	5.23	253.43	0.11	36.29	89.99	13.49	5.23	3.26	2.63	0.52	
20	1.19	1.06	3.95	291.68	0.06	33.32	62.88	10.35	5.23	3.26	2.34	0.61	
21	1.06	1.06	3.60	60.88	0.28	157.04	49.44	11.10	4.76	3.60	2.34	0.72	
22	1.06	1.06	3.26	84.35	0.35	149.26	53.14	10.35	4.76	3.95	1.80	0.72	
23	1.06	1.06	3.26	389.40	0.08	123.36	84.35	9.62	4.76	3.95	1.80	0.94	
24	1.06	1.19	3.26	123.36	0.04	44.10	183.42	9.62	4.76	3.60	1.55	0.94	
25	0.94	1.06	2.94	332.12	0.15	39.37	67.42	9.01	5.23	3.26	1.55	0.82	
26	0.94	1.80	3.26	405.28	0.72	259.45	49.44	8.42	5.23	3.26	1.19	0.61	
27	0.94	1.80	2.94	477.60	69.75	170.02	40.86	8.42	5.23	2.63	1.06	0.52	
28	0.94	2.34	6.74	116.34	34.70	79.35	36.29	7.84	4.76	2.63	0.82	0.52	
29	5.23	2.63	4.76	58.90	22.05	53.14	33.32	7.29	4.76	2.34		0.43	
30	7.84	2.06	3.60	26.58	23.22	40.86	33.32	7.29	4.31	2.34		0.43	
31		1.80		36.29	84.35		81.83		4.31	2.34		0.43	
Total	56.25	80.43	138.41	2785.72	398.80	1826.55	3065.21	569.71	178.73	106.33	47.16	20.91	9274.21 Tonday
Mean	1.88	2.59	4.61	89.86	12.86	60.88	98.88	18.99	5.77	3.43	1.68	0.67	25.41 Ton/day
Max	7.84	23.22	19.92	477.60	84.35	259.45	865.49	56.96	7.29	4.31	2.63	1.32	865.49 Ton/day
Min	0.43	1.06	1.19	2.06	0.04	15.18	21.05	7.29	4.31	2.34	0.82	0.43	0.04 Ton/day

## WATER YEAR : 2021

## MAE KLONG RIVER BASIN

## Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

Lat 13 - 46 - 52 N Long 99 - 25 - 16 E

Location : on left bank at Ban Nong Phai.

	Ban Nong Phai	Amphoe Dan Makham Tia	Changwat Kanchanaburi
<b>Drainage Area</b>	2,234 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.9347		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.8278 QW^{1.81040}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.72	47.83	29.22	10.74	65.68	58.64	402.33	599.74	151.94	13.95	2.40	4.35	
2	1.72	47.83	29.22	8.59	53.88	100.93	314.44	492.97	142.80	13.12	2.40	3.74	
3	1.52	52.34	30.41	5.69	44.92	226.10	449.38	591.20	128.12	13.12	2.40	3.45	
4	1.94	55.45	29.22	4.67	40.71	280.42	617.00	492.97	116.90	11.51	2.65	2.90	
5	2.90	42.10	29.22	4.67	39.35	177.57	395.67	389.29	100.93	10.74	2.65	2.65	
6	3.17	31.63	23.58	5.34	39.35	133.91	1248.78	334.62	86.02	10.00	2.90	2.16	
7	3.74	26.90	18.48	7.27	40.71	122.45	3520.05	345.03	74.42	9.28	3.45	2.16	
8	5.00	35.39	14.81	8.59	39.35	106.14	1864.45	319.37	69.99	8.59	2.90	2.90	
9	5.69	34.12	13.12	10.00	35.39	187.63	1620.47	1040.61	61.91	7.91	2.65	3.74	
10	7.27	53.88	12.30	11.51	30.41	226.10	1134.58	11283.21	58.64	7.27	2.40	5.00	
11	8.59	103.52	14.81	13.95	29.22	164.53	828.66	3974.07	55.45	6.65	2.16	4.35	
12	6.65	103.52	18.48	19.46	24.66	142.80	599.74	1838.42	52.34	5.69	2.16	2.90	
13	5.34	95.84	18.48	26.90	22.51	139.81	652.16	927.59	47.83	5.69	4.35	2.16	
14	4.35	239.19	18.48	24.66	22.51	119.66	516.78	599.74	44.92	7.27	4.67	1.72	
15	4.35	180.89	15.70	22.51	23.58	108.78	376.43	500.85	42.10	5.69	5.69	1.52	
16	6.05	86.02	15.70	24.66	21.47	90.87	309.53	435.67	38.01	5.34	11.51	1.33	
17	7.91	88.43	18.48	65.68	22.51	86.02	402.33	435.67	35.39	5.00	12.30	1.15	
18	14.81	108.78	23.58	46.36	30.41	83.64	905.14	1025.30	31.63	4.67	22.51	2.16	
19	13.95	76.68	22.51	34.12	26.90	76.68	939.09	652.16	29.22	4.67	139.81	1.72	
20	18.48	74.42	30.41	34.12	22.51	187.63	765.39	524.83	26.90	4.04	128.12	2.65	
21	12.30	83.64	23.58	47.83	20.46	1166.70	557.57	395.67	24.66	4.04	50.82	3.45	
22	22.51	83.64	18.48	60.26	20.46	3881.30	477.38	324.57	22.51	5.34	32.86	3.74	
23	34.12	65.68	14.81	53.88	26.90	1917.00	2078.55	304.45	20.46	5.69	23.58	7.27	
24	35.39	49.31	12.30	49.31	26.90	1150.59	6040.35	319.37	19.46	5.00	15.70	23.58	
25	26.90	42.10	11.51	46.36	21.47	817.80	4115.07	324.57	18.48	4.35	12.30	30.41	
26	19.46	36.69	10.74	50.82	20.46	839.26	2245.93	275.56	18.48	4.04	8.59	26.90	
27	16.60	36.69	11.51	65.68	20.46	1333.34	1350.55	234.66	17.53	3.45	6.05	26.90	
28	28.05	39.35	10.74	81.29	19.46	965.09	905.14	197.95	17.53	3.45	5.34	30.41	
29	57.03	39.35	10.74	111.46	19.46	688.19	715.78	174.27	16.60	3.45		25.77	
30	50.82	38.01	10.74	116.90	20.46	500.85	608.34	158.18	14.81	3.17		24.66	
31		32.86		88.43	21.47		608.34		13.95	2.16		21.47	
<b>Total</b>	428.33	2132.08	561.36	1161.71	913.99	16080.43	37565.40	29512.56	1599.93	204.34	515.32	279.27	90954.72 Tonday
<b>Mean</b>	14.28	68.78	18.71	37.47	29.48	536.01	1211.79	983.75	51.61	6.59	18.40	9.01	249.19 Ton/day
<b>Max</b>	57.03	239.19	30.41	116.90	65.68	3881.30	6040.35	11283.21	151.94	13.95	139.81	30.41	11283.21 Ton/day
<b>Min</b>	1.52	26.90	10.74	4.67	19.46	58.64	309.53	158.18	13.95	2.16	2.16	1.15	1.15 Ton/day

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Khao Chakan , Sa Kaeo (Kgt.9)

Lat 13 - 40 - 10 N Long 102 - 04 - 29 E

Location : on right bank near Wat Khao Chakan.

	<b>Ban</b>	<b>Khao Chakan</b>	<b>Amphoe</b>	<b>Khao Chakan</b>	<b>Changwat</b>	<b>Sa Kaeo</b>
<b>Drainage Area</b>	2,273 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	33					
<b>R-Square</b>	0.8218					
<b>Remarks</b>	Continued Sediment Station					

QS = 3.1467 QW<sup>1.20590</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.75	24.05	22.98	82.43	51.78	851.53	379.43	113.81	24.05	18.78	18.78	19.82	
2	14.75	22.98	25.12	51.78	44.52	1286.13	658.19	130.82	24.05	18.78	19.82	19.82	
3	14.75	26.21	24.05	27.30	48.13	1496.54	477.74	108.23	25.12	17.76	19.82	19.82	
4	15.74	30.63	24.05	26.21	44.52	796.55	311.74	78.47	25.12	17.76	19.82	19.82	
5	15.74	27.30	22.98	16.74	37.47	500.20	318.40	51.78	24.05	17.76	19.82	18.78	
6	15.74	70.66	24.05	90.45	30.63	358.89	470.60	59.21	24.05	16.74	19.82	19.82	
7	15.74	246.48	25.12	130.82	26.21	259.32	1032.29	94.51	24.05	17.76	19.82	19.82	
8	15.74	278.78	25.12	113.81	20.86	796.55	752.83	148.22	24.05	16.74	19.82	19.82	
9	15.74	160.02	26.21	59.21	15.74	1258.64	428.11	492.09	24.05	16.74	19.82	20.86	
10	15.74	94.51	22.98	37.47	17.76	1243.88	365.72	352.09	22.98	16.74	19.82	21.92	
11	15.74	98.59	20.86	70.66	48.13	1518.31	259.32	130.82	21.92	16.74	19.82	24.05	
12	15.74	196.29	18.78	86.43	17.76	1145.55	160.02	86.43	21.92	16.74	20.86	20.86	
13	16.74	136.58	17.76	214.88	19.82	393.24	171.97	74.55	20.86	16.74	20.86	20.86	
14	16.74	66.80	20.86	265.78	34.02	252.88	214.88	62.99	20.86	16.74	20.86	21.92	
15	17.76	48.13	55.47	265.78	21.92	272.27	516.47	55.47	20.86	16.74	22.98	20.86	
16	17.76	55.47	34.02	393.24	25.12	1208.15	683.78	51.78	20.86	16.74	24.05	19.82	
17	17.76	44.52	86.43	227.43	48.13	831.82	1727.72	44.52	20.86	16.74	25.12	21.92	
18	20.86	44.52	142.38	165.98	44.52	1755.61	1993.97	48.13	20.86	16.74	44.52	21.92	
19	20.86	136.58	66.80	108.23	24.05	1973.44	1811.62	48.13	19.82	16.74	40.97	22.98	
20	21.92	214.88	44.52	62.99	25.12	3643.72	666.70	66.80	19.82	16.74	25.12	26.21	
21	20.86	51.78	34.02	30.63	44.52	2778.52	358.89	55.47	19.82	17.76	22.98	48.13	
22	20.86	37.47	26.21	25.12	62.99	1022.09	184.06	44.52	18.78	16.74	21.92	40.97	
23	18.78	25.12	26.21	24.05	62.99	675.23	190.16	40.97	18.78	17.76	20.86	66.80	
24	18.78	17.76	25.12	40.97	59.21	524.64	178.00	40.97	18.78	17.76	20.86	70.66	
25	22.98	14.75	24.05	761.54	82.43	735.46	178.00	22.98	18.78	17.76	20.86	27.30	
26	21.92	13.76	24.05	557.54	372.56	1367.07	102.71	15.74	18.78	17.76	21.92	25.12	
27	22.98	14.75	24.05	196.29	735.46	1011.92	70.66	17.76	18.78	18.78	20.86	26.21	
28	24.05	214.88	22.98	86.43	779.01	1229.15	94.51	24.05	18.78	18.78	19.82	24.05	
29	22.98	142.38	142.38	74.55	582.43	735.46	318.40	26.21	18.78	16.74		22.98	
30	24.05	30.63	196.29	102.71	407.12	435.14	221.14	25.12	18.78	16.74		22.98	
31		25.12		70.66	822.98		130.82		18.78	16.74		37.47	
Total	554.55	2612.38	1295.90	4468.11	4657.91	32357.90	15428.85	2612.64	657.83	536.28	632.40	834.37	66649.12 Tonday
Mean	18.49	84.27	43.20	144.13	150.26	1078.60	497.70	87.09	21.22	17.30	22.59	26.92	182.60 Tonday
Max	24.05	278.78	196.29	761.54	822.98	3643.72	1993.97	492.09	25.12	18.78	44.52	70.66	3643.72 Tonday
Min	14.75	13.76	17.76	16.74	15.74	252.88	70.66	15.74	18.78	16.74	18.78	18.78	13.76 Tonday

**WATER YEAR : 2021****PPRACHIN BURI RIVER BASIN****Khlong Phra Prong at Ban Kaeng , Sa Kao (Kgt.12)**

Lat 13 - 56 - 11 N Long 101 - 58 - 20 E

**Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.**

	<b>Ban Kaeng</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	1,474 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	33		
<b>R-Square</b>	0.8351		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 14.3300 QW^{0.60660}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.75	19.06	41.62	8.59	54.34	115.06	206.80	124.92	36.87	27.34	30.64	23.44	
2	9.41	21.15	38.96	7.58	53.97	103.89	170.00	119.06	35.92	26.76	31.43	23.12	
3	9.41	23.12	32.72	6.90	53.97	101.96	179.78	115.06	35.68	26.47	32.21	23.12	
4	10.30	25.58	22.80	6.18	53.60	107.93	189.23	111.87	34.96	26.47	32.97	22.80	
5	11.03	27.62	13.71	5.88	52.86	130.59	185.78	107.70	33.22	26.18	33.22	22.80	
6	11.84	28.19	12.33	5.88	53.60	133.68	185.29	100.98	31.95	26.18	32.46	22.48	
7	12.80	27.62	10.30	5.40	52.86	120.71	206.34	92.41	30.64	26.18	31.17	22.48	
8	14.33	25.58	8.83	5.88	54.88	121.69	230.84	84.40	29.29	25.58	29.84	22.48	
9	16.41	22.48	7.97	3.10	60.18	146.37	252.28	78.19	31.17	25.58	29.02	23.12	
10	17.19	22.48	8.22	6.62	60.69	187.43	263.94	75.86	32.97	25.58	28.74	24.98	
11	16.80	24.68	13.89	10.83	55.97	216.36	264.40	74.07	33.22	25.58	28.19	27.05	
12	16.01	26.76	22.80	14.76	51.35	227.96	253.69	70.88	32.97	25.28	29.56	28.74	
13	14.76	25.88	27.05	24.37	47.06	239.06	247.99	67.60	32.72	25.28	32.46	30.11	
14	14.76	21.49	29.02	34.96	43.76	243.24	249.90	64.20	32.21	24.98	34.96	30.64	
15	14.76	15.18	30.11	43.34	48.65	229.91	261.17	60.18	31.69	24.98	37.81	29.84	
16	15.18	11.84	30.37	45.84	53.60	207.88	274.83	57.04	31.43	24.68	35.44	29.02	
17	14.33	10.83	30.11	45.43	61.71	185.45	295.39	54.88	31.17	24.06	33.97	28.74	
18	14.16	8.83	32.46	44.19	64.20	163.36	313.01	53.60	30.90	23.75	35.20	30.11	
19	14.16	7.97	40.30	42.06	65.19	150.19	338.69	52.48	30.90	24.06	35.20	29.29	
20	13.44	8.22	46.25	37.81	67.12	158.74	358.00	51.35	30.90	24.06	32.72	29.56	
21	12.52	8.22	43.76	34.22	69.02	187.43	359.73	50.59	30.64	24.06	30.37	29.56	
22	12.80	7.58	37.11	31.17	66.16	229.91	347.99	49.82	30.64	24.37	28.46	29.84	
23	13.89	7.58	30.11	26.76	60.69	262.16	331.48	49.04	30.37	26.47	27.34	30.37	
24	16.80	8.59	22.15	26.76	56.51	264.93	313.01	48.65	29.84	28.19	27.34	31.95	
25	19.77	9.18	15.60	54.34	54.34	246.00	291.96	47.46	29.56	29.02	27.34	34.47	
26	21.82	8.59	12.33	73.62	55.97	224.70	267.60	46.65	29.56	29.56	26.76	36.87	
27	20.12	7.31	10.30	81.05	65.19	217.55	233.34	45.43	29.02	29.84	25.58	40.75	
28	19.42	10.30	8.83	71.80	97.76	215.76	191.18	44.19	28.46	30.11	24.37	43.76	
29	18.69	22.80	7.97	64.20	138.13	208.49	153.29	42.06	28.19	30.37		42.49	
30	17.95	32.46	7.97	60.69	149.81	193.92	136.82	38.96	27.90	30.64		38.96	
31		37.34		56.51	132.45		133.78		27.62	30.64		36.64	
Total	444.61	564.51	695.95	986.72	2055.59	5542.31	7687.53	2079.58	972.58	822.30	864.77	919.58	23636.03 Tonday
Mean	14.82	18.21	23.20	31.83	66.31	184.74	247.98	69.32	31.37	26.53	30.88	29.66	64.76 Ton/day
Max	21.82	37.34	46.25	81.05	149.81	264.93	359.73	124.92	36.87	30.64	37.81	43.76	359.73 Ton/day
Min	9.41	7.31	7.97	3.10	43.76	101.96	133.78	38.96	27.62	23.75	24.37	22.48	3.10 Ton/day

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlung Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

Lat 13 - 54 - 36 N Long 101 - 50 - 18 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

	<b>Ban Non Suk Phum</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	4,890 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.7070		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 14.8150 QW^{0.75360}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.00	95.16	91.49	201.83	211.73	941.54	985.73	529.92	105.91	76.29	91.49	91.49	
2	21.11	136.80	81.46	151.13	193.21	917.02	893.74	464.79	103.55	72.34	93.95	90.26	
3	23.07	138.42	74.98	119.71	183.00	908.31	873.21	440.89	101.18	71.00	97.58	90.26	
4	27.75	124.19	64.20	95.16	180.05	918.46	856.96	417.49	99.99	68.31	96.38	89.02	
5	30.44	111.73	47.55	82.74	168.07	931.47	787.14	386.95	98.79	66.95	93.95	89.02	
6	33.05	104.73	46.79	65.58	169.58	899.58	759.57	336.07	96.38	66.95	93.95	87.78	
7	30.44	163.51	48.32	74.98	157.36	810.33	842.71	307.50	98.79	82.74	92.72	89.02	
8	28.66	245.95	51.32	154.26	141.63	747.05	912.67	326.16	99.99	86.52	91.49	90.26	
9	35.59	264.44	49.07	149.56	141.63	842.71	935.79	356.98	96.38	86.52	90.26	91.49	
10	38.08	220.10	58.59	140.03	138.42	967.28	908.31	418.80	93.95	86.52	89.02	90.26	
11	33.05	174.09	65.58	109.41	128.62	1037.64	867.31	446.03	93.95	86.52	89.02	92.72	
12	36.43	155.81	66.95	117.45	141.63	1076.36	814.40	326.16	91.49	85.27	91.49	98.79	
13	35.59	204.67	66.95	141.63	124.19	1087.35	807.61	265.75	89.02	85.27	96.38	97.58	
14	34.75	207.51	66.95	194.66	102.37	1068.11	856.96	237.89	87.78	86.52	98.79	96.38	
15	33.05	151.13	64.20	245.95	114.03	999.85	942.97	211.73	87.78	85.27	105.91	95.16	
16	37.26	104.73	91.49	270.94	133.55	934.35	1079.11	190.31	93.95	86.52	107.08	93.95	
17	41.32	96.38	141.63	316.16	147.99	942.97	1202.16	177.08	86.52	85.27	105.91	92.72	
18	39.71	92.72	224.25	303.14	169.58	954.44	1310.00	172.59	86.52	85.27	107.08	93.95	
19	39.71	89.02	229.73	253.93	181.52	968.70	1321.33	166.56	87.78	85.27	117.45	101.18	
20	46.79	102.37	194.66	211.73	166.56	972.97	1304.33	160.45	87.78	85.27	124.19	101.18	
21	49.07	217.32	149.56	160.45	172.59	999.85	1300.06	166.56	97.58	84.00	112.88	104.73	
22	47.55	211.73	117.45	125.30	190.31	1045.98	1301.48	160.45	112.88	85.27	104.73	114.03	
23	46.02	118.58	101.18	102.37	197.54	1084.60	1281.54	144.82	98.79	87.78	98.79	112.88	
24	45.25	87.78	89.02	118.58	181.52	1107.84	1232.66	135.18	89.02	89.02	96.38	114.03	
25	42.11	52.80	80.18	197.54	249.95	1099.65	1168.59	130.27	86.52	90.26	96.38	140.03	
26	46.79	36.43	62.82	479.19	440.89	1072.24	1088.72	121.96	91.49	90.26	95.16	124.19	
27	64.20	31.32	60.01	610.32	677.66	1066.73	982.90	104.73	91.49	90.26	95.16	110.57	
28	66.95	24.98	58.59	486.34	944.41	1073.61	855.48	99.99	87.78	90.26	92.72	112.88	
29	80.18	77.59	48.32	336.07	1070.86	1074.99	735.87	103.55	85.27	95.16		110.57	
30	78.89	227.00	89.02	253.93	1034.86	1055.68	679.10	108.25	80.18	93.95		107.08	
31		118.58		225.62	971.55		617.76		76.29	91.49		103.55	
Total	1229.86	4187.57	2682.31	6495.69	9226.86	29607.66	30506.17	7615.86	2884.77	2608.30	2766.29	3117.01	102928.35 Tonday
Mean	41.00	135.08	89.41	209.54	297.64	986.92	984.07	253.86	93.06	84.14	98.80	100.55	282.00 Ton/day
Max	80.18	264.44	229.73	610.32	1070.86	1107.84	1321.33	529.92	112.88	95.16	124.19	140.03	1321.33 Ton/day
Min	17.00	24.98	46.79	65.58	102.37	747.05	617.76	99.99	76.29	66.95	89.02	87.78	17.00 Ton/day

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

Khleng Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

Lat 14 - 09 - 41 N Long 101 - 52 - 59 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

	Ban Thung Faek	Amphoe Na Di	Changwat Prachin Buri
<b>Drainage Area</b>	353 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.9086		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.6379 QW^{1.27240}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.14	70.44	2.07	2.34	76.09	616.38	129.05	76.09	4.45	2.82	1.87	1.62	
2	1.08	13.04	2.07	1.81	30.32	331.12	96.55	70.44	4.37	2.75	2.00	1.62	
3	1.02	5.48	2.00	1.62	18.10	616.38	111.78	84.73	4.37	2.75	2.13	2.20	
4	1.02	10.19	2.00	1.50	9.27	285.04	99.56	31.50	4.06	2.75	2.07	2.07	
5	1.14	7.49	1.87	1.37	10.19	240.50	59.43	30.32	4.06	2.68	1.94	1.81	
6	1.25	6.64	1.94	1.37	31.50	153.42	43.73	29.16	4.06	2.75	1.87	1.68	
7	1.25	19.16	2.00	1.50	25.73	129.05	62.15	108.69	3.91	2.61	1.81	1.68	
8	1.25	6.30	1.94	2.68	13.04	3132.25	35.08	73.25	3.99	2.47	1.81	1.68	
9	1.20	5.64	2.07	25.73	7.49	1384.81	64.89	32.68	3.84	2.47	1.81	1.37	
10	1.20	4.45	2.27	24.60	9.27	1214.93	35.08	24.60	3.91	2.40	1.81	1.50	
11	1.68	3.69	2.27	22.39	5.48	1002.78	28.01	22.39	3.84	2.40	1.81	1.62	
12	2.20	3.25	2.13	6.64	19.16	270.01	28.01	19.16	3.76	2.34	1.87	1.43	
13	2.40	2.89	2.61	4.68	26.86	148.48	81.83	19.16	3.61	2.27	1.94	1.50	
14	2.34	2.68	2.75	4.06	30.32	124.29	99.56	17.06	3.69	2.34	1.94	1.20	
15	4.14	2.47	2.40	3.76	885.63	133.85	1240.75	17.06	3.61	2.27	2.34	1.14	
16	2.47	2.40	2.13	3.69	1491.65	194.18	554.69	14.02	3.84	2.27	2.20	1.81	
17	1.94	2.47	2.07	4.37	173.55	111.78	226.02	11.12	3.76	2.20	2.20	2.68	
18	1.75	2.47	2.07	4.60	76.09	99.56	292.62	5.97	3.25	2.20	2.20	2.27	
19	1.56	2.96	1.94	4.22	56.75	129.05	173.55	5.81	3.10	2.13	2.20	3.17	
20	1.56	3.69	1.87	3.91	38.73	114.88	102.59	5.64	3.10	2.13	2.13	2.68	
21	1.56	2.82	1.94	4.60	23.49	233.24	102.59	5.00	3.10	2.07	2.00	2.75	
22	1.56	2.47	1.94	12.07	16.03	153.42	99.56	5.16	3.03	2.13	1.87	2.68	
23	1.68	2.34	1.94	15.02	12.07	194.18	96.55	5.00	3.03	2.20	1.81	3.69	
24	2.54	2.96	2.13	22.39	12.07	402.88	76.09	5.00	3.03	2.13	1.87	4.92	
25	2.75	2.75	2.13	427.44	194.18	1125.48	48.85	5.48	3.03	2.13	1.75	4.37	
26	2.68	2.40	2.00	511.49	973.20	3435.05	36.29	4.53	3.17	2.07	1.68	3.10	
27	2.07	2.20	2.89	153.42	3154.36	1424.67	31.50	4.45	3.17	2.07	1.62	2.54	
28	1.87	2.13	3.17	78.95	1227.82	904.94	30.32	4.45	3.03	2.00	1.62	2.20	
29	5.32	2.20	2.40	56.75	346.81	419.22	36.29	4.37	2.96	1.94		2.13	
30	54.08	2.27	2.61	78.95	163.42	178.66	35.08	4.37	2.96	1.94		1.94	
31		2.20		124.29	133.85		102.59		2.89	1.87		1.75	
Total	109.70	204.54	65.62	1612.21	9292.52	18904.48	4260.64	746.66	109.98	71.55	54.17	68.80	35500.87 Tonday
Mean	3.66	6.60	2.19	52.01	299.76	630.15	137.44	24.89	3.55	2.31	1.93	2.22	97.26 Ton/day
Max	54.08	70.44	3.17	511.49	3154.36	3435.05	1240.75	108.69	4.45	2.82	2.34	4.92	3435.05 Ton/day
Min	1.02	2.13	1.87	1.37	5.48	99.56	28.01	4.37	2.89	1.87	1.62	1.14	1.02 Ton/day

## WATER YEAR : 2021

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Tharapha , Sa Kao (Kgt.42)

Lat 13 - 53 - 49 N Long 101 - 57 - 18 E

Location : on left bank at the bridge.

	<b>Ban Tharapha</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	2,624 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2005-Cont'd		
<b>Actual Measurement</b>	2005-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	42		
<b>R-Square</b>	0.8725		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 8.7577 QW^{0.99750}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.87	43.18	26.64	259.21	115.73	1076.83	680.02	264.40	36.65	25.77	27.07	29.25	
2	12.69	74.91	31.43	122.67	95.76	1116.10	682.18	248.81	34.47	25.77	27.94	28.81	
3	13.56	67.96	32.73	86.21	87.07	1224.83	977.99	248.81	32.73	25.33	28.38	28.81	
4	14.43	54.05	31.86	41.00	80.13	1300.32	773.33	200.72	32.30	24.89	28.81	28.38	
5	15.30	48.83	30.99	25.77	73.17	1194.63	537.40	139.59	32.30	24.46	28.81	28.38	
6	14.43	48.83	30.56	29.25	61.01	851.06	688.66	120.93	31.86	24.02	28.81	27.94	
7	13.56	126.14	30.99	202.02	47.09	571.99	946.91	146.10	31.86	23.59	29.25	28.38	
8	13.12	355.75	30.99	187.72	37.09	527.03	1131.20	231.92	31.86	23.59	29.25	28.38	
9	13.56	298.61	34.04	168.21	29.25	990.94	1011.66	293.42	31.43	23.15	29.25	28.81	
10	15.30	209.82	37.09	76.65	27.07	1212.75	710.26	645.46	31.43	23.15	29.25	29.25	
11	20.10	140.89	30.12	73.17	42.74	1288.24	589.27	399.02	30.99	23.15	29.25	29.25	
12	21.41	134.38	27.07	117.46	104.44	1363.73	457.84	192.92	30.12	23.59	29.69	29.69	
13	20.97	92.29	24.02	161.71	36.65	1333.53	421.51	139.59	29.69	23.59	30.12	29.69	
14	21.84	94.89	19.66	298.61	48.83	858.84	447.46	121.80	28.81	23.15	33.17	29.69	
15	24.02	94.89	25.77	359.21	77.52	525.30	636.81	103.57	27.51	23.15	35.34	28.81	
16	25.33	90.55	87.07	399.02	35.34	623.85	1042.74	90.55	27.51	22.72	37.09	28.38	
17	23.59	87.94	71.44	494.17	27.94	1058.71	1273.15	80.99	27.94	22.72	39.70	30.12	
18	25.77	107.91	76.65	326.32	33.60	1104.02	1463.35	74.91	28.38	22.72	43.18	34.47	
19	31.43	156.50	82.73	246.21	45.35	1285.22	1572.01	74.91	27.94	22.72	52.31	37.52	
20	33.17	207.22	75.78	155.20	49.70	1378.82	1635.38	87.07	27.94	22.72	54.05	39.26	
21	29.25	317.66	64.48	94.02	53.18	1484.48	1508.62	96.63	27.94	22.72	43.18	41.00	
22	27.07	161.71	37.52	53.18	110.52	1653.49	1055.68	86.21	27.51	22.72	35.78	49.70	
23	26.64	43.61	35.78	31.86	116.59	1677.63	788.88	74.04	27.51	22.72	31.86	73.17	
24	27.07	30.56	34.91	39.70	108.78	1433.16	682.18	63.61	27.07	22.72	30.56	118.33	
25	39.26	24.89	34.47	221.52	163.01	1076.83	591.44	45.35	27.07	23.15	30.56	94.89	
26	43.18	21.84	34.91	814.79	303.81	1091.94	463.03	31.86	27.07	24.02	29.69	37.09	
27	34.04	17.49	36.22	703.78	786.29	1270.13	309.00	26.20	26.64	24.89	29.69	32.73	
28	32.30	14.87	37.52	397.29	1119.12	1291.26	226.72	30.56	26.64	25.77	29.69	32.30	
29	34.04	59.27	43.61	209.82	1230.87	1270.13	341.90	34.04	26.20	25.77		31.86	
30	34.91	128.74	267.00	133.08	1082.87	1034.97	494.17	37.52	26.20	26.64		31.43	
31		37.09		170.81	936.55		371.33		26.20	26.64		31.43	
Total	716.21	3393.27	1464.05	6699.64	7167.07	34170.76	24512.08	4431.51	909.77	741.71	931.73	1177.20	86315.00 Tonday
Mean	23.87	109.46	48.80	216.12	231.20	1139.03	790.71	147.72	29.35	23.93	33.28	37.97	236.48 Ton/day
Max	43.18	355.75	267.00	814.79	1230.87	1677.63	1635.38	645.46	36.65	26.64	54.05	118.33	1677.63 Ton/day
Min	12.69	14.87	19.66	25.77	27.07	525.30	226.72	26.20	26.20	22.72	27.07	27.94	12.69 Ton/day

## WATER YEAR : 2021

## BANG PAKONG RIVER BASIN

## Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)

Lat 14 - 17 - 11 N Long 101 - 04 - 14 E

Location : on left bank near Wat Ban Pa Kha.

	Ban Pa Kha	Amphoe Ban Na	Changwat Nakhon Nayok
<b>Drainage Area</b>	200 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.7959		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.4622 QW^{1.90910}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.06	37.28	12.22	17.04	27.01	121.00	54.68	77.53	14.99	5.73	1.73	3.74	
2	1.98	25.05	11.52	14.99	27.01	147.50	52.23	54.68	14.99	4.21	1.73	3.74	
3	1.90	21.08	10.81	14.99	23.07	68.59	95.13	49.76	14.99	3.97	1.73	3.82	
4	1.90	19.07	10.81	14.30	21.08	42.31	147.50	44.81	17.04	3.74	1.65	3.82	
5	1.82	19.07	10.10	13.61	23.07	112.44	52.23	42.31	17.04	3.58	1.73	3.74	
6	1.90	28.96	9.39	13.61	32.82	112.44	54.68	39.80	17.04	3.43	1.65	3.66	
7	1.98	23.07	9.39	14.30	44.81	59.55	68.59	57.12	17.04	3.19	1.56	3.66	
8	2.06	21.08	8.67	27.01	42.31	112.44	57.12	68.59	14.99	2.95	1.56	4.13	
9	1.98	25.05	11.52	129.51	34.74	147.50	59.55	44.81	14.99	2.71	1.48	4.21	
10	1.98	23.07	12.22	44.81	28.96	156.42	52.23	34.74	14.99	2.55	1.48	4.59	
11	1.90	19.07	12.22	30.89	27.01	152.52	44.81	32.82	14.99	2.39	1.56	5.35	
12	1.90	14.99	12.22	27.01	28.96	117.01	42.31	30.89	14.30	2.23	1.48	5.73	
13	1.82	14.99	12.22	23.07	27.01	108.42	59.55	27.01	14.99	1.98	1.56	6.47	
14	1.90	14.30	12.92	23.07	42.31	96.29	54.68	27.01	14.30	1.73	1.73	6.47	
15	1.90	13.61	12.92	21.08	129.51	83.43	57.12	25.05	14.30	1.48	2.15	6.47	
16	1.82	13.61	12.92	44.81	59.55	62.58	190.30	25.05	14.30	1.39	2.23	6.10	
17	1.90	13.61	12.22	42.31	44.81	49.76	182.09	25.05	14.30	1.39	2.31	6.10	
18	1.90	13.61	12.22	39.80	39.80	25.05	129.51	23.07	14.30	1.39	2.31	6.10	
19	2.06	12.92	12.22	34.74	32.82	30.89	42.31	21.08	14.30	1.48	2.39	6.47	
20	2.06	12.92	17.04	30.89	30.89	32.82	42.31	21.08	14.30	1.48	2.47	6.47	
21	2.06	12.92	21.08	25.05	28.96	32.82	86.37	21.08	14.30	1.48	3.03	6.84	
22	1.98	12.92	17.04	25.05	27.01	32.82	86.37	21.08	13.61	1.56	3.58	7.21	
23	1.90	12.22	14.99	25.05	23.07	30.89	86.37	21.08	13.61	1.65	3.66	7.94	
24	1.90	12.22	14.30	25.05	25.05	54.68	57.12	21.08	12.92	1.73	3.66	7.94	
25	1.82	11.52	14.30	32.82	37.28	68.59	54.68	19.07	12.22	1.73	3.66	7.94	
26	1.73	11.52	14.30	44.81	34.74	137.97	49.76	17.04	11.52	1.82	3.74	7.94	
27	2.06	11.52	14.30	34.74	39.80	68.59	44.81	17.04	10.81	1.82	3.74	7.94	
28	2.55	12.22	14.30	30.89	42.31	57.12	39.80	17.04	9.39	1.82	3.74	7.58	
29	2.71	12.92	14.30	28.96	59.55	68.59	37.28	17.04	8.67	1.82		7.58	
30	47.29	12.92	17.04	27.01	57.12	54.68	37.28	17.04	7.94	1.82		7.21	
31		12.22		25.05	77.53		103.82		7.58	1.73		6.84	
<b>Total</b>	104.72	521.53	391.72	946.32	1219.97	2445.71	2222.59	960.85	425.05	71.98	65.30	183.80	9559.54 Tonday
<b>Mean</b>	3.49	16.82	13.06	30.53	39.35	81.52	71.70	32.03	13.71	2.32	2.33	5.93	26.19 Ton/day
<b>Max</b>	47.29	37.28	21.08	129.51	129.51	156.42	190.30	77.53	17.04	5.73	3.74	7.94	190.30 Ton/day
<b>Min</b>	1.73	11.52	8.67	13.61	21.08	25.05	37.28	17.04	7.58	1.39	1.48	3.66	1.39 Ton/day

**WATER YEAR : 2021****BANG PAKONG RIVER BASIN****Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)**

Lat 14 - 17 - 40 N Long 101 - 23 - 43 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	<b>Ban</b> Noen Hom	<b>Amphoe</b> Mueang	<b>Changwat</b> Prachin Buri
<b>Drainage Area</b>	151 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1986-Cont'd		
<b>Actual Measurement</b>	1986-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.7385		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.5174 QW^{1.40800}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	2.69	2.20	5.51	134.74	156.38	51.37	14.63	3.20	2.08	1.74	1.11	
2	0.65	2.56	2.20	79.93	81.95	118.58	32.95	14.63	3.20	2.08	1.63	1.11	
3	0.65	2.44	2.08	60.48	217.48	103.03	123.14	14.22	3.07	2.08	1.63	1.01	
4	0.83	2.44	2.08	13.41	107.41	71.96	77.91	11.06	3.07	2.08	1.63	1.01	
5	0.74	5.51	2.08	9.21	212.99	132.40	46.11	13.41	3.07	1.96	1.63	1.01	
6	0.74	4.03	2.08	10.69	307.68	81.95	25.41	13.01	2.94	1.96	1.52	1.01	
7	0.83	5.51	2.08	10.69	297.76	64.24	47.85	11.45	2.94	1.96	1.52	1.01	
8	0.83	5.21	2.08	173.84	120.85	278.23	22.56	13.81	2.94	1.96	1.52	1.01	
9	0.83	4.90	2.44	541.60	84.00	123.14	31.40	10.69	2.81	1.96	1.52	0.92	
10	1.31	2.69	5.83	79.93	75.91	212.99	25.41	9.94	2.81	1.96	1.52	0.92	
11	1.52	2.32	7.13	49.60	137.10	139.47	28.36	8.50	2.81	1.96	1.52	0.92	
12	1.52	2.32	7.13	54.96	137.10	96.56	58.62	8.50	2.69	1.96	1.41	0.92	
13	1.41	2.32	6.79	49.60	86.06	73.93	94.43	8.15	2.69	1.85	1.41	0.92	
14	1.52	2.32	6.47	39.37	231.11	51.37	111.84	7.80	2.69	1.85	1.41	0.92	
15	1.41	2.08	14.63	51.37	784.94	41.03	235.71	7.13	2.69	1.85	1.41	0.92	
16	1.41	2.08	11.83	71.96	348.24	31.40	217.48	5.51	2.56	1.85	1.41	0.92	
17	1.31	2.08	8.15	178.08	144.25	25.41	132.40	5.21	2.56	1.85	1.31	0.92	
18	1.96	1.96	5.21	109.61	94.43	13.81	114.07	5.21	2.56	1.85	1.31	0.83	
19	1.96	1.74	5.21	92.32	103.03	14.63	77.91	5.21	2.56	1.85	1.31	0.83	
20	1.85	1.74	9.21	60.48	68.07	12.61	46.11	5.21	2.44	1.85	1.31	0.83	
21	1.52	1.85	6.14	70.01	54.96	71.96	130.06	5.51	2.44	1.85	1.21	0.83	
22	1.31	1.74	5.83	94.43	25.41	62.35	100.86	5.51	2.44	1.85	1.21	0.83	
23	1.41	2.08	5.21	94.43	18.47	96.56	47.85	5.21	2.44	1.85	1.21	0.83	
24	1.41	2.08	12.22	75.91	60.48	39.37	22.56	5.21	2.32	1.74	1.21	0.83	
25	1.41	2.08	7.13	333.88	144.25	68.07	41.03	5.21	2.32	1.74	1.21	0.83	
26	1.41	2.08	7.13	168.80	384.91	292.84	22.56	4.90	2.32	1.74	1.21	0.83	
27	1.41	2.20	6.47	130.06	263.83	132.40	18.47	4.61	2.32	1.74	1.11	0.74	
28	1.96	2.20	6.14	134.74	998.94	132.40	14.63	4.03	2.20	1.74	1.11	0.74	
29	2.08	2.20	3.75	130.06	541.60	88.13	15.88	3.75	2.20	1.74		0.74	
30	2.08	2.20	3.75	77.91	116.32	77.91	13.81	3.47	2.20	1.74		0.74	
31		2.20		259.08	139.47		22.56		2.08	1.74		0.74	
Total	39.93	81.85	170.68	3311.95	6523.74	2905.11	2051.31	240.69	81.58	58.27	39.15	27.73	15531.99 Tonday
Mean	1.33	2.64	5.69	106.84	210.44	96.84	66.17	8.02	2.63	1.88	1.40	0.89	42.55 Ton/day
Max	2.08	5.51	14.63	541.60	998.94	292.84	235.71	14.63	3.20	2.08	1.74	1.11	998.94 Ton/day
Min	0.65	1.74	2.08	5.51	18.47	12.61	13.81	3.47	2.08	1.74	1.11	0.74	0.65 Ton/day

**WATER YEAR : 2021****BANG PAKONG RIVER BASIN****Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)**

Lat 14 - 24 - 25 N Long 101 - 06 - 22 E

Location : on left bank about 50 meters from the top staff gage.

	<b>Ban</b>	<b>Cha Om</b>	<b>Amphoe</b>	<b>Kaeng Khoi</b>	<b>Changwat</b>	<b>Saraburi</b>
<b>Drainage Area</b>	114	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1986-Cont'd					
<b>Actual Measurement</b>	1986-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	17					
<b>R-Square</b>	0.8448					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.4599 QW^{2.23110}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.67	0.03	0.12	3.09	66.60	7.77	11.01	0.12	0.05	0.01	0.02	
2	0.00	0.63	0.03	0.10	1.31	35.33	6.38	6.38	0.11	0.05	0.01	0.02	
3	0.00	0.46	0.02	0.09	0.46	15.94	152.95	4.05	0.11	0.05	0.02	0.02	
4	0.00	0.35	0.02	0.08	0.38	11.91	66.60	3.09	0.11	0.04	0.01	0.02	
5	0.00	0.35	0.02	0.07	0.38	35.33	23.22	1.93	0.11	0.04	0.02	0.01	
6	0.00	0.42	0.02	0.07	6.38	19.40	23.22	3.09	0.11	0.04	0.02	0.02	
7	0.00	0.31	0.02	0.09	6.38	14.87	14.87	5.74	0.11	0.04	0.01	0.02	
8	0.00	0.25	0.02	2.67	2.67	58.87	15.94	3.09	0.11	0.04	0.01	0.04	
9	0.00	0.63	0.04	13.85	1.31	58.87	13.85	1.93	0.10	0.04	0.01	0.02	
10	0.00	0.28	0.03	1.31	0.46	193.48	9.31	1.31	0.10	0.04	0.02	0.02	
11	0.00	0.19	0.03	0.63	0.46	50.29	5.14	0.83	0.10	0.03	0.02	0.02	
12	0.00	0.17	0.03	0.38	0.46	21.91	9.31	0.46	0.10	0.03	0.02	0.02	
13	0.00	0.15	0.02	0.31	0.42	11.91	14.87	0.42	0.10	0.03	0.02	0.02	
14	0.00	0.14	0.02	0.31	18.20	7.05	10.14	0.42	0.09	0.03	0.02	0.02	
15	0.00	0.11	0.02	1.05	19.40	4.57	42.45	0.35	0.08	0.02	0.02	0.01	
16	0.00	0.10	0.02	8.52	8.52	3.09	138.20	0.35	0.09	0.03	0.01	0.01	
17	0.00	0.10	0.02	5.14	4.05	2.28	37.62	0.31	0.08	0.02	0.01	0.01	
18	0.00	0.10	0.02	4.05	2.28	1.60	24.59	0.28	0.08	0.02	0.01	0.01	
19	0.00	0.10	0.01	1.60	1.31	1.93	14.87	0.28	0.09	0.02	0.01	0.02	
20	0.00	0.08	0.83	0.63	1.05	1.31	9.31	0.25	0.08	0.02	0.02	0.02	
21	0.00	0.07	0.14	1.05	1.31	1.31	6.38	0.25	0.07	0.02	0.02	0.01	
22	0.00	0.07	0.11	0.63	0.63	0.83	7.05	0.22	0.07	0.02	0.03	0.01	
23	0.00	0.07	0.10	0.46	0.42	0.63	7.77	0.19	0.07	0.02	0.02	0.01	
24	0.01	0.07	0.12	1.05	0.42	1.60	5.14	0.17	0.07	0.02	0.03	0.01	
25	0.01	0.07	0.12	12.86	0.46	19.40	3.55	0.17	0.07	0.02	0.02	0.01	
26	0.02	0.06	0.10	6.38	2.67	58.87	2.28	0.15	0.07	0.02	0.02	0.01	
27	0.02	0.05	0.09	2.67	4.05	23.22	1.60	0.15	0.07	0.02	0.02	0.01	
28	0.05	0.06	0.09	1.93	6.38	12.86	1.31	0.15	0.06	0.02	0.02	0.01	
29	17.05	0.05	0.09	1.31	17.05	8.52	0.83	0.14	0.06	0.02		0.01	
30	10.14	0.04	0.11	0.83	20.63	7.05	6.38	0.13	0.05	0.02		0.01	
31		0.04		1.60	35.33		18.20		0.05	0.01		0.01	
<b>Total</b>	27.30	8.24	2.34	71.84	168.32	750.83	701.10	47.29	2.69	0.89	0.48	0.48	1781.80 Tonday
<b>Mean</b>	0.91	0.27	0.08	2.32	5.43	25.03	22.62	1.58	0.09	0.03	0.02	0.02	4.88 Ton/day
<b>Max</b>	17.05	2.67	0.83	13.85	35.33	193.48	152.95	11.01	0.12	0.05	0.03	0.04	193.48 Ton/day
<b>Min</b>	0.00	0.04	0.01	0.07	0.38	0.63	0.83	0.13	0.05	0.01	0.01	0.01	0.00 Ton/day

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Khlong Yai at Ban Si Bua Thong , Trat (Z.10)

Lat 12 - 28 - 35 N Long 102 - 28 - 40 E

Location : on left bank at Ban Si Bua Thong

	Ban Si Bua Thong	Amphoe	Khao Saming	Changwat	Trat
<b>Drainage Area</b>	778 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1978-Cont'd				
<b>Actual Measurement</b>	1978-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	37				
<b>R-Square</b>	0.8443				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.9812 QW^{1.43330}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.10	100.28	54.50	309.18	766.58	503.88	1021.98	294.88	15.30	2.28	1.75	1.59	
2	2.19	78.32	31.48	168.36	677.73	660.06	791.95	165.04	24.71	2.84	1.67	1.59	
3	2.19	59.30	35.57	117.78	618.23	548.96	594.21	137.67	14.66	3.24	1.67	1.84	
4	2.28	41.97	31.48	113.32	503.88	462.70	653.03	123.80	11.59	2.55	1.59	4.29	
5	2.46	32.49	64.21	122.29	401.66	490.04	529.10	106.02	11.59	2.46	1.67	3.44	
6	2.84	43.07	438.51	194.56	465.41	649.52	681.28	101.70	11.59	2.28	1.51	2.65	
7	5.43	47.54	709.89	202.96	386.17	459.99	753.98	110.38	11.59	2.28	1.35	22.87	
8	5.91	31.48	1254.21	745.62	326.11	534.75	487.28	100.28	11.00	2.28	1.27	9.29	
9	13.40	30.48	1100.91	1124.47	285.47	1186.40	1017.39	94.63	7.15	2.28	1.20	5.91	
10	56.88	33.51	1945.96	1489.31	363.29	2511.14	3954.57	62.97	7.67	2.19	1.43	4.07	
11	24.71	36.61	3859.91	1767.28	540.42	3235.02	4959.39	294.88	8.20	2.19	1.84	5.43	
12	27.55	34.53	2445.15	1426.06	614.78	1733.53	6696.06	165.04	8.20	1.92	3.44	6.65	
13	37.67	30.48	1862.85	1288.54	691.96	962.83	6775.19	137.67	7.67	1.75	21.96	6.40	
14	23.78	55.69	1293.46	1726.80	1143.42	839.12	6082.11	123.80	6.90	1.67	49.83	6.40	
15	15.30	96.04	632.08	1249.33	1780.84	873.94	5615.52	106.02	6.15	1.59	49.83	5.20	
16	13.40	215.76	632.08	918.06	1471.98	813.29	5812.44	101.70	6.15	1.59	11.00	4.07	
17	17.27	202.96	913.62	717.09	691.96	663.58	5137.92	110.38	6.15	1.67	6.40	80.97	
18	9.29	131.45	852.13	512.25	512.25	775.01	3235.02	100.28	5.91	3.86	6.65	38.73	
19	9.85	147.16	551.82	498.33	449.21	809.01	1220.16	94.63	5.43	4.74	6.15	19.31	
20	22.87	106.02	577.72	509.45	365.81	935.89	737.29	62.97	5.43	4.51	4.29	21.07	
21	19.31	58.09	476.31	495.56	333.45	980.91	587.41	38.73	4.96	4.74	4.07	14.66	
22	10.42	123.80	487.28	422.60	509.45	1535.82	900.33	36.61	4.96	1.67	12.18	25.64	
23	7.67	104.57	523.46	699.12	614.78	1760.52	699.12	32.49	4.96	1.84	6.90	65.46	
24	17.27	70.52	594.21	653.03	601.05	985.45	495.56	15.95	5.43	2.01	4.74	97.44	
25	46.41	73.09	404.26	2586.02	1283.61	2094.01	401.66	25.64	5.67	1.75	3.24	39.80	
26	15.30	101.70	340.84	1283.61	1699.96	2594.38	292.52	27.55	6.40	1.59	2.55	18.63	
27	18.63	235.38	302.00	1234.72	1699.96	2058.46	215.76	23.78	5.91	1.59	2.10	12.18	
28	73.09	383.61	248.75	1225.01	1679.92	1693.28	194.56	20.19	5.43	2.10	1.84	10.42	
29	126.84	178.43	182.17	843.45	900.33	1630.13	215.76	19.31	4.74	2.01		13.40	
30	383.61	110.38	280.80	1176.81	639.04	926.96	207.20	17.27	4.29	1.67		16.61	
31		75.69		1138.67	670.64		175.06		3.65	1.75		17.95	
Total	1015.92	3070.40	23127.62	26959.64	23689.35	35908.58	61140.81	2852.26	249.44	72.89	214.12	583.96	178884.99 Ton/day
Mean	33.86	99.05	770.92	869.67	764.17	1196.95	1972.28	95.08	8.05	2.35	7.65	18.84	490.10 Ton/day
Max	383.61	383.61	3859.91	2586.02	1780.84	3235.02	6775.19	294.88	24.71	4.74	49.83	97.44	6775.19 Ton/day
Min	2.10	30.48	31.48	113.32	285.47	459.99	175.06	15.95	3.65	1.59	1.20	1.59	1.20 Ton/day

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Puk , Chanthaburi (Z.13)

Lat 12 - 45 - 48 N Long 102 - 08 - 17 E

Location : on left bank at Ban Puk

	Ban Puk	Amphoe Makham	Changwat Chanthaburi
<b>Drainage Area</b>	648 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1978-Cont'd		
<b>Actual Measurement</b>	1978-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	29		
<b>R-Square</b>	0.8648		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.6426 QW^{1.51060}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.07	51.45	27.43	19.27	144.78	391.98	588.07	108.37	8.67	1.56	1.83	2.72	
2	1.07	39.20	25.72	19.27	116.15	263.04	535.39	86.14	8.67	1.31	1.83	2.72	
3	1.07	65.71	20.82	16.87	112.23	407.35	407.35	72.32	8.21	1.19	1.69	2.72	
4	0.96	48.91	17.76	24.05	82.61	263.04	504.59	59.33	7.31	0.96	1.69	3.38	
5	1.07	29.17	27.43	65.71	104.54	243.28	438.69	48.91	6.87	0.96	1.69	3.38	
6	2.11	25.72	39.20	43.96	104.54	276.49	1341.43	46.41	6.44	0.74	1.56	3.38	
7	2.41	36.88	46.41	46.41	89.73	256.39	1241.17	56.66	5.62	0.59	1.56	3.72	
8	2.41	29.17	39.20	68.99	75.70	446.64	484.40	51.45	4.83	0.55	1.43	5.62	
9	2.72	25.72	29.17	170.97	65.71	1320.91	1634.16	54.04	4.83	0.42	1.83	5.62	
10	3.04	43.96	59.33	339.79	211.54	1824.66	2212.64	46.41	4.83	0.19	2.72	5.62	
11	2.72	41.56	59.33	930.41	157.69	2002.97	1159.44	41.56	4.45	0.06	2.41	5.62	
12	3.38	41.56	56.66	800.74	556.26	1152.11	1137.48	34.62	4.08	0.00	3.04	6.02	
13	3.72	46.41	65.71	318.20	290.18	504.59	3008.32	27.43	3.72	0.37	3.72	6.02	
14	7.31	41.56	97.04	236.81	199.26	800.74	3120.52	25.72	3.38	0.96	12.68	5.22	
15	9.14	43.96	89.73	175.47	494.46	1341.43	2337.14	25.72	3.04	1.19	10.36	4.08	
16	7.31	46.41	75.70	193.22	494.46	1456.18	2062.15	20.82	2.72	1.07	9.14	3.72	
17	8.67	86.14	59.33	230.40	290.18	857.56	1226.17	20.82	2.72	0.96	9.14	4.45	
18	9.14	59.33	48.91	157.69	224.05	504.59	664.58	20.82	2.11	0.96	7.75	4.83	
19	9.14	56.66	41.56	132.25	175.47	399.64	494.46	24.05	1.83	0.96	6.44	5.22	
20	9.63	48.91	36.88	166.50	153.35	399.64	399.64	20.82	1.83	0.96	5.62	6.87	
21	7.75	48.91	72.32	199.26	140.56	901.03	347.09	19.27	1.56	1.07	6.02	6.87	
22	7.31	36.88	56.66	187.24	116.15	664.58	318.20	17.76	1.56	1.19	6.44	6.02	
23	6.44	30.95	65.71	162.08	116.15	525.05	318.20	16.87	1.69	1.43	5.62	6.02	
24	6.87	25.72	48.91	144.78	116.15	464.49	297.10	6.44	1.69	1.69	5.62	6.87	
25	20.82	22.42	36.88	153.35	116.15	1051.08	205.37	8.21	2.11	1.69	4.45	7.31	
26	11.12	19.27	32.77	170.97	484.40	2430.84	132.25	11.89	2.72	1.56	3.38	6.87	
27	9.63	39.20	29.17	153.35	1461.47	3089.78	112.23	11.89	2.72	1.43	2.72	6.02	
28	10.36	162.08	27.43	136.38	1295.42	2197.43	108.37	11.12	2.72	1.83	2.41	5.22	
29	17.76	56.66	25.72	124.11	422.92	1472.07	97.04	10.36	2.41	1.69	4.45	4.45	
30	112.23	41.56	22.42	205.37	339.79	588.07	86.14	9.63	1.83	1.69	6.02	6.02	
31		34.62		175.47	446.64		82.61		1.69	1.56		6.87	
Total	298.38	1426.66	1381.31	5969.34	9198.69	28497.65	27102.39	1015.86	118.86	32.79	124.79	159.47	75326.19 Tonday
Mean	9.95	46.02	46.04	192.56	296.73	949.92	874.27	33.86	3.83	1.06	4.46	5.14	206.37 Ton/day
Max	112.23	162.08	97.04	930.41	1461.47	3089.78	3120.52	108.37	8.67	1.83	12.68	7.31	3120.52 Ton/day
Min	0.96	19.27	17.76	16.87	65.71	243.28	82.61	6.44	1.56	0.00	1.43	2.72	0.00 Ton/day

**WATER YEAR : 2021****EAST COAST - GULF BASIN****Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)**

Lat 12 - 44 - 40 N Long 102 - 12 - 23 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	<b>Ban Chaman</b>	<b>Amphoe Makham</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	221 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1978-Cont'd		
<b>Actual Measurement</b>	1978-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.8537		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.7370 QW^{1.39190}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	8.39	6.22	11.55	82.38	117.10	227.55	65.70	11.96	3.34	3.49	3.64	
2	3.49	8.77	5.54	10.73	58.75	107.72	195.78	60.71	11.14	3.34	3.49	3.20	
3	3.49	9.93	3.94	9.93	144.85	388.41	192.13	55.84	10.73	3.49	3.94	3.05	
4	2.91	7.65	3.94	9.54	73.91	117.10	201.29	45.53	10.33	3.34	3.94	4.88	
5	3.20	5.20	5.20	7.65	88.17	117.10	204.98	41.05	9.93	3.34	4.09	4.40	
6	3.49	6.92	9.15	15.87	97.05	80.24	366.41	33.32	9.54	3.34	3.49	8.39	
7	4.09	8.02	36.70	35.00	74.95	80.24	229.46	76.00	9.15	3.49	3.49	3.20	
8	3.94	8.02	30.03	46.44	50.14	233.29	170.65	128.33	9.15	3.34	3.49	7.65	
9	5.20	5.54	83.82	128.33	40.17	447.84	710.08	40.17	8.77	3.34	3.49	4.56	
10	8.02	5.88	254.69	52.02	32.49	690.44	620.42	32.49	8.77	3.49	3.94	4.24	
11	11.55	12.59	126.71	652.28	167.14	219.95	360.97	30.85	8.77	3.34	3.49	5.20	
12	9.93	11.96	91.10	165.40	186.69	72.87	272.59	30.03	8.02	3.34	4.09	5.88	
13	8.02	11.55	129.95	112.38	241.01	42.83	1531.02	26.07	8.02	3.34	6.92	4.24	
14	9.54	8.02	115.52	70.80	155.03	112.38	806.45	20.79	7.28	3.34	8.77	3.94	
15	6.22	8.02	66.71	49.21	410.77	334.63	1735.36	19.35	7.28	3.05	6.57	3.79	
16	4.24	8.02	83.82	60.71	201.29	321.94	897.75	22.26	6.92	3.34	5.88	3.34	
17	5.20	11.96	121.88	45.53	155.03	221.84	396.75	22.26	6.57	3.34	4.56	7.28	
18	7.28	11.96	103.11	66.71	78.11	179.51	374.62	22.26	6.92	3.79	3.79	8.77	
19	4.56	9.15	48.28	73.91	64.69	214.30	317.74	24.53	8.02	3.49	4.40	7.65	
20	6.22	12.59	57.77	117.10	48.28	204.98	250.76	20.79	5.54	3.49	3.94	11.14	
21	5.20	6.57	158.46	272.59	32.49	336.76	229.46	17.23	5.54	3.49	9.15	9.93	
22	6.57	9.93	103.11	92.58	33.32	515.57	210.56	15.87	4.40	3.49	15.87	11.96	
23	7.65	8.77	133.22	95.56	43.72	491.70	186.69	15.19	3.64	3.49	4.56	13.23	
24	7.65	10.73	46.44	81.31	35.84	341.03	143.17	17.23	3.34	3.34	4.24	24.53	
25	9.93	8.39	35.84	146.53	91.10	717.98	97.05	15.87	3.49	3.05	4.56	15.19	
26	8.77	8.02	35.00	68.75	305.23	1850.50	69.77	15.19	3.64	3.49	4.40	11.55	
27	5.20	12.59	27.63	91.10	757.84	769.91	67.73	13.88	3.49	3.94	3.79	9.54	
28	17.93	28.43	26.85	68.75	410.77	530.64	62.69	13.23	3.34	4.09	3.94	6.22	
29	30.85	41.93	23.01	89.63	163.66	380.12	62.69	13.23	3.34	3.79		7.28	
30	17.23	9.93	14.53	161.92	204.98	260.62	56.80	13.23	3.34	3.49		10.73	
31		8.39		148.22	214.30		55.84		3.49	3.49		11.96	
Total	230.77	333.82	1988.17	3058.03	4744.15	10499.54	11305.21	968.48	213.86	106.86	139.77	240.56	33829.22 Ton/day
Mean	7.69	10.77	66.27	98.65	153.04	349.98	364.68	32.28	6.90	3.45	4.99	7.76	92.68 Ton/day
Max	30.85	41.93	254.69	652.28	757.84	1850.50	1735.36	128.33	11.96	4.09	15.87	24.53	1850.50 Ton/day
Min	2.91	5.20	3.94	7.65	32.49	42.83	55.84	13.23	3.34	3.05	3.49	3.05	2.91 Ton/day

**WATER YEAR : 2021****EAST COAST - GULF BASIN****Khlong Phlo at Ban Chamkho , Rayong (Z.18)**

Lat 12 - 56 - 54 N Long 101 - 40 - 41 E

Location : on right bank at the bridge on road.

	<b>Ban Chamkho</b>	<b>Amphoe Khao Chamao</b>	<b>Changwat Rayong</b>
<b>Drainage Area</b>	205 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1988-Cont'd		
<b>Actual Measurement</b>	1988-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	9		
<b>R-Square</b>	0.8063		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.0968 QW^{1.46830}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	19.40	13.43	11.63	5.44	15.33	136.94	13.43	12.52	0.00	0.00	0.00	
2	0.00	18.35	9.11	13.43	5.44	14.37	333.65	12.52	12.52	0.00	0.00	0.00	
3	0.00	19.40	6.12	14.37	6.12	11.63	298.01	12.52	12.52	0.00	0.00	0.00	
4	0.00	17.32	6.82	13.43	5.44	13.43	289.34	11.63	12.52	0.00	0.00	0.00	
5	0.00	17.32	9.92	14.37	4.79	24.96	293.67	11.63	12.52	0.00	0.00	0.00	
6	0.00	34.90	12.52	22.68	4.79	38.93	329.11	18.35	12.52	0.00	0.00	0.00	
7	0.00	38.93	9.92	32.30	4.17	63.05	298.01	26.14	12.52	0.00	0.00	0.00	
8	0.00	20.47	8.32	34.90	4.17	53.51	285.04	23.81	11.63	0.00	0.00	0.00	
9	0.00	19.40	6.82	40.31	4.17	108.68	215.64	21.56	11.63	0.00	0.00	0.00	
10	0.00	15.33	8.32	59.81	3.59	82.00	189.19	14.37	11.63	0.00	0.00	0.00	
11	0.00	15.33	10.76	43.12	3.59	26.14	127.26	19.40	11.63	0.00	0.00	0.00	
12	0.00	13.43	11.63	23.81	4.79	24.96	178.24	17.32	11.63	0.00	0.00	0.00	
13	0.00	9.11	8.32	24.96	4.79	21.56	204.15	15.33	11.63	0.00	0.00	0.00	
14	0.00	6.82	15.33	23.81	4.79	23.81	50.46	15.33	11.63	0.00	0.00	0.00	
15	0.00	6.12	13.43	36.22	6.82	17.32	46.00	15.33	11.63	0.00	0.00	0.00	
16	0.00	6.12	6.82	24.96	24.96	26.14	41.71	14.37	14.37	0.00	0.00	0.00	
17	0.00	7.56	11.63	14.37	20.47	22.68	26.14	14.37	0.00	0.00	0.00	0.00	
18	0.00	16.32	24.96	13.43	16.32	19.40	26.14	14.37	0.00	0.00	0.00	0.00	
19	0.00	15.33	21.56	9.11	15.33	15.33	24.96	14.37	0.00	0.00	0.00	0.00	
20	0.00	16.32	17.32	6.82	16.32	15.33	24.96	13.43	0.00	0.00	0.00	0.00	
21	0.00	16.32	15.33	6.12	19.40	20.47	58.21	13.43	0.00	0.00	0.00	0.00	
22	0.00	20.47	15.33	5.44	19.40	69.73	643.16	13.43	0.00	0.00	0.00	0.00	
23	0.00	19.40	15.33	4.79	23.81	38.93	164.03	13.43	0.00	0.00	0.00	0.00	
24	0.00	15.33	11.63	4.17	23.81	38.93	140.23	13.43	0.00	0.00	0.00	0.00	
25	0.00	12.52	9.11	6.82	44.55	83.82	46.00	13.43	0.00	0.00	0.00	0.00	
26	0.00	9.92	6.82	6.12	80.21	302.39	26.14	13.43	0.00	0.00	0.00	0.00	
27	0.00	11.63	6.12	5.44	80.21	239.32	23.81	13.43	0.00	0.00	0.00	0.00	
28	0.00	23.81	6.12	4.79	306.78	53.51	18.35	13.43	0.00	0.00	0.00	0.00	
29	0.00	21.56	6.12	4.79	211.78	53.51	15.33	12.52	0.00	0.00	0.00	0.00	
30	22.68	22.68	12.52	6.82	14.37	51.97	15.33	12.52	0.00	0.00	0.00	0.00	
31		18.35		6.12	14.37		14.37		0.00	0.00		0.00	
<b>Total</b>	22.68	525.27	337.49	539.26	1004.99	1591.14	4583.58	452.06	195.05	0.00	0.00	0.00	9251.52 Tonday
<b>Mean</b>	0.76	16.94	11.25	17.40	32.42	53.04	147.86	15.07	6.29	0.00	0.00	0.00	25.35 Ton/day
<b>Max</b>	22.68	38.93	24.96	59.81	306.78	302.39	643.16	26.14	14.37	0.00	0.00	0.00	643.16 Ton/day
<b>Min</b>	0.00	6.12	6.12	4.17	3.59	11.63	14.37	11.63	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Khlung Hin Dat at Ban Pong Rong Sen , Chanthaburi (Z.21)

Lat 12 - 47 - 31 N Long 102 - 15 - 17 E

Location : on left bank at the bridge on highway.

	<b>Ban Pong Rong Sen</b>	<b>Amphoe Makham</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	72 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1984-Cont'd		
<b>Actual Measurement</b>	1984-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.8237		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.7724 QW^{1.47630}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.41	7.43	7.43	7.71	36.67	50.07	151.05	73.40	8.88	4.32	5.04	5.55	
2	2.98	8.29	7.71	8.29	32.52	61.93	130.71	33.88	8.29	4.56	3.85	5.04	
3	2.98	6.88	7.71	6.60	111.34	157.03	241.28	22.26	8.29	5.04	5.29	6.33	
4	3.19	6.33	7.15	6.88	46.98	42.46	151.05	20.67	7.71	5.04	5.55	6.33	
5	3.41	6.07	7.15	6.07	43.95	36.67	204.22	19.90	7.71	4.56	5.55	6.33	
6	3.63	6.88	20.67	8.88	39.53	26.38	151.05	18.37	7.43	4.32	5.29	6.60	
7	3.63	7.15	56.44	10.72	27.23	27.23	142.22	18.37	7.71	5.04	5.55	5.29	
8	4.08	6.88	22.26	18.37	23.07	200.96	119.52	32.52	7.71	5.04	5.29	5.55	
9	4.56	6.33	15.44	17.62	19.90	116.77	475.14	19.90	7.43	5.04	5.29	6.07	
10	7.43	6.60	191.25	33.88	19.90	347.99	251.72	13.35	7.43	5.55	5.81	4.80	
11	6.07	6.33	51.64	351.89	73.40	125.07	241.28	16.88	7.15	5.04	6.33	5.81	
12	5.29	2.77	127.88	43.95	39.53	71.06	251.72	16.16	7.15	5.04	7.43	6.07	
13	6.88	5.04	116.77	48.52	75.77	64.18	416.14	16.16	7.15	4.80	17.62	5.81	
14	7.71	7.15	56.44	28.09	39.53	71.06	214.13	16.16	7.15	4.08	10.10	6.33	
15	5.29	9.48	31.17	19.90	197.70	139.31	913.25	14.73	6.88	3.85	8.88	6.33	
16	4.32	11.36	56.44	19.90	68.74	71.06	258.77	14.04	6.60	4.08	8.29	6.88	
17	3.63	18.37	35.27	19.90	33.88	58.07	210.81	14.04	6.60	4.08	7.43	9.48	
18	4.08	15.44	21.46	25.54	32.52	50.07	262.31	14.04	6.33	4.08	7.43	8.88	
19	5.55	19.90	17.62	27.23	25.54	93.00	224.19	14.04	6.33	3.85	7.15	7.43	
20	6.88	16.16	16.88	125.07	22.26	87.96	204.22	12.68	6.07	3.63	6.88	11.36	
21	6.60	8.88	20.67	114.04	20.67	151.05	163.09	12.01	5.55	4.56	8.29	8.29	
22	7.15	15.44	19.90	31.17	38.09	336.38	181.71	11.36	5.29	4.32	8.88	7.71	
23	7.71	9.48	19.13	32.52	25.54	367.63	125.07	11.36	5.29	4.32	7.43	9.48	
24	7.71	8.88	14.73	78.16	20.67	210.81	75.77	10.72	4.56	5.55	6.88	14.04	
25	8.29	7.71	13.35	68.74	136.42	584.25	33.88	10.10	5.81	10.10	5.04	10.10	
26	8.29	7.43	13.35	40.99	85.48	702.82	27.23	10.10	4.56	5.04	5.81	8.88	
27	16.16	24.71	12.68	40.99	255.24	298.60	25.54	9.48	4.32	5.04	5.81	7.43	
28	32.52	20.67	10.72	29.84	93.00	217.47	24.71	9.48	4.56	7.15	7.15	6.88	
29	22.26	12.68	9.48	71.06	39.53	172.32	23.88	9.48	4.32	5.55		7.71	
30	16.16	9.48	9.48	114.04	133.55	151.05	22.26	8.88	4.80	5.55		7.43	
31		8.29		75.77	145.14		33.88		4.56	5.04		6.33	
Total	227.85	314.49	1018.27	1532.33	2003.29	5090.71	5951.80	524.52	199.62	153.26	195.34	226.55	17438.03 Tonday
Mean	7.59	10.14	33.94	49.43	64.62	169.69	191.99	17.48	6.44	4.94	6.98	7.31	47.78 Ton/day
Max	32.52	24.71	191.25	351.89	255.24	702.82	913.25	73.40	8.88	10.10	17.62	14.04	913.25 Ton/day
Min	2.98	2.77	7.15	6.07	19.90	26.38	22.26	8.88	4.32	3.63	3.85	4.80	2.77 Ton/day



**WATER YEAR : 2021****EAST COAST - GULF BASIN****Khlong Aeng at Ban Kho Lae , Trat (Z.45)**

Lat 12 - 37 - 05 N Long 102 - 28 - 30 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

	<b>Ban Kho Lae</b>	<b>Amphoe Bo Rai</b>	<b>Changwat Trat</b>
<b>Drainge Area</b>	61 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	35		
<b>R-Square</b>	0.9283		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.4823 QW^{2.23300}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	4.32	2.72	5.12	51.52	161.20	70.14	15.28	2.27	0.99	0.57	0.53	
2	0.08	2.95	2.07	4.47	45.35	86.20	65.18	12.53	2.17	0.91	0.57	0.57	
3	0.06	2.27	1.86	4.00	39.60	55.88	104.12	10.66	2.07	0.85	0.53	0.68	
4	0.14	1.77	1.77	3.73	29.39	41.47	75.29	8.96	1.97	0.85	0.53	1.12	
5	0.57	1.52	2.07	3.60	25.39	91.97	55.88	8.42	1.97	0.85	0.48	0.74	
6	2.61	1.86	3.60	3.87	21.70	58.13	47.35	9.51	1.97	0.74	0.44	4.47	
7	2.17	1.60	4.77	10.07	19.15	75.29	32.61	6.94	1.86	0.79	0.44	3.34	
8	1.12	1.26	6.03	23.51	16.02	141.88	24.44	7.91	1.77	0.79	0.44	1.68	
9	2.83	1.26	6.94	130.94	14.56	113.78	396.43	6.03	1.77	0.74	0.48	1.19	
10	2.83	1.86	190.54	181.88	45.35	387.72	145.63	5.44	1.68	0.74	0.57	1.34	
11	1.60	1.77	53.67	242.19	113.78	203.95	353.94	5.12	1.60	0.68	0.85	1.34	
12	2.72	1.68	169.30	248.92	55.88	120.48	194.96	5.12	1.68	0.74	4.00	1.60	
13	3.34	2.95	104.12	298.89	86.20	134.53	169.30	4.77	1.52	0.68	3.34	1.52	
14	1.86	7.41	30.98	117.11	70.14	104.12	107.29	4.62	1.60	0.63	3.34	1.26	
15	1.44	7.41	20.83	75.29	141.88	107.29	1936.54	2.95	1.52	0.63	2.61	1.12	
16	1.12	4.00	43.38	169.30	65.18	94.93	345.76	4.18	1.44	0.63	1.44	3.19	
17	0.91	3.34	60.43	72.69	45.35	80.64	199.43	3.87	1.34	0.63	1.97	7.41	
18	0.85	3.19	58.13	80.64	37.79	60.43	149.44	3.87	1.34	0.57	2.07	3.73	
19	1.12	3.47	36.01	62.78	27.85	177.63	113.78	3.73	1.26	0.57	1.34	2.47	
20	1.26	2.17	21.70	83.40	25.39	134.53	89.06	3.73	1.06	0.57	1.06	2.61	
21	0.99	2.07	62.78	70.14	62.78	177.63	120.48	3.47	1.19	0.63	1.44	2.17	
22	0.85	2.95	41.47	83.40	72.69	298.89	72.69	3.34	1.19	0.79	1.26	4.18	
23	0.74	2.47	32.61	117.11	53.67	210.07	51.52	3.07	1.19	0.74	0.99	5.28	
24	0.91	2.07	19.15	94.93	43.38	127.40	41.47	3.07	1.26	0.74	0.85	4.62	
25	1.34	4.47	13.87	141.88	169.30	450.95	32.61	2.83	1.34	0.57	0.74	2.83	
26	0.99	5.44	8.96	77.94	177.63	242.19	26.36	2.61	1.26	0.53	0.63	2.07	
27	2.95	23.51	6.48	117.11	199.43	161.20	23.51	2.47	1.19	0.57	0.57	1.68	
28	2.37	10.66	5.44	70.14	141.88	123.92	30.98	2.37	1.12	1.19	0.57	1.86	
29	14.56	4.47	4.92	104.12	89.06	89.06	21.70	2.37	1.06	0.79		1.86	
30	9.51	3.34	7.91	101.00	67.63	91.97	18.34	2.37	0.99	0.74		2.95	
31		3.34		65.18	58.13		19.15		0.99	0.63		2.83	
Total	63.92	122.85	1024.51	2865.35	2113.05	4405.33	5135.38	161.61	46.64	22.50	34.12	74.24	16069.50 Tonday
Mean	2.13	3.96	34.15	92.43	68.16	146.84	165.66	5.39	1.50	0.73	1.22	2.39	44.03 Ton/day
Max	14.56	23.51	190.54	298.89	199.43	450.95	1936.54	15.28	2.27	1.19	4.00	7.41	1936.54 Ton/day
Min	0.06	1.26	1.77	3.60	14.56	41.47	18.34	2.37	0.99	0.53	0.44	0.53	0.06 Ton/day

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Khlong Wang Suan Luang at Ban Pra Gad , Chanthaburi (Z.63)

Lat 12 - 56 - 47 N Long 101 - 52 - 30 E

Location : on right bank at the bridge on highway.

	Ban Pra Gad	Amphoe Kaeng Hang Maeo	Changwat Chanthaburi
<b>Drainage Area</b>	1,125 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2018-Cont'd		
<b>Actual Measurement</b>	2018-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.9263		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.3614 QW^{1.78900}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.42	337.62	86.72	136.70	103.31	256.67	687.84	75.46	34.58	28.99	41.63		
2	71.42	164.42	72.76	74.10	78.21	245.08	538.63	72.76	33.62	47.02	40.59		
3	71.42	151.20	66.18	56.24	83.84	239.38	645.08	66.18	32.67	48.14	40.59		
4	72.76	136.70	62.37	44.83	72.76	126.25	593.33	59.89	44.83	49.26	39.56		
5	71.42	133.18	62.37	43.75	83.84	253.75	190.75	57.45	49.26	49.26	39.56		
6	45.92	211.77	108.05	175.63	83.84	209.09	1890.91	75.46	49.26	49.26	38.54		
7	35.55	305.33	112.89	233.74	67.48	311.67	888.99	88.17	39.56	49.26	38.54		
8	35.55	214.46	74.10	247.96	52.70	919.57	299.04	63.63	33.62	49.26	47.02		
9	57.45	242.23	66.18	233.74	34.58	2402.05	253.75	108.05	32.67	50.39	51.54		
10	39.56	268.48	68.78	410.04	14.91	1231.37	239.38	106.46	33.62	50.39	53.87		
11	35.55	173.17	68.78	1057.32	12.51	1505.17	334.33	76.83	33.62	50.39	52.70		
12	35.55	311.67	58.66	1623.28	43.75	524.12	989.51	68.78	44.83	50.39	43.75		
13	37.53	203.77	59.89	318.07	11.15	277.50	418.71	64.90	49.26	50.39	40.59		
14	45.92	151.20	106.46	271.47	3.66	423.08	704.19	61.12	50.39	50.39	39.56		
15	40.59	147.52	97.13	198.52	68.78	1391.02	242.23	57.45	72.76	51.54	40.59		
16	38.54	214.46	75.46	201.14	106.46	1391.02	392.24	53.87	44.83	51.54	40.59		
17	36.53	331.05	85.27	153.06	35.55	655.66	367.90	52.70	41.63	51.54	40.59		
18	36.53	151.20	119.49	104.88	8.26	2265.78	289.72	51.54	41.63	51.54	40.59		
19	38.54	140.27	86.72	82.41	8.26	870.87	214.46	52.70	41.63	51.54	40.59		
20	37.53	149.35	70.09	78.21	175.63	509.78	85.27	51.54	42.69	51.54	38.54		
21	35.55	134.93	98.66	71.42	108.05	1142.89	56.24	49.26	42.69	53.87	41.63		
22	34.58	121.16	83.84	62.37	28.99	788.45	112.89	47.02	42.69	48.14	41.63		
23	34.58	109.66	62.37	63.63	44.83	782.71	45.92	44.83	42.69	45.92	39.56		
24	32.67	94.10	56.24	59.89	17.51	666.31	23.85	44.83	42.69	44.83	49.26		
25	52.70	86.72	51.54	131.43	12.97	1641.80	18.05	42.69	43.75	42.69	52.70		
26	74.10	82.41	48.14	153.06	178.12	4734.86	13.93	40.59	39.56	40.59	52.70		
27	55.05	136.70	44.83	127.97	888.99	3023.37	24.47	40.59	33.62	39.56	52.70		
28	67.48	321.30	43.75	89.64	952.69	3844.70	74.10	35.55	30.81	55.05	52.70		
29	72.76	126.25	43.75	974.71	578.18	1391.02	74.10	35.55	28.11	47.02			
30	209.09	97.13	51.54	431.87	211.77	660.97	66.18	37.53	27.23	44.83			
31		86.72		136.70	134.93		66.18		25.73	42.69			
<b>Total</b>	1623.84	5536.13	2193.01	8047.78	4306.51	34685.96	10842.17	1783.38	1246.53	1487.22	1232.41		72984.94 Tonday
<b>Mean</b>	54.13	178.58	73.10	259.61	138.92	1156.20	349.75	59.45	40.21	47.97	44.01		218.52 Ton/day
<b>Max</b>	209.09	337.62	119.49	1623.28	952.69	4734.86	1890.91	108.05	72.76	55.05	53.87		4734.86 Ton/day
<b>Min</b>	32.67	82.41	43.75	43.75	3.66	126.25	13.93	35.55	25.73	28.99	38.54		3.66 Ton/day

## WATER YEAR : 2021

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Tha Luang , Chanthaburi (Z.64)

Lat 12 - 39 - 26 N Long 102 - 09 - 16 E

Location : on right bank at the bridge on highway.

	Ban Tha Luang	Amphoe Makham	Changwat Chanthaburi
<b>Drainage Area</b>	982 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2019-Cont'd		
<b>Actual Measurement</b>	2019-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.8450		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.1762 QW^{1.19920}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.97	43.81	35.09	251.62	422.63	1251.34	1331.83	572.09	918.65	1057.70	792.59	1158.95	
2	9.13	35.09	46.04	236.86	346.23	792.59	1308.38	478.20	908.85	1067.76	784.21	1128.41	
3	3.88	59.78	35.09	256.58	403.30	1426.32	1017.64	435.60	775.86	1057.70	759.19	1148.75	
4	2.96	37.24	17.61	321.34	358.78	1128.41	1220.41	556.25	612.00	1047.66	742.58	1210.13	
5	2.91	30.86	13.26	422.63	327.54	784.21	918.65	580.03	572.09	1047.66	717.78	1273.33	
6	2.96	41.60	103.16	660.47	396.88	800.97	2114.97	644.25	603.98	1027.63	701.33	1343.58	
7	6.79	55.14	494.76	2058.73	352.50	742.58	2489.29	684.94	775.86	1007.67	660.47	1367.14	
8	14.97	59.78	390.49	2356.71	266.54	1007.67	1414.45	660.47	889.29	997.71	620.04	1343.58	
9	48.29	55.14	59.78	2489.29	256.58	2473.38	2016.72	556.25	1017.64	987.77	580.03	1402.60	
10	129.25	48.29	221.27	2385.43	580.03	3675.88	4707.79	509.19	1108.13	977.85	572.09	1414.45	
11	241.76	64.49	896.61	3222.05	987.77	4400.50	3927.49	485.92	1158.95	958.05	595.98	1308.38	
12	331.67	66.86	823.81	2892.52	1850.15	3255.32	3540.39	516.98	1098.02	928.47	660.47	1220.41	
13	48.29	59.78	494.76	1726.82	1251.34	1618.41	6211.15	767.51	1057.70	899.06	734.30	1148.75	
14	156.26	52.84	241.76	1169.15	1007.67	1686.03	6422.38	734.30	1067.76	879.53	1189.61	1077.83	
15	303.91	50.56	147.16	767.51	1308.38	2428.62	5709.08	701.33	1047.66	860.08	1509.87	997.71	
16	207.79	57.45	111.74	580.03	1919.27	2859.90	5371.78	693.12	889.29	834.66	1570.02	918.65	
17	255.59	90.49	103.16	485.92	1128.41	2157.31	3890.04	948.17	958.05	809.37	1521.86	1017.64	
18	269.54	116.08	717.78	435.60	742.58	1355.35	2428.62	1241.02	977.85	792.59	1414.45	1189.61	
19	174.71	86.34	709.54	429.11	588.00	1047.66	1645.41	693.12	948.17	775.86	1308.38	1331.83	
20	184.06	103.16	660.47	403.30	485.92	1067.76	1220.41	709.54	889.29	750.87	1210.13	1545.91	
21	203.00	107.44	595.98	377.75	478.20	1808.88	1108.13	809.37	938.31	734.30	1067.76	1686.03	
22	203.00	74.07	485.92	377.75	377.75	2072.77	1108.13	899.06	987.77	742.58	1179.38	1533.88	
23	198.24	37.24	455.18	442.11	390.49	2143.18	958.05	792.59	1047.66	775.86	1273.33	1343.58	
24	285.63	17.61	429.11	524.80	352.50	1754.11	860.08	750.87	1098.02	800.97	1037.64	1118.26	
25	255.59	17.61	409.72	556.25	580.03	2002.75	734.30	612.00	1148.75	809.37	1017.64	1169.15	
26	248.66	25.90	409.72	660.47	1863.94	4688.48	652.35	726.03	1158.95	809.37	1087.91	1087.91	
27	234.90	41.60	455.18	548.36	3188.83	5490.44	612.00	1037.64	1087.91	792.59	1138.58	987.77	
28	207.79	331.67	333.75	429.11	3946.24	4765.78	580.03	1230.71	1128.41	792.59	1169.15	899.06	
29	124.83	170.06	321.34	409.72	2313.73	3761.00	580.03	1138.58	1179.38	800.97		851.60	
30	548.36	74.07	290.68	652.35	1261.68	2143.18	556.25	1017.64	1199.87	792.59		851.60	
31		26.85		572.09	1378.94		501.41		1148.75	792.59		826.22	
Total	4919.69	2138.90	10509.92	29102.43	31112.83	66590.78	67157.64	22182.77	30398.87	27409.43	27616.77	36902.70	356042.73 Tonday
Mean	163.99	69.00	350.33	938.79	1003.64	2219.69	2166.38	739.43	980.61	884.18	986.31	1190.41	975.46 Ton/day
Max	548.36	331.67	896.61	3222.05	3946.24	5490.44	6422.38	1241.02	1199.87	1067.76	1570.02	1686.03	6422.38 Ton/day
Min	2.91	17.61	13.26	236.86	256.58	742.58	501.41	435.60	572.09	734.30	572.09	826.22	2.91 Ton/day

**WATER YEAR : 2021****PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)**

Lat 12 - 51 - 49 N Long 99 - 40 - 42 E

**Location : on left bank at Ban Song Phi Nong.**

	<b>Ban</b>	<b>Song Phi Nong</b>	<b>Amphoe</b>	<b>Kaeng Krachan</b>	<b>Changwat</b>	<b>Phetchaburi</b>
<b>Drainage Area</b>	2,226	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	22					
<b>R-Square</b>	0.8208					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.0429 QW^{1.02970}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.70	89.93	19.63	33.89	33.21	42.82	231.10	229.41	127.75	38.69	52.03	70.95	
2	109.70	67.80	33.89	35.26	35.95	34.58	231.10	231.10	126.56	39.38	47.42	70.95	
3	110.79	70.95	37.32	35.95	35.26	29.80	231.10	229.41	126.56	37.32	69.90	79.35	
4	114.09	47.42	46.50	41.90	35.26	29.80	229.41	229.41	125.38	35.26	61.29	89.93	
5	115.20	62.22	43.74	35.95	35.26	29.11	229.41	215.92	125.38	32.53	82.51	91.01	
6	117.40	62.22	43.74	35.95	35.26	38.69	188.07	201.02	125.38	31.84	84.61	92.12	
7	117.40	66.87	36.63	35.95	35.26	38.69	226.04	201.02	125.38	28.43	84.61	92.12	
8	120.71	67.80	33.21	35.95	40.99	31.16	226.04	202.46	92.12	31.84	84.61	92.12	
9	116.31	62.22	33.21	37.32	43.74	21.31	227.72	107.48	35.26	31.84	85.67	81.45	
10	115.20	56.66	25.26	33.89	47.42	21.31	224.35	22.44	32.53	31.84	85.67	81.45	
11	116.31	55.73	24.70	35.26	50.19	24.13	224.35	15.71	33.21	33.21	85.67	82.51	
12	115.20	55.73	23.57	34.58	49.27	35.26	224.35	12.93	31.84	32.53	86.72	82.51	
13	117.40	55.73	25.26	34.58	40.99	31.16	222.66	19.63	33.21	29.11	86.72	83.56	
14	116.31	52.96	23.00	34.58	84.61	31.16	222.66	20.19	30.48	32.53	87.78	83.56	
15	116.31	48.34	23.57	31.84	86.72	29.80	201.02	25.83	32.53	32.53	97.59	88.83	
16	117.40	48.34	23.57	32.53	86.72	29.11	105.29	64.08	31.84	32.53	88.83	94.30	
17	116.31	48.34	23.00	27.07	86.72	26.39	51.11	77.24	31.84	28.43	87.78	94.30	
18	67.80	47.42	23.00	26.39	85.67	40.07	49.27	92.12	31.84	38.69	88.83	95.41	
19	115.20	47.42	23.57	26.39	86.72	51.11	58.51	92.12	31.84	35.26	79.35	95.41	
20	110.79	47.42	21.31	23.00	86.72	97.59	83.56	65.94	31.84	34.58	78.30	95.41	
21	109.70	48.34	22.44	22.44	87.78	209.67	74.09	63.15	32.53	35.26	78.30	96.51	
22	109.70	47.42	21.31	24.70	87.78	241.23	82.51	61.29	31.84	34.58	69.90	96.51	
23	103.10	47.42	21.31	23.00	84.61	247.99	154.44	85.67	31.84	45.58	68.85	96.51	
24	100.89	46.50	21.31	23.00	86.72	246.30	214.24	36.63	30.48	34.58	68.85	87.78	
25	99.80	46.50	23.57	23.00	85.67	244.61	226.04	108.59	31.84	33.89	68.85	88.83	
26	99.80	40.07	23.57	23.00	76.19	244.61	229.41	130.12	31.16	34.58	68.85	89.93	
27	98.70	26.39	24.13	23.00	69.90	236.16	229.41	128.93	31.84	35.26	69.90	94.30	
28	98.70	20.19	24.13	25.83	68.85	237.85	227.72	127.75	31.84	34.58	69.90	98.70	
29	92.12	17.38	24.13	26.39	60.37	236.16	229.41	126.56	31.16	35.26		98.70	
30	92.12	16.83	29.11	26.39	37.32	232.79	229.41	126.56	31.84	33.89		98.70	
31		16.83		33.89	62.22		229.41		38.01	51.11		108.59	
Total	3260.16	1535.39	822.69	942.87	1929.35	3090.42	5813.21	3350.71	1717.15	1076.94	2169.29	2792.31	28500.49 Tonday
Mean	108.67	49.53	27.42	30.42	62.24	103.01	187.52	111.69	55.39	34.74	77.47	90.07	78.08 Ton/day
Max	120.71	89.93	46.50	41.90	87.78	247.99	231.10	231.10	127.75	51.11	97.59	108.59	247.99 Ton/day
Min	67.80	16.83	19.63	22.44	33.21	21.31	49.27	12.93	30.48	28.43	47.42	70.95	12.93 Ton/day

## WATER YEAR : 2021

## PHETCHABURI RIVER BASIN

Huai Mae Prachan at at Saphan Tha Kewiyn (Ban Wang Chan) , Phetchaburi (B.6A)

Lat 12 - 57 - 50 N Long 99 - 45 - 52 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet - Kaeng Krachan Reservoir Road.

	<b>Ban</b> Saphan Tha Kewiyn (Wang Chan)	<b>Amphoe</b> Kaeng Krachan	<b>Changwat</b> Phetchaburi
<b>Drainage Area</b>	969 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2017-Cont'd		
<b>Actual Measurement</b>	2017-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.9816		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.8191 QW^{1.51790}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.07	6.06	122.35	4.40	2.07	5.49	300.16	30.88	104.26	1.87	0.99	0.99	
2	1.68	6.65	47.68	4.67	2.07	4.94	246.75	24.19	43.94	1.87	0.84	0.99	
3	2.07	6.06	13.25	4.40	2.28	8.22	294.66	110.93	16.65	1.68	0.84	0.99	
4	2.28	5.49	10.53	4.14	2.28	11.76	78.26	39.60	13.25	1.68	0.99	0.84	
5	2.71	4.94	8.59	4.14	3.40	8.22	219.28	25.81	11.35	1.68	0.99	0.84	
6	2.93	5.21	7.89	5.21	2.93	6.65	2319.22	20.93	10.53	1.32	0.99	0.84	
7	3.64	6.65	7.58	4.94	2.49	21.57	2278.17	35.57	9.35	1.32	0.99	0.84	
8	3.64	7.27	7.27	4.94	2.28	20.93	1039.27	20.93	8.22	0.99	0.84	0.99	
9	3.64	7.27	7.89	4.14	2.49	99.90	767.66	4446.01	7.27	1.32	0.84	1.15	
10	3.16	7.27	7.58	3.64	2.28	80.06	797.17	4048.94	6.06	0.99	0.71	0.99	
11	2.71	6.96	6.36	3.64	2.93	35.57	513.23	1969.41	5.49	0.84	0.60	0.60	
12	2.49	7.89	6.06	3.64	1.50	20.30	289.19	1456.21	4.94	0.84	0.60	0.49	
13	2.71	7.27	5.49	4.40	0.60	14.92	719.33	1212.45	4.67	0.84	0.71	0.60	
14	3.16	6.65	5.49	4.14	1.68	19.06	454.79	1027.25	4.40	0.84	0.60	0.49	
15	4.14	7.89	5.49	4.94	1.68	25.00	289.19	700.30	3.89	0.84	1.50	0.49	
16	3.89	8.97	5.49	4.67	2.07	26.63	122.35	255.65	3.64	0.84	2.71	0.49	
17	3.64	8.97	5.77	4.14	4.94	28.31	74.70	66.33	3.40	0.84	2.28	0.49	
18	3.89	8.97	5.77	3.89	4.14	25.00	168.42	39.60	3.40	0.84	3.64	0.39	
19	6.06	11.35	5.77	3.64	2.93	22.87	158.81	31.76	2.93	0.84	10.94	0.49	
20	6.96	33.61	5.49	3.64	2.71	26.63	99.90	41.67	2.93	0.84	5.21	0.49	
21	5.49	35.57	4.94	3.16	2.28	45.18	64.74	33.61	2.71	0.84	4.40	0.49	
22	6.36	41.67	4.67	3.16	1.87	662.76	47.68	20.93	2.49	0.84	3.40	0.49	
23	8.22	34.58	4.67	2.93	1.87	493.48	1100.07	30.02	2.07	0.84	2.49	0.39	
24	6.96	31.76	4.67	2.93	1.68	486.96	1862.59	461.16	2.28	0.84	2.07	0.07	
25	6.06	83.70	4.94	2.93	1.32	374.75	1364.01	146.30	2.49	0.99	1.68	0.00	
26	6.06	219.28	4.94	2.93	1.15	181.53	887.96	71.20	2.28	1.32	1.68	0.00	
27	6.96	417.19	5.21	2.93	0.99	700.30	616.84	40.63	2.28	1.15	1.32	0.00	
28	8.97	134.14	4.94	2.71	1.15	233.60	174.94	29.16	2.07	0.99	0.99	0.00	
29	7.89	115.45	4.67	2.71	1.68	184.86	76.47	66.33	2.07	1.15		0.00	
30	6.65	171.67	4.67	2.49	5.77	368.81	50.23	106.47	1.87	1.15		0.00	
31		146.30		2.28	6.65		38.58		1.87	1.15		0.00	
<b>Total</b>	137.09	1602.71	346.11	116.52	76.16	4244.26	17514.62	16610.23	295.05	34.38	55.84	15.92	41048.89 Tonday
<b>Mean</b>	4.57	51.70	11.54	3.76	2.46	141.48	564.99	553.67	9.52	1.11	1.99	0.51	112.46 Ton/day
<b>Max</b>	8.97	417.19	122.35	5.21	6.65	700.30	2319.22	4446.01	104.26	1.87	10.94	1.15	4446.01 Ton/day
<b>Min</b>	1.68	4.94	4.67	2.28	0.60	4.94	38.58	20.93	1.87	0.84	0.60	0.00	0.00 Ton/day

## WATER YEAR : 2021

## PHETCHABURI RIVER BASIN

## Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)

Lat 12 - 48 - 22 N Long 99 - 46 - 13 E

Location : on left bank at Ban Sarahed.

	<b>Ban Sarahed</b>	<b>Amphoe</b>	<b>Tha Yang</b>	<b>Changwat</b>	<b>Phetchaburi</b>
<b>Drainage Area</b>	2,602 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	2008-Cont'd				
<b>Actual Measurement</b>	2008-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	20				
<b>R-Square</b>	0.9548				
<b>Remarks</b>	Continued Sediment Station				

QS = 1.2675 QW<sup>1.21860</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	168.70	134.64	63.42	75.13	78.36	110.11	461.91	381.82	189.34	49.99	60.94	78.36	
2	168.70	148.50	79.98	73.53	78.36	89.83	446.38	373.45	185.18	51.18	54.81	79.98	
3	168.70	148.50	96.50	75.13	78.36	60.94	430.95	373.45	183.10	49.99	75.13	86.52	
4	178.97	146.50	125.78	70.34	79.98	62.18	427.88	373.45	181.03	42.92	60.94	99.88	
5	176.90	146.50	124.02	71.93	79.98	58.47	415.62	357.03	178.97	37.75	99.88	106.68	
6	185.18	150.50	124.02	75.13	79.98	73.53	434.03	321.66	176.90	36.90	101.57	106.68	
7	187.26	164.62	115.29	75.13	78.36	93.16	398.66	321.66	176.90	35.21	101.57	108.39	
8	191.43	162.59	99.88	75.13	78.36	118.77	443.29	319.16	156.52	34.37	103.27	108.39	
9	187.26	156.52	99.88	75.13	98.19	63.42	493.24	569.89	57.24	36.90	101.57	106.68	
10	187.26	140.55	96.50	70.34	99.88	54.81	474.40	148.50	44.08	36.90	103.27	83.24	
11	185.18	140.55	73.53	68.76	111.83	47.61	418.68	79.98	42.05	36.90	103.27	93.16	
12	187.26	140.55	71.93	71.93	111.83	64.67	404.30	62.18	41.18	36.05	103.27	93.16	
13	189.34	140.55	81.60	73.53	96.50	73.53	398.66	60.94	41.18	34.37	103.27	93.16	
14	193.52	138.58	65.92	70.34	174.85	67.18	387.42	54.81	41.18	36.90	104.97	93.16	
15	191.43	124.02	71.93	73.53	189.34	64.67	362.34	42.92	41.18	36.90	117.03	98.19	
16	193.52	122.27	73.53	75.13	191.43	65.92	218.93	104.97	40.32	36.90	111.83	106.68	
17	199.82	124.02	73.53	65.92	189.34	57.24	88.17	108.39	39.46	28.60	106.68	106.68	
18	131.08	122.27	71.93	56.02	193.52	71.93	89.83	148.50	39.46	44.08	106.68	104.97	
19	174.85	131.08	71.93	56.02	199.82	88.17	84.88	138.58	38.60	42.92	98.19	115.29	
20	206.16	129.31	68.76	49.99	185.18	195.62	127.54	108.39	38.60	39.46	93.16	111.83	
21	225.37	125.78	65.92	39.46	181.03	452.58	117.03	93.16	38.60	40.32	91.49	111.83	
22	201.93	127.54	64.67	54.81	181.03	569.89	111.83	91.49	37.75	40.32	84.88	111.83	
23	189.34	125.78	63.42	47.61	172.79	499.55	223.22	225.37	38.60	35.21	79.98	111.83	
24	178.97	125.78	65.92	46.43	174.85	502.71	336.74	443.29	37.75	39.46	79.98	103.27	
25	174.85	127.54	65.92	47.61	172.79	474.40	381.82	258.05	37.75	38.60	79.98	101.57	
26	174.85	125.78	73.53	46.43	158.54	499.55	381.82	258.05	39.46	38.60	78.36	103.27	
27	174.85	99.88	76.74	47.61	142.53	524.94	379.03	255.84	37.75	39.46	79.98	104.97	
28	174.85	79.98	76.74	53.59	129.31	461.91	376.24	296.82	37.75	38.60	79.98	115.29	
29	160.56	58.47	76.74	57.24	124.02	440.20	373.45	289.44	36.90	38.60		117.03	
30	152.50	58.47	78.36	58.47	99.88	490.09	373.45	201.93	37.75	38.60		117.03	
31		56.02		65.92	127.54		379.03		44.08	49.99		125.78	
Total	5460.59	3923.64	2457.82	1963.27	4137.76	6497.58	10440.77	6863.17	2356.61	1222.95	2565.93	3204.78	51094.87 Tonday
Mean	182.02	126.57	81.93	63.33	133.48	216.59	336.80	228.77	76.02	39.45	91.64	103.38	139.99 Ton/day
Max	225.37	164.62	125.78	75.13	199.82	569.89	493.24	569.89	189.34	51.18	117.03	125.78	569.89 Ton/day
Min	131.08	56.02	63.42	39.46	78.36	47.61	84.88	42.92	36.90	28.60	54.81	78.36	28.60 Ton/day

**WATER YEAR : 2021****PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)**

Lat 12 - 58 - 26 N Long 99 - 53 - 16 E

Location : on left bank at the bridge of Ban Tha Yang.

	<b>Ban</b>	<b>Tha Yang</b>	<b>Amphoe</b>	<b>Tha Yang</b>	<b>Changwat</b>	<b>Phetchaburi</b>
<b>Drainage Area</b>	4,057	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	27					
<b>R-Square</b>	0.9637					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.5208 QW^{1.52580}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.69	10.14	9.92	17.96	19.27	60.64	373.52	271.41	38.92	7.69	6.29	6.29	
2	8.43	8.64	6.75	17.00	22.50	63.95	362.47	285.95	21.29	9.92	5.85	5.85	
3	6.90	8.85	5.56	16.06	24.27	66.47	365.13	283.51	14.03	10.81	5.13	5.13	
4	6.44	8.02	4.86	14.86	21.63	68.16	388.95	303.25	11.50	11.96	7.85	4.99	
5	6.90	7.85	8.02	13.49	19.60	72.91	426.85	273.82	15.13	11.04	3.55	5.85	
6	7.37	6.75	14.03	12.43	16.37	80.68	492.65	223.91	19.27	8.43	3.19	6.90	
7	7.85	6.14	14.86	14.58	13.76	86.39	926.07	179.35	36.32	7.37	3.31	7.22	
8	8.85	10.81	17.96	20.27	12.96	92.24	1127.81	144.91	48.80	6.60	3.43	7.69	
9	9.70	12.43	18.28	22.50	13.76	108.55	968.82	266.62	97.01	6.14	3.55	7.85	
10	9.49	13.22	19.27	26.08	16.37	113.08	930.79	2072.93	40.51	6.60	3.68	7.06	
11	8.85	11.04	19.93	28.89	22.50	105.56	893.28	1791.65	11.27	6.60	3.68	4.72	
12	8.43	9.27	16.37	27.94	28.41	87.55	650.29	641.04	8.64	6.44	3.68	4.58	
13	8.64	9.49	13.76	26.54	28.89	68.16	509.60	235.57	10.81	6.44	3.80	4.06	
14	9.70	9.06	12.43	27.47	24.72	41.05	600.88	92.00	10.14	6.14	3.93	3.80	
15	11.27	8.64	11.04	31.30	27.00	22.06	485.92	52.26	13.22	6.00	6.14	3.55	
16	11.73	7.06	9.49	35.29	30.81	17.00	300.75	31.30	12.96	6.00	10.14	3.68	
17	11.50	6.00	8.85	35.29	29.84	14.58	108.55	22.50	12.70	5.85	12.43	4.32	
18	12.43	4.72	8.64	36.32	28.41	14.58	41.59	17.88	12.43	4.86	11.50	3.93	
19	8.43	4.19	8.02	36.32	24.72	14.86	53.43	29.36	12.43	6.44	13.76	4.06	
20	6.75	6.29	7.22	35.80	23.38	15.75	16.37	25.62	8.85	7.53	14.58	5.13	
21	13.49	12.43	6.29	37.35	18.61	34.28	35.80	26.08	4.06	7.06	11.27	4.99	
22	20.27	12.43	5.27	34.78	14.58	191.99	39.98	9.70	6.00	7.69	11.50	5.13	
23	20.27	11.96	7.37	34.28	13.76	617.20	79.55	13.64	7.22	8.22	10.81	5.13	
24	16.37	11.73	14.58	36.83	18.28	775.11	430.06	262.20	7.69	8.22	9.49	4.99	
25	12.70	10.81	20.27	38.92	24.72	783.99	788.45	1026.31	7.69	6.75	8.64	4.06	
26	10.81	13.76	18.94	24.27	26.54	770.68	828.93	497.71	7.85	5.70	8.22	4.19	
27	10.81	28.41	18.61	16.37	30.32	753.05	744.29	194.44	8.02	5.42	7.53	4.58	
28	12.96	44.31	18.61	16.37	30.81	824.40	526.75	94.85	7.85	5.13	6.90	5.42	
29	13.49	30.32	18.61	15.75	23.38	558.11	281.08	77.31	7.06	5.27		7.69	
30	12.20	13.49	18.61	16.68	25.62	362.47	237.53	72.04	6.60	4.99		8.02	
31		12.20		17.96	47.29		261.86		6.44	5.27		6.00	
<b>Total</b>	320.72	370.46	382.42	785.95	723.08	6885.50	14278.00	9519.12	532.71	218.58	203.83	166.86	34387.23 Tonday
<b>Mean</b>	10.69	11.95	12.75	25.35	23.33	229.52	460.58	317.30	17.18	7.05	7.28	5.38	94.21 Ton/day
<b>Max</b>	20.27	44.31	20.27	38.92	47.29	824.40	1127.81	2072.93	97.01	11.96	14.58	8.02	2072.93 Ton/day
<b>Min</b>	6.44	4.19	4.86	12.43	12.96	14.58	16.37	9.70	4.06	4.86	3.19	3.55	3.19 Ton/day

## WATER YEAR : 2021

## WEST COAST - GULF BASIN

## Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

Lat 11 - 29 - 48 N Long 99 - 36 - 09 E

Location : on right bank at Ban Klang.

	Ban Klang	Amphoe Thap Sakae	Changwat Prachuap Khiri Khan
<b>Drainage Area</b>	143 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.9737		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.3537 QW^{1.48950}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	2.87	4.13	1.97	8.72	21.67	0.70	0.00	6.32	
2	0.00	0.00	0.00	0.00	3.76	5.42	2.41	8.72	18.96	0.56	0.00	13.13	
3	0.00	0.00	0.00	0.00	4.56	5.42	6.32	9.28	15.54	0.86	0.00	5.42	
4	0.00	0.00	0.00	0.00	3.76	4.96	60.21	6.75	13.13	1.02	0.00	3.35	
5	0.00	0.00	0.00	0.00	4.13	4.56	28.44	5.42	11.45	0.86	6.75	2.87	
6	0.00	0.00	0.00	0.00	3.76	3.11	18.09	4.56	10.34	0.86	3.11	2.41	
7	0.00	0.00	0.00	0.00	3.76	3.11	22.60	4.13	9.28	1.02	1.02	2.18	
8	0.00	0.00	0.00	0.00	2.63	3.11	42.49	3.11	8.25	0.86	0.31	7.72	
9	0.00	0.00	0.00	0.00	2.63	3.11	41.35	53.25	7.26	0.86	0.11	9.28	
10	0.00	0.00	0.00	0.00	2.18	3.35	40.21	95.91	6.75	0.86	0.04	4.96	
11	0.00	0.00	0.00	0.00	1.77	3.76	21.67	33.62	6.32	0.43	0.04	3.35	
12	0.00	0.00	0.00	0.00	11.45	4.13	19.85	15.54	5.42	0.31	0.04	2.63	
13	0.00	0.00	0.00	0.00	20.76	4.56	23.54	18.09	4.96	0.31	0.04	2.41	
14	0.00	0.00	0.00	0.00	10.85	3.35	17.23	74.25	4.13	0.31	0.04	2.18	
15	0.00	0.00	0.00	0.00	7.26	3.11	16.38	951.86	3.76	0.31	4.96	2.18	
16	0.00	0.00	0.00	0.00	4.96	2.87	18.96	387.30	3.76	0.31	140.91	1.97	
17	0.00	0.00	0.00	0.00	4.13	2.41	23.54	129.13	3.35	0.31	54.50	1.97	
18	0.00	0.00	0.00	0.00	2.87	1.77	18.96	1136.30	3.11	0.31	18.96	1.97	
19	0.00	0.00	0.00	0.00	1.77	1.77	13.92	1598.03	3.11	0.31	13.13	1.97	
20	0.00	0.00	0.00	0.00	1.19	3.76	10.85	224.19	2.87	0.31	7.72	1.97	
21	0.00	0.00	0.00	0.00	1.02	21.67	16.38	91.43	2.87	0.31	7.72	2.41	
22	0.00	0.04	0.00	0.00	1.77	8.72	19.85	56.38	2.63	0.31	8.25	2.41	
23	0.00	0.00	0.00	0.00	3.76	5.42	13.13	216.29	2.63	0.31	7.26	6.32	
24	0.00	0.00	0.00	0.00	1.97	4.13	37.97	429.66	2.41	0.20	6.75	3.11	
25	0.00	0.00	0.00	0.00	1.19	4.56	35.77	103.98	2.41	0.20	4.96	2.63	
26	0.00	0.00	0.00	0.00	1.02	7.72	22.60	58.28	2.41	0.20	4.96	2.41	
27	0.00	0.00	0.00	0.70	1.57	9.28	14.72	44.81	2.63	0.04	2.87	2.18	
28	0.00	0.00	0.00	1.38	2.41	5.42	10.85	36.87	3.11	0.00	2.63	1.57	
29	0.00	0.00	0.00	1.38	4.96	3.35	19.85	30.48	2.41	0.00		1.19	
30	0.00	0.00	0.00	1.77	4.13	2.63	12.59	25.46	2.41	0.00		1.19	
31		0.00		2.41	4.13		9.28		2.41	0.00		2.18	
Total	0.00	0.04	0.00	7.64	128.98	144.67	661.98	5861.80	191.75	13.25	297.08	107.84	7415.03 Tonday
Mean	0.00	0.00	0.00	0.25	4.16	4.82	21.35	195.39	6.19	0.43	10.61	3.48	20.32 Ton/day
Max	0.00	0.04	0.00	2.41	20.76	21.67	60.21	1598.03	21.67	1.02	140.91	13.13	1598.03 Ton/day
Min	0.00	0.00	0.00	0.00	1.02	1.77	1.97	3.11	2.41	0.00	0.00	1.19	0.00 Ton/day

**WATER YEAR : 2021****WEST COAST - GULF BASIN****Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)**

Lat 11 - 24 - 15 N Long 99 - 31 - 09 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

	<b>Ban Nong Ya Plong</b>	<b>Amphoe</b>	Bang Saphan	<b>Changwat</b>	Prachuap Khiri Khan
<b>Drainage Area</b>	112 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1998-Cont'd				
<b>Actual Measurement</b>	1998-Cont'd				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	23				
<b>R-Square</b>	0.9815				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 3.4371 QW^{1.63580}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.43	0.56	0.25	19.06	8.99	8.99	18.30	15.89	0.00	0.00	0.29	
2	0.01	0.40	0.40	0.21	15.19	5.96	7.26	84.27	16.72	0.00	0.00	0.21	
3	0.06	0.31	0.31	0.31	14.39	3.72	6.67	31.85	17.45	0.00	0.00	0.00	
4	0.08	0.29	0.19	0.29	23.04	3.44	7.26	18.30	16.72	0.00	0.00	0.00	
5	0.11	0.21	0.40	0.25	43.21	4.02	7.26	14.39	16.72	0.00	0.11	0.00	
6	0.62	0.48	0.40	0.21	44.73	3.16	5.96	12.30	16.72	0.00	0.00	0.00	
7	0.68	0.56	0.31	0.21	27.94	3.44	5.28	10.94	18.30	0.00	0.00	0.00	
8	0.43	5.96	0.36	0.31	16.72	4.02	8.43	9.65	18.30	0.00	0.00	0.00	
9	0.31	1.00	0.93	0.36	11.57	5.28	54.89	192.10	17.45	0.00	0.00	0.00	
10	0.29	0.68	3.72	0.40	7.80	7.80	59.93	380.92	18.30	0.00	0.00	0.00	
11	0.36	0.48	3.72	0.56	5.96	8.43	25.44	128.04	17.45	0.00	0.00	0.00	
12	0.29	0.40	2.63	0.53	40.25	7.80	23.04	62.51	18.30	0.00	0.00	0.00	
13	0.29	0.31	1.70	0.48	11.57	7.26	33.19	776.49	18.30	0.00	0.00	0.00	
14	0.29	0.29	1.03	0.62	7.26	7.26	21.88	1579.69	18.30	0.00	0.00	0.00	
15	0.21	0.29	0.93	0.53	5.62	10.94	23.04	2387.22	18.30	0.00	9.65	0.00	
16	0.19	0.25	0.83	0.48	4.63	16.72	67.62	690.17	17.45	0.00	192.10	0.00	
17	1.49	0.25	0.77	0.53	3.72	17.45	40.25	1080.99	18.30	0.00	12.30	0.00	
18	1.49	0.25	0.68	0.48	6.31	19.95	26.68	490.04	17.45	0.00	0.31	0.00	
19	0.53	0.29	0.71	0.53	5.96	25.44	19.95	254.65	17.45	0.00	1.03	0.00	
20	0.40	0.21	0.71	0.62	4.63	52.60	15.19	149.08	18.30	0.00	0.00	0.00	
21	1.70	0.19	0.68	8.43	3.44	108.47	15.19	37.36	18.30	0.00	0.00	0.00	
22	4.95	0.19	0.62	10.25	3.16	43.21	19.95	25.44	0.00	0.00	0.00	0.04	
23	0.83	0.12	0.56	4.32	2.89	29.22	14.39	572.55	0.00	0.00	0.00	0.00	
24	0.53	0.11	0.53	2.39	2.63	20.73	208.48	406.47	0.00	0.00	0.00	0.00	
25	0.40	0.15	0.53	2.15	2.39	18.30	43.21	111.50	0.00	0.00	0.00	0.00	
26	0.36	0.25	0.48	5.96	3.44	33.19	24.23	50.18	0.00	0.00	0.00	0.00	
27	0.71	0.25	0.56	87.02	4.32	29.22	18.30	27.94	0.00	0.00	0.00	0.00	
28	5.62	0.43	0.62	43.21	3.72	19.95	15.19	15.19	0.00	0.00	0.00	0.00	
29	0.83	0.86	0.56	21.88	4.02	14.39	73.07	12.30	0.00	0.00		0.00	
30	0.62	0.77	0.48	87.02	3.72	11.57	26.68	14.39	0.00	0.00		0.00	
31		0.56		30.52	7.26		23.04		0.00	0.00		0.00	
Total	24.69	17.22	26.91	311.31	360.55	551.93	949.94	9645.22	370.47	0.00	215.50	0.54	12474.28 Tonday
Mean	0.82	0.56	0.90	10.04	11.63	18.40	30.64	321.51	11.95	0.00	7.70	0.02	34.18 Ton/day
Max	5.62	5.96	3.72	87.02	44.73	108.47	208.48	2387.22	18.30	0.00	192.10	0.29	2387.22 Ton/day
Min	0.01	0.11	0.19	0.21	2.39	3.16	5.28	9.65	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2021****WEST COAST - GULF BASIN****Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)**

Lat 11 - 03 - 52 N Long 99 - 22 - 20 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 423.

	<b>Ban</b> Chang Laek	<b>Amphoe</b> Bang Saphan Noi	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	58 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	17		
<b>R-Square</b>	0.8789		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.8128 QW^{1.73550}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.00	3.27	0.09	21.99	20.43	9.73	17.44	64.46	4.01	0.60	9.73	
2	0.09	0.00	7.59	0.06	17.44	14.66	9.73	14.66	64.46	4.01	0.60	7.59	
3	0.06	0.01	14.66	0.06	14.66	12.09	7.59	13.35	64.46	3.27	0.60	7.59	
4	0.09	0.00	2.59	0.06	13.35	10.88	36.23	9.73	64.46	3.27	0.60	6.60	
5	0.12	0.00	0.98	0.06	10.88	8.63	39.03	7.59	64.46	3.27	0.98	6.60	
6	0.25	0.06	0.29	0.06	14.66	6.60	60.99	6.60	64.46	3.27	0.98	6.60	
7	0.98	0.16	0.29	0.20	13.35	6.60	32.39	5.68	60.99	3.27	0.98	6.60	
8	0.60	0.29	1.98	0.98	9.73	8.63	51.07	8.63	60.99	3.27	0.98	8.63	
9	0.29	0.25	9.73	1.45	7.59	9.73	819.37	85.27	60.99	3.27	0.98	8.63	
10	0.25	0.12	5.68	7.59	6.60	12.09	125.93	560.04	60.99	3.27	0.98	7.59	
11	0.20	0.16	6.60	14.66	16.03	9.73	68.02	544.46	60.99	3.27	0.98	7.59	
12	0.16	0.25	10.88	5.68	26.98	9.73	60.99	201.47	64.46	3.27	0.98	7.59	
13	0.16	0.20	4.81	3.27	12.09	7.59	36.23	1864.90	64.46	3.27	0.98	7.59	
14	0.12	0.16	3.27	4.81	10.88	7.59	68.02	1975.89	60.99	3.27	4.81	7.59	
15	0.12	0.16	2.59	1.45	8.63	7.59	89.84	1077.59	60.99	2.59	41.91	7.59	
16	0.12	0.16	1.98	0.98	7.59	8.63	60.99	446.33	60.99	2.59	308.84	7.59	
17	0.98	0.20	1.45	0.98	6.60	18.91	44.88	640.73	57.60	2.59	94.51	7.59	
18	0.98	0.16	0.98	1.98	4.81	41.91	32.39	280.19	57.60	1.98	34.29	7.59	
19	0.20	0.12	0.60	1.98	4.81	28.74	25.27	164.06	57.60	1.98	72.17	7.59	
20	0.16	0.12	0.29	3.27	5.68	25.27	18.91	109.12	57.60	1.98	26.98	7.59	
21	0.12	0.12	0.25	68.02	10.88	25.27	80.80	76.44	51.07	2.59	18.91	10.88	
22	0.00	0.12	0.20	28.74	85.27	20.43	72.17	68.02	21.99	7.59	76.44	39.03	
23	0.00	0.12	0.20	13.35	41.91	20.43	39.03	338.66	4.01	2.59	34.29	21.99	
24	0.00	0.09	0.20	9.73	21.99	16.03	1077.59	235.10	4.01	1.98	21.99	23.61	
25	0.00	0.20	0.20	25.27	20.43	16.03	261.76	125.93	5.68	1.98	16.03	14.66	
26	0.00	0.25	0.20	21.99	14.66	18.91	94.51	85.27	12.09	1.98	16.03	10.88	
27	0.00	0.29	0.16	30.54	14.66	26.98	47.93	72.17	9.73	1.45	8.63	9.73	
28	0.00	0.25	0.12	26.98	21.99	16.03	32.39	72.17	5.68	0.60	14.66	20.43	
29	0.00	0.20	0.12	21.99	34.29	13.35	25.27	68.02	4.81	0.60		54.30	
30	0.00	0.25	0.09	94.51	21.99	10.88	28.74	68.02	4.01	0.60		30.54	
31		0.29		34.29	18.91		23.61		4.01	0.60		28.74	
Total	6.17	4.76	82.25	425.08	541.33	460.37	3481.40	9243.53	1361.09	83.53	801.71	416.85	16908.07 Tonday
Mean	0.21	0.15	2.74	13.71	17.46	15.35	112.30	308.12	43.91	2.69	28.63	13.45	46.32 Ton/day
Max	0.98	0.29	14.66	94.51	85.27	41.91	1077.59	1975.89	64.46	7.59	308.84	54.30	1975.89 Ton/day
Min	0.00	0.00	0.09	0.06	4.81	6.60	7.59	5.68	4.01	0.60	0.60	6.60	0.00 Ton/day

**WATER YEAR : 2021****WEST COAST - GULF BASIN****Khlong Cha Kra at Ban Cha Kra Bon , Prachuap Khiri Khan (Gt.18)**

Lat 11 - 26 - 50 N Long 99 - 33 - 58 E

Location : on left bank at the bridge of Phet Kasem Highway.

	<b>Ban</b> Cha Kra Bon	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	91 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1988-Cont'd		
<b>Actual Measurement</b>	1988-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.9488		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.7465 QW^{1.82590}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.77	0.01	0.15	2.75	1.08	4.75	0.92	4.31	0.22	6.19	2.50	
2	0.00	0.77	0.01	0.15	2.50	1.25	6.70	8.36	3.89	0.40	6.70	1.43	
3	0.00	0.64	0.00	0.00	2.50	1.08	9.56	10.19	3.89	0.40	6.70	1.43	
4	0.00	0.64	0.00	0.40	3.49	0.92	12.87	22.97	3.89	0.40	5.69	1.08	
5	0.00	0.64	0.00	0.30	3.49	0.92	9.56	28.48	3.89	0.40	5.69	1.08	
6	0.00	0.40	0.00	0.30	3.11	1.25	12.17	36.27	3.49	0.30	5.21	1.83	
7	0.00	0.40	0.00	0.15	2.75	0.77	10.83	52.83	3.11	0.30	4.31	1.83	
8	0.00	0.40	0.00	0.15	2.75	0.64	7.24	82.83	3.11	0.30	3.49	1.62	
9	0.00	0.22	0.01	0.15	2.50	0.64	6.70	109.84	3.11	0.22	4.75	1.43	
10	0.00	0.22	0.01	0.09	2.50	0.77	5.69	91.45	2.75	0.22	4.75	1.25	
11	0.00	0.22	0.09	0.09	2.04	1.08	4.75	157.34	2.50	0.22	5.69	1.62	
12	0.00	0.22	0.09	0.09	2.27	2.50	6.70	187.99	2.27	0.22	6.70	1.43	
13	0.00	0.15	0.15	0.15	1.83	2.27	12.87	202.13	2.50	0.22	10.19	1.43	
14	0.00	0.09	0.22	0.30	1.83	3.49	10.19	231.79	2.50	0.15	12.87	1.08	
15	0.00	0.00	0.22	0.30	1.43	6.19	6.19	1868.84	2.04	0.15	97.41	1.08	
16	0.00	0.00	0.22	0.30	1.25	10.19	5.69	325.52	2.04	0.22	187.99	0.64	
17	0.00	0.00	0.30	0.40	1.43	12.87	3.89	202.13	1.62	0.22	282.54	0.64	
18	0.00	0.00	0.40	0.40	1.08	14.42	2.50	994.48	1.43	0.22	88.53	0.64	
19	2.75	0.00	0.40	0.52	0.77	17.07	1.62	253.87	1.43	0.22	88.53	0.52	
20	2.75	0.00	0.52	0.64	0.92	21.93	2.27	226.23	1.08	0.22	13.58	0.40	
21	10.19	0.00	0.52	0.64	0.64	19.92	3.49	157.34	1.08	0.15	10.19	0.22	
22	9.56	0.00	0.40	0.64	0.52	22.97	6.70	136.71	0.77	0.15	6.19	0.52	
23	0.64	0.00	0.40	0.92	0.30	16.17	8.36	119.61	0.77	0.15	4.75	0.52	
24	0.00	0.00	0.30	0.92	0.40	13.58	22.97	216.37	0.77	0.15	4.75	0.52	
25	0.00	0.00	0.30	11.49	0.30	12.17	11.49	88.53	0.64	0.04	3.89	0.40	
26	0.00	0.00	0.22	12.87	0.22	12.87	10.19	100.46	1.25	0.04	3.89	0.52	
27	0.00	0.00	0.30	37.90	0.30	11.49	8.36	74.60	1.08	0.04	2.75	0.64	
28	0.00	0.00	0.30	21.93	0.15	3.49	4.75	43.33	1.25	0.04	2.50	0.40	
29	0.00	0.00	0.15	18.95	0.22	15.28	3.11	178.93	1.25	0.04		0.40	
30	0.00	0.00	0.15	18.00	0.04	12.87	3.49	15.28	1.25	0.04		0.40	
31		0.00		15.28	0.09		5.69		0.92	0.04		0.40	
Total	25.89	5.78	5.69	144.57	46.37	242.14	231.34	6225.62	65.88	6.10	886.42	29.90	7915.70 Tonday
Mean	0.86	0.19	0.19	4.66	1.50	8.07	7.46	207.52	2.13	0.20	31.66	0.96	21.69 Ton/day
Max	10.19	0.77	0.52	37.90	3.49	22.97	22.97	1868.84	4.31	0.40	282.54	2.50	1868.84 Ton/day
Min	0.00	0.00	0.00	0.00	0.04	0.64	1.62	0.92	0.64	0.04	2.50	0.22	0.00 Ton/day

**WATER YEAR : 2021****TAPI RIVER BASIN****Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)**

Lat 09 - 01 - 46 N Long 98 - 58 - 10 E

Location : on left bank at Ban Tha Khanon.

	<b>Ban</b> Tha Khanon	<b>Amphoe</b> Khiri Ratnikhom	<b>Changwat</b> Surat Thani
<b>Drainage Area</b>	3,035 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 49		
<b>Period of Available Records</b>	1989 - Cont'd		
<b>Actual Measurement</b>	1989 - 1999 , 2003-2005, 2012 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.7369		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.5215 QW^{1.59050}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	610.94	1324.29	1234.05	810.10	2736.55	628.17	5157.09	2369.30	6613.02	543.79	524.76	831.79	
2	456.29	707.91	1019.01	610.94	2437.73	1092.53	4613.06	1135.40	1720.83	511.31	614.37	947.40	
3	487.45	1008.66	917.31	781.73	2095.66	1081.91	2992.13	1092.53	6431.28	308.80	791.14	857.57	
4	560.30	1103.19	887.58	887.58	2284.79	848.51	2826.85	1124.62	3964.08	753.73	756.20	801.23	
5	303.06	877.76	957.52	511.31	2541.73	716.99	2420.56	1019.01	1930.17	392.90	741.41	1071.33	
6	479.59	763.02	280.47	680.94	3256.10	680.94	2754.52	947.40	1370.29	451.18	692.88	712.15	
7	707.91	511.31	479.59	519.36	6281.27	434.44	3727.58	2251.30	1103.19	412.49	664.35	631.64	
8	672.04	917.31	947.40	1189.83	6858.26	320.87	6311.17	1724.19	937.33	458.35	847.22	791.14	
9	887.58	1071.33	867.97	1860.55	4868.67	819.64	7931.04	1633.52	791.14	472.82	910.01	873.18	
10	511.31	680.94	744.48	2204.17	3627.41	4208.28	6103.00	1008.66	654.36	520.98	936.66	1092.53	
11	464.01	988.08	2420.56	4613.06	2826.85	4302.28	5781.15	917.31	628.17	570.86	910.01	776.10	
12	274.92	568.63	1256.39	4999.00	1874.40	2489.53	5212.73	1234.05	680.94	447.61	842.07	852.39	
13	535.60	763.02	1608.89	2111.04	1464.02	1572.19	9627.05	2629.62	654.36	433.43	741.41	766.12	
14	877.76	726.11	988.08	1301.51	800.60	1222.94	8289.32	4662.80	907.36	586.54	618.38	645.59	
15	781.73	645.59	988.08	1124.62	877.76	1256.39	5810.14	4388.72	781.73	494.83	852.39	836.92	
16	672.04	698.88	1393.50	1267.61	781.73	2019.41	3567.79	2072.23	744.48	498.53	842.07	786.11	
17	535.60	897.45	1464.02	957.52	1724.19	2049.78	2369.30	1843.30	763.02	384.21	796.18	669.08	
18	716.99	937.33	1358.73	663.18	1071.33	1684.04	1523.76	1812.39	672.04	566.96	801.23	826.66	
19	427.41	707.91	1146.21	448.62	907.36	1584.39	1464.02	2253.15	593.88	422.91	963.60	852.39	
20	346.44	602.38	1081.91	503.31	800.60	2095.66	3647.36	1320.48	413.48	536.15	801.23	781.10	
21	654.36	810.10	1103.19	519.36	2034.57	3217.88	3528.26	1208.18	448.62	771.10	673.81	461.95	
22	535.60	877.76	1167.94	800.60	1511.74	4765.32	1633.52	1171.58	379.41	578.68	878.41	688.10	
23	610.94	1146.21	1428.60	585.42	800.60	2863.28	1452.18	1043.31	535.60	390.00	821.55	1023.85	
24	434.44	937.33	1370.29	216.70	1008.66	2559.22	2235.55	894.16	441.51	347.36	883.65	716.99	
25	386.13	1370.29	1200.83	427.41	1157.06	2506.89	5897.43	969.02	503.31	563.07	910.01	899.43	
26	327.19	560.30	1245.20	242.53	1081.91	2386.34	5324.66	1581.95	386.13	539.96	894.16	1328.10	
27	427.41	1440.37	1234.05	352.94	1547.91	3687.39	2369.30	1832.97	379.41	645.59	806.29	1142.60	
28	654.36	1405.16	593.88	420.42	1256.39	2454.96	1535.82	963.60	552.02	532.34	627.02	721.85	
29	645.59	1572.19	413.48	735.27	977.86	2808.71	1178.87	801.23	274.92	650.26		857.57	
30	877.76	1440.37	707.91	1178.87	1301.51	4842.75	1071.33	4072.20	628.17	547.63		952.79	
31		772.35		3707.46	1008.66		2454.96		511.31	447.61		974.45	
Total	16862.75	28833.53	32507.12	37232.96	63803.88	63201.63	120811.50	51978.18	37395.56	15781.98	22142.47	26170.10	516721.66 Ton/day
Mean	562.09	930.11	1083.57	1201.06	2058.19	2106.72	3897.15	1732.61	1206.31	509.10	790.80	844.20	1415.68 Ton/day
Max	887.58	1572.19	2420.56	4999.00	6858.26	4842.75	9627.05	4662.80	6613.02	771.10	963.60	1328.10	9627.05 Ton/day
Min	274.92	511.31	280.47	216.70	781.73	320.87	1071.33	801.23	274.92	308.80	524.76	461.95	216.70 Ton/day

## WATER YEAR : 2021

## TAPI RIVER BASIN

## Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)

Lat 08 - 34 - 16 N Long 99 - 15 - 14 E

Location : on left bank at Tambon Yan Din Daeng.

	Ban Yan Din Daeng	Amphoe Phrasaeng	Changwat Surat Thani
<b>Drainge Area</b>	5,397 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 49		
<b>Period of Available Records</b>	1990 - Cont'd		
<b>Actual Measurement</b>	1990 - 2000 , 2002 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.7061		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.6677 QW^{1.47660}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	89.58	210.35	721.81	238.71	878.13	1159.81	1915.30	1836.62	5253.24	775.06	143.64	799.22	
2	80.17	273.68	578.80	228.26	883.14	1117.89	2103.61	1604.68	5838.49	642.91	148.13	626.68	
3	78.32	357.03	460.16	238.71	918.47	1245.13	2146.23	1561.08	5838.49	536.01	152.66	466.68	
4	89.58	293.14	375.15	238.71	954.25	1183.99	1894.73	1611.98	5604.73	473.23	139.20	372.11	
5	83.89	220.53	342.16	228.26	1011.36	969.72	1685.60	1633.96	5392.96	440.79	145.88	321.68	
6	91.51	178.36	354.04	260.05	974.89	770.25	1532.24	1678.19	5114.72	428.03	141.42	315.90	
7	99.33	152.66	396.65	336.26	1088.25	642.91	1307.83	1700.46	4728.79	405.98	132.62	284.75	
8	130.45	150.39	387.39	496.37	1070.59	570.94	1159.81	1967.03	4372.92	378.20	143.64	257.35	
9	117.68	154.95	345.12	610.59	843.31	555.33	1111.94	2264.83	4026.18	354.04	183.17	236.08	
10	101.32	183.17	327.49	923.56	671.64	730.29	1214.44	2519.37	3652.27	342.16	188.02	233.47	
11	134.80	180.76	381.25	1342.13	775.06	1171.88	1226.68	2786.86	3223.85	324.58	154.95	207.83	
12	139.20	195.37	428.03	1590.11	1276.07	1349.03	1094.16	3166.12	2682.84	307.30	137.00	185.59	
13	132.62	254.66	486.41	1489.29	1853.16	1238.97	1094.16	3354.96	2189.12	287.54	128.29	171.23	
14	159.54	360.03	532.17	1183.99	2071.83	1129.81	1314.67	3487.74	1770.94	268.20	143.64	164.19	
15	157.24	405.98	532.17	1129.81	1935.94	1106.00	1700.46	3592.16	1517.88	254.66	159.54	161.86	
16	180.76	307.30	506.40	1135.79	1738.39	1070.59	1811.90	3637.21	1314.67	243.99	175.97	148.13	
17	233.47	270.94	473.23	974.89	2082.41	949.11	1539.43	3562.22	1165.84	230.86	405.98	139.20	
18	215.42	342.16	456.92	663.39	2363.39	789.53	1404.60	3547.29	1037.67	220.53	813.83	134.80	
19	190.46	375.15	405.98	463.42	2463.30	713.37	1376.72	3562.22	964.55	210.35	751.61	143.64	
20	243.99	310.16	339.21	360.03	2418.73	1070.59	1294.76	3637.21	898.23	205.32	524.52	183.17	
21	246.64	260.05	339.21	301.61	2232.28	1678.19	1590.11	3719.09	828.53	200.33	396.65	324.58	
22	223.09	241.34	378.20	262.76	2275.72	1925.61	1648.66	3836.95	765.46	205.32	360.03	444.00	
23	195.37	279.20	360.03	236.08	2474.48	1967.03	1779.11	3904.83	709.16	195.37	327.49	424.85	
24	230.86	437.59	431.21	212.88	2605.67	1861.45	2243.12	3938.91	655.17	188.02	290.33	333.33	
25	233.47	428.03	590.66	195.37	2657.04	1619.30	2580.11	3921.86	602.59	180.76	284.75	257.35	
26	200.33	387.39	536.01	180.76	2657.04	1369.78	2773.79	3887.82	563.12	185.59	357.03	437.59	
27	173.59	563.12	424.85	171.23	2530.64	1123.84	2708.73	3990.22	543.71	188.02	486.41	651.08	
28	159.54	823.62	345.12	164.19	2308.47	1053.56	2631.31	4134.68	524.52	183.17	717.58	646.99	
29	178.36	1048.25	293.14	161.86	1886.39	1328.38	2580.11	4335.99	486.41	164.19		528.34	
30	205.32	1088.25	257.35	207.83	1546.64	1746.51	2374.43	4672.00	463.42	154.95		516.91	
31		933.75		606.58	1328.38		2040.21		622.65	148.13		466.68	
Total	4795.90	11667.36	12786.32	16833.48	52775.06	35208.79	54878.96	93054.54	73353.12	9323.59	8133.98	10585.26	383396.36 Tonday
Mean	159.86	376.37	426.21	543.02	1702.42	1173.63	1770.29	3101.82	2366.23	300.76	290.50	341.46	1050.40 Ton/day
Max	246.64	1088.25	721.81	1590.11	2657.04	1967.03	2773.79	4672.00	5838.49	775.06	813.83	799.22	5838.49 Ton/day
Min	78.32	150.39	257.35	161.86	671.64	555.33	1094.16	1561.08	463.42	148.13	128.29	134.80	78.32 Ton/day

**WATER YEAR : 2021****SOUTHERN PENINSULA EAST COAST****Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)**

Lat 10 - 30 - 26 N Long 99 - 07 - 04 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

	<b>Ban Wang Phai</b>	<b>Amphoe Mueang</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	294 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D - 48		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.8482		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 16.2650 QW^{1.15190}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.22	71.13	27.95	19.11	976.94	101.46	145.48	209.62	5002.72	87.29	45.66	106.24	
2	14.22	40.34	30.99	33.04	693.68	111.06	390.83	356.84	3338.01	82.63	46.73	99.08	
3	17.21	40.34	55.45	52.16	530.52	99.08	168.21	1033.41	1765.39	78.00	48.89	91.98	
4	18.15	35.10	45.66	64.35	602.32	145.48	142.98	273.78	1164.02	78.00	54.35	84.95	
5	36.14	27.95	49.98	35.10	512.76	138.00	163.13	755.50	849.48	75.70	51.07	80.31	
6	29.97	34.07	125.66	45.66	483.34	108.65	145.48	390.83	663.04	73.41	53.25	75.70	
7	38.23	49.98	43.52	52.16	1321.65	118.33	236.08	323.27	554.32	71.13	53.25	73.41	
8	30.99	120.77	42.45	47.81	889.06	118.33	3669.02	273.78	465.80	68.86	48.89	73.41	
9	27.95	68.86	225.45	89.63	506.85	944.85	2921.93	306.65	402.25	64.35	46.73	87.29	
10	33.04	40.34	675.28	193.96	345.60	1652.90	1933.26	1541.41	351.21	64.35	45.66	82.63	
11	28.96	32.01	436.76	2775.68	301.14	1180.49	944.85	3179.72	312.18	66.60	41.39	75.70	
12	21.03	27.95	483.34	675.28	328.83	786.67	1515.83	5074.57	279.23	64.35	41.39	71.13	
13	22.98	21.03	168.21	220.16	209.62	459.97	2274.73	8864.94	246.78	64.35	43.52	68.86	
14	20.07	43.52	84.95	123.21	178.45	328.83	1119.71	5605.50	220.16	59.88	45.66	66.60	
15	40.34	78.00	68.86	94.34	183.60	262.94	1696.05	3560.13	199.16	57.66	66.60	64.35	
16	87.29	23.97	53.25	78.00	145.48	241.42	1774.08	2404.61	178.45	57.66	317.72	62.11	
17	53.25	64.35	68.86	64.35	133.05	199.16	1205.24	1549.95	163.13	56.55	548.35	59.88	
18	32.01	47.81	45.66	55.45	125.66	188.77	817.99	3853.38	150.50	55.45	225.45	57.66	
19	26.95	40.34	39.28	56.55	120.77	138.00	584.26	4712.73	142.98	54.35	317.72	57.66	
20	22.98	38.23	37.18	147.99	125.66	128.12	448.35	2003.79	135.52	54.35	145.48	71.13	
21	19.11	38.23	41.39	849.48	323.27	168.21	554.32	1330.02	133.05	52.16	118.33	150.50	
22	17.21	54.35	34.07	656.94	142.98	413.71	483.34	1049.63	128.12	52.16	111.06	135.52	
23	14.96	138.00	29.97	252.15	118.33	897.00	312.18	1704.70	123.21	52.16	163.13	246.78	
24	14.96	125.66	28.96	133.05	111.06	407.97	500.96	3035.53	123.21	51.07	168.21	257.53	
25	14.22	99.08	28.96	407.97	115.90	328.83	620.46	2557.30	142.98	51.07	125.66	158.06	
26	27.95	306.65	38.23	763.28	241.42	306.65	897.00	2335.94	140.49	49.98	111.06	436.76	
27	22.00	99.08	29.97	385.14	173.32	236.08	548.35	1147.58	113.47	49.98	106.24	351.21	
28	16.27	113.47	24.95	312.18	135.52	385.14	362.48	810.15	96.70	48.89	113.47	138.00	
29	52.16	53.25	22.00	413.71	125.66	204.38	279.23	638.66	101.46	47.81		252.15	
30	39.28	40.34	19.11	1696.05	113.47	158.06	306.65	849.48	99.08	47.81		442.55	
31		32.01		1355.17	106.24		290.16		91.98	46.73		584.26	
<b>Total</b>	854.10	2046.21	3106.35	12149.11	10422.15	10958.54	27452.62	61733.40	17878.08	1884.74	3304.92	4663.40	156453.62 Tonday
<b>Mean</b>	28.47	66.01	103.54	391.91	336.20	365.28	885.57	2057.78	576.71	60.80	118.03	150.43	428.64 Ton/day
<b>Max</b>	87.29	306.65	675.28	2775.68	1321.65	1652.90	3669.02	8864.94	5002.72	87.29	548.35	584.26	8864.94 Ton/day
<b>Min</b>	14.22	21.03	19.11	19.11	106.24	99.08	142.98	209.62	91.98	46.73	41.39	57.66	14.22 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlung Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

Lat 08 - 23 - 59 N Long 99 - 49 - 59 E

Location : on left bank at the bridge.

	<b>Ban</b> Tha Yai	<b>Amphoe</b> Lan Saka	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	105 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D - 48		
<b>Period of Available Records</b>	1989 - 2009,2012 - Cont' d		
<b>Actual Measurement</b>	1990 - 2009,2012 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8851		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.9543 QW^{1.69040}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.88	107.86	129.28	37.55	46.40	41.88	71.75	191.59	607.30	369.38	369.38	686.22	
2	33.42	114.45	107.86	33.42	61.07	33.42	89.05	163.66	6417.86	297.21	394.85	547.04	
3	25.75	146.05	95.16	33.42	56.00	33.42	61.07	129.28	1467.40	252.70	607.30	461.52	
4	46.40	107.86	242.04	33.42	61.07	25.75	56.00	121.20	803.22	274.58	489.36	407.84	
5	51.11	101.43	211.19	41.88	66.32	22.23	77.35	121.20	638.40	231.56	447.85	369.38	
6	121.20	114.45	137.56	46.40	66.32	18.92	56.00	107.86	576.85	201.29	461.52	344.62	
7	95.16	154.76	129.28	46.40	56.00	29.48	51.11	95.16	475.36	191.59	607.30	308.79	
8	71.75	191.59	154.76	41.88	41.88	22.23	66.32	121.20	421.01	201.29	503.54	434.34	
9	51.11	191.59	114.45	56.00	51.11	33.42	107.86	172.77	369.38	191.59	447.85	382.03	
10	83.12	137.56	101.43	89.05	46.40	56.00	95.16	2628.26	561.86	163.66	434.34	308.79	
11	83.12	121.20	101.43	71.75	51.11	61.07	89.05	855.65	421.01	154.76	407.84	274.58	
12	77.35	107.86	101.43	56.00	66.32	56.00	71.75	927.64	344.62	146.05	394.85	263.55	
13	121.20	95.16	114.45	46.40	46.40	41.88	71.75	855.65	308.79	137.56	421.01	242.04	
14	114.45	89.05	107.86	46.40	37.55	46.40	137.56	503.54	274.58	129.28	576.85	231.56	
15	114.45	77.35	95.16	61.07	37.55	37.55	89.05	369.38	242.04	121.20	820.55	211.19	
16	107.86	71.75	83.12	51.11	56.00	33.42	71.75	461.52	221.28	114.45	1524.58	191.59	
17	95.16	89.05	77.35	46.40	83.12	29.48	163.66	592.00	201.29	107.86	2078.54	182.08	
18	137.56	172.77	71.75	41.88	56.00	25.75	163.66	820.55	211.19	114.45	891.35	182.08	
19	114.45	101.43	66.32	37.55	71.75	25.75	517.87	489.36	191.59	121.20	769.03	332.49	
20	89.05	107.86	66.32	33.42	51.11	137.56	201.29	369.38	191.59	107.86	561.86	561.86	
21	163.66	95.16	66.32	33.42	41.88	77.35	129.28	344.62	172.77	242.04	561.86	475.36	
22	154.76	89.05	61.07	33.42	46.40	89.05	114.45	320.55	163.66	475.36	503.54	320.55	
23	114.45	121.20	61.07	25.75	37.55	77.35	114.45	356.91	146.05	382.03	489.36	274.58	
24	101.43	83.12	56.00	18.92	33.42	56.00	191.59	503.54	146.05	369.38	503.54	252.70	
25	101.43	77.35	56.00	18.92	25.75	46.40	242.04	2278.51	163.66	382.03	769.03	308.79	
26	107.86	163.66	51.11	12.98	33.42	46.40	154.76	1192.18	532.37	369.38	2013.56	252.70	
27	114.45	163.66	46.40	12.98	33.42	56.00	121.20	702.47	332.49	369.38	2144.36	221.28	
28	121.20	146.05	46.40	12.98	25.75	121.20	101.43	489.36	211.19	344.62	1012.80	201.29	
29	137.56	146.05	41.88	25.75	25.75	137.56	114.45	1582.65	211.19	332.49		182.08	
30	121.20	107.86	41.88	107.86	95.16	77.35	121.20	838.02	1262.49	332.49		201.29	
31		95.16		46.40	56.00		191.59		547.04	344.62		263.55	
Total	2913.55	3689.40	2836.33	1300.78	1563.98	1596.27	3905.50	18705.66	18835.58	7573.34	21207.80	9877.76	94005.95 Tonday
Mean	97.12	119.01	94.54	41.96	50.45	53.21	125.98	623.52	607.60	244.30	757.42	318.64	257.55 Ton/day
Max	163.66	191.59	242.04	107.86	95.16	137.56	517.87	2628.26	6417.86	475.36	2144.36	686.22	6417.86 Ton/day
Min	25.75	71.75	41.88	12.98	25.75	18.92	51.11	95.16	146.05	107.86	369.38	182.08	12.98 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Ban Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

Lat 08 - 25 - 41 N Long 99 - 51 - 38 E

Location : on left bank upstream side of the bridge.

	<b>Ban</b> Wang Kong	<b>Amphoe</b> Mueang	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	33 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D - 48		
<b>Period of Available Records</b>	1989 - 2010,2014 - Cont'd		
<b>Actual Measurement</b>	1989 - 2010,2014 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8095		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 8.0254 QW^{1.42670}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.78	9.80	5.53	3.78	3.24	4.63	4.92	32.23	166.59	41.25	7.46	102.94	
2	3.51	9.80	5.84	4.06	3.24	4.06	4.34	22.35	1361.13	32.23	15.69	70.36	
3	3.51	8.60	5.53	4.06	3.24	3.78	4.06	15.00	424.03	27.98	33.98	55.13	
4	4.06	6.91	9.19	5.22	3.24	3.51	4.06	11.67	184.74	45.03	15.00	46.96	
5	4.06	6.91	12.31	5.53	3.24	3.51	4.63	11.03	101.23	32.23	11.03	39.39	
6	5.84	11.03	6.36	5.22	3.24	3.51	4.06	9.19	71.68	26.34	9.80	34.87	
7	6.36	23.92	5.84	4.34	3.24	3.51	3.78	7.46	56.35	23.13	15.69	30.51	
8	4.63	50.90	5.53	4.34	3.24	3.51	4.06	9.19	46.96	23.13	10.41	45.03	
9	4.06	39.39	5.22	4.63	3.24	3.24	4.34	9.19	40.32	21.57	9.80	37.56	
10	4.63	23.13	5.22	4.92	3.24	3.51	4.34	164.05	56.35	17.83	9.80	27.98	
11	4.63	18.56	5.53	4.92	3.51	3.51	4.34	109.89	44.08	16.40	9.80	24.72	
12	11.03	12.97	5.22	4.34	3.78	3.51	4.34	223.61	33.98	15.00	9.80	22.35	
13	12.97	10.41	5.22	4.34	3.51	3.24	3.78	229.83	29.66	13.64	9.80	20.05	
14	8.03	8.03	5.22	4.34	3.51	3.24	5.22	77.03	26.34	12.31	24.72	19.30	
15	6.91	6.91	5.22	4.63	3.51	3.51	4.34	50.90	23.92	11.67	58.83	17.83	
16	5.53	7.46	4.92	4.06	4.92	3.51	4.06	57.59	21.57	11.03	220.51	16.40	
17	9.19	11.03	4.92	4.06	5.84	3.51	11.03	117.99	19.30	10.41	349.99	15.69	
18	43.13	27.98	4.92	3.78	4.06	3.51	6.36	174.30	19.30	10.41	122.62	15.00	
19	9.19	11.03	4.63	3.78	4.92	3.51	71.68	78.38	17.83	11.67	109.89	28.82	
20	6.36	9.80	4.63	3.51	4.63	4.92	20.05	52.90	27.98	9.80	67.74	71.68	
21	15.69	7.46	4.63	3.51	4.34	4.63	9.80	52.90	17.11	9.80	71.68	53.91	
22	9.80	6.91	4.34	3.51	5.22	4.63	9.19	43.13	15.69	12.31	57.59	30.51	
23	9.19	6.36	4.34	3.51	4.34	4.34	8.03	46.96	14.31	9.80	50.90	24.72	
24	6.91	5.84	4.06	3.24	3.78	4.06	11.03	75.68	13.64	9.80	52.90	22.35	
25	10.41	5.84	4.06	3.24	3.78	3.78	17.11	535.63	18.56	9.80	113.41	37.56	
26	13.64	6.91	4.06	3.24	3.51	3.78	9.80	357.10	53.91	9.80	561.15	23.92	
27	16.40	6.91	3.78	3.24	3.78	4.92	6.91	151.49	33.98	11.03	566.05	19.30	
28	19.30	5.84	3.78	3.24	3.51	8.03	6.36	82.95	20.81	9.80	200.74	17.11	
29	20.05	6.91	4.06	3.24	6.36	9.19	11.03	400.60	19.30	9.80		15.69	
30	13.64	5.53	3.78	3.51	11.67	5.22	14.31	261.68	217.44	9.19		15.69	
31		5.53		3.24	5.53		26.34		66.45	8.60		18.56	
Total	296.44	384.61	157.89	124.58	130.41	125.32	307.70	3471.90	3264.54	522.79	2796.78	1021.89	12604.85 Tonday
Mean	9.88	12.41	5.26	4.02	4.21	4.18	9.93	115.73	105.31	16.86	99.88	32.96	34.53 Ton/day
Max	43.13	50.90	12.31	5.53	11.67	9.19	71.68	535.63	1361.13	45.03	566.05	102.94	1361.13 Ton/day
Min	3.51	5.53	3.78	3.24	3.24	3.24	3.78	7.46	13.64	8.60	7.46	15.00	3.24 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

Lat 10 - 35 - 40 N Long 99 - 08 - 30 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

	Ban Wang Khrok	Amphoe Tha Sae	Changwat Chumphon
<b>Drainage Area</b>	1,817 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D - 48		
<b>Period of Available Records</b>	1996 - Cont'd		
<b>Actual Measurement</b>	1996 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.7157		
<b>Remarks</b>	Continued Sediment Station		

QS = 1.4351 QW<sup>1.23640</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.99	28.45	23.52	27.20	483.30	96.20	89.90	250.44	876.52	61.17	30.99	74.52	
2	3.38	17.62	21.12	27.20	257.69	147.56	133.91	202.63	844.45	53.98	29.72	71.51	
3	3.38	9.98	70.01	24.73	208.82	125.52	109.05	580.87	397.26	56.84	37.49	67.04	
4	3.38	6.99	68.52	22.31	223.40	76.03	115.58	299.62	299.62	59.72	52.57	62.63	
5	13.15	5.13	44.22	19.94	287.15	99.39	257.69	190.36	229.71	53.98	45.59	55.41	
6	15.35	9.98	25.96	17.62	257.69	85.23	210.89	190.36	170.25	52.57	70.01	51.16	
7	12.08	33.56	34.86	21.12	583.67	85.23	176.24	198.53	170.25	45.59	56.84	46.97	
8	8.96	37.49	109.05	42.86	389.37	123.85	898.04	188.33	192.40	48.36	49.75	52.57	
9	19.94	46.97	272.37	61.17	260.14	166.27	1310.99	194.44	196.48	52.57	45.59	80.60	
10	38.82	30.99	360.68	160.35	200.58	402.52	1592.69	456.03	142.41	45.59	37.49	53.98	
11	17.62	6.99	279.74	1269.95	174.23	437.15	1086.28	1021.87	132.23	44.22	36.17	53.98	
12	5.13	6.05	350.35	450.64	304.60	329.85	934.15	1059.87	145.84	44.22	38.82	45.59	
13	4.24	4.24	194.44	223.40	236.05	184.28	1549.41	1912.34	172.24	44.22	61.17	51.16	
14	3.38	5.13	94.62	118.88	257.69	182.26	919.66	3519.10	100.98	42.86	58.27	40.16	
15	3.38	4.24	74.52	89.90	166.27	289.65	1608.98	3850.47	91.47	44.22	229.71	33.56	
16	16.48	9.98	58.27	64.09	123.85	176.24	1792.99	4101.83	105.81	45.59	538.62	41.51	
17	14.24	27.20	49.75	52.57	110.67	140.70	1059.87	2405.12	130.54	41.51	1007.12	42.86	
18	38.82	22.31	53.98	48.36	100.98	210.89	684.11	1893.40	102.59	36.17	606.47	30.99	
19	48.36	21.12	46.97	49.75	91.47	158.39	431.81	2592.10	73.01	38.82	219.22	29.72	
20	16.48	24.73	41.51	74.52	112.31	120.53	317.20	1379.93	80.60	44.22	252.87	59.72	
21	6.99	25.96	40.16	282.23	217.13	182.26	423.79	805.52	109.05	36.17	166.27	200.58	
22	6.05	42.86	41.51	453.36	194.44	294.60	791.44	552.60	89.90	40.16	204.69	109.05	
23	6.05	52.57	38.82	274.79	208.82	469.63	502.54	732.20	68.52	41.51	267.45	206.76	
24	5.13	32.27	36.17	140.70	149.28	274.79	513.55	1849.34	67.04	52.57	133.91	267.45	
25	4.24	27.20	29.72	447.93	127.19	250.44	1805.48	1260.87	67.04	51.16	79.07	208.82	
26	4.24	151.01	27.20	746.07	151.01	231.82	1366.09	670.46	105.81	44.22	71.51	260.14	
27	3.38	88.34	27.20	583.67	132.23	192.40	687.52	494.23	109.05	37.49	70.01	117.23	
28	6.99	55.41	25.96	830.24	127.19	215.05	355.48	384.10	79.07	34.86	82.14	142.41	
29	33.56	38.82	23.52	423.79	123.85	192.40	243.22	319.70	59.72	37.49		113.94	
30	53.98	29.72	23.52	851.54	118.88	152.74	324.79	307.12	67.04	40.16		158.39	
31		27.20		787.94	147.56		304.60		77.55	34.86		358.08	
Total	424.17	930.51	2588.24	8688.82	6527.51	6093.87	22597.94	33863.78	5554.45	1407.07	4579.53	3188.49	96444.38 Ton/day
Mean	14.14	30.02	86.27	280.28	210.56	203.13	728.97	1128.79	179.18	45.39	163.55	102.85	264.23 Ton/day
Max	53.98	151.01	360.68	1269.95	583.67	469.63	1805.48	4101.83	876.52	61.17	1007.12	358.08	4101.83 Ton/day
Min	3.38	4.24	21.12	17.62	91.47	76.03	89.90	188.33	59.72	34.86	29.72	29.72	3.38 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

Lat 08 - 16 - 51 N Long 99 - 54 - 21 E

Location : on right bank at the bridge.

	<b>Ban</b> Sao Thong	<b>Amphoe</b> Ron Phibun	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	279 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	1998 - 2009 , 2012 - Cont'd		
<b>Actual Measurement</b>	1998 - 2009 , 2012 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.8883		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.3455 QW^{1.50800}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.66	46.41	107.11	20.62	23.38	18.07	33.19	67.32	1227.78	699.25	206.65	953.46	
2	35.29	54.07	71.95	24.26	25.25	15.55	35.29	74.37	3843.90	306.49	131.30	578.57	
3	33.19	67.32	89.02	21.56	26.15	12.45	31.14	96.59	4426.68	202.62	111.03	412.64	
4	32.11	48.75	134.97	18.07	25.25	10.99	29.13	71.95	2533.19	182.86	88.87	325.16	
5	39.62	44.11	204.63	15.55	28.09	9.88	29.13	79.16	1022.00	156.36	37.89	301.88	
6	36.30	42.91	91.47	18.88	34.18	8.81	29.13	89.02	684.65	138.31	111.03	235.63	
7	45.19	52.02	86.44	30.08	28.09	7.32	25.25	62.80	517.87	117.66	98.16	202.62	
8	41.84	58.38	69.69	27.16	23.38	6.80	26.15	84.04	418.02	107.76	76.97	218.91	
9	37.43	69.69	52.02	27.16	20.62	8.81	35.29	134.97	380.88	107.76	37.89	329.89	
10	35.29	54.07	47.52	31.14	23.38	18.07	35.29	1127.78	329.89	107.76	24.45	202.62	
11	33.19	46.41	54.07	33.19	30.08	22.41	31.14	3843.90	329.89	88.87	19.33	156.36	
12	32.11	42.91	89.02	27.16	32.11	21.56	30.08	2961.14	386.11	82.85	16.15	131.30	
13	41.84	39.62	89.02	23.38	27.16	19.79	30.08	2448.94	301.88	82.85	16.15	114.33	
14	56.28	37.43	71.95	21.56	23.38	18.88	46.41	1227.78	252.75	79.89	65.66	107.76	
15	58.38	35.29	56.28	26.15	21.56	19.79	39.62	648.63	194.63	76.97	231.41	98.16	
16	46.41	34.18	47.52	18.88	32.11	19.79	33.19	592.36	141.86	74.09	2490.95	79.89	
17	76.68	34.18	44.11	15.55	54.07	16.40	41.84	537.85	171.33	71.24	2769.78	65.66	
18	107.11	37.43	40.66	12.45	40.66	15.55	71.95	1079.04	235.63	71.24	1108.13	57.59	
19	91.47	34.18	38.46	6.80	34.18	19.79	49.88	655.78	202.62	68.43	919.79	107.76	
20	58.38	33.19	36.30	2.62	29.13	40.66	89.02	459.47	171.33	57.59	511.26	613.26	
21	123.57	33.19	38.46	4.13	29.13	38.46	49.88	325.16	145.44	54.98	511.26	829.98	
22	99.27	37.43	35.29	15.55	31.14	35.29	40.66	301.88	138.31	44.95	434.28	257.10	
23	89.02	46.41	32.11	16.40	29.13	32.11	37.43	274.72	124.42	37.89	315.78	315.78	
24	65.11	40.66	31.14	15.55	25.25	27.16	45.19	440.54	114.33	35.85	334.88	349.99	
25	48.75	34.18	32.11	13.24	22.41	23.38	84.04	1533.30	134.79	33.85	465.84	423.41	
26	45.19	46.41	30.08	12.45	19.79	21.56	65.11	2575.68	257.10	31.89	1327.20	344.93	
27	41.84	44.11	28.09	11.75	20.62	20.62	49.88	1851.57	186.75	49.88	4035.07	182.86	
28	47.52	46.41	26.15	12.45	19.79	94.10	41.84	782.92	178.99	107.76	2791.64	134.79	
29	65.11	45.19	22.41	13.24	18.88	52.02	38.46	2407.17	194.63	167.55		127.84	
30	54.07	40.66	21.56	27.16	23.38	36.30	38.46	3980.13	759.90	149.05		101.33	
31		38.46		28.09	23.38		44.11		1207.56	149.05		160.06	
Total	1658.22	1365.66	1819.61	592.23	845.11	712.37	1307.26	30815.96	21215.11	3743.55	19288.80	8521.52	91885.40 Ton/day
Mean	55.27	44.05	60.65	19.10	27.26	23.75	42.17	1027.20	684.36	120.76	688.89	274.89	251.74 Ton/day
Max	123.57	69.69	204.63	33.19	54.07	94.10	89.02	3980.13	4426.68	699.25	4035.07	953.46	4426.68 Ton/day
Min	32.11	33.19	21.56	2.62	18.88	6.80	25.25	62.80	114.33	31.89	16.15	57.59	2.62 Ton/day

## WATER YEAR : 2021

## TAPI RIVER BASIN

## Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)

Lat 08 - 30 - 31 N Long 99 - 30 - 38 E

Location : on left bank at Ban Tha Pho.

	<b>Ban</b> Tha Pho	<b>Amphoe</b> Chawang	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	492 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	1998 - Cont'd		
<b>Actual Measurement</b>	1998 - 2002, 2005-2006, 2011 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.8540		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.0064 QW^{1.72560}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.94	105.24	270.91	153.23	256.47	321.11	583.91	329.98	2040.81	321.11	44.18	348.04	
2	35.62	86.38	215.16	170.88	303.66	312.33	993.19	454.48	3980.30	256.47	44.18	242.36	
3	35.62	125.63	195.66	164.91	348.04	303.66	702.00	444.32	4586.33	235.43	50.31	189.33	
4	32.94	110.19	286.62	147.53	357.22	278.26	606.80	414.40	2105.27	228.59	57.25	159.02	
5	38.39	95.62	221.83	164.91	394.94	263.65	464.74	329.98	1555.99	228.59	47.20	125.63	
6	32.94	95.62	208.57	164.91	357.22	256.47	270.91	278.26	1281.48	195.66	44.18	100.38	
7	30.35	115.25	270.91	221.83	434.25	249.37	263.65	208.57	1094.60	164.91	57.25	90.95	
8	30.35	125.63	208.57	215.16	348.04	242.36	256.47	195.66	964.98	136.40	50.31	77.55	
9	27.85	141.91	176.94	221.83	338.96	249.37	303.66	202.07	855.58	136.40	44.18	90.95	
10	30.35	130.97	183.09	286.62	329.98	278.26	286.62	464.74	714.31	120.39	41.24	73.28	
11	32.94	125.63	221.83	278.26	414.40	338.96	286.62	1518.10	689.78	110.19	38.39	61.10	
12	30.35	125.63	208.57	235.43	751.77	329.98	278.26	1672.00	496.11	105.24	38.39	57.25	
13	41.24	130.97	263.65	195.66	561.40	303.66	263.65	2019.52	424.27	100.38	38.39	50.31	
14	41.24	115.25	228.59	164.91	475.10	303.66	366.50	1443.50	394.94	95.62	53.50	47.20	
15	50.31	115.25	228.59	120.39	506.75	295.09	394.94	937.11	375.88	90.95	77.55	44.18	
16	65.06	110.19	208.57	110.19	506.75	278.26	270.91	951.00	348.04	81.92	249.37	53.50	
17	50.31	105.24	195.66	100.38	550.28	249.37	278.26	1109.42	329.98	73.28	618.38	57.25	
18	81.92	189.33	215.16	90.95	506.75	249.37	434.25	1893.72	295.09	69.12	235.43	61.10	
19	115.25	202.07	208.57	86.38	454.48	278.26	385.37	1462.00	286.62	73.28	159.02	57.25	
20	130.97	235.43	208.57	81.92	550.28	606.80	606.80	1065.20	270.91	65.06	141.91	100.38	
21	86.38	202.07	215.16	81.92	444.32	496.11	414.40	855.58	215.16	65.06	153.23	141.91	
22	69.12	183.09	208.57	77.55	528.33	434.25	366.50	739.20	202.07	61.10	120.39	90.95	
23	53.50	208.57	183.09	73.28	485.56	496.11	454.48	764.44	195.66	61.10	110.19	73.28	
24	53.50	176.94	221.83	73.28	404.62	394.94	424.27	842.30	189.33	57.25	105.24	81.92	
25	47.20	159.02	176.94	73.28	366.50	348.04	414.40	3701.88	176.94	53.50	120.39	81.92	
26	44.18	242.36	147.53	81.92	414.40	348.04	321.11	6622.78	183.09	53.50	506.75	100.38	
27	50.31	312.33	147.53	90.95	424.27	338.96	278.26	2486.25	235.43	50.31	1200.12	86.38	
28	47.20	394.94	136.40	95.62	366.50	375.88	249.37	1672.00	183.09	50.31	714.31	81.92	
29	61.10	366.50	136.40	105.24	329.98	404.62	228.59	2556.23	170.88	47.20		95.62	
30	95.62	249.37	159.02	183.09	357.22	394.94	195.66	5301.19	751.77	47.20		95.62	
31		202.07		202.07	338.96		270.91		583.91	44.18		147.53	
Total	1575.05	5284.69	6158.49	4514.48	13207.40	10020.14	11915.46	42935.88	26178.60	3479.70	5161.23	3164.44	133595.56 Ton/day
Mean	52.50	170.47	205.28	145.63	426.05	334.00	384.37	1431.20	844.47	112.25	184.33	102.08	366.02 Ton/day
Max	130.97	394.94	286.62	286.62	751.77	606.80	993.19	6622.78	4586.33	321.11	1200.12	348.04	6622.78 Ton/day
Min	27.85	86.38	136.40	73.28	256.47	242.36	195.66	195.66	170.88	44.18	38.39	44.18	27.85 Ton/day

**WATER YEAR : 2021****TAPI RIVER BASIN****Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)**

Lat 08 - 24 - 52 N Long 99 - 15 - 00 E

Location : on right bank at Ban Bang Rup.

	<b>Ban</b>	<b>Bang Rup</b>	<b>Amphoe</b>	<b>Phrasaeng</b>	<b>Changwat</b>	<b>Surat Thani</b>
<b>Drainage Area</b>	924	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US DH - 49					
<b>Period of Available Records</b>	2009 - Cont' d					
<b>Actual Measurement</b>	2009 - Cont' d					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	15					
<b>R-Square</b>	0.7624					
<b>Remarks</b>	Continued Sediment Station					

QS = 18.6020 QW<sup>0.82890</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.92	73.19	92.23	58.45	288.66	184.63	456.11	300.78	802.27	111.98	43.03	95.76	
2	51.92	70.39	69.45	58.45	281.55	217.56	479.25	241.52	849.13	102.86	43.03	87.78	
3	51.92	58.45	59.30	58.45	326.85	232.76	490.26	275.64	885.76	97.52	43.03	85.08	
4	51.92	56.62	59.30	58.45	352.25	208.98	494.34	368.65	885.76	94.00	42.38	83.28	
5	51.92	55.64	58.45	58.45	292.25	164.33	433.37	426.67	861.38	93.12	42.38	80.55	
6	51.92	55.64	84.18	58.45	257.22	124.20	285.16	418.66	821.36	91.34	42.38	78.72	
7	51.92	55.64	104.70	85.08	314.09	111.13	190.94	446.61	778.80	89.56	41.72	75.97	
8	51.92	55.64	71.32	239.33	270.86	111.98	183.57	495.75	727.08	87.78	41.72	73.19	
9	51.92	55.64	59.30	333.24	147.93	132.99	231.67	529.35	630.57	85.98	41.72	69.45	
10	51.92	54.78	89.56	387.94	119.18	259.46	295.91	553.95	443.97	83.28	41.72	67.56	
11	51.92	58.45	143.89	421.34	155.92	377.70	278.03	571.95	292.25	76.89	41.72	64.72	
12	51.92	112.94	122.21	439.96	202.51	430.71	196.17	591.95	252.73	71.32	41.07	62.08	
13	51.92	195.13	130.11	462.87	317.87	458.81	156.92	570.28	222.83	66.62	41.07	60.27	
14	51.92	210.01	99.27	482.01	359.80	462.87	226.15	543.21	198.26	60.27	41.07	58.45	
15	60.27	107.49	93.12	488.85	319.16	357.29	320.44	530.89	183.57	55.64	40.41	57.48	
16	187.79	104.70	99.27	398.53	348.47	275.64	314.09	520.83	172.93	51.05	40.41	55.64	
17	200.34	124.20	149.93	207.86	493.01	220.71	226.15	470.95	164.33	50.04	148.93	52.92	
18	107.49	147.93	154.93	134.94	506.84	161.07	212.16	409.32	158.90	49.16	283.93	51.05	
19	60.27	74.12	90.46	99.27	520.83	171.86	191.99	460.17	151.93	49.16	196.17	50.04	
20	55.64	57.48	61.12	85.08	540.14	352.25	275.64	483.35	154.93	48.15	101.01	75.04	
21	55.64	57.48	62.08	75.04	560.22	407.93	329.41	499.82	166.49	46.24	81.46	236.05	
22	55.64	61.12	62.92	66.62	588.62	430.71	382.82	527.80	156.92	46.24	64.72	273.26	
23	97.52	104.70	43.67	51.92	619.60	454.75	414.68	540.14	148.93	45.60	52.92	241.52	
24	137.90	107.49	66.62	49.16	623.26	472.30	425.38	540.14	140.85	45.60	48.15	139.84	
25	94.88	79.64	98.39	47.26	610.38	450.68	414.68	523.62	129.08	44.96	61.12	109.32	
26	57.48	105.67	66.62	44.96	597.53	293.47	429.34	515.25	124.20	44.96	109.32	117.39	
27	55.64	211.13	59.30	43.67	578.63	196.17	502.63	550.89	118.33	44.96	111.13	186.74	
28	57.48	198.26	58.45	42.38	541.68	190.94	597.53	585.30	111.98	44.32	111.98	293.47	
29	63.88	250.48	58.45	40.41	433.37	299.56	575.29	654.69	106.53	43.67		328.13	
30	65.67	249.30	58.45	87.78	266.15	413.30	533.98	774.52	111.13	43.67		261.69	
31		145.91		282.78	195.13		462.87		116.54	43.03		134.02	
Total	2140.41	3355.26	2527.05	5448.98	12029.96	8626.74	11006.93	14922.65	11069.72	2008.97	2039.70	3706.46	78882.83 Tonday
Mean	71.35	108.23	84.23	175.77	388.06	287.56	355.06	497.42	357.09	64.81	72.85	119.56	216.12 Ton/day
Max	200.34	250.48	154.93	488.85	623.26	472.30	597.53	774.52	885.76	111.98	283.93	328.13	885.76 Ton/day
Min	51.92	54.78	43.67	40.41	119.18	111.13	156.92	241.52	106.53	43.03	40.41	50.04	40.41 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Lower Khlong Lang Suan at Thanon Luk Suea , Chumphon (X.212)

Lat 09 - 57 - 17 N Long 99 - 04 - 48 E

Location : on left bank at the bridge.

	<b>Ban -</b>	<b>Amphoe</b>	Lang Suan	<b>Changwat</b>	Chumphon
<b>Drainage Area</b>	1,407	sq.km.			
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US DH - 49				
<b>Period of Available Records</b>	2015 - Cont' d				
<b>Actual Measurement</b>	2015 - Cont' d				
<b>Using Rating Curve Water Year</b>	2021				
<b>Number of observation</b>	18				
<b>R-Square</b>	0.8643				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 4.5778 QW^{1.31710}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1542.68	1894.24	1567.20	1469.66	4276.38	1842.96	2050.05	2589.83	56109.58	3525.34	265.18	272.41		
2	1373.65	1997.78	1567.20	1518.24	3837.71	1842.96	3325.12	2941.94	55807.38	3292.76	236.72	194.08		
3	1349.90	2076.31	1542.68	1373.65	6504.81	1567.20	2102.64	2729.37	50606.21	3228.27	236.72	170.66		
4	1666.23	1997.78	1326.24	1421.46	10020.57	1894.24	2129.06	2424.74	20524.62	3196.15	272.41	136.95		
5	1792.03	2023.88	1255.88	1302.69	10676.68	1894.24	1666.23	2785.68	10182.21	2785.68	386.17	86.35		
6	2343.18	2102.64	1123.68	1210.65	6634.93	1641.34	1868.56	2757.49	7161.53	2617.60	294.39	101.31		
7	1945.84	1945.84	1080.78	1145.27	5695.47	1616.53	7473.12	2847.94	6332.29	2729.37	159.22	101.31		
8	1817.45	2050.05	1302.69	1445.51	4120.62	1349.90	14463.23	3196.15	5821.53	2562.13	136.95	153.58		
9	2050.05	1868.56	1691.21	2289.19	3559.73	2879.19	30672.04	3164.09	4631.85	2235.50	188.15	200.04		
10	1997.78	1868.56	2235.50	2452.07	2879.19	2785.68	20524.62	3357.56	4512.60	116.83	176.44	126.13		
11	2370.29	1894.24	2816.77	5863.70	2534.51	4120.62	13332.93	4711.76	4394.11	164.92	170.66	116.83		
12	2182.12	1716.29	3260.48	2973.44	3663.38	2757.49	16175.37	15201.96	3663.38	257.99	182.28	136.95		
13	1842.96	1591.82	2343.18	2262.31	2562.13	2102.64	22267.34	33292.74	3559.73	206.05	170.66	188.15		
14	1868.56	1666.23	1920.00	1766.70	2452.07	1817.45	11407.99	26544.23	3594.20	170.66	224.33	176.44		
15	1691.21	1591.82	1591.82	1445.51	2397.48	2617.60	10128.26	12743.63	3068.41	194.08	272.41	164.92		
16	1766.70	1591.82	1591.82	1971.77	2343.18	2424.74	6591.49	16553.59	2879.19	188.15	250.85	126.13		
17	1591.82	1567.20	1518.24	1591.82	2076.31	2182.12	4872.56	8802.52	3228.27	176.44	354.92	93.76		
18	1493.90	1493.90	1469.66	1469.66	2023.88	2050.05	3943.23	13332.93	3594.20	164.92	188.15	82.70		
19	1666.23	1397.51	1326.24	1373.65	1945.84	1842.96	3390.07	15949.45	3491.03	218.20	206.05	68.49		
20	1616.53	1188.76	1326.24	1445.51	2076.31	1591.82	3132.12	8542.83	2701.32	224.33	112.90	65.04		
21	1716.29	1349.90	1102.18	6075.62	2262.31	2023.88	3036.67	5611.81	3005.02	194.08	164.92	257.99		
22	1666.23	1166.97	1210.65	9806.03	1868.56	3325.12	2729.37	4751.84	3100.23	182.28	236.72	61.64		
23	1641.34	1279.23	1188.76	2562.13	1591.82	3559.73	2879.19	9221.87	3164.09	112.90	397.61	71.98		
24	1616.53	1493.90	1302.69	2076.31	1666.23	2645.43	4276.38	14396.13	3005.02	75.51	386.17	79.09		
25	1691.21	1445.51	1445.51	2182.12	2235.50	2343.18	3594.20	36797.15	2785.68	116.83	467.89	126.13		
26	1691.21	2262.31	1641.34	3005.02	4120.62	2729.37	3292.76	28805.45	2910.53	147.99	455.99	93.76		
27	1766.70	1971.77	1691.21	3491.03	3357.56	3164.09	3196.15	10398.69	2316.15	153.58	386.17	71.98		
28	1591.82	1842.96	1567.20	2316.15	2534.51	2757.49	2757.49	6461.58	2479.48	153.58	339.53	79.09		
29	1741.45	1666.23	1493.90	2701.32	2182.12	2562.13	2879.19	4994.01	2816.77	147.99		101.31		
30	1894.24	1766.70	1445.51	6246.45	2235.50	2424.74	2701.32	12808.79	3422.65	170.66		159.22		
31		1616.53		6203.63	2050.05		2910.53		3698.09	206.05		86.35		
Total	52986.13	53387.24	47946.46	84458.27	108385.96	70356.89	215769.28	318717.75	288567.35	29916.82	7320.56	3950.77	1281763.48	Ton/day
Mean	1766.20	1722.17	1598.22	2724.46	3496.32	2345.23	6960.30	10623.92	9308.62	965.06	261.45	127.44	3511.68	Ton/day
Max	2370.29	2262.31	3260.48	9806.03	10676.68	4120.62	30672.04	36797.15	56109.58	3525.34	467.89	272.41	56109.58	Ton/day
Min	1349.90	1166.97	1080.78	1145.27	1591.82	1349.90	1666.23	2424.74	2316.15	75.51	112.90	61.64	61.64	Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)

Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

Location : on left bank at Ban Hat Nai.

	<b>Ban Hat Nai</b>	<b>Amphoe Tha Sae</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	626 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 49		
<b>Period of Available Records</b>	2006 - Cont' d		
<b>Actual Measurement</b>	2006 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.7693		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.1511 QW^{1.45300}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.05	172.47	70.16	40.55	1109.25	375.33	440.86	561.72	3343.21	192.08	77.56	167.68	
2	13.05	77.56	97.03	28.88	882.99	406.43	742.41	638.48	1365.62	187.12	73.83	182.20	
3	13.05	59.51	406.43	24.57	757.65	375.33	417.81	1109.25	851.10	182.20	89.08	148.91	
4	13.05	46.19	158.21	21.48	967.60	375.33	417.81	742.41	682.42	177.31	167.68	130.86	
5	22.50	40.55	89.08	18.53	915.25	452.53	561.72	512.29	599.72	172.47	135.30	122.11	
6	26.70	46.19	97.03	18.53	899.07	327.22	440.86	512.29	549.23	172.47	254.69	117.80	
7	33.40	89.08	81.34	109.34	1576.14	317.85	867.00	500.15	512.29	162.92	148.91	105.19	
8	73.83	63.00	212.34	117.80	1278.33	365.54	10777.29	452.53	476.16	158.21	122.11	101.08	
9	177.31	56.08	788.42	281.22	851.10	1047.81	9093.13	512.29	440.86	153.54	105.19	126.46	
10	70.16	49.42	1235.36	3539.26	712.22	1712.40	4252.14	1522.64	417.81	148.91	101.08	122.11	
11	43.03	46.19	625.47	7258.70	682.42	1235.36	2550.25	915.25	395.14	139.79	89.08	105.19	
12	41.78	40.55	915.25	967.60	867.00	851.10	5059.64	2450.42	375.33	135.30	97.03	89.08	
13	39.33	38.12	237.46	561.72	667.67	625.47	4410.12	9615.30	355.84	135.30	237.46	73.83	
14	34.56	34.56	153.54	395.14	835.29	712.22	5863.18	8580.15	336.68	130.86	228.99	63.00	
15	70.16	43.03	130.86	308.56	638.48	1027.57	12997.96	13943.01	327.22	126.46	638.48	63.00	
16	126.46	97.03	97.03	272.28	524.51	788.42	4623.53	4785.63	299.36	117.80	803.95	63.00	
17	66.55	202.13	85.18	228.99	464.30	599.72	2898.80	2742.18	308.56	113.55	947.86	56.08	
18	52.72	93.03	101.08	207.21	417.81	574.30	1795.83	8495.56	290.25	113.55	406.43	52.72	
19	52.72	177.31	59.51	237.46	395.14	429.29	1343.63	3941.64	281.22	109.34	612.55	52.72	
20	40.55	109.34	43.03	375.33	625.47	406.43	1150.82	2001.43	272.28	109.34	299.36	153.54	
21	36.92	177.31	59.51	2222.39	788.42	915.25	1469.71	1278.33	263.44	113.55	308.56	385.20	
22	40.55	317.85	49.42	1047.81	638.48	1823.91	1109.25	1027.57	254.69	162.92	697.27	228.99	
23	39.33	202.13	38.12	549.23	440.86	1391.42	967.60	3018.04	237.46	139.79	299.36	512.29	
24	34.56	177.31	36.92	406.43	488.11	931.51	3098.35	2703.44	228.99	135.30	220.61	947.86	
25	29.99	237.46	33.40	3688.57	712.22	819.57	2742.18	1256.79	228.99	207.21	192.08	464.30	
26	32.25	987.46	33.40	2001.43	574.30	742.41	1109.25	931.51	254.69	153.54	177.31	1007.45	
27	31.11	299.36	33.40	3343.21	488.11	788.42	851.10	788.42	237.46	126.46	167.68	355.84	
28	66.55	192.08	28.88	2254.54	440.86	899.07	727.27	697.27	220.61	113.55	172.47	281.22	
29	126.46	130.86	26.70	1522.64	549.23	574.30	638.48	625.47	207.21	105.19		327.22	
30	417.81	109.34	24.57	5338.35	440.86	476.16	697.27	653.02	202.13	93.03		899.07	
31		89.08		1712.40	406.43		682.42		197.09	81.34		727.27	
<b>Total</b>	1879.49	4501.58	6048.13	39100.15	22035.57	22367.67	84797.67	77514.48	15013.06	4370.40	7871.96	8233.27	293733.43 Tonday
<b>Mean</b>	62.65	145.21	201.60	1261.30	710.82	745.59	2735.41	2583.82	484.29	140.98	281.14	265.59	804.75 Ton/day
<b>Max</b>	417.81	987.46	1235.36	7258.70	1576.14	1823.91	12997.96	13943.01	3343.21	207.21	947.86	1007.45	13943.01 Ton/day
<b>Min</b>	13.05	34.56	24.57	18.53	395.14	317.85	417.81	452.53	197.09	81.34	73.83	52.72	13.05 Ton/day

**WATER YEAR : 2021****TAPI RIVER BASIN****Khlong I - Pan at Ban Mai , Surat Thani (X.258)**

Lat 08 - 32 - 53 N Long 99 - 06 - 36 E

Location : on left bank at Ban Mai.

	<b>Ban Mai</b>	<b>Amphoe Phrasaeng</b>	<b>Changwat</b>	<b>Surat Thani</b>
<b>Drainage Area</b>	1,044 sq.km.			
<b>Method of sampling</b>	Depth Integrating			
<b>Instrument Used</b>	US DH - 49			
<b>Period of Available Records</b>	2019 - Cont' d			
<b>Actual Measurement</b>	2019 - Cont' d			
<b>Using Rating Curve Water Year</b>	2021			
<b>Number of observation</b>	15			
<b>R-Square</b>	0.7210			
<b>Remarks</b>	Continued Sediment Station			

$$QS = 3.0222 QW^{1.13970}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.49	48.40	30.95	18.06	116.84	211.35	160.58	112.00	1156.51	87.16	24.62	31.41	
2	17.21	88.72	26.41	18.49	127.13	294.02	160.58	86.64	960.54	78.37	36.97	28.67	
3	24.18	92.90	23.29	16.78	109.32	298.62	131.50	133.14	747.02	73.26	26.41	25.96	
4	18.92	41.69	21.97	15.51	122.24	218.32	105.05	123.87	580.32	68.70	24.62	24.62	
5	25.07	30.04	22.85	18.92	124.41	176.94	79.92	137.42	415.57	65.17	24.62	41.69	
6	18.92	24.18	29.58	22.85	121.70	164.12	60.18	173.25	318.23	63.17	23.73	38.38	
7	33.25	21.53	29.12	56.71	127.68	155.71	54.25	240.28	262.49	60.68	26.86	39.32	
8	41.69	22.85	23.29	47.92	88.72	152.93	57.70	572.45	215.71	58.69	40.27	31.41	
9	27.31	30.49	22.85	68.19	57.70	164.12	75.81	743.97	192.33	57.21	55.23	33.25	
10	38.38	27.76	23.29	161.98	64.17	332.23	96.58	556.76	171.84	54.74	40.74	26.41	
11	53.76	23.29	29.58	242.05	142.05	387.42	80.43	344.20	155.71	52.78	30.95	23.29	
12	32.33	21.53	30.04	242.93	317.07	289.44	93.43	276.58	146.70	51.32	27.76	21.97	
13	61.17	71.23	36.04	138.08	399.18	203.54	159.91	244.70	144.71	48.89	29.58	22.41	
14	55.73	78.89	36.04	128.22	313.60	190.61	246.47	256.25	201.81	46.95	50.34	27.76	
15	49.37	91.33	54.25	119.00	164.79	207.01	312.45	233.23	183.76	45.51	43.12	25.52	
16	41.69	44.07	37.91	116.30	105.05	181.20	191.47	214.84	169.75	44.07	48.89	22.41	
17	30.49	68.70	29.12	91.33	166.20	160.58	124.96	217.45	156.38	42.64	113.07	19.79	
18	24.62	66.18	24.62	51.32	243.82	150.14	119.54	245.59	144.71	41.21	73.26	19.35	
19	20.66	38.38	21.53	40.27	216.58	265.41	141.39	305.52	134.79	39.32	42.64	30.04	
20	20.22	29.12	19.35	35.11	109.85	345.43	194.05	347.83	121.16	38.38	37.44	58.69	
21	23.73	25.52	19.79	32.33	162.71	503.55	212.22	459.30	107.72	37.91	32.79	86.64	
22	23.29	23.73	18.92	30.95	325.19	459.30	182.90	670.37	97.11	37.44	31.87	60.68	
23	21.97	57.70	19.35	28.67	399.18	252.69	250.02	622.50	86.12	37.44	29.12	47.44	
24	21.09	65.68	59.19	26.41	493.89	136.76	334.62	466.96	70.72	35.57	31.87	30.49	
25	20.66	39.32	67.69	25.07	403.63	102.40	302.07	343.03	63.17	33.71	47.92	78.89	
26	20.22	49.86	39.32	24.18	267.43	81.98	219.20	369.92	59.19	33.25	85.60	188.04	
27	25.52	85.60	30.49	23.29	231.47	68.19	139.41	372.40	58.19	38.85	47.92	227.08	
28	26.41	74.28	25.07	21.53	185.47	64.17	148.03	383.05	57.70	29.58	36.04	121.16	
29	44.07	55.73	21.53	24.18	189.75	113.07	141.39	413.69	56.71	26.86		120.08	
30	39.79	47.92	19.35	80.95	246.47	159.18	110.39	975.91	66.18	25.96		68.70	
31		38.85		173.99	242.05		100.28		84.05	25.07		49.37	
Total	920.21	1525.47	892.78	2141.57	6385.34	6490.43	4786.78	10643.10	7386.90	1479.86	1164.25	1670.92	45487.61 Tonday
Mean	30.67	49.21	29.76	69.08	205.98	216.35	154.41	354.77	238.29	47.74	41.58	53.90	124.62 Ton/day
Max	61.17	92.90	67.69	242.93	493.89	503.55	334.62	975.91	1156.51	87.16	113.07	227.08	1156.51 Ton/day
Min	17.21	21.53	18.92	15.51	57.70	64.17	54.25	86.64	56.71	25.07	23.73	19.35	15.51 Ton/day

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong Rattaphum at Ban Nasithong , Songkhla (X.67A)

Lat 07 - 06 - 50 N Long 100 - 12 - 16 E

Location : on right bank at Ban Nasithong.

	<b>Ban</b> Nasithong	<b>Amphoe</b> Rattaphum	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	257 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-59		
<b>Period of Available Records</b>	2008 - Cont' d		
<b>Actual Measurement</b>	2008 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	12		
<b>R-Square</b>	0.7216		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.8366 QW^{1.23540}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.41	75.83	14.12	9.18	38.14	20.04	51.27	148.63	325.13	292.15	36.55	239.48	
2	24.35	52.96	36.55	8.25	38.14	13.10	25.82	68.63	1468.62	392.99	31.86	174.27	
3	20.04	36.55	22.89	8.25	21.46	12.10	17.26	58.10	489.09	396.44	31.86	139.50	
4	21.46	30.33	51.27	7.33	16.20	10.14	17.26	58.10	424.29	308.56	38.14	117.19	
5	31.86	31.86	81.32	7.33	14.12	11.11	16.20	41.35	438.35	198.23	33.41	102.03	
6	21.46	42.97	59.83	7.33	13.10	9.18	14.12	38.14	264.61	160.19	30.33	112.82	
7	115.00	72.21	46.26	12.10	11.11	8.25	31.86	75.83	203.09	132.73	28.81	183.79	
8	61.57	47.92	41.35	11.11	10.14	8.25	33.41	47.92	171.91	112.82	27.31	108.48	
9	34.97	38.14	39.74	18.64	10.14	17.26	25.82	42.97	150.93	102.03	28.81	95.66	
10	27.31	30.33	27.31	220.28	8.25	70.42	17.26	95.66	141.78	91.46	27.31	83.16	
11	21.46	27.31	24.35	81.32	8.25	34.97	15.15	150.93	132.73	83.16	25.82	79.48	
12	20.04	22.89	24.35	39.74	10.14	20.04	13.10	288.89	117.19	77.65	24.35	74.02	
13	77.65	25.82	21.46	27.31	9.18	16.20	11.11	195.81	106.32	72.21	24.35	68.63	
14	160.19	21.46	20.04	25.82	8.25	17.26	9.18	115.00	104.17	68.63	24.35	87.29	
15	95.66	18.64	17.26	46.26	8.25	15.15	9.18	91.46	95.66	63.32	46.26	137.24	
16	59.83	17.26	18.64	33.41	8.25	14.12	8.25	81.32	87.29	59.83	39.74	85.22	
17	44.61	20.04	18.64	22.89	9.18	12.10	8.25	153.24	121.59	58.10	132.73	74.02	
18	42.97	17.26	17.26	18.64	11.11	12.10	14.12	634.49	167.20	56.38	87.29	66.85	
19	38.14	18.64	21.46	16.20	21.46	13.10	11.11	832.22	128.26	52.96	51.27	63.32	
20	36.55	30.33	16.20	15.15	46.26	12.10	34.97	463.16	119.39	51.27	44.61	75.83	
21	36.55	22.89	20.04	13.10	24.35	10.14	24.35	253.38	97.78	47.92	51.27	134.98	
22	30.33	54.66	15.15	12.10	18.64	18.64	14.12	188.58	89.37	46.26	44.61	81.32	
23	27.31	36.55	13.10	12.10	17.26	17.26	28.81	183.79	81.32	44.61	36.55	83.16	
24	33.41	25.82	15.15	11.11	13.10	12.10	52.96	308.56	75.83	42.97	36.55	85.22	
25	39.74	20.04	13.10	13.10	13.10	10.14	83.16	186.18	68.63	41.35	87.29	72.21	
26	34.97	17.26	12.10	13.10	12.10	16.20	44.61	150.93	65.08	39.74	746.41	77.65	
27	27.31	16.20	11.11	10.14	12.10	14.12	28.81	174.27	61.57	38.14	1425.07	63.32	
28	30.33	18.64	13.10	9.18	11.11	16.20	39.74	392.99	58.10	36.55	438.35	54.66	
29	51.27	16.20	11.11	10.14	10.14	18.64	25.82	966.09	56.38	34.97		65.08	
30	54.66	14.12	10.14	15.15	17.26	93.56	18.64	368.96	157.87	33.41		56.38	
31		16.20		21.46	20.04		47.92		181.40	41.35		52.96	
Total	1354.41	937.33	754.40	777.22	490.33	573.99	793.64	6855.58	6250.93	3278.38	3681.26	2995.22	28742.69 Tonday
Mean	45.15	30.24	25.15	25.07	15.82	19.13	25.60	228.52	201.64	105.75	131.47	96.62	78.75 Ton/day
Max	160.19	75.83	81.32	220.28	46.26	93.56	83.16	966.09	1468.62	396.44	1425.07	239.48	1468.62 Ton/day
Min	20.04	14.12	10.14	7.33	8.25	8.25	8.25	38.14	56.38	33.41	24.35	52.96	7.33 Ton/day

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)

Lat 06 - 55 - 52 N Long 100 - 26 - 24 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

	<b>Ban</b> Bang Sala	<b>Amphoe</b> Khlong Hoi Khong	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	1,534 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-48		
<b>Period of Available Records</b>	1982 - Cont' d		
<b>Actual Measurement</b>	1982 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8552		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1765 QW^{1.07200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	316.74	139.22	57.91	41.53	64.13	43.15	89.43	201.48	563.09	190.70	123.48	665.90	
2	327.89	67.89	69.15	46.81	93.27	74.18	90.71	160.39	463.92	332.07	183.54	471.06	
3	311.18	38.30	48.03	59.15	80.51	39.10	90.71	151.54	459.16	482.98	88.15	357.73	
4	308.40	75.45	135.71	33.49	75.45	66.64	69.15	137.46	388.21	244.98	40.72	241.33	
5	341.85	60.39	97.12	52.95	41.53	56.66	52.95	111.33	336.73	194.29	61.64	212.30	
6	363.11	77.98	165.71	46.81	25.58	41.53	43.15	126.96	281.62	187.12	100.98	276.11	
7	336.26	140.97	99.70	39.10	45.59	40.72	44.77	201.48	219.54	255.93	116.52	266.92	
8	478.31	80.51	70.40	46.81	59.15	39.91	98.41	205.09	203.28	277.94	51.72	257.76	
9	258.22	70.40	86.88	56.66	31.90	43.15	89.43	179.96	165.71	255.93	60.39	244.98	
10	146.25	49.26	56.66	35.09	19.37	56.66	56.66	162.16	165.71	215.92	76.71	230.42	
11	192.50	59.15	59.15	67.89	27.15	52.95	43.15	210.50	149.78	234.05	88.15	217.73	
12	237.69	76.71	42.34	48.03	41.53	33.49	43.96	421.22	135.71	234.05	100.98	239.51	
13	228.60	339.06	77.98	51.72	50.49	33.49	34.29	452.03	140.97	219.54	108.74	215.92	
14	215.01	237.69	65.39	42.34	28.73	32.69	59.15	367.09	132.21	205.09	112.63	197.89	
15	260.51	144.49	39.91	36.69	24.80	48.03	50.49	298.22	132.21	252.28	70.40	276.11	
16	149.78	102.27	51.72	43.15	31.90	43.96	75.45	320.45	130.46	300.07	46.81	383.51	
17	224.06	107.44	59.15	31.90	67.89	69.15	84.33	304.23	140.97	313.50	91.99	219.54	
18	144.49	111.33	70.40	39.10	64.13	54.19	36.69	597.88	171.05	235.87	128.71	254.10	
19	149.78	110.03	37.49	48.03	39.91	52.95	66.64	786.05	181.75	38.30	83.06	217.73	
20	217.27	100.98	40.72	49.26	66.64	65.39	38.30	993.84	187.12	65.39	90.71	223.16	
21	167.93	94.55	62.89	45.59	41.53	50.49	94.55	865.69	188.91	80.51	70.40	263.26	
22	135.71	161.28	64.13	41.53	81.78	56.66	70.40	560.20	171.05	88.15	70.40	224.97	
23	183.54	130.46	57.91	35.09	44.77	35.09	239.51	411.77	151.54	89.43	62.89	248.62	
24	72.92	111.33	46.81	31.10	31.90	44.77	376.47	437.79	187.12	85.60	40.72	196.09	
25	49.26	95.84	37.49	28.73	20.91	43.96	334.40	402.34	203.28	77.98	55.43	174.61	
26	34.29	85.60	71.66	23.24	55.43	69.15	306.55	343.72	205.09	75.45	217.27	197.89	
27	59.15	55.43	61.64	25.58	83.06	91.99	350.72	294.53	270.59	67.89	817.15	255.93	
28	34.29	72.92	38.30	40.72	56.66	123.48	304.23	334.40	248.62	59.15	921.39	203.28	
29	46.81	42.34	30.31	52.95	44.77	81.78	214.11	827.54	261.42	50.49		215.92	
30	98.41	40.72	62.89	56.66	91.99	60.39	158.62	872.64	172.83	69.15		239.51	
31		38.30		50.49	107.44		162.16		197.89	88.15		230.42	
Total	6090.21	3118.29	1965.55	1348.19	1639.89	1645.75	3869.54	11739.98	7007.54	5567.95	4081.68	8120.21	56194.78 Tonday
Mean	203.01	100.59	65.52	43.49	52.90	54.86	124.82	391.33	226.05	179.61	145.77	261.94	153.96 Ton/day
Max	478.31	339.06	165.71	67.89	107.44	123.48	376.47	993.84	563.09	482.98	921.39	665.90	993.84 Ton/day
Min	34.29	38.30	30.31	23.24	19.37	32.69	34.29	111.33	130.46	38.30	40.72	174.61	19.37 Ton/day

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlong Bang Kaeo at Ban Khuan In No Mo , Phutthalung (X.109)

Lat 07 - 20 - 43 N Long 100 - 03 - 24 E

Location : on left bank at Ban Khuan In No Mo.

	<b>Ban</b> Khuan In No Mo	<b>Amphoe</b> Ta Mot	<b>Changwat</b> Phatthalung
<b>Drainage Area</b>	121 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2005 - Cont'd		
<b>Actual Measurement</b>	2005 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	14		
<b>R-Square</b>	0.8065		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.3798 QW^{1.29870}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.94	18.75	13.47	12.56	138.85	7.02	9.06	9.06	55.48	181.12	11.66	198.04	
2	13.94	19.24	13.47	12.11	13.47	7.02	9.06	9.49	1753.66	192.93	12.11	158.04	
3	13.94	14.40	13.47	11.66	12.11	6.63	9.06	9.06	420.52	349.36	11.66	126.77	
4	13.94	14.40	13.47	11.22	9.91	6.24	8.64	9.49	143.60	176.12	11.66	99.74	
5	13.94	14.40	13.47	10.78	9.91	5.85	8.64	12.11	75.33	162.93	11.66	66.23	
6	13.94	14.40	13.47	10.34	9.06	5.85	9.06	9.06	56.44	96.47	11.66	59.34	
7	30.34	20.00	13.47	9.91	9.06	5.48	11.66	74.31	45.20	66.23	11.66	71.25	
8	14.87	14.87	13.47	12.56	8.64	5.48	10.34	24.65	38.04	39.80	11.66	58.37	
9	13.94	28.69	13.47	18.75	8.64	12.11	9.49	20.76	34.57	31.18	11.22	50.75	
10	13.94	14.40	13.47	19.24	8.64	12.56	9.06	51.69	29.51	27.87	11.22	46.12	
11	13.94	14.40	14.40	18.75	8.64	9.91	9.06	45.20	24.65	27.06	11.22	42.48	
12	13.94	14.40	14.40	18.25	8.64	9.91	9.49	192.93	22.30	27.06	11.22	35.43	
13	13.94	17.27	13.94	17.76	8.23	9.06	8.64	58.37	21.52	23.86	10.78	35.43	
14	13.94	14.40	13.94	17.27	8.23	9.06	8.23	38.92	20.76	23.07	10.78	52.63	
15	13.94	14.40	13.94	16.78	8.23	9.06	7.82	35.43	20.76	22.30	27.87	74.31	
16	13.94	14.40	13.47	16.30	13.02	8.23	7.82	35.43	20.76	20.76	43.38	59.34	
17	13.94	37.17	12.56	15.82	15.82	8.23	7.82	65.23	21.52	19.24	17.27	44.29	
18	38.92	16.30	12.56	15.34	12.56	8.23	10.34	92.15	30.34	18.25	41.59	41.59	
19	22.30	13.47	12.56	14.87	10.78	7.82	9.91	92.15	27.06	17.27	43.38	38.92	
20	14.40	14.87	12.56	14.40	10.78	7.82	50.75	41.59	25.45	16.30	17.76	35.43	
21	14.40	14.87	12.56	13.94	10.34	7.82	8.64	39.80	23.86	15.34	44.29	44.29	
22	14.40	14.40	12.56	13.47	10.34	11.22	7.82	35.43	23.07	14.40	27.06	40.69	
23	14.40	14.40	12.56	13.02	10.34	9.91	7.42	39.80	21.52	14.40	21.52	38.04	
24	17.27	14.40	12.56	12.56	9.49	8.64	7.42	71.25	38.04	13.47	19.24	34.57	
25	14.40	14.40	12.56	12.11	9.49	7.82	14.40	77.39	40.69	13.02	181.12	34.57	
26	14.40	15.82	12.56	11.66	9.49	7.82	8.23	64.24	30.34	11.66	795.35	34.57	
27	13.94	20.00	12.56	10.78	9.06	7.82	5.85	71.25	26.25	10.78	2491.27	30.34	
28	13.94	15.82	12.56	10.34	9.06	7.82	5.85	74.31	23.07	10.78	559.84	34.57	
29	13.94	14.40	12.56	9.91	8.23	31.18	5.85	113.07	18.75	10.78		33.72	
30	13.47	13.47	12.56	9.49	8.23	9.49	11.66	71.25	189.54	10.34		29.51	
31		13.02		9.06	7.82		9.91		406.35	10.34		29.51	
Total	474.49	509.63	394.63	421.01	435.11	271.11	317.00	1584.87	3728.95	1674.49	4491.11	1778.88	16081.28 Tonday
Mean	15.82	16.44	13.15	13.58	14.04	9.04	10.23	52.83	120.29	54.02	160.40	57.38	44.06 Ton/day
Max	38.92	37.17	14.40	19.24	138.85	31.18	50.75	192.93	1753.66	349.36	2491.27	198.04	2491.27 Ton/day
Min	13.47	13.02	12.56	9.06	7.82	5.48	5.85	9.06	18.75	10.34	10.78	29.51	5.48 Ton/day

**WATER YEAR : 2021****THALE SAP SONGKHLA****Khlong La Pang at Ban Thung Prap , Songkhla (X.113)**

Lat 06 - 38 - 06 N Long 100 - 23 - 36 E

Location : on right bank at Ban Thung Prap.

	<b>Ban</b> Thung Prap	<b>Amphoe</b> Sadao	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	117 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-49		
<b>Period of Available Records</b>	1981 - Cont' d		
<b>Actual Measurement</b>	1981 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	17		
<b>R-Square</b>	0.8166		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.8367 QW^{1.35690}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	55.26	13.67	10.74	4.19	177.89	7.64	30.66	28.55	53.52	8.38	9.15	20.51	
2	27.61	7.78	26.47	3.57	39.49	8.38	17.69	86.56	201.67	9.15	8.38	16.77	
3	16.95	15.06	10.74	17.69	13.24	6.90	15.87	27.50	108.23	8.38	7.64	14.98	
4	18.90	4.84	9.15	5.50	8.38	6.19	14.98	21.48	37.23	7.64	14.98	14.10	
5	9.39	5.92	11.56	4.19	8.38	5.50	13.24	18.62	32.81	7.64	22.45	14.98	
6	4.71	12.30	19.56	12.39	6.90	4.84	22.45	17.69	29.60	6.90	9.15	25.45	
7	10.18	14.10	29.60	11.56	5.50	5.50	59.79	29.60	26.47	7.64	8.38	51.92	
8	10.18	4.84	10.74	5.50	4.84	5.50	27.50	18.62	24.44	7.64	5.50	22.45	
9	4.19	4.19	9.15	15.87	4.84	21.48	19.56	39.49	23.44	7.64	4.84	18.62	
10	3.88	3.76	14.98	71.11	10.74	13.24	14.10	240.57	22.45	8.38	4.84	14.98	
11	3.16	34.89	25.45	12.39	20.51	7.64	12.39	38.36	22.45	6.90	4.84	14.10	
12	2.87	431.95	10.74	8.38	6.19	6.19	11.56	62.99	20.51	6.90	4.84	12.39	
13	5.17	25.55	9.15	12.39	5.50	17.69	10.74	90.08	20.51	6.90	4.84	13.24	
14	6.98	36.67	9.15	21.48	4.84	23.44	9.94	48.88	20.51	6.19	6.90	37.23	
15	16.41	71.51	8.38	9.15	14.10	9.15	9.94	28.55	21.48	6.19	12.39	42.95	
16	12.30	385.58	14.98	6.90	27.50	6.90	9.15	23.44	20.51	6.19	15.87	17.69	
17	3.88	38.47	8.38	5.50	9.15	6.19	16.77	91.78	35.00	6.19	45.89	14.98	
18	4.19	11.89	7.64	4.84	21.48	6.90	16.77	251.64	79.62	5.50	15.87	16.77	
19	7.41	15.51	6.90	4.84	22.45	20.51	32.81	237.82	41.79	5.50	8.38	14.98	
20	8.16	41.44	7.64	4.19	23.44	32.81	260.03	53.52	28.55	5.50	22.45	14.10	
21	3.57	33.25	7.64	4.19	74.46	14.10	42.95	55.01	24.44	5.50	31.73	16.77	
22	3.45	88.52	6.90	3.57	13.24	11.56	21.48	32.81	23.44	4.84	9.94	14.10	
23	4.38	64.54	5.50	3.57	9.94	7.64	23.44	53.52	21.48	4.19	8.38	12.39	
24	3.76	16.41	5.50	3.57	12.39	6.19	108.23	182.14	14.98	4.19	9.94	13.24	
25	3.45	26.06	5.50	3.57	17.69	10.74	182.14	37.23	10.74	4.19	20.51	14.10	
26	4.51	30.45	5.50	2.98	9.94	26.47	29.60	29.60	9.94	4.19	201.67	20.51	
27	4.19	24.44	4.84	2.98	8.38	47.44	24.44	27.50	9.94	6.19	106.30	58.14	
28	4.07	12.39	4.84	2.98	6.90	30.66	37.23	64.54	9.15	4.19	30.66	84.74	
29	32.60	12.39	4.84	3.57	8.38	32.81	19.56	97.23	9.15	4.19		40.64	
30	163.32	9.15	4.19	6.90	8.38	365.99	26.47	35.00	8.38	8.38		18.62	
31		8.38		22.45	10.74		67.81		8.38	51.92		19.56	
<b>Total</b>	459.08	1505.90	316.35	301.96	615.80	776.19	1209.29	2070.32	1020.81	243.32	656.71	726.00	9901.73 Tonday
<b>Mean</b>	15.30	48.58	10.54	9.74	19.86	25.87	39.01	69.01	32.93	7.85	23.45	23.42	27.13 Ton/day
<b>Max</b>	163.32	431.95	29.60	71.11	177.89	365.99	260.03	251.64	201.67	51.92	201.67	84.74	431.95 Ton/day
<b>Min</b>	2.87	3.76	4.19	2.98	4.84	4.84	9.15	17.69	8.38	4.19	4.84	12.39	2.87 Ton/day

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlung Lam at Ban Khlung Lam , Phatthalung (X.170)

Lat 07 - 33 - 32 N Long 99 - 59 - 15 E

Location : on left bank at the bridge.

	<b>Ban</b> Khlung Lam	<b>Amphoe</b> Srinagarindra	<b>Changwat</b> Phatthalung
<b>Drainage Area</b>	209 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-59		
<b>Period of Available Records</b>	2005 - Cont'd		
<b>Actual Measurement</b>	2005 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	14		
<b>R-Square</b>	0.9387		
<b>Remarks</b>	Continued Sediment Station		

QS = 1.3490 QW<sup>1.59460</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.35	25.39	25.39	11.82	90.70	25.39	40.17	49.70	129.47	292.89	31.41	202.96	
2	27.34	25.39	33.53	7.78	68.13	33.53	37.90	52.20	6515.77	264.64	29.35	166.62	
3	25.39	23.49	35.69	11.82	44.84	35.69	31.41	57.33	1822.70	342.33	33.53	147.61	
4	23.49	21.64	27.34	11.82	40.17	25.39	35.69	90.70	721.63	312.32	40.17	129.47	
5	21.64	18.13	27.34	10.40	44.84	21.64	27.34	112.23	383.90	322.21	29.35	117.87	
6	19.86	18.13	23.49	10.40	31.41	19.86	23.49	85.59	312.32	283.36	29.35	117.87	
7	23.49	19.86	23.49	31.41	25.39	18.13	33.53	147.61	255.46	202.96	27.34	123.62	
8	27.34	18.13	23.49	19.86	23.49	18.13	85.59	90.70	194.66	160.19	33.53	141.46	
9	25.39	21.64	19.86	19.86	21.64	35.69	70.94	90.70	160.19	135.42	27.34	173.15	
10	23.49	19.86	21.64	62.64	31.41	59.97	44.84	106.69	219.96	106.69	27.34	117.87	
11	21.64	19.86	25.39	59.97	23.49	31.41	37.90	117.87	179.77	90.70	25.39	85.59	
12	19.86	16.46	23.49	44.84	33.53	25.39	29.35	153.85	129.47	80.59	23.49	70.94	
13	23.49	54.74	25.39	31.41	23.49	23.49	25.39	135.42	112.23	70.94	23.49	65.37	
14	25.39	37.90	33.53	25.39	21.64	25.39	25.39	112.23	112.23	65.37	42.48	95.92	
15	29.35	23.49	29.35	35.69	19.86	44.84	25.39	106.69	90.70	59.97	90.70	166.62	
16	29.35	19.86	23.49	27.34	19.86	33.53	23.49	106.69	80.59	57.33	153.85	75.71	
17	27.34	23.49	19.86	21.64	25.39	29.35	25.39	141.46	95.92	54.74	194.66	62.64	
18	37.90	29.35	19.86	18.13	62.64	27.34	27.34	211.40	95.92	52.20	141.46	59.97	
19	40.17	31.41	25.39	16.46	75.71	33.53	62.64	135.42	123.62	49.70	147.61	62.64	
20	33.53	25.39	18.13	18.13	52.20	27.34	112.23	112.23	135.42	47.24	112.23	147.61	
21	29.35	23.49	21.64	16.46	95.92	27.34	80.59	106.69	106.69	44.84	112.23	283.36	
22	23.49	23.49	19.86	16.46	62.64	37.90	42.48	106.69	90.70	52.20	68.13	123.62	
23	19.86	27.34	16.46	14.85	40.17	54.74	37.90	117.87	85.59	42.48	59.97	117.87	
24	19.86	29.35	16.46	13.30	31.41	31.41	75.71	129.47	228.65	40.17	112.23	123.62	
25	18.13	27.34	14.85	13.30	27.34	27.34	129.47	141.46	95.92	37.90	160.19	117.87	
26	18.13	31.41	14.85	11.82	35.69	27.34	153.85	129.47	75.71	37.90	322.21	95.92	
27	16.46	31.41	18.13	11.82	31.41	35.69	70.94	85.59	65.37	35.69	1243.35	75.71	
28	23.49	42.48	14.85	10.40	29.35	27.34	62.64	75.71	62.64	33.53	373.34	75.71	
29	21.64	27.34	13.30	10.40	25.39	33.53	47.24	106.69	62.64	33.53		65.37	
30	21.64	21.64	13.30	19.86	25.39	29.35	44.84	112.23	186.48	33.53		59.97	
31		25.39		35.69	37.90		80.59		322.21	33.53		62.64	
Total	746.85	804.29	668.84	671.17	1222.44	927.01	1651.66	3328.58	13254.53	3477.09	3715.72	3533.17	34001.35 Tonday
Mean	24.90	25.94	22.29	21.65	39.43	30.90	53.28	110.95	427.57	112.16	132.70	113.97	93.15 Ton/day
Max	40.17	54.74	35.69	62.64	95.92	59.97	153.85	211.40	6515.77	342.33	1243.35	283.36	6515.77 Ton/day
Min	16.46	16.46	13.30	7.78	19.86	18.13	23.49	49.70	62.64	33.53	23.49	59.97	7.78 Ton/day

**WATER YEAR : 2021****THALE SAP SONGKHLA****Khlong Wa at Ban Khlong Wa , Songkhla (X.174)**

Lat 06 - 59 - 11 N Long 100 - 28 - 55 E

Location : on right bank at the bridge.

	<b>Ban</b> Khlong Wa	<b>Amphoe</b> Hat Yai	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	106 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-49		
<b>Period of Available Records</b>	2003 - Cont' d		
<b>Actual Measurement</b>	2003 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.8826		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.5440 QW^{1.21320}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.99	3.76	6.99	4.65	4.65	3.98	3.98	4.87	141.61	41.50	6.27	63.57	
2	6.75	3.76	5.80	5.10	4.87	3.54	4.20	5.80	98.54	124.14	6.03	48.22	
3	6.27	3.54	5.33	5.10	4.42	3.12	3.54	5.10	93.17	161.57	5.80	38.87	
4	5.56	3.76	6.51	4.65	3.98	3.12	4.65	6.51	75.17	98.54	6.75	33.69	
5	6.03	4.87	8.22	4.42	3.54	2.91	5.10	9.22	67.88	69.33	6.99	29.90	
6	6.27	6.99	8.72	4.65	3.54	2.91	4.42	9.74	56.50	55.10	6.75	27.11	
7	5.56	9.74	7.72	4.65	3.54	3.33	4.20	6.75	48.22	45.51	6.03	24.37	
8	16.76	7.48	7.48	4.20	3.12	5.33	4.20	4.87	38.87	38.87	5.56	21.68	
9	5.10	6.75	6.75	5.10	2.91	4.20	3.98	4.65	28.04	34.65	5.33	18.47	
10	4.65	6.03	6.27	6.51	2.91	4.65	3.54	7.48	28.04	30.84	5.10	17.33	
11	4.42	5.80	6.03	5.80	2.91	4.65	3.54	18.47	28.97	27.11	5.10	15.64	
12	4.20	6.51	5.56	5.10	2.70	3.98	3.33	96.61	28.04	21.68	5.33	13.98	
13	4.20	6.75	5.33	5.80	2.70	3.76	3.12	84.08	28.97	24.37	5.10	13.44	
14	4.42	5.80	5.33	6.75	3.12	3.54	3.33	37.56	37.56	19.92	5.33	15.09	
15	4.87	5.33	5.10	6.03	3.76	3.33	2.91	26.19	27.11	17.90	5.80	15.09	
16	4.65	5.33	4.87	5.33	3.54	3.33	2.91	28.04	19.92	16.76	8.22	12.36	
17	4.65	6.03	6.03	4.87	3.76	3.33	2.91	53.71	36.59	15.64	13.98	11.30	
18	4.42	7.97	8.72	4.65	3.33	3.12	3.76	93.17	36.59	14.53	11.30	10.25	
19	4.42	7.48	6.99	4.20	3.12	4.20	4.20	91.64	20.80	13.98	9.74	16.76	
20	4.42	7.48	6.51	3.98	3.12	3.33	3.76	66.44	17.33	12.36	7.97	36.59	
21	4.20	7.72	5.80	3.76	2.91	2.91	3.76	46.86	18.47	12.36	7.48	38.87	
22	4.20	9.74	5.56	3.76	2.70	2.91	3.54	55.10	21.68	11.30	6.75	23.47	
23	3.98	7.97	5.33	3.54	2.70	3.33	3.54	114.17	20.80	10.25	6.27	20.80	
24	3.76	6.99	5.10	3.33	2.70	3.54	3.33	295.28	18.47	8.22	7.23	17.33	
25	3.76	6.51	4.87	3.12	2.50	3.54	3.54	118.14	17.33	8.72	19.05	15.64	
26	3.76	6.51	4.65	3.12	2.50	4.42	3.33	87.09	16.20	10.77	159.05	13.98	
27	3.76	9.74	4.87	3.12	2.50	5.56	5.56	70.78	15.09	7.48	187.15	13.44	
28	4.65	12.36	6.51	2.91	2.70	4.87	7.72	237.43	11.83	7.23	100.47	12.36	
29	3.76	20.80	5.33	2.91	4.65	4.42	4.42	727.67	11.83	7.97		11.30	
30	3.33	10.77	4.87	3.76	5.56	4.20	3.98	216.01	28.04	7.48		10.77	
31		7.72		3.98	4.65		3.54		28.04	6.51		10.25	
<b>Total</b>	153.77	227.99	183.15	138.85	105.61	113.36	121.84	2629.43	1165.70	982.59	631.93	671.92	7126.14 Tonday
<b>Mean</b>	5.13	7.35	6.11	4.48	3.41	3.78	3.93	87.65	37.60	31.70	22.57	21.67	19.52 Ton/day
<b>Max</b>	16.76	20.80	8.72	6.75	5.56	5.56	7.72	727.67	141.61	161.57	187.15	63.57	727.67 Ton/day
<b>Min</b>	3.33	3.54	4.65	2.91	2.50	2.91	2.91	4.65	11.83	6.51	5.10	10.25	2.50 Ton/day

**WATER YEAR : 2021****THALE SAP SONGKHLA****Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)**

Lat 06 - 58 - 59 N Long 100 - 19 - 42 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Hu Rae</b>	<b>Amphoe</b>	<b>Hat Yai</b>	<b>Changwat</b>	<b>Songkhla</b>
<b>Drainage Area</b>	119	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2005-Cont'd					
<b>Actual Measurement</b>	2005-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	20					
<b>R-Square</b>	0.8300					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 3.0750 QW^{1.09360}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.63	15.16	4.72	2.81	2.94	3.62	3.75	22.22	61.70	56.50	6.85	34.41	
2	9.33	11.27	4.58	2.67	2.94	3.35	3.62	7.87	269.72	137.99	6.56	24.14	
3	9.48	11.42	4.44	2.67	2.94	3.35	3.48	6.56	69.83	100.65	6.56	19.13	
4	12.03	10.23	5.14	2.67	2.94	3.35	3.48	6.28	74.41	47.93	7.14	16.13	
5	14.58	10.37	7.43	2.54	2.94	3.35	3.35	5.57	176.13	31.20	6.71	14.58	
6	9.78	10.52	5.71	2.67	2.94	3.21	3.35	9.33	73.88	24.86	6.42	14.20	
7	21.98	13.82	6.56	2.94	2.81	3.08	4.30	42.51	39.15	21.03	6.28	14.58	
8	12.03	10.23	6.56	2.94	2.67	3.08	4.30	11.12	29.73	17.96	6.28	12.67	
9	10.08	8.30	5.14	2.81	2.54	3.48	3.89	9.63	25.10	16.13	6.28	13.62	
10	9.63	8.16	4.86	2.94	2.54	4.44	3.62	19.60	27.04	14.77	6.13	11.73	
11	9.48	10.23	4.72	2.94	2.41	4.30	3.48	33.67	23.42	13.82	5.99	10.97	
12	9.48	7.72	4.44	2.94	2.54	3.75	3.35	162.48	19.84	12.67	5.85	10.37	
13	13.05	6.85	4.30	2.94	2.15	3.48	3.21	45.55	17.72	12.03	5.71	10.08	
14	19.84	6.42	4.17	2.94	2.28	3.75	3.21	20.55	19.13	11.42	5.99	13.62	
15	16.79	5.85	4.03	2.94	2.41	3.48	3.08	17.49	16.32	11.12	7.14	17.02	
16	15.55	5.71	4.03	2.94	2.67	3.35	3.08	38.28	15.16	10.67	7.14	11.57	
17	10.97	5.71	3.75	2.94	2.54	3.35	3.35	80.71	29.73	10.37	18.90	10.37	
18	7.57	5.57	3.62	2.94	2.41	3.35	3.75	184.71	46.23	9.93	10.82	9.78	
19	7.72	5.57	4.30	3.08	2.54	3.35	3.48	81.24	26.80	9.63	7.57	11.27	
20	7.14	7.00	4.03	2.94	3.75	3.62	3.48	83.91	21.03	9.33	10.08	19.84	
21	7.00	7.28	4.03	2.81	4.03	3.21	3.35	34.17	17.72	9.04	16.13	16.79	
22	6.85	9.19	3.75	2.81	4.17	3.75	3.75	42.85	16.13	8.74	8.74	11.73	
23	6.71	7.14	3.62	2.67	3.35	3.75	4.58	39.15	14.77	8.60	7.43	10.82	
24	6.85	5.99	3.75	2.54	3.08	3.35	5.42	67.72	13.82	8.30	7.72	10.23	
25	6.85	5.28	3.35	2.81	3.08	3.21	4.44	34.91	12.48	8.16	24.62	9.48	
26	7.00	5.14	3.08	2.81	3.08	3.89	5.28	31.45	11.88	7.72	136.13	9.19	
27	7.72	4.44	3.08	2.54	3.08	3.48	6.13	31.69	11.27	7.57	255.94	8.60	
28	8.74	4.72	2.94	2.41	3.08	4.58	6.13	107.34	10.97	7.43	69.92	9.04	
29	7.14	4.44	2.94	2.41	3.08	3.89	4.30	237.58	10.67	7.28		9.63	
30	7.87	6.13	2.94	2.81	4.30	3.89	3.89	63.66	21.03	7.14		8.89	
31		5.85		2.94	4.44		11.73		21.74	7.14		8.30	
<b>Total</b>	308.87	241.71	130.01	86.76	92.67	107.09	129.61	1579.80	1244.55	667.13	677.03	412.78	5678.01 Tonday
<b>Mean</b>	10.30	7.80	4.33	2.80	2.99	3.57	4.18	52.66	40.15	21.52	24.18	13.32	15.56 Ton/day
<b>Max</b>	21.98	15.16	7.43	3.08	4.44	4.58	11.73	237.58	269.72	137.99	255.94	34.41	269.72 Ton/day
<b>Min</b>	6.71	4.44	2.94	2.41	2.15	3.08	3.08	5.57	10.67	7.14	5.71	8.30	2.15 Ton/day

## WATER YEAR : 2021

## THALE SAP SONGKHLA

## Khlung Tha Cheat at Ban Mae Khree , Phatthalung (X.267)

Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

	Ban Mae Khree	Amphoe Tamot	Changwat Phatthalung
<b>Drainage Area</b>	143 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-59		
<b>Period of Available Records</b>	2007 - Cont' d		
<b>Actual Measurement</b>	2007 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	14		
<b>R-Square</b>	0.8470		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1453 QW^{1.46130}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.16	30.00	9.96	11.30	48.48	14.91	8.04	9.96	153.29	347.11	15.66	337.82	
2	17.84	23.67	13.43	8.66	39.61	14.16	8.04	12.71	855.31	582.31	14.91	174.58	
3	20.11	15.66	12.00	7.42	20.11	11.30	7.42	16.74	1225.18	739.80	14.91	121.66	
4	9.96	13.43	11.30	6.83	14.91	9.30	8.04	23.67	582.31	855.31	17.84	91.52	
5	10.62	15.66	15.66	6.83	12.71	8.66	8.04	41.04	292.57	374.84	14.91	71.26	
6	10.62	16.74	12.71	6.83	10.62	8.04	8.04	62.81	162.31	233.87	14.16	67.84	
7	12.71	21.28	13.43	9.30	9.30	7.42	8.04	168.41	108.77	147.37	13.43	79.78	
8	14.16	20.11	12.00	9.30	8.66	7.42	4.61	71.26	82.09	111.32	15.66	61.16	
9	12.00	24.90	9.96	14.91	8.04	10.62	3.15	45.46	69.54	91.52	16.74	57.90	
10	12.00	16.74	9.96	51.56	7.42	18.97	3.15	51.56	61.16	72.99	14.91	57.90	
11	14.16	17.84	10.62	30.00	6.83	13.43	3.15	135.75	62.81	62.81	14.16	46.96	
12	20.11	14.91	10.62	17.84	6.83	10.62	2.27	369.24	62.81	54.70	13.43	41.04	
13	22.47	22.47	10.62	14.16	6.83	11.30	1.49	253.83	50.01	50.01	12.71	36.78	
14	14.91	15.66	10.62	22.47	6.83	9.96	0.82	121.66	42.50	42.50	14.16	46.96	
15	15.66	12.71	9.30	28.70	7.42	9.96	0.30	71.26	38.18	38.18	22.47	106.25	
16	18.97	20.11	8.66	18.97	7.42	9.96	3.62	61.16	35.39	35.39	41.04	57.90	
17	15.66	35.39	9.96	14.91	8.66	8.66	5.69	144.44	43.97	34.01	283.77	43.97	
18	13.43	18.97	23.67	12.71	7.42	9.96	6.25	342.46	116.45	31.32	153.29	38.18	
19	12.00	14.91	14.91	12.00	6.83	9.30	5.69	438.16	82.09	28.70	62.81	38.18	
20	12.71	14.16	12.00	10.62	12.71	8.04	8.66	222.14	91.52	27.41	50.01	51.56	
21	14.91	12.00	10.62	9.96	14.16	8.66	5.69	98.80	86.76	26.15	72.99	84.41	
22	24.90	12.71	9.30	9.96	22.47	9.96	6.25	69.54	66.15	26.15	43.97	51.56	
23	45.46	12.71	8.66	8.66	13.43	9.96	8.04	64.47	50.01	23.67	34.01	48.48	
24	36.78	11.30	8.04	7.42	10.62	8.04	10.62	206.81	61.16	20.11	39.61	171.48	
25	17.84	10.62	8.04	7.42	9.96	8.04	32.66	218.28	48.48	20.11	210.61	75.23	
26	18.97	11.30	7.42	6.83	9.96	8.04	14.16	171.48	39.61	20.11	723.36	64.47	
27	14.16	10.62	7.42	6.25	10.62	8.04	5.69	156.28	34.01	17.84	2367.04	46.96	
28	14.16	12.00	7.42	6.25	10.62	8.66	14.16	174.58	28.70	16.74	969.24	38.18	
29	16.74	9.96	6.83	6.25	11.30	10.62	11.30	548.00	28.70	15.66		36.78	
30	23.67	9.30	9.30	6.83	32.66	8.04	11.30	347.11	229.94	15.66		28.70	
31		9.30		7.42	23.67		11.30		253.83	16.74		36.78	
Total	521.85	507.14	324.44	398.57	427.11	300.05	235.68	4719.07	5145.61	4180.41	5281.81	2312.23	24353.97 Ton/day
Mean	17.39	16.36	10.81	12.86	13.78	10.00	7.60	157.30	165.99	134.85	188.64	74.59	66.72 Ton/day
Max	45.46	35.39	23.67	51.56	48.48	18.97	32.66	548.00	1225.18	855.31	2367.04	337.82	2367.04 Ton/day
Min	9.96	9.30	6.83	6.25	6.83	7.42	0.30	9.96	28.70	15.66	12.71	28.70	0.30 Ton/day

**WATER YEAR : 2021****THALE SAP SONGKHLA****Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)**

Lat 07 - 42 - 26 N Long 99 - 50 - 30 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Khao Pu</b>	<b>Amphoe</b>	<b>Si Banphot</b>	<b>Changwat</b>	<b>Phatthalung</b>
<b>Drainage Area</b>	53	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US D-59					
<b>Period of Available Records</b>	2009 - Cont' d					
<b>Actual Measurement</b>	2009 - Cont' d					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	14					
<b>R-Square</b>	0.8903					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 5.4050 QW^{1.28740}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.80	4.58	5.41	1.66	10.70	2.80	4.85	10.70	184.17	21.76	7.20	43.47	
2	3.29	4.85	4.85	1.66	6.47	2.80	4.58	12.35	564.55	22.71	6.83	28.12	
3	3.04	4.85	3.80	1.45	4.85	3.54	4.06	10.70	106.79	32.20	7.20	23.68	
4	3.29	4.32	3.29	1.45	5.41	3.29	4.85	17.13	64.37	27.12	7.95	21.29	
5	3.04	3.54	3.04	1.45	4.85	2.56	6.11	21.29	35.34	25.14	7.20	19.41	
6	4.32	3.80	3.04	1.45	3.80	2.33	4.58	98.73	28.12	21.76	6.83	20.35	
7	7.58	4.06	2.80	1.66	3.04	1.88	5.76	60.76	25.14	18.95	6.47	18.49	
8	4.58	3.54	2.80	1.66	2.56	1.66	18.95	23.68	22.71	16.68	6.47	18.49	
9	3.54	3.54	2.56	3.80	2.56	6.11	16.24	25.14	20.81	15.79	6.47	16.68	
10	3.29	3.29	2.33	9.90	4.32	6.47	10.70	26.12	21.29	14.05	6.47	15.35	
11	3.04	3.04	2.80	8.34	5.76	4.58	8.72	31.69	18.49	13.19	6.11	14.48	
12	3.04	3.29	3.04	4.85	5.76	3.80	7.20	119.13	17.13	12.35	6.11	13.19	
13	2.80	5.41	3.29	3.54	4.58	4.32	6.47	79.24	15.79	11.52	5.76	12.77	
14	8.72	3.80	4.58	2.80	4.06	6.83	5.76	31.69	14.92	10.70	6.83	20.35	
15	9.50	3.29	4.85	3.54	3.54	10.30	5.13	26.12	14.05	10.30	15.35	17.58	
16	8.72	4.32	3.80	3.04	5.76	6.83	4.85	23.19	13.19	9.90	30.14	14.48	
17	5.76	5.41	3.04	2.56	15.35	5.76	5.13	40.18	13.62	9.50	40.18	13.19	
18	8.34	3.80	2.80	2.10	14.92	5.41	5.41	117.05	13.19	9.11	22.71	12.35	
19	5.13	3.29	2.80	2.10	10.30	4.32	4.58	38.55	16.24	8.72	20.81	13.19	
20	4.58	4.32	2.33	1.66	8.72	4.06	9.50	26.62	14.48	8.34	15.79	19.88	
21	4.58	3.80	2.33	1.45	6.47	4.32	7.58	22.71	13.19	8.34	13.62	20.81	
22	3.80	3.80	2.10	1.45	5.41	5.13	8.34	22.24	12.35	7.95	11.52	15.79	
23	3.54	4.85	1.88	1.45	4.85	6.47	19.88	24.16	11.52	7.58	10.70	15.35	
24	4.06	4.32	1.66	1.45	4.06	4.58	21.29	36.94	11.11	7.58	29.13	16.24	
25	3.80	3.29	1.66	1.45	4.06	4.06	27.62	48.52	10.30	7.20	43.47	15.79	
26	5.13	3.54	1.66	1.45	4.58	4.85	21.76	31.17	9.90	7.20	247.51	15.79	
27	9.11	3.29	1.66	1.45	4.85	4.85	69.86	26.12	9.50	6.83	254.06	14.92	
28	5.76	3.54	1.66	1.66	4.06	4.58	24.16	25.63	9.50	6.47	108.82	13.19	
29	6.11	3.29	1.66	2.80	3.54	7.20	16.24	144.68	10.30	6.83		11.93	
30	4.85	3.54	1.66	4.32	3.04	5.76	13.19	62.56	16.68	9.50		12.35	
31		3.80		3.29	3.04		12.35		48.52	7.95		11.93	
Total	150.14	121.40	85.18	82.89	175.27	141.45	385.70	1284.79	1387.26	403.22	957.71	540.88	5715.89 Tonday
Mean	5.00	3.92	2.84	2.67	5.65	4.71	12.44	42.83	44.75	13.01	34.20	17.45	15.66 Ton/day
Max	9.50	5.41	5.41	9.90	15.35	10.30	69.86	144.68	564.55	32.20	254.06	43.47	564.55 Ton/day
Min	2.80	3.04	1.66	1.45	2.56	1.66	4.06	10.70	9.50	6.47	5.76	11.93	1.45 Ton/day

## WATER YEAR : 2021

## PATTANI RIVER BASIN

## Pattani River at Ban Tha Sap, Yala (X.40A)

Lat 06 - 33 - 10 N Long 101 - 15 - 59 E

Location : on left bank at the bridge of Yala - Ban Niang Road.

	<b>Ban</b>	<b>Tha Sap</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Yala</b>
<b>Drainage Area</b>	3,295	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.DH - 59					
<b>Period of Available Records</b>	1998 - Cont' d					
<b>Actual Measurement</b>	1998 - Cont' d					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	23					
<b>R-Square</b>	0.7056					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.0409 QW^{2.01750}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	465.05	684.23	649.07	834.21	525.56	925.17	510.08	557.21	640.43	1500.44	176.78	10397.26	
2	502.43	623.32	748.00	899.42	387.95	415.17	323.96	814.65	1451.23	886.69	209.70	2625.78	
3	479.83	408.28	684.23	951.27	525.56	265.78	311.86	657.77	2948.92	804.95	222.78	1115.61	
4	457.75	549.21	657.77	912.25	589.80	218.37	288.35	541.27	2020.78	693.16	387.95	623.32	
5	479.83	657.77	1386.90	666.53	525.56	205.43	218.37	342.54	1073.29	693.16	282.62	738.72	
6	472.41	720.32	1635.72	964.46	631.84	197.02	342.54	342.54	711.21	649.07	254.84	711.21	
7	436.20	925.17	834.21	1018.14	766.75	168.99	361.65	581.56	502.43	533.39	245.46	776.21	
8	408.28	874.05	864.00	834.21	720.32	176.78	436.20	381.29	381.29	472.41	245.46	1031.79	
9	381.29	675.35	844.08	874.05	675.35	188.79	479.83	368.14	323.96	394.67	415.17	834.21	
10	368.14	517.79	824.40	1115.61	766.75	201.21	541.27	368.14	254.84	443.33	502.43	757.35	
11	342.54	589.80	702.16	1059.37	766.75	192.89	361.65	525.56	260.28	479.83	299.99	844.08	
12	336.29	640.43	693.16	640.43	684.23	236.25	450.51	738.72	231.72	479.83	245.46	1187.99	
13	330.10	1550.48	631.84	951.27	401.44	245.46	436.20	640.43	218.37	355.23	222.78	1087.31	
14	323.96	1202.74	436.20	1018.14	443.33	227.22	271.33	381.29	188.79	342.54	201.21	738.72	
15	374.68	844.08	598.09	964.46	502.43	192.89	443.33	282.62	168.99	288.35	209.70	748.00	
16	368.14	1187.99	675.35	1101.41	408.28	240.83	581.56	381.29	176.78	271.33	205.43	702.16	
17	323.96	925.17	693.16	964.46	415.17	265.78	666.53	443.33	1031.79	265.78	218.37	649.07	
18	311.86	834.21	874.05	785.73	387.95	231.72	549.21	1618.48	9761.86	260.28	222.78	666.53	
19	311.86	824.40	824.40	422.12	415.17	250.12	785.73	1758.92	7827.72	276.95	374.68	804.95	
20	305.89	854.01	912.25	517.79	387.95	222.78	1059.37	1158.76	2654.38	265.78	222.78	1247.54	
21	387.95	729.49	844.08	598.09	581.56	227.22	766.75	675.35	991.12	250.12	214.02	1386.90	
22	436.20	1101.41	864.00	565.27	565.27	201.21	649.07	450.51	874.05	245.46	205.43	834.21	
23	487.31	938.17	776.21	589.80	323.96	184.75	429.13	479.83	729.49	231.72	180.74	1158.76	
24	502.43	720.32	711.21	589.80	336.29	184.75	776.21	874.05	684.23	209.70	129.32	2597.34	
25	401.44	711.21	640.43	573.39	311.86	197.02	824.40	874.05	589.80	192.89	549.21	2294.82	
26	311.86	711.21	738.72	387.95	305.89	222.78	834.21	631.84	487.31	188.79	11533.53	2193.50	
27	422.12	720.32	711.21	355.23	348.86	222.78	814.65	533.39	422.12	214.02	29106.16	1741.04	
28	693.16	614.85	844.08	361.65	348.86	265.78	795.31	408.28	361.65	218.37	27534.12	1517.03	
29	711.21	666.53	964.46	368.14	387.95	294.14	991.12	631.84	254.84	222.78		1217.58	
30	720.32	598.09	757.35	510.08	276.95	525.56	938.17	711.21	631.84	192.89		1115.61	
31		457.75		494.84	991.12		684.23		3164.40	184.75		964.46	
Total	12854.49	24058.15	24020.79	22889.57	15706.71	7794.64	17922.78	19154.86	42019.91	12708.66	74818.90	45309.06	319258.52 Ton/day
Mean	428.48	776.07	800.69	738.37	506.67	259.82	578.15	638.50	1355.48	409.96	2672.10	1461.58	874.68 Ton/day
Max	720.32	1550.48	1635.72	1115.61	991.12	925.17	1059.37	1758.92	9761.86	1500.44	29106.16	10397.26	29106.16 Ton/day
Min	305.89	408.28	436.20	355.23	276.95	168.99	218.37	282.62	168.99	184.75	129.32	623.32	129.32 Ton/day

**WATER YEAR : 2021****Peninsula-Lower East Coast****Sai Buri River at Ban Sa Ko , Narathiwat (X.184)**

Lat 06 - 13 - 38 N Long 101 - 29 - 49 E

Location : on left bank at Ban Sa Ko.

	<b>Ban</b>	<b>Bu Kae Ta</b>	<b>Amphoe</b>	<b>Waeng</b>	<b>Changwat</b>	<b>Narathiwat</b>
<b>Drainage Area</b>	1,241	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.DH - 59					
<b>Period of Available Records</b>	1995 - Cont' d					
<b>Actual Measurement</b>	1995 - Cont' d					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	21					
<b>R-Square</b>	0.8122					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.1467 QW^{2.00630}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	738.33	1795.22	465.13	1865.29	86.93	1333.88	825.41	270.03	1115.87	5222.50	194.46	33114.08		
2	682.30	576.90	1039.15	628.49	86.93	1014.18	312.47	221.35	26015.52	5021.24	179.59	12919.16		
3	301.57	358.02	825.41	435.41	77.09	941.11	249.98	249.98	21083.59	7534.46	172.37	8285.09		
4	290.86	290.86	989.52	1480.04	72.40	450.15	194.46	230.70	5707.51	5850.05	179.59	5921.99		
5	312.47	290.86	1222.44	738.33	64.69	312.47	511.55	179.59	3338.60	4348.09	270.03	4577.64		
6	221.35	465.13	1940.13	1039.15	57.42	249.98	186.95	186.95	2378.18	3338.60	323.57	4014.88		
7	158.39	1420.66	664.12	560.19	50.59	203.23	151.62	593.85	1795.22	2815.19	301.57	3338.60		
8	186.95	611.05	450.15	406.68	61.00	179.59	132.20	221.35	1420.66	2462.62	450.15	2635.95		
9	145.00	323.57	420.92	394.22	212.19	165.31	102.79	369.89	1222.44	2173.53	1571.39	2420.22		
10	114.11	249.98	450.15	611.05	420.92	151.62	92.07	738.33	1480.04	1762.33	394.22	2173.53		
11	102.79	480.36	346.34	738.33	212.19	138.52	81.94	2094.25	1333.88	1510.18	290.86	1665.49		
12	132.20	1014.18	280.35	394.22	151.62	172.37	72.40	1195.34	917.36	1333.88	230.70	1420.66		
13	138.52	738.33	270.03	334.86	381.96	203.23	68.49	2815.19	781.26	1168.55	221.35	1305.56		
14	323.57	381.96	394.22	450.15	1064.42	126.02	64.69	989.52	870.78	1039.15	203.23	1697.47		
15	511.55	358.02	301.57	323.57	511.55	114.11	77.09	1902.53	1115.87	917.36	240.24	1115.87		
16	158.39	917.36	240.24	346.34	738.33	132.20	917.36	1420.66	1195.34	825.41	450.15	965.16		
17	108.38	965.16	435.41	249.98	346.34	290.86	290.86	3000.35	27449.58	759.64	495.83	965.16		
18	132.20	664.12	738.33	212.19	212.19	259.91	369.89	6437.86	44061.99	700.73	290.86	1089.99		
19	323.57	435.41	847.94	186.95	194.46	145.00	145.00	2378.18	48357.68	611.05	511.55	870.78		
20	203.23	781.26	2420.22	172.37	240.24	172.37	301.57	1940.13	13151.39	543.73	290.86	1305.56		
21	203.23	480.36	2592.07	158.39	435.41	114.11	301.57	1480.04	6140.43	495.83	301.57	1420.66		
22	917.36	759.64	759.64	145.00	646.18	132.20	158.39	1064.42	4823.96	450.15	203.23	1902.53		
23	700.73	480.36	450.15	172.37	230.70	108.38	186.95	825.41	4291.63	406.68	230.70	4519.70		
24	358.02	312.47	369.89	151.62	165.31	81.94	1168.55	2548.55	3540.03	394.22	1665.49	4694.64		
25	240.24	249.98	301.57	132.20	158.39	81.94	280.35	1249.84	2378.18	346.34	84201.80	6214.13		
26	240.24	240.24	280.35	114.11	240.24	97.36	186.95	1089.99	1940.13	323.57	633245.77	4404.93		
27	576.90	259.91	803.18	102.79	893.92	249.98	179.59	893.92	1633.82	290.86	481987.39	2094.25		
28	870.78	280.35	1510.18	97.36	450.15	480.36	312.47	1450.20	1391.43	259.91	165226.07	1633.82		
29	989.52	527.52	1277.55	86.93	394.22	230.70	1510.18	2462.62	1277.55	240.24		1249.84		
30	646.18	646.18	759.64	86.93	576.90	290.86	682.30	1277.55	19065.54	221.35		1089.99		
31		682.30		81.94	3143.10		495.83		28975.56	203.23		1249.84		
Total	11028.93	18037.72	23845.99	12897.45	12577.98	8623.94	10611.92	41778.57	280251.02	53570.67	1374324.59	122277.17	1969825.95	Ton/day
Mean	367.63	581.86	794.87	416.05	405.74	287.46	342.32	1392.62	9040.36	1728.09	49083.02	3944.42	5396.78	Ton/day
Max	989.52	1795.22	2592.07	1865.29	3143.10	1333.88	1510.18	6437.86	48357.68	7534.46	633245.77	33114.08	633245.77	Ton/day
Min	102.79	240.24	240.24	81.94	50.59	81.94	64.69	179.59	781.26	203.23	172.37	870.78	50.59	Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA EAST COAST

## Kolok River at Ban Bu Kae Ta , Narathiwat (X.274)

Lat 05 - 50 - 21 N Long 101 - 53 - 32 E

Location : on left bank at Ban Bu Kae Ta.

	<b>Ban Bu Kae Ta</b>	<b>Amphoe Waeng</b>	<b>Changwat Narathiwat</b>
<b>Drainage Area</b>	78 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 49		
<b>Period of Available Records</b>	2019 - Cont' d		
<b>Actual Measurement</b>	2019 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9238		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.1636 QW^{1.95050}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.17	80.91	134.06	2054.41	35.88	77.36	155.48	43.48	220.12	3137.34	11.25	4046.58	
2	95.88	73.89	120.64	202.93	33.51	77.36	112.08	24.81	7575.90	1951.62	9.92	2054.41	
3	77.36	67.19	103.83	148.17	33.51	70.50	103.83	19.12	2002.69	1009.81	9.92	1389.00	
4	60.79	63.95	134.06	381.96	31.21	63.95	99.81	17.38	659.43	1520.93	8.67	1084.75	
5	51.78	63.95	112.08	129.51	29.00	54.71	92.02	14.15	247.17	1009.81	17.38	867.79	
6	48.93	57.71	92.02	116.32	26.86	46.17	88.24	12.66	148.17	466.29	26.86	659.43	
7	46.17	54.71	84.54	112.08	26.86	38.33	88.24	12.66	148.17	316.21	31.21	504.94	
8	63.95	54.71	70.50	103.83	26.86	35.88	80.91	12.66	138.68	359.37	674.47	381.96	
9	31.21	54.71	67.19	107.91	26.86	33.51	77.36	11.25	125.04	228.97	1242.46	316.21	
10	24.81	51.78	67.19	155.48	107.91	33.51	67.19	316.21	112.08	194.60	112.08	256.52	
11	22.83	51.78	60.79	120.64	572.67	33.51	67.19	266.05	95.88	162.96	60.79	211.44	
12	20.93	95.88	60.79	107.91	134.06	33.51	63.95	92.02	80.91	143.39	43.48	194.60	
13	17.38	57.71	57.71	125.04	326.75	31.21	60.79	155.48	70.50	125.04	38.33	202.93	
14	17.38	48.93	48.93	162.96	417.10	31.21	57.71	88.24	95.88	107.91	63.95	202.93	
15	17.38	67.19	46.17	99.81	305.84	31.21	67.19	453.74	295.64	92.02	70.50	194.60	
16	15.73	348.33	46.17	88.24	405.22	31.21	155.48	453.74	558.79	80.91	129.51	194.60	
17	15.73	247.17	46.17	88.24	129.51	31.21	129.51	1084.75	22469.81	70.50	57.71	194.60	
18	15.73	228.97	40.87	84.54	103.83	29.00	129.51	2969.02	51139.76	60.79	38.33	194.60	
19	15.73	186.43	38.33	84.54	103.83	31.21	116.32	720.57	16658.93	51.78	46.17	211.44	
20	12.66	1589.08	38.33	77.36	99.81	29.00	103.83	1367.58	1951.62	46.17	51.78	381.96	
21	77.36	441.36	33.51	67.19	95.88	17.38	107.91	237.98	1046.96	38.33	107.91	572.67	
22	148.17	919.82	40.87	60.79	88.24	9.92	95.88	120.64	720.57	33.51	31.21	504.94	
23	228.97	120.64	33.51	60.79	67.19	9.92	186.43	51.78	491.89	31.21	112.08	674.47	
24	80.91	107.91	31.21	57.71	40.87	8.67	186.43	116.32	405.22	29.00	705.04	220.12	
25	80.91	112.08	31.21	54.71	24.81	8.67	116.32	73.89	316.21	26.86	43236.80	558.79	
26	148.17	103.83	31.21	48.93	70.50	43.48	103.83	57.71	202.93	24.81	80097.34	155.48	
27	937.49	103.83	35.88	46.17	186.43	316.21	38.33	54.71	170.61	19.12	80718.88	393.50	
28	674.47	103.83	615.31	35.88	120.64	194.60	17.38	57.71	148.17	17.38	24749.66	194.60	
29	600.93	92.02	1520.93	26.86	99.81	1454.23	1046.96	99.81	138.68	15.73		178.44	
30	143.39	129.51	884.97	15.73	84.54	285.61	103.83	60.79	9228.01	14.15		134.06	
31		162.96		35.88	77.36		77.36		16997.30	12.66		112.08	
Total	3941.30	5942.77	4728.98	5062.52	3933.35	3192.25	3997.30	9066.91	134661.72	11399.18	232503.69	17444.44	435874.41 Ton/day
Mean	131.38	191.70	157.63	163.31	126.88	106.41	128.95	302.23	4343.93	367.72	8303.70	562.72	1194.18 Ton/day
Max	937.49	1589.08	1520.93	2054.41	572.67	1454.23	1046.96	2969.02	51139.76	3137.34	80718.88	4046.58	80718.88 Ton/day
Min	12.66	48.93	31.21	15.73	24.81	8.67	17.38	11.25	70.50	12.66	8.67	112.08	8.67 Ton/day

**WATER YEAR : 2021**  
**SOUTHERN PENINSULA WEST COAST**  
**Trang River at Ban Tha Pradu , Trang (X.56)**

Lat 07 - 46 - 16 N Long 99 - 32 - 14 E

Location : on left bank at Ban Tha Pradu.

	<b>Ban</b>	<b>Tha Pradu</b>	<b>Amphoe</b>	<b>Huai Yot</b>	<b>Changwat</b>	<b>Trang</b>
<b>Drainage Area</b>	1,422 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US DH-49					
<b>Period of Available Records</b>	1981 - Cont'd					
<b>Actual Measurement</b>	1981 - 1987, 2007 - Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	15					
<b>R-Square</b>	0.7318					
<b>Remarks</b>	Continued Sediment Station					

QS = 1.5798 QW<sup>1.50700</sup>

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.05	272.55	339.70	50.77	370.61	425.66	2045.82	782.30	6584.92	344.06	52.69	1495.84	
2	22.05	214.27	402.41	52.69	584.46	384.13	1424.78	936.79	6965.98	264.51	43.32	782.30	
3	19.23	203.19	293.00	137.82	425.66	558.55	548.30	888.26	6965.98	221.77	39.74	435.09	
4	16.53	240.88	229.35	154.19	375.10	379.61	318.18	675.47	6475.15	210.56	39.74	313.94	
5	13.98	164.31	237.02	71.06	348.44	252.60	637.46	648.24	5619.65	221.77	45.14	272.55	
6	13.98	119.01	293.00	478.34	335.36	188.73	584.46	664.53	4326.33	240.88	41.52	264.51	
7	12.76	95.42	244.77	533.04	297.15	164.31	725.41	2679.94	2679.94	218.01	41.52	240.88	
8	11.81	95.42	185.17	331.04	199.54	147.57	1145.92	4724.81	1597.26	178.13	37.99	214.27	
9	11.81	98.27	160.91	703.07	157.54	411.66	1560.78	4411.95	1205.37	147.57	34.58	214.27	
10	11.81	137.82	150.87	2975.73	128.30	1899.07	1252.31	2518.91	1023.78	134.62	39.74	214.27	
11	11.81	160.91	203.19	3572.09	240.88	1700.89	793.85	1791.44	1139.38	125.18	37.99	171.17	
12	10.89	107.00	248.67	2350.13	594.94	680.96	543.19	3495.55	1139.38	119.01	34.58	137.82	
13	9.99	71.06	361.69	1106.85	502.95	430.37	449.35	5519.31	840.61	112.95	31.27	119.01	
14	98.27	58.61	553.41	568.87	357.25	366.14	493.06	6612.46	675.47	101.15	31.27	107.00	
15	326.73	66.82	411.66	605.48	379.61	379.61	493.06	6838.16	589.69	95.42	36.27	104.06	
16	199.54	164.31	288.87	924.58	558.55	352.84	348.44	6612.46	527.98	89.80	150.87	95.42	
17	115.97	82.04	244.77	517.92	1119.82	256.55	313.94	6072.89	483.23	82.04	900.31	84.30	
18	137.82	107.00	210.56	318.18	2035.22	195.92	680.96	5519.31	454.14	75.39	1192.07	75.39	
19	522.94	128.30	178.13	244.77	2656.73	568.87	1218.72	5482.31	449.35	73.22	498.00	71.06	
20	264.51	77.59	144.30	206.86	1503.01	1424.78	1531.80	5408.54	439.82	77.59	309.71	164.31	
21	181.64	71.06	137.82	181.64	1132.85	1626.64	906.36	4515.43	397.82	71.06	272.55	912.42	
22	157.54	71.06	134.62	167.73	1930.21	1539.03	548.30	3024.02	370.61	79.80	393.24	719.81	
23	137.82	109.96	109.96	141.05	1648.80	1481.53	811.28	1888.73	344.06	87.03	233.17	753.68	
24	214.27	199.54	141.05	107.00	882.26	1100.38	1361.83	1604.59	344.06	64.74	160.91	1165.62	
25	214.27	150.87	112.95	87.03	714.21	653.66	2879.95	2056.44	301.32	58.61	128.30	870.29	
26	134.62	87.03	89.80	68.93	776.54	468.61	4394.78	3533.75	272.55	54.64	195.92	834.71	
27	160.91	150.87	77.59	68.93	708.63	553.41	4309.27	4724.81	252.60	50.77	822.97	834.71	
28	388.68	852.44	66.82	71.06	653.66	563.70	3121.37	5116.87	229.35	48.87	1678.50	449.35	
29	483.23	1252.31	62.67	87.03	533.04	1582.63	1582.63	5243.81	214.27	46.99		449.35	
30	393.24	616.08	54.64	112.95	393.24	2152.87	876.26	6049.94	206.86	45.14		379.61	
31		366.14		150.87	425.66		918.49		331.04	43.32		357.25	
Total	4320.70	6592.14	6369.37	17147.70	22970.22	22891.28	38820.31	110042.02	53447.95	3784.60	7523.88	13304.26	307214.43 Tonday
Mean	144.02	212.65	212.31	553.15	740.97	763.04	1252.27	3668.07	1724.13	122.08	268.71	429.17	841.68 Ton/day
Max	522.94	1252.31	553.41	3572.09	2656.73	2152.87	4394.78	6838.16	6965.98	344.06	1678.50	1495.84	6965.98 Ton/day
Min	9.99	58.61	54.64	50.77	128.30	147.57	313.94	648.24	206.86	43.32	31.27	71.06	9.99 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khleng Lamphu La at Ban Lamphu La , Trang (X.110)

Lat 07 - 40 - 31 N Long 99 - 34 - 55 E

Location : on left bank at Ban Lamphu La.

	Ban Lamphu La	Amphoe Huai Yot	Changwat Trang
<b>Drainage Area</b>	257 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	1985-1989 ,2021- Cont' d		
<b>Actual Measurement</b>	1985-1989 ,2021- Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.8778		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.6864 QW^{1.75920}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.79	38.29	16.45	0.50	409.71	22.85	162.09	76.58	435.45	61.16	10.00	188.49	
2	0.34	25.66	17.66	0.50	103.78	21.50	72.03	81.26	4425.44	51.07	9.06	103.78	
3	0.41	13.05	10.98	0.41	53.03	22.85	51.07	81.26	1002.47	96.01	7.30	74.29	
4	0.20	14.15	7.30	2.50	51.07	22.85	51.07	61.16	566.84	65.41	10.00	55.01	
5	0.34	10.00	7.30	0.79	36.59	16.45	109.11	98.57	342.45	57.03	9.06	47.26	
6	0.20	5.71	6.48	238.76	24.24	13.05	51.07	65.41	246.36	45.40	7.30	43.57	
7	0.15	5.71	4.29	101.16	17.66	10.98	67.59	2385.98	198.83	36.59	7.30	55.01	
8	0.10	3.65	3.65	28.61	13.05	10.00	696.84	188.49	165.30	30.14	5.71	36.59	
9	0.10	3.05	2.50	175.08	10.00	88.51	442.00	131.54	143.43	28.61	8.16	36.59	
10	0.10	2.50	2.50	281.81	18.90	149.54	175.08	120.10	125.76	25.66	8.16	28.61	
11	0.10	1.54	3.05	205.86	67.59	57.03	98.57	120.10	122.92	24.24	8.16	24.24	
12	0.10	1.14	4.29	101.16	81.26	34.93	67.59	611.40	103.78	25.66	6.48	21.50	
13	0.10	5.71	5.71	43.57	38.29	55.01	53.03	944.81	90.98	17.66	4.98	18.90	
14	5.71	3.05	9.06	36.59	61.16	49.15	41.78	416.09	86.06	18.90	5.71	17.66	
15	1.54	15.28	9.06	40.02	43.57	212.99	33.30	254.06	76.58	17.66	13.05	43.57	
16	21.50	27.12	5.71	28.61	31.70	81.26	27.12	191.91	67.59	16.45	101.16	20.18	
17	24.24	25.66	10.00	20.18	162.09	51.07	31.70	212.99	61.16	14.15	212.99	15.28	
18	7.30	18.90	5.71	15.28	801.86	40.02	38.29	482.12	63.27	13.05	38.29	13.05	
19	4.29	21.50	3.05	13.05	158.91	41.78	25.66	488.95	67.59	10.98	31.70	14.15	
20	2.50	49.15	1.99	10.98	81.26	78.91	254.06	246.36	67.59	10.98	25.66	47.26	
21	3.05	43.57	3.65	9.06	76.58	61.16	109.11	171.79	57.03	10.98	40.02	88.51	
22	4.29	51.07	3.05	7.30	128.64	106.43	55.01	137.43	51.07	11.99	16.45	30.14	
23	6.48	33.30	1.14	6.48	72.03	181.73	185.10	178.39	49.15	11.99	10.98	25.66	
24	11.99	20.18	0.79	5.71	47.26	78.91	574.16	296.83	47.26	10.00	11.99	22.85	
25	3.05	11.99	1.54	10.98	38.29	57.03	704.85	231.27	47.26	10.00	165.30	24.24	
26	4.29	11.99	1.14	6.48	47.26	69.79	626.57	223.88	38.29	9.06	109.11	212.99	
27	47.26	17.66	1.14	5.71	137.43	55.01	265.80	168.53	40.02	8.16	1325.72	72.03	
28	27.12	57.03	0.79	4.98	65.41	69.79	688.88	175.08	38.29	8.16	502.74	67.59	
29	122.92	24.24	0.50	21.50	41.78	313.61	181.73	1061.60	38.29	9.06		41.78	
30	49.15	15.28	0.50	28.61	33.30	109.11	117.31	1479.58	38.29	16.45		47.26	
31		14.15		34.93	33.30		93.48		122.92	16.45		61.16	
Total	349.71	591.28	150.98	1487.16	2987.00	2183.30	6151.05	11383.52	9027.72	789.11	2712.54	1599.20	39412.57 Tonday
Mean	11.66	19.07	5.03	47.97	96.35	72.78	198.42	379.45	291.22	25.46	96.88	51.59	107.98 Ton/day
Max	122.92	57.03	17.66	281.81	801.86	313.61	704.85	2385.98	4425.44	96.01	1325.72	212.99	4425.44 Ton/day
Min	0.10	1.14	0.50	0.41	10.00	10.00	25.66	61.16	38.29	8.16	4.98	13.05	0.10 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlung Palian at Ban Palian Nai , Trang (X.139A)

Lat 07 - 19 - 12 N Long 99 - 47 - 45 E

Location : on left bank at the bridge.

	Ban Palian Nai	Amphoe Palian	Changwat Trang
<b>Drainage Area</b>	159 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	2021 - Cont' d		
<b>Actual Measurement</b>	2021 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	11		
<b>R-Square</b>	0.7334		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.3940 QW^{1.56350}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.31	74.32	78.23	98.83	1706.72	59.42	280.56	90.38	187.19	104.61	18.20	53.57	
2	15.19	53.57	80.87	63.03	198.11	131.27	160.89	163.46	765.50	100.26	16.97	43.61	
3	20.10	32.09	69.22	82.21	113.50	79.54	115.01	107.55	265.09	101.70	20.10	35.39	
4	30.58	29.83	52.43	61.82	116.53	59.42	98.83	83.55	179.15	86.26	19.46	31.33	
5	22.74	29.83	52.43	83.55	98.83	51.29	118.05	98.83	140.90	71.75	16.37	31.33	
6	16.97	31.33	57.05	516.48	82.21	45.76	158.34	187.19	121.11	60.61	15.19	40.46	
7	17.58	28.36	80.87	516.48	63.03	55.88	286.84	280.56	110.51	52.43	14.61	39.42	
8	14.04	29.09	74.32	184.50	59.42	67.96	365.97	90.38	100.26	47.95	21.41	29.83	
9	10.79	32.09	53.57	383.31	55.88	393.86	143.35	98.83	90.38	42.55	16.37	38.40	
10	7.87	29.09	101.70	847.81	64.25	359.11	128.90	101.70	87.62	39.42	15.78	29.09	
11	6.97	26.91	86.26	296.35	115.01	119.58	107.55	115.01	82.21	37.39	14.61	26.20	
12	7.41	31.33	75.61	145.81	95.98	93.17	97.40	200.88	76.91	32.86	13.48	24.10	
13	20.75	50.17	73.03	115.01	64.25	116.53	89.00	179.15	69.22	32.09	12.92	22.74	
14	46.85	29.83	80.87	104.61	57.05	140.90	78.23	155.80	66.72	30.58	17.58	25.49	
15	17.58	25.49	69.22	103.15	58.23	136.05	74.32	95.98	64.25	29.83	31.33	31.33	
16	24.10	58.23	50.17	75.61	63.03	84.90	67.96	104.61	59.42	28.36	22.74	22.74	
17	26.20	52.43	52.43	61.82	61.82	115.01	64.25	118.05	60.61	27.63	31.33	21.41	
18	22.07	76.91	46.85	55.88	57.05	121.11	63.03	411.66	59.42	26.20	22.74	20.10	
19	29.09	131.27	34.41	54.72	75.61	100.26	98.83	422.48	54.72	24.79	17.58	20.75	
20	12.38	75.61	57.05	49.05	83.55	166.04	612.96	699.25	52.43	24.10	15.78	28.36	
21	20.10	89.00	67.96	43.61	69.22	195.36	106.07	390.33	51.29	23.42	14.04	22.07	
22	43.61	116.53	42.55	40.46	65.48	328.84	74.32	246.95	50.17	22.74	14.04	19.46	
23	66.72	93.17	42.55	36.39	64.25	200.88	90.38	187.19	46.85	21.41	13.48	21.41	
24	91.77	90.38	43.61	29.83	65.48	116.53	290.00	355.70	44.68	20.75	15.78	30.58	
25	57.05	52.43	49.05	31.33	66.72	104.61	365.97	187.19	41.50	20.10	29.09	52.43	
26	44.68	66.72	44.68	35.39	84.90	109.02	94.57	116.53	38.40	18.83	200.88	128.90	
27	53.57	97.40	38.40	37.39	67.96	110.51	115.01	128.90	37.39	18.20	558.62	89.00	
28	75.61	255.96	83.55	37.39	59.42	198.11	122.66	138.47	36.39	17.58	82.21	41.50	
29	70.48	78.23	103.15	37.39	54.72	640.80	83.55	271.24	34.41	16.97		47.95	
30	67.96	65.48	101.70	84.90	50.17	404.51	126.54	126.54	100.26	20.10		37.39	
31		63.03		112.00	53.57		110.51		66.72	24.10		103.15	
Total	972.12	1996.11	1943.79	4426.11	3991.95	4906.23	4789.85	5954.34	3241.68	1225.57	1302.69	1209.49	35959.93 Tonday
Mean	32.40	64.39	64.79	142.78	128.77	163.54	154.51	198.48	104.57	39.53	46.52	39.02	98.52 Ton/day
Max	91.77	255.96	103.15	847.81	1706.72	640.80	612.96	699.25	765.50	104.61	558.62	128.90	1706.72 Ton/day
Min	6.97	25.49	34.41	29.83	50.17	45.76	63.03	83.55	34.41	16.97	12.92	19.46	6.97 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlung Lam Lon at Ban U-Dai Tai , Satun (X.148)

Lat 06 - 55 - 42 N Long 99 - 56 - 09 E

Location : on right bank at Ban U-Dai Tai.

	Ban U-Dai Tai	Amphoe Khuan Ka Long	Changwat Satun
<b>Drainage Area</b>	157 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	2021 - Cont' d		
<b>Actual Measurement</b>	2021 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	12		
<b>R-Square</b>	0.7615		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.5844 QW^{2.45410}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.01	82.26	34.28	47.58	293.86	187.85	338.66	15.01	648.86	156.62	12.23	82.26	
2	9.79	82.26	36.74	39.29	156.62	293.86	194.51	9.79	1842.99	268.77	12.23	82.26	
3	8.16	70.67	39.29	31.93	86.36	134.01	150.77	8.16	569.57	181.34	12.23	41.95	
4	8.16	47.58	47.58	31.93	82.26	94.91	181.34	8.16	520.08	181.34	15.01	31.93	
5	8.16	39.29	56.81	34.28	74.42	118.41	3262.18	8.16	407.81	123.48	18.13	34.28	
6	8.68	41.95	56.81	34.28	70.67	74.42	924.47	8.68	338.66	113.46	19.83	53.63	
7	12.23	47.58	53.63	108.64	293.86	63.52	1693.84	12.23	285.35	103.94	16.53	50.55	
8	8.68	39.29	53.63	44.71	156.62	74.42	1586.84	8.68	252.77	99.36	15.01	36.74	
9	8.68	39.29	50.55	63.52	86.36	8442.09	428.98	8.68	222.51	99.36	15.01	36.74	
10	8.68	31.93	50.55	86.36	82.26	2380.20	244.99	8.68	208.23	94.91	13.58	34.28	
11	8.16	27.51	47.58	60.11	74.42	428.98	187.85	8.16	194.51	90.58	13.58	34.28	
12	8.16	27.51	47.58	56.81	70.67	237.36	162.60	8.16	194.51	86.36	15.01	36.74	
13	29.67	31.93	41.95	41.95	63.52	569.57	123.48	29.67	174.95	74.42	16.53	39.29	
14	63.52	27.51	39.29	27.51	56.81	484.70	118.41	63.52	168.71	74.42	19.83	39.29	
15	50.55	27.51	70.67	63.52	67.04	229.86	103.94	50.55	156.62	74.42	39.29	36.74	
16	36.74	36.74	50.55	78.28	70.67	162.60	103.94	36.74	145.05	70.67	18.13	34.28	
17	23.48	44.71	36.74	86.36	113.46	134.01	94.91	23.48	162.60	70.67	338.66	31.93	
18	41.95	29.67	34.28	74.42	156.62	123.48	86.36	41.95	174.95	67.04	23.48	29.67	
19	18.13	31.93	63.52	56.81	208.23	285.35	123.48	18.13	150.77	67.04	16.53	31.93	
20	36.74	50.55	34.28	50.55	1259.58	134.01	496.33	36.74	134.01	67.04	16.53	31.93	
21	27.51	50.55	63.52	44.71	582.36	134.01	128.68	27.51	99.36	50.55	18.13	94.91	
22	39.29	103.94	34.28	39.29	690.82	311.33	99.36	39.29	78.28	29.67	18.13	29.67	
23	23.48	103.94	31.93	34.28	194.51	145.05	473.23	23.48	67.04	19.83	16.53	27.51	
24	56.81	36.74	36.74	34.28	473.23	99.36	544.49	56.81	67.04	16.53	15.01	31.93	
25	56.81	41.95	31.93	44.71	194.51	168.71	595.32	56.81	63.52	15.01	13.58	128.68	
26	50.55	39.29	36.74	86.36	387.27	162.60	208.23	50.55	63.52	15.01	252.77	118.41	
27	53.63	70.67	39.29	145.05	208.23	285.35	705.15	53.63	67.04	13.58	7828.04	94.91	
28	128.68	113.46	47.58	78.28	113.46	168.71	260.70	128.68	67.04	12.23	229.86	47.58	
29	86.36	74.42	53.63	60.11	86.36	150.77	156.62	86.36	67.04	12.23		27.51	
30	41.95	41.95	56.81	128.68	156.62	676.66	439.80	41.95	123.48	10.97		23.48	
31		39.29		94.91	764.24		2080.83		123.48	10.97		47.58	
Total	978.40	1573.87	1378.76	1909.50	7375.92	16956.16	16300.29	978.40	7840.35	2371.82	9059.41	1502.87	68225.75 Tonday
Mean	32.61	50.77	45.96	61.60	237.93	565.21	525.82	32.61	252.91	76.51	323.55	48.48	186.92 Ton/day
Max	128.68	113.46	70.67	145.05	1259.58	8442.09	3262.18	128.68	1842.99	268.77	7828.04	128.68	8442.09 Ton/day
Min	8.16	27.51	31.93	27.51	56.81	63.52	86.36	8.16	63.52	10.97	12.23	23.48	8.16 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlong Langu at Ban Wang Pa Khian , Satun (X.150)

Lat 06 - 56 - 27 N Long 99 - 52 - 22 E

Location : on right bank at Ban Wang Pa Khian.

	Ban Wang Pa Khian	Amphoe Langu	Changwat Satun
<b>Drainage Area</b>	517 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	1998 - Cont' d		
<b>Actual Measurement</b>	1998 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	12		
<b>R-Square</b>	0.8430		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.1020 QW^{1.62590}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.72	150.80	104.09	54.37	604.74	206.58	666.86	525.61	432.81	220.18	43.58	283.91	
2	24.87	123.29	97.97	48.09	829.87	254.17	311.75	572.58	753.28	357.01	43.58	165.34	
3	21.41	88.09	90.03	42.11	262.96	242.64	222.94	311.75	820.71	280.88	42.11	123.29	
4	26.08	71.34	99.99	36.44	172.80	150.80	185.52	236.94	495.16	299.25	43.58	99.99	
5	27.30	49.63	262.96	35.07	146.07	139.08	671.09	193.32	390.77	231.31	40.66	88.09	
6	23.70	71.34	217.44	228.51	125.50	106.16	2621.75	217.44	302.36	185.52	37.83	106.16	
7	51.19	129.97	592.60	762.14	99.99	99.99	1311.09	942.81	260.02	146.07	36.44	185.52	
8	59.28	95.96	394.21	318.07	86.16	132.22	1311.09	286.96	231.31	127.73	42.11	93.97	
9	27.30	134.49	180.39	679.57	73.13	1505.08	612.89	190.70	206.58	114.60	43.58	93.97	
10	20.29	88.09	127.73	5654.46	99.99	5209.93	347.11	167.81	185.52	99.99	36.44	76.77	
11	17.10	110.35	118.92	2971.45	299.25	1782.55	257.09	182.95	182.95	93.97	32.40	66.07	
12	16.08	277.86	125.50	495.16	360.33	367.02	206.58	324.44	167.81	90.03	32.40	57.62	
13	23.70	262.96	118.92	265.92	220.18	436.39	172.80	709.56	153.19	82.35	31.09	52.77	
14	286.96	127.73	127.73	206.58	148.43	654.25	150.80	797.99	143.72	71.34	31.09	52.77	
15	102.03	90.03	125.50	220.18	177.85	330.86	134.49	408.09	134.49	67.81	49.63	91.99	
16	73.13	90.03	102.03	167.81	195.94	251.27	118.92	299.25	125.50	64.34	66.07	64.34	
17	136.78	143.72	86.16	132.22	228.51	206.58	110.35	552.82	127.73	60.95	99.99	54.37	
18	78.62	436.39	78.62	114.60	220.18	771.04	116.75	3424.45	162.88	60.95	95.96	48.09	
19	55.99	262.96	66.07	102.03	476.49	447.19	129.97	3392.83	129.97	59.28	46.57	45.06	
20	86.16	211.98	69.57	91.99	967.03	517.93	612.89	4485.96	114.60	59.28	40.66	49.63	
21	62.64	251.27	78.62	84.25	1173.10	318.07	299.25	2600.35	108.25	57.62	48.09	60.95	
22	84.25	383.92	55.99	69.57	370.37	439.98	167.81	914.05	106.16	54.37	36.44	49.63	
23	99.99	495.16	69.57	64.34	350.40	429.25	236.94	608.81	104.09	52.77	31.09	48.09	
24	239.78	254.17	66.07	55.99	548.90	245.50	337.32	1032.35	104.09	52.77	32.40	90.03	
25	188.10	146.07	60.95	52.77	890.36	211.98	568.60	696.65	110.35	51.19	99.99	139.08	
26	162.88	118.92	99.99	51.19	696.65	260.02	350.40	458.09	102.03	48.09	175.32	353.70	
27	296.16	193.32	64.34	48.09	360.33	271.87	236.94	373.74	82.35	46.57	1583.77	350.40	
28	217.44	514.11	67.81	46.57	234.12	231.31	383.92	415.09	74.94	45.06	1070.05	283.91	
29	394.21	242.64	162.88	48.09	177.85	370.37	182.95	744.45	71.34	43.58		158.01	
30	228.51	146.07	88.09	125.50	177.85	967.03	231.31	552.82	141.39	43.58		129.97	
31		108.25		182.95	360.33		641.74		234.12	43.58		239.78	
Total	3165.65	5870.91	4000.74	13456.08	11135.66	17557.11	13909.91	26620.66	6760.47	3312.02	4012.92	3803.27	113605.40 Tonday
Mean	105.52	189.38	133.36	434.07	359.21	585.24	448.71	887.36	218.08	106.84	143.32	122.69	311.25 Ton/day
Max	394.21	514.11	592.60	5654.46	1173.10	5209.93	2621.75	4485.96	820.71	357.01	1583.77	353.70	5654.46 Ton/day
Min	16.08	49.63	55.99	35.07	73.13	99.99	110.35	167.81	71.34	43.58	31.09	45.06	16.08 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlung Ta Kuaw Pa at Ban Hin Dan , Phangnga (X.187)

Lat 08 - 46 - 34 N Long 98 - 23 - 26 E

Location : on left bank at the bridge on Surat Thanu - Phang Nga Highway.

	<b>Ban</b> Hin Dan	<b>Amphoe</b> Ta Kuaw Pa	<b>Changwat</b> Phangnga
<b>Drainage Area</b>	545 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2003 - Cont'd		
<b>Actual Measurement</b>	2003 - 2008, 2010 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	11		
<b>R-Square</b>	0.7308		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.3039 QW^{0.98570}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.01	186.06	520.34	114.84	508.10	203.79	990.00	274.53	203.79	90.97	67.01	67.01	
2	138.63	168.30	356.72	114.84	571.59	576.25	479.52	274.53	203.79	90.97	67.01	67.01	
3	138.63	203.79	356.72	114.84	822.33	397.71	479.52	274.53	203.79	90.97	67.01	67.01	
4	42.92	159.41	203.79	114.84	1524.63	274.53	479.52	274.53	203.79	90.97	67.01	67.01	
5	42.92	138.63	203.79	114.84	1162.45	256.87	479.52	274.53	203.79	67.01	67.01	67.01	
6	42.92	138.63	138.63	171.85	1082.33	203.79	780.63	203.79	203.79	67.01	67.01	67.01	
7	42.92	138.63	315.67	410.00	1481.59	203.79	903.33	203.79	203.79	67.01	67.01	67.01	
8	168.30	114.84	274.53	557.62	885.99	214.42	520.34	203.79	193.15	67.01	67.01	67.01	
9	168.30	114.84	203.79	712.79	618.71	744.11	718.02	203.79	182.51	67.01	67.01	67.01	
10	90.97	114.84	203.79	961.13	580.90	1130.76	702.35	203.79	171.85	67.01	67.01	67.01	
11	90.97	114.84	203.79	1481.59	949.57	1168.78	538.98	203.79	162.37	67.01	67.01	67.01	
12	90.97	114.84	438.64	1070.80	1524.63	718.02	733.68	203.79	147.54	67.01	67.01	67.01	
13	88.58	114.84	438.64	1175.12	858.80	718.02	1295.42	203.79	144.57	67.01	67.01	67.01	
14	90.97	90.97	356.72	446.82	520.34	718.02	1105.40	203.79	136.26	67.01	67.01	67.01	
15	90.97	90.97	274.53	525.00	450.91	613.48	718.02	203.79	129.12	67.01	69.41	67.01	
16	90.97	274.53	274.53	479.52	479.52	718.02	665.78	203.79	126.74	67.01	67.01	67.01	
17	90.97	315.67	274.53	203.79	410.00	613.48	566.94	203.79	129.12	67.01	67.01	67.01	
18	90.97	274.53	203.79	138.63	274.53	613.48	566.94	203.79	131.50	67.01	67.01	67.01	
19	90.97	178.96	203.79	138.63	249.81	613.48	543.64	203.79	131.50	67.01	67.01	67.01	
20	168.30	203.79	203.79	131.50	203.79	613.48	479.52	203.79	100.52	67.01	67.01	67.01	
21	168.30	203.79	203.79	138.63	203.79	909.12	479.52	203.79	112.45	67.01	67.01	67.01	
22	114.84	274.53	114.84	138.63	203.79	1219.46	479.52	203.79	100.52	67.01	67.01	67.01	
23	114.84	459.09	278.65	114.84	203.79	791.06	479.52	203.79	102.91	67.01	67.01	67.01	
24	566.94	356.72	274.53	114.84	203.79	718.02	479.52	203.79	98.14	67.01	67.01	67.01	
25	114.84	356.72	274.53	114.84	543.64	718.02	479.52	203.79	95.75	67.01	67.01	67.01	
26	114.84	543.64	203.79	114.84	1124.42	1181.46	479.52	203.79	90.97	67.01	67.01	67.01	
27	114.84	520.34	196.70	114.84	566.94	1225.79	418.19	203.79	90.97	67.01	67.01	71.81	
28	112.45	520.34	203.79	114.84	438.64	1282.76	274.53	203.79	90.97	67.01	67.01	67.01	
29	186.06	479.52	114.84	114.84	385.42	1162.45	274.53	203.79	90.97	67.01		67.01	
30	203.79	479.52	114.84	138.63	385.42	1105.40	274.53	203.79	90.97	67.01		67.01	
31		520.34		138.63	327.99		274.53		90.97	67.01		67.01	
Total	3739.90	7966.46	7630.82	10537.39	19748.15	21627.82	18140.50	6467.40	4368.87	2173.15	1878.68	2082.11	106361.25 Tonday
Mean	124.66	256.98	254.36	339.92	637.04	720.93	585.18	215.58	140.93	70.10	67.10	67.16	291.40 Ton/day
Max	566.94	543.64	520.34	1481.59	1524.63	1282.76	1295.42	274.53	203.79	90.97	69.41	71.81	1524.63 Ton/day
Min	42.92	90.97	114.84	114.84	203.79	203.79	274.53	203.79	90.97	67.01	67.01	67.01	42.92 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlong Bang Yai at Satree Phuket School , Phuket (X.191)

Lat 07 - 53 - 28 N Long 98 - 23 - 30 E

Location : on left bank at Satree Phuket School.

	<b>Ban -</b>	<b>Amphoe Mueang</b>	<b>Changwat Phuket</b>
<b>Drainage Area</b>	56 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2003-Cont'd		
<b>Actual Measurement</b>	2003-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	12		
<b>R-Square</b>	0.8942		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 8.3633 QW^{1.33230}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.33	4.23	6.21	5.40	6.21	21.48	33.76	22.76	39.06	3.86	2.47	3.50	
2	10.19	3.50	10.19	4.61	6.84	24.06	12.35	14.23	24.06	3.50	2.47	2.80	
3	9.50	3.86	5.40	4.23	11.62	15.38	8.81	10.19	18.98	3.50	2.80	2.80	
4	4.23	3.50	5.00	5.00	6.21	10.19	8.14	10.90	15.38	4.23	2.47	2.80	
5	3.50	3.15	16.56	3.86	5.40	8.14	17.76	10.19	13.09	4.61	2.47	3.50	
6	15.38	3.86	5.80	4.23	5.00	6.84	68.17	15.38	11.62	4.23	2.47	3.50	
7	10.90	3.15	5.40	3.86	5.00	6.21	39.06	22.76	10.19	4.23	15.38	2.80	
8	5.00	2.80	5.00	28.65	4.23	13.09	48.31	22.76	8.81	4.61	22.76	2.47	
9	3.86	2.47	8.14	33.76	5.40	25.37	28.65	17.76	7.48	4.23	11.62	2.47	
10	3.15	3.15	10.90	42.70	17.76	11.62	22.76	12.35	6.84	3.86	5.00	2.80	
11	2.80	3.15	7.48	68.17	9.50	9.50	21.48	12.35	6.84	3.86	4.23	2.14	
12	2.80	2.80	5.80	18.98	8.14	14.23	16.56	10.90	7.48	3.86	3.86	2.47	
13	3.86	2.47	5.40	10.19	5.40	10.19	13.09	76.57	6.84	4.23	3.86	2.47	
14	9.50	3.86	5.00	7.48	4.61	10.19	20.22	66.11	6.21	3.86	3.50	2.47	
15	14.23	3.86	5.00	24.06	91.82	16.56	15.38	68.17	5.40	3.86	5.00	2.14	
16	18.98	2.80	4.23	10.90	40.87	8.14	8.81	54.09	5.00	3.50	32.03	2.47	
17	8.81	5.00	3.86	6.84	10.19	6.21	6.84	32.03	4.61	3.86	39.06	3.15	
18	5.00	7.48	3.15	6.21	6.84	6.21	5.80	326.46	8.81	3.86	8.81	10.90	
19	7.48	3.86	5.00	5.80	24.06	9.50	6.21	105.43	12.35	4.23	5.40	13.09	
20	5.40	3.15	3.50	5.40	18.98	66.11	13.09	70.25	5.40	3.86	4.61	5.80	
21	4.23	2.47	4.61	5.00	58.03	74.45	42.70	70.25	10.19	3.50	3.86	4.61	
22	3.50	9.50	14.23	5.40	89.60	33.76	13.09	56.05	5.00	3.15	4.23	3.86	
23	4.61	6.21	13.09	4.61	35.50	20.22	18.98	50.22	4.61	3.50	5.00	3.86	
24	3.86	3.86	9.50	4.23	89.60	20.22	11.62	28.65	3.86	3.50	5.40	3.50	
25	5.80	6.21	60.03	4.23	72.34	52.15	10.19	22.76	4.61	3.50	4.61	4.61	
26	9.50	9.50	13.09	3.86	80.86	50.22	8.14	21.48	10.19	3.15	4.23	3.15	
27	6.84	5.40	6.84	3.86	32.03	50.22	8.14	25.37	12.35	3.15	3.86	2.80	
28	4.61	25.37	5.80	7.48	17.76	30.33	8.81	25.37	5.80	2.80	3.50	3.50	
29	4.61	21.48	8.14	5.40	12.35	25.37	15.38	33.76	5.80	3.15		2.80	
30	4.23	6.21	5.80	10.19	24.06	33.76	78.70	27.00	4.61	2.80		3.15	
31		8.81		8.14	64.07		78.70		4.23	2.47		5.00	
Total	226.69	177.12	268.15	362.73	870.28	689.92	709.70	1342.55	295.70	114.51	214.96	117.38	5389.69 Tonday
Mean	7.56	5.71	8.94	11.70	28.07	23.00	22.89	44.75	9.54	3.69	7.68	3.79	14.77 Ton/day
Max	30.33	25.37	60.03	68.17	91.82	74.45	78.70	326.46	39.06	4.61	39.06	13.09	326.46 Ton/day
Min	2.80	2.47	3.15	3.86	4.23	6.21	5.80	10.19	3.86	2.47	2.47	2.14	2.14 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlong Kapong at Ban Tha Na , Phang Nga (X.196)

Lat 08 - 42 - 09 N Long 98 - 24 - 33 E

Location : on left bank at the bridge.

	<b>Ban</b> Tha Na	<b>Amphoe</b> Kapong	<b>Changwat</b> Phang Nga
<b>Drainage Area</b>	131 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2003 - Cont' d		
<b>Actual Measurement</b>	2003 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	13		
<b>R-Square</b>	0.7181		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 10.5430 QW^{0.91740}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.27	83.16	132.24	126.45	360.53	124.51	242.47	139.92	87.17	28.89	10.54	8.59	
2	56.64	93.15	66.95	124.51	315.23	196.10	198.33	128.38	85.17	26.67	8.59	4.55	
3	41.90	93.15	58.71	118.69	337.95	136.08	173.68	116.75	77.12	26.67	8.59	2.41	
4	26.67	87.17	56.64	124.51	275.10	118.69	153.27	128.38	71.03	26.67	12.46	46.15	
5	22.18	85.17	97.12	116.75	268.60	108.93	157.83	118.69	66.95	26.67	8.59	56.64	
6	24.44	66.95	64.90	116.75	380.19	103.04	244.66	114.80	62.84	24.44	10.54	44.03	
7	41.90	64.90	60.78	144.13	396.97	97.12	264.27	124.51	60.78	24.44	33.27	39.76	
8	46.15	66.95	52.47	229.31	264.27	105.01	268.60	116.75	56.64	22.18	71.03	33.27	
9	54.56	62.84	58.71	283.74	231.51	277.98	268.60	103.04	54.56	22.18	41.90	31.09	
10	50.37	56.64	200.56	343.61	231.51	227.11	229.31	95.13	52.47	19.91	37.61	19.91	
11	64.90	60.78	126.45	292.36	377.39	171.42	266.44	95.13	50.37	19.91	19.91	16.23	
12	54.56	62.84	128.38	222.71	380.19	155.55	468.28	91.16	48.27	19.91	16.23	14.36	
13	41.90	89.17	110.89	178.18	266.44	144.13	368.97	93.15	46.15	18.08	39.76	26.67	
14	46.15	87.17	128.38	162.37	224.91	141.83	315.23	85.17	44.03	18.08	39.76	28.89	
15	46.15	91.16	114.80	184.92	213.87	184.92	255.57	85.17	44.03	18.08	31.09	14.36	
16	52.47	108.93	124.51	178.18	198.33	136.08	218.29	83.16	41.90	18.08	28.89	14.36	
17	44.03	89.17	105.01	136.08	175.93	122.58	191.63	81.15	41.90	18.08	18.08	14.36	
18	39.76	95.13	95.13	122.58	148.71	130.31	171.42	132.24	41.90	16.23	16.23	14.36	
19	56.64	79.14	91.16	112.85	155.55	122.58	169.16	148.71	39.76	16.23	12.46	24.44	
20	95.13	60.78	85.17	106.97	155.55	153.27	162.37	114.80	39.76	16.23	14.36	18.08	
21	68.99	83.16	85.17	101.07	213.87	399.76	139.92	108.93	37.61	16.23	10.54	35.45	
22	54.56	106.97	83.16	95.13	187.16	309.53	144.13	97.12	35.45	14.36	12.46	19.91	
23	66.95	138.00	173.68	91.16	153.27	211.66	160.10	87.17	35.45	14.36	16.23	14.36	
24	75.10	114.80	124.51	89.17	162.37	178.18	189.40	81.15	33.27	16.23	12.46	16.23	
25	54.56	160.10	205.00	85.17	235.90	218.29	189.40	81.15	37.61	16.23	8.59	35.45	
26	64.90	209.44	164.64	81.15	289.49	461.40	153.27	83.16	44.03	14.36	10.54	35.45	
27	87.17	306.67	146.42	79.14	200.56	315.23	146.42	77.12	37.61	12.46	10.54	31.09	
28	64.90	286.62	136.08	85.17	169.16	329.45	130.31	73.07	28.89	12.46	10.54	31.09	
29	87.17	259.92	128.38	153.27	150.99	326.61	118.69	81.15	31.09	10.54		31.09	
30	105.01	242.47	124.51	550.15	141.83	303.81	182.68	124.51	31.09	10.54		35.45	
31		222.71		268.60	128.38		198.33		28.89	8.59		64.90	
Total	1669.08	3715.21	3330.51	5104.83	7391.71	6011.16	6541.03	3090.72	1493.79	573.99	571.79	822.98	40316.80 Ton/day
Mean	55.64	119.85	111.02	164.67	238.44	200.37	211.00	103.02	48.19	18.52	20.42	26.55	110.46 Ton/day
Max	105.01	306.67	205.00	550.15	396.97	461.40	468.28	148.71	87.17	28.89	71.03	64.90	550.15 Ton/day
Min	22.18	56.64	52.47	79.14	128.38	97.12	118.69	73.07	28.89	8.59	8.59	2.41	2.41 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlong La - Un at Ban La - Un Tai, Ranong (X.205)

Lat 10 - 06 - 37 N Long 98 - 45 - 32 E

Location : on left bank at Ban La - Un.

	<b>Ban La - Un Tai</b>	<b>Amphoe La - Un</b>	<b>Changwat Ranong</b>
<b>Drainage Area</b>	229 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2004 - Cont' d		
<b>Actual Measurement</b>	2004 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	11		
<b>R-Square</b>	0.7410		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 11.5648 QW^{1.25210}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	395.68	141.74	122.83	161.18	1419.46	1283.52	292.56	713.40	10626.01	366.42	389.79	49.62	
2	461.60	191.25	196.35	378.07	1762.73	1048.99	303.70	372.23	9461.13	389.79	419.42	161.18	
3	201.49	146.56	232.84	238.16	2303.56	372.23	276.00	615.22	4668.67	366.42	366.42	91.13	
4	53.53	95.54	201.49	254.24	2902.22	281.50	309.30	443.42	1972.30	378.07	520.11	91.13	
5	132.22	59.51	281.50	217.05	4756.08	654.14	326.23	383.92	1636.19	461.60	378.07	309.30	
6	61.53	40.11	437.39	151.40	2662.03	538.87	683.64	395.68	949.50	492.22	395.68	53.53	
7	53.53	29.28	191.25	122.83	2770.69	743.41	4552.63	171.09	132.22	118.18	349.08	47.68	
8	65.61	186.16	960.06	146.56	2269.97	395.68	13884.92	292.56	181.11	366.42	186.16	166.12	
9	132.22	99.99	1121.25	314.92	1298.49	6965.23	9505.86	248.85	204.07	314.92	238.16	166.12	
10	127.50	309.30	1956.01	1907.31	855.51	3191.31	4322.34	292.56	240.82	287.02	343.34	314.92	
11	51.57	395.68	1589.23	1988.61	1209.22	1092.23	2169.82	331.91	243.49	529.47	343.34	343.34	
12	186.16	281.50	1313.49	1034.66	855.51	1465.38	4814.54	11922.49	281.50	292.56	303.70	389.79	
13	407.51	281.50	303.70	855.51	928.44	1034.66	2924.26	8444.47	148.97	303.70	156.28	91.13	
14	265.08	309.30	663.94	624.90	991.90	1092.23	2186.45	7260.68	191.25	510.78	53.53	615.22	
15	349.08	248.85	479.92	595.94	1077.78	897.04	2426.13	3897.20	186.16	372.23	53.53	548.30	
16	276.00	248.85	473.80	389.79	265.08	1020.36	1858.87	4179.65	151.40	349.08	366.42	520.11	
17	281.50	181.11	378.07	196.35	479.92	644.36	673.78	2153.21	151.40	82.44	320.57	624.90	
18	320.57	181.11	437.39	254.24	259.65	683.64	907.48	4408.42	136.96	644.36	49.62	567.26	
19	136.96	196.35	401.59	259.65	337.62	1006.11	473.80	2253.22	139.35	567.26	53.53	343.34	
20	109.01	314.92	437.39	281.50	413.46	520.11	605.57	2087.06	156.28	343.34	171.09	455.52	
21	118.18	63.56	378.07	320.57	824.62	804.16	834.89	1328.53	139.35	118.18	383.92	473.80	
22	61.53	211.84	654.14	716.72	473.80	2858.24	683.64	1604.85	151.40	276.00	287.02	331.91	
23	29.28	141.74	703.45	211.84	615.22	1715.06	349.08	1715.06	139.35	326.23	176.09	520.11	
24	78.16	141.74	443.42	256.94	723.37	1121.25	437.39	907.48	139.35	259.65	222.29	615.22	
25	232.84	644.36	431.38	592.74	897.04	663.94	372.23	7558.57	127.50	292.56	343.34	425.39	
26	320.57	793.97	431.38	612.00	928.44	793.97	413.46	2186.45	605.57	276.00	53.53	501.48	
27	27.55	595.94	413.46	599.15	1450.04	431.38	383.92	1939.75	360.62	287.02	132.22	383.92	
28	349.08	586.35	413.46	309.30	1389.02	1006.11	314.92	1150.43	166.12	171.09	303.70	437.39	
29	287.02	372.23	354.84	243.49	743.41	586.35	437.39	1209.22	349.08	360.62		378.07	
30	824.62	431.38	211.84	7837.31	473.80	437.39	206.65	1923.52	326.23	383.92		331.91	
31		292.56		2253.22	486.06		176.09		298.12	141.74		259.65	
Total	6397.18	8214.28	16614.93	24326.15	38824.14	35348.85	58107.54	72391.10	34661.47	10429.29	7359.95	10608.49	323283.37 Ton/day
Mean	213.24	264.98	553.83	784.71	1252.39	1178.29	1874.44	2413.04	1118.11	336.43	262.86	342.21	885.71 Ton/day
Max	824.62	793.97	1956.01	7837.31	4756.08	6965.23	13884.92	11922.49	10626.01	644.36	520.11	624.90	13884.92 Ton/day
Min	27.55	29.28	122.83	122.83	259.65	281.50	176.09	171.09	127.50	82.44	49.62	47.68	27.55 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Upper Khlong Kapoe at Ban Chaew Lueang , Ranong (X.208A)

Lat 09 - 35 - 23 N Long 98 - 37 - 59 E

Location : on left bank at the bridge.

	<b>Ban</b> Chaew Lueang	<b>Amphoe</b> Kapoe	<b>Changwat</b> Ranong
<b>Drainage Area</b>	189 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2021 - Cont' d		
<b>Actual Measurement</b>	2021 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	10		
<b>R-Square</b>	0.7217		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9072 QW^{1.88450}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.53	4.18	69.53	41.46	164.65	74.87	242.42	170.60	1443.48	45.66	17.44	9.10	
2	6.53	4.18	66.94	39.42	189.01	83.22	411.83	221.66	2721.39	43.54	16.09	9.10	
3	6.53	4.18	64.39	39.42	242.42	170.60	264.05	176.63	1763.18	41.46	14.80	8.12	
4	6.53	4.18	61.88	39.42	393.90	439.43	228.48	153.07	1378.89	39.42	14.80	8.12	
5	6.53	3.67	59.42	37.44	385.08	600.71	195.34	125.85	860.61	37.44	13.56	8.12	
6	6.53	3.67	57.01	37.44	278.95	1057.97	667.25	105.88	568.68	35.51	13.56	8.12	
7	6.53	3.67	80.39	72.18	221.66	2067.38	1531.76	91.98	458.30	33.62	13.56	8.12	
8	6.53	3.67	131.09	1193.47	201.78	3060.42	9832.73	83.22	376.35	31.78	12.37	7.19	
9	5.90	3.67	77.61	4695.67	182.77	4461.87	9434.93	80.39	325.94	31.78	12.37	7.19	
10	5.90	3.67	72.18	5481.36	170.60	6400.21	6269.51	131.09	294.23	29.99	12.37	7.19	
11	5.29	3.67	141.88	3666.78	125.85	6334.70	5279.60	80.39	228.48	28.25	12.37	7.19	
12	5.29	3.67	153.07	2470.65	115.66	4601.48	4011.12	77.61	176.63	26.55	12.37	7.19	
13	5.29	3.67	101.15	1668.78	101.15	3336.99	3060.42	74.87	147.43	26.55	12.37	7.19	
14	5.29	3.67	83.22	983.99	87.54	2576.71	2231.31	74.87	120.71	26.55	12.37	7.19	
15	5.29	3.67	61.88	527.25	74.87	1909.34	1576.82	72.18	105.88	26.55	12.37	6.53	
16	5.29	3.67	54.65	359.16	69.53	1509.46	1153.97	66.94	80.39	24.91	12.37	6.53	
17	4.72	3.67	54.65	256.74	57.01	1076.86	895.07	61.88	69.53	24.91	11.23	6.53	
18	4.72	5.29	52.33	182.77	52.33	843.62	682.48	57.01	57.01	24.91	11.23	6.53	
19	4.72	64.39	52.33	385.08	45.66	600.71	497.14	52.33	54.65	23.32	11.23	5.90	
20	4.72	385.08	50.06	1554.22	37.44	568.68	367.71	50.06	52.33	23.32	11.23	7.19	
21	4.72	729.14	50.06	2576.71	33.62	652.18	228.48	59.42	52.33	23.32	11.23	35.51	
22	4.72	611.57	50.06	235.40	23.32	568.68	170.60	87.54	52.33	23.32	11.23	13.56	
23	4.72	317.87	47.84	77.61	24.91	487.29	147.43	110.72	52.33	23.32	10.14	10.14	
24	4.18	208.31	47.84	54.65	20.28	367.71	136.44	136.44	52.33	21.77	10.14	10.14	
25	4.18	507.09	45.66	120.71	309.89	317.87	125.85	1509.46	50.06	21.77	10.14	9.10	
26	4.18	697.87	45.66	334.10	517.12	309.89	120.71	256.74	50.06	21.77	9.10	9.10	
27	4.18	877.76	43.54	568.68	342.36	302.01	120.71	131.09	50.06	20.28	9.10	9.10	
28	7.19	637.27	43.54	947.95	249.53	294.23	115.66	91.98	47.84	20.28	9.10	8.12	
29	8.12	458.30	41.46	745.01	214.94	264.05	110.72	74.87	47.84	20.28		8.12	
30	4.18	221.66	41.46	420.94	164.65	256.74	105.88	189.01	47.84	18.83		7.19	
31		96.51		271.45	96.51		115.66		47.84	18.83		7.19	
Total	165.03	5882.54	2002.78	30085.91	5194.99	45595.88	50332.08	4655.78	11834.95	859.79	340.24	275.61	157225.58 Ton/day
Mean	5.50	189.76	66.76	970.51	167.58	1519.86	1623.62	155.19	381.77	27.74	12.15	8.89	430.76 Ton/day
Max	8.12	877.76	153.07	5481.36	517.12	6400.21	9832.73	1509.46	2721.39	45.66	17.44	35.51	9832.73 Ton/day
Min	4.18	3.67	41.46	37.44	20.28	74.87	105.88	50.06	47.84	18.83	9.10	5.90	3.67 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Trang River at Ban Klang , Trang (X.228)

Lat 07 - 38 - 43 N Long 99 - 31 - 57 E

Location : on left bank at Ban Klang.

	<b>Ban Klang</b>	<b>Amphoe Mueang</b>	<b>Changwat Trang</b>
<b>Drainage Area</b>	2,692 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2021 - Cont' d		
<b>Actual Measurement</b>	2021 - Cont' d		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.7902		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.1517 QW^{1.49050}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.97	214.06	279.75	63.60	622.47	748.88	3745.98	1519.09	7199.94	332.54	73.47	1464.64	
2	36.97	163.13	332.54	63.60	1202.42	748.88	3302.92	1305.27	7952.74	276.10	73.47	945.31	
3	36.97	145.92	276.10	65.21	1061.58	801.56	1674.99	1305.27	8879.53	243.93	65.21	481.95	
4	34.57	148.03	185.96	183.23	598.13	794.91	855.40	945.31	8247.31	225.66	62.00	305.77	
5	34.57	123.31	191.48	127.33	451.00	468.24	924.30	742.38	7309.91	216.94	63.60	234.49	
6	34.57	98.26	320.98	265.23	344.24	302.01	1053.47	716.56	6061.78	222.74	63.60	228.59	
7	46.76	85.57	216.94	1077.84	302.01	231.54	875.89	1674.99	4412.90	211.20	60.41	258.07	
8	46.76	87.35	154.44	841.83	219.84	197.05	1674.99	3765.66	2491.14	183.23	58.84	205.50	
9	33.53	158.76	131.38	781.67	167.53	360.04	3060.73	4044.67	1563.12	165.32	57.28	178.69	
10	31.47	152.30	123.31	3589.80	145.92	2003.44	2914.74	3340.71	1127.14	152.30	58.84	171.96	
11	29.45	113.45	135.49	5992.81	214.06	3024.01	1697.67	2059.69	1029.28	143.81	57.28	154.44	
12	28.46	133.43	171.96	6801.46	710.16	1878.74	903.45	2753.33	1077.84	137.55	55.73	133.43	
13	41.07	100.12	216.94	4727.71	959.40	889.63	574.77	4600.93	910.38	131.38	52.68	121.32	
14	63.60	85.57	360.04	2275.17	761.94	604.18	476.95	5892.69	691.05	123.31	49.69	111.52	
15	214.06	94.58	380.12	1143.73	491.99	855.40	481.95	6873.35	580.08	117.36	52.68	121.32	
16	194.26	169.74	234.49	1177.15	781.67	896.53	408.82	7236.53	512.29	113.45	109.59	109.59	
17	133.43	152.30	188.72	841.83	1262.08	598.13	340.32	6945.49	463.91	107.67	476.95	101.99	
18	85.57	154.44	176.44	446.72	2987.44	388.25	408.82	6873.35	433.96	103.87	924.30	92.75	
19	180.96	171.96	145.92	294.53	3864.55	486.96	848.61	7126.93	438.20	98.26	586.07	87.35	
20	197.05	135.49	123.31	225.66	3551.09	1244.94	1530.06	7236.53	442.45	98.26	287.11	111.52	
21	127.33	117.36	113.45	191.48	2304.43	2145.04	1400.17	6981.66	396.43	94.58	234.49	433.96	
22	107.67	145.92	156.60	165.32	2491.14	2304.43	794.91	5892.69	368.03	92.75	247.44	604.18	
23	119.33	143.81	117.36	145.92	2491.14	2577.58	910.38	4125.58	344.24	103.87	214.06	451.00	
24	135.49	156.60	111.52	133.43	1563.12	1947.69	1400.17	3116.08	348.17	92.75	150.16	622.47	
25	141.71	143.81	107.67	129.35	997.32	1143.73	2860.60	2647.42	313.35	85.57	158.76	828.34	
26	111.52	117.36	96.41	113.45	1037.32	869.04	4839.58	3079.14	276.10	80.31	167.53	722.99	
27	103.87	119.33	90.94	101.99	1086.01	945.31	5336.89	3765.66	247.44	76.87	532.85	761.94	
28	165.32	442.45	80.31	96.41	875.89	1110.63	6131.02	4207.02	228.59	73.47	1315.70	580.08	
29	309.55	1143.73	80.31	127.33	653.35	1697.67	4936.14	4887.78	214.06	71.79		417.14	
30	298.26	794.91	68.47	156.60	455.29	3321.80	2629.90	6516.38	202.67	70.13		472.59	
31		372.04		165.32	446.72		1720.45		254.51	73.47		360.04	
Total	3161.10	6385.09	5369.35	32512.71	35101.25	35586.24	60715.04	#####	65018.54	4320.44	6309.79	11874.93	388532.62 Tonday
Mean	105.37	205.97	178.98	1048.80	1132.30	1186.21	1958.55	4072.60	2097.37	139.37	225.35	383.06	1064.47 Ton/day
Max	309.55	1143.73	380.12	6801.46	3864.55	3321.80	6131.02	7236.53	8879.53	332.54	1315.70	1464.64	8879.53 Ton/day
Min	28.46	85.57	68.47	63.60	145.92	197.05	340.32	716.56	202.67	70.13	49.69	87.35	28.46 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Lower Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

Lat 07 - 22 - 19 N Long 99 - 40 - 37 E

Location : on right bank at Ban Yan Ta Khaow.

	<b>Ban</b>	<b>Yan Ta Khaow</b>	<b>Amphoe</b>	<b>Yan Ta Khaow</b>	<b>Changwat</b>	<b>Trang</b>
<b>Drainage Area</b>	731	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.DH-49					
<b>Period of Available Records</b>	2005-Cont'd					
<b>Actual Measurement</b>	2005-2006, 2010-Cont'd					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	12					
<b>R-Square</b>	0.7675					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.5785 QW^{1.75750}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.80	159.87	18.58	20.43	1330.35	192.11	167.98	463.58	485.58	239.02	66.71	255.63	
2	100.38	127.08	21.39	34.27	1025.74	259.85	95.73	683.51	2203.34	322.13	73.95	192.11	
3	62.06	73.95	13.88	21.39	749.16	299.23	82.37	589.94	1704.90	345.76	86.73	184.73	
4	54.27	37.58	14.69	20.43	560.07	247.26	56.82	525.12	912.33	285.84	100.38	184.73	
5	37.58	31.66	12.71	23.35	431.42	222.89	385.05	508.01	657.98	234.94	71.50	184.73	
6	23.60	36.06	13.88	458.15	322.13	195.85	420.92	496.74	577.91	211.12	52.49	173.88	
7	34.57	52.49	20.43	764.85	239.02	215.01	530.88	772.75	513.69	173.88	39.13	166.81	
8	52.49	71.50	19.50	502.36	303.75	259.85	895.39	542.47	420.92	130.21	31.66	106.08	
9	62.06	84.10	14.69	583.91	277.06	480.04	657.98	458.15	345.76	97.58	22.36	92.09	
10	69.09	100.38	19.50	1434.96	268.40	820.87	583.91	317.49	290.27	71.50	13.49	59.79	
11	76.44	106.08	58.30	963.96	474.52	508.01	452.75	294.74	264.11	54.27	10.67	39.13	
12	84.10	8.45	33.10	729.19	735.82	390.09	326.80	474.52	203.43	48.99	13.49	28.86	
13	92.09	14.69	31.94	525.12	542.47	317.49	239.02	577.91	177.47	59.79	18.81	30.24	
14	146.36	10.49	36.67	426.15	395.16	61.30	184.73	508.01	177.47	59.79	23.60	37.58	
15	139.80	8.45	25.39	508.01	360.28	193.36	153.05	420.92	170.33	62.06	57.93	111.91	
16	114.88	6.91	15.95	415.71	375.06	121.93	166.81	390.09	163.32	66.71	173.88	92.09	
17	97.58	7.51	13.09	299.23	322.13	65.92	177.47	436.71	163.32	71.50	130.21	106.08	
18	78.96	7.82	9.79	285.84	317.49	233.59	222.89	1110.23	166.81	76.44	136.57	130.21	
19	89.39	15.95	10.49	230.90	415.71	212.42	345.76	2115.29	153.05	86.73	123.98	143.07	
20	45.60	17.68	9.79	222.89	395.16	345.76	742.48	1579.72	153.05	89.39	106.08	166.81	
21	24.87	31.94	58.30	211.12	410.53	358.65	571.94	1494.55	143.07	92.09	127.08	199.62	
22	40.71	137.65	67.50	192.11	485.58	352.18	452.75	1604.42	143.07	97.58	100.38	146.36	
23	71.50	69.89	45.60	184.73	355.41	483.73	426.15	1007.92	153.05	84.10	59.79	114.88	
24	106.08	82.37	37.89	177.47	326.80	189.64	560.07	853.65	143.07	66.71	37.58	92.09	
25	127.08	51.08	30.81	192.11	326.80	161.02	749.16	632.86	117.88	52.49	43.94	59.79	
26	130.21	65.92	33.10	159.87	360.28	164.48	530.88	571.94	94.82	39.13	111.91	146.36	
27	163.32	65.92	27.50	166.81	290.27	326.80	390.09	458.15	78.96	30.24	812.77	117.88	
28	226.88	125.01	23.35	149.69	251.43	266.96	480.04	474.52	69.09	30.24	390.09	106.08	
29	215.01	74.78	37.89	127.08	199.62	358.65	326.80	577.91	64.37	33.10		149.69	
30	192.11	41.67	26.44	159.87	159.87	233.59	317.49	583.91	163.32	40.71		173.88	
31		34.27		243.13	277.06		602.07		243.13	54.27		264.11	
<b>Total</b>	2898.87	1759.20	802.14	10435.09	13284.55	8538.53	12296.23	21525.73	11318.87	3408.31	3037.16	4057.30	93361.98 Tonday
<b>Mean</b>	96.63	56.75	26.74	336.62	428.53	284.62	396.65	717.52	365.12	109.95	108.47	130.88	255.79 Ton/day
<b>Max</b>	226.88	159.87	67.50	1434.96	1330.35	820.87	895.39	2115.29	2203.34	345.76	812.77	264.11	2203.34 Ton/day
<b>Min</b>	23.60	6.91	9.79	20.43	159.87	61.30	56.82	294.74	64.37	30.24	10.67	28.86	6.91 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Klong Phangnga at Ban Bang Tong , Phangnga (X.245)

Lat 08 - 30 - 48 N Long 98 - 30 - 13 E

Location : on right bank at Ban Bang Tong.

	<b>Ban</b>	<b>Bang Tong</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phangnga</b>
<b>Drainage Area</b>	245	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.DH - 48					
<b>Period of Available Records</b>	2005 - Cont'd					
<b>Actual Measurement</b>	2005 - Cont' d					
<b>Using Rating Curve Water Year</b>	2021					
<b>Number of observation</b>	10					
<b>R-Square</b>	0.8036					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 7.4201 QW^{0.89660}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.18	62.66	104.96	76.54	407.64	137.74	179.81	150.97	116.65	50.02	26.87	25.14	
2	73.48	68.87	90.13	75.01	315.82	170.57	156.60	135.84	118.58	48.41	25.14	23.40	
3	56.38	91.62	79.58	70.41	387.46	145.32	143.43	126.29	103.00	46.80	26.87	21.64	
4	36.99	76.54	82.61	67.32	428.12	128.21	132.03	137.74	96.09	46.80	35.33	45.18	
5	28.58	59.53	122.44	65.77	359.52	118.58	130.12	133.94	90.13	46.80	28.58	76.54	
6	23.40	50.02	93.12	130.12	349.30	108.87	258.20	132.03	87.13	45.18	25.14	65.77	
7	48.41	45.18	99.06	172.89	392.94	103.00	289.80	137.74	84.12	43.56	33.66	61.10	
8	53.21	40.29	90.13	204.50	271.42	110.82	349.30	132.03	81.10	56.38	67.32	45.18	
9	46.80	40.29	93.12	392.94	220.76	354.41	321.00	118.58	79.58	43.56	35.33	43.56	
10	41.93	35.33	389.99	486.03	228.85	274.05	260.85	108.87	76.54	40.29	41.93	35.33	
11	48.41	36.99	175.20	377.33	321.00	190.83	263.50	108.87	75.01	40.29	30.28	30.28	
12	64.22	33.66	156.60	247.57	328.74	154.73	614.41	106.92	73.48	40.29	28.58	28.58	
13	48.41	38.65	139.64	182.57	255.55	147.21	465.86	106.92	71.95	38.65	33.66	28.58	
14	41.93	40.29	130.12	150.97	226.16	152.85	407.64	101.03	68.87	36.99	50.02	36.99	
15	50.02	46.80	108.87	242.24	255.55	154.73	300.24	103.00	67.32	35.33	56.38	26.87	
16	48.41	62.66	124.37	236.89	231.53	135.84	242.24	106.92	67.32	35.33	50.02	23.40	
17	51.62	53.21	104.96	150.97	199.04	122.44	204.50	104.96	65.77	35.33	35.33	21.64	
18	45.18	46.80	91.62	130.12	165.93	118.58	182.57	172.89	68.87	33.66	31.98	41.93	
19	64.22	48.41	84.12	114.71	196.31	120.52	172.89	204.50	64.22	33.66	28.58	57.96	
20	82.61	40.29	79.58	106.92	209.94	150.97	158.94	152.85	62.66	33.66	26.87	35.33	
21	59.53	61.10	76.54	99.06	185.33	362.07	141.54	135.84	61.10	33.66	25.14	40.29	
22	48.41	103.00	73.48	93.12	193.57	308.04	150.97	126.29	61.10	33.66	26.87	40.29	
23	43.56	128.21	106.92	88.63	185.33	196.31	143.43	114.71	59.53	31.98	33.66	35.33	
24	48.41	99.06	97.58	85.63	201.77	158.94	143.43	104.96	59.53	31.98	33.66	46.80	
25	41.93	103.00	147.21	82.61	236.89	170.57	139.64	101.03	57.96	31.98	26.87	56.38	
26	76.54	145.32	130.12	79.58	359.52	392.94	128.21	114.71	62.66	30.28	30.28	67.32	
27	91.62	271.42	112.77	76.54	236.89	292.41	133.94	104.96	56.38	28.58	35.33	54.80	
28	76.54	218.06	97.58	99.06	190.83	226.16	130.12	94.61	54.80	28.58	26.87	56.38	
29	70.41	199.04	88.63	276.68	182.57	271.42	120.52	108.87	53.21	26.87		82.61	
30	71.95	154.73	81.10	436.86	168.25	244.91	260.85	152.85	51.62	26.87		75.01	
31		120.52		297.63	147.21		244.91		50.02	26.87		70.41	
<b>Total</b>	1628.29	2621.55	3452.15	5397.22	8039.74	5724.04	6971.49	3741.72	2246.30	1162.30	956.55	1400.02	43341.37 Tonday
<b>Mean</b>	54.28	84.57	115.07	174.10	259.35	190.80	224.89	124.72	72.46	37.49	34.16	45.16	118.74 Ton/day
<b>Max</b>	91.62	271.42	389.99	486.03	428.12	392.94	614.41	204.50	118.58	56.38	67.32	82.61	614.41 Ton/day
<b>Min</b>	23.40	33.66	73.48	65.77	147.21	103.00	120.52	94.61	50.02	26.87	25.14	21.64	21.64 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Khlung Tha Prae at Ban Karakat , Satun (X.261)

Lat 06 - 50 - 18 N Long 100 - 04 - 10 E

Location : on right bank at Ban Karakat.

	Ban Karakat	Amphoe Khuan Kalong	Changwat Satun
<b>Drainage Area</b>	79 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2007-Cont'd		
<b>Actual Measurement</b>	2007-Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	12		
<b>R-Square</b>	0.8233		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.6036 QW^{1.39410}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.42	4.42	5.26	5.26	13.27	12.17	16.75	341.48	18.58	14.41	3.24	15.57	
2	4.42	4.42	6.15	6.15	13.27	12.17	21.09	71.11	45.62	14.41	5.70	25.02	
3	4.42	4.84	8.02	8.02	13.27	12.17	23.69	37.87	14.98	14.41	7.54	11.09	
4	4.42	5.26	9.52	9.52	13.27	12.72	25.02	37.87	14.98	13.84	11.62	11.09	
5	4.42	6.15	11.62	11.62	13.27	12.72	25.02	37.87	14.98	10.03	14.41	14.41	
6	4.42	7.07	11.62	11.62	13.27	12.72	25.02	42.47	14.41	9.01	15.57	12.72	
7	4.42	8.02	11.62	11.62	12.72	12.72	26.37	47.21	14.41	9.01	19.82	11.09	
8	4.42	8.51	11.62	11.62	12.72	12.72	26.37	37.87	14.41	7.54	22.38	11.09	
9	4.42	9.01	11.62	11.62	12.72	13.27	26.37	37.87	14.41	6.15	10.03	11.09	
10	4.42	9.52	11.62	11.62	12.72	13.27	26.37	37.87	14.41	4.84	10.03	11.09	
11	4.42	10.03	11.62	11.62	12.72	13.84	26.37	37.87	14.41	4.02	10.03	11.09	
12	4.42	10.56	11.62	11.62	12.72	14.98	27.74	85.93	14.41	4.02	10.03	11.09	
13	4.42	11.62	11.62	11.62	12.72	14.98	27.74	71.11	14.41	3.24	10.03	11.09	
14	4.42	11.09	11.62	11.62	12.72	16.16	29.13	44.03	14.41	3.24	10.03	11.09	
15	4.42	10.56	11.62	11.62	12.72	16.16	29.13	42.47	14.41	3.24	10.03	11.09	
16	4.42	10.03	12.17	12.17	12.72	16.75	30.54	42.47	14.41	3.24	10.03	11.09	
17	4.42	10.03	12.17	12.17	12.72	16.75	30.54	144.58	14.41	3.24	53.76	11.09	
18	4.42	11.09	12.17	12.17	12.72	16.75	30.54	733.08	14.41	2.87	10.56	11.09	
19	4.42	11.62	12.72	12.72	12.72	16.75	30.54	371.33	14.41	2.87	10.56	11.09	
20	4.42	12.17	12.72	12.72	12.72	16.75	30.54	483.43	14.41	2.87	10.56	16.16	
21	4.42	14.41	12.72	12.72	12.72	16.75	30.54	136.93	14.41	2.87	10.56	11.62	
22	4.42	16.16	13.27	13.27	12.72	16.75	30.54	69.31	14.41	2.87	10.56	11.09	
23	4.42	14.98	13.27	13.27	12.72	16.75	30.54	53.76	14.41	2.87	10.56	11.09	
24	4.42	14.41	13.27	13.27	12.17	16.75	30.54	72.92	14.41	2.87	10.56	11.09	
25	4.42	13.84	13.27	13.27	12.17	16.75	30.54	44.03	14.41	2.87	10.56	31.97	
26	4.42	13.27	13.27	13.27	12.17	16.75	30.54	44.03	14.41	2.87	58.82	11.62	
27	4.42	13.27	13.27	13.27	12.17	16.75	30.54	44.03	14.41	2.87	17.36	8.51	
28	4.42	13.27	13.27	13.27	12.17	16.75	30.54	82.15	14.41	2.87	10.56	8.51	
29	4.42	13.27	13.27	13.27	12.17	16.75	30.54	144.58	14.41	2.87		8.51	
30	4.42	13.27	13.27	13.27	12.17	16.75	30.54	57.12	14.41	2.87		8.51	
31		13.27		13.27	12.17		30.54		14.41	2.87		8.51	
<b>Total</b>	132.60	329.44	350.87	364.14	393.22	454.02	870.82	3534.65	483.80	168.07	405.50	381.26	7868.39 Tonday
<b>Mean</b>	4.42	10.63	11.70	11.75	12.68	15.13	28.09	117.82	15.61	5.42	14.48	12.30	21.56 Ton/day
<b>Max</b>	4.42	16.16	13.27	13.27	13.27	16.75	30.54	733.08	45.62	14.41	58.82	31.97	733.08 Ton/day
<b>Min</b>	4.42	4.42	5.26	5.26	12.17	12.17	16.75	37.87	14.41	2.87	3.24	8.51	2.87 Ton/day

**WATER YEAR : 2021**  
**SOUTHERN PENINSULA WEST COAST**  
**Khlong Duson at Ban Panjor , Satun (X.279)**

Lat 06 - 46 - 39 N Long 100 - 04 - 17 E

Location : on right bank at Ban Panjor.

	<b>Ban Panjor</b>	<b>Amphoe Khuan Don</b>	<b>Changwat Satun</b>
<b>Drainage Area</b>	232 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	2013 - Cont'd		
<b>Actual Measurement</b>	2013 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	10		
<b>R-Square</b>	0.7528		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.6456 QW^{1.19400}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.40	32.70	32.70	14.40	116.87	51.72	144.90	303.63	153.25	54.55	15.06	35.33	
2	11.83	22.37	68.03	13.75	95.43	40.68	87.71	104.37	189.86	103.25	13.75	40.68	
3	11.20	19.37	55.49	13.10	60.27	48.92	61.23	70.99	134.28	85.53	18.63	26.22	
4	11.20	19.37	66.08	13.10	46.14	36.21	51.72	57.39	107.76	48.92	15.06	22.37	
5	13.10	27.00	52.66	11.83	36.21	30.17	57.39	61.23	94.32	41.58	14.40	20.11	
6	10.58	23.90	85.53	24.67	30.17	27.00	104.37	51.72	80.10	37.99	14.40	28.58	
7	47.07	37.10	86.62	80.10	25.44	25.44	314.38	82.26	71.97	35.33	12.46	72.97	
8	20.86	26.22	58.35	37.10	22.37	23.90	282.33	53.60	66.08	33.57	12.46	37.10	
9	17.16	20.86	40.68	47.07	20.86	136.63	160.80	53.60	59.31	31.83	12.46	30.97	
10	12.46	18.63	32.70	271.77	21.61	228.52	111.16	59.31	55.49	30.17	11.83	23.90	
11	10.58	17.16	30.17	137.80	24.67	126.11	74.95	50.78	52.66	28.58	11.20	20.11	
12	11.83	46.14	27.00	72.97	26.22	66.08	53.60	131.93	46.14	23.13	12.46	17.89	
13	22.37	71.97	24.67	45.23	27.79	63.16	46.14	136.63	40.68	23.13	10.58	16.44	
14	46.14	37.10	22.37	35.33	28.58	103.25	40.68	118.02	41.58	23.90	10.58	18.63	
15	30.17	36.21	20.86	35.33	24.67	89.90	37.10	99.88	46.14	23.90	13.10	40.68	
16	28.58	55.49	20.11	28.58	22.37	58.35	34.45	108.89	43.40	23.13	22.37	24.67	
17	20.86	59.31	18.63	24.67	33.57	50.78	33.57	120.32	47.99	21.61	71.97	19.37	
18	33.57	34.45	17.16	21.61	118.02	72.97	36.21	741.91	49.85	19.37	34.45	17.16	
19	18.63	27.79	15.72	19.37	129.60	142.53	34.45	595.78	45.23	18.63	20.11	17.16	
20	19.37	29.37	15.06	17.16	99.88	189.86	89.90	563.05	41.58	20.11	15.72	20.86	
21	25.44	82.26	22.37	15.72	83.35	154.45	47.99	341.05	38.88	19.37	22.37	21.61	
22	21.61	228.52	21.61	15.06	61.23	144.90	71.97	250.86	38.88	19.37	15.72	18.63	
23	33.57	134.28	18.63	15.06	48.92	115.73	91.00	138.98	37.10	17.89	13.10	18.63	
24	61.23	66.08	17.16	14.40	41.58	73.96	137.80	266.52	38.88	16.44	13.75	21.61	
25	36.21	44.31	15.06	13.75	51.72	52.66	179.16	154.45	36.21	15.72	20.86	32.70	
26	27.79	37.10	15.72	13.10	70.99	57.39	71.97	113.44	33.57	15.06	92.11	124.95	
27	23.90	40.68	15.72	11.83	63.16	54.55	82.26	99.88	31.83	15.06	170.42	70.99	
28	20.86	70.99	15.72	11.83	40.68	72.97	120.32	138.98	30.97	14.40	59.31	36.21	
29	27.00	45.23	21.61	13.10	32.70	115.73	65.10	278.80	30.97	14.40		29.37	
30	41.58	32.70	17.89	23.13	44.31	424.46	73.96	153.25	56.44	15.06		23.90	
31		29.37		47.07	88.81		257.80		41.58	20.11		23.13	
Total	731.15	1474.03	972.08	1158.99	1638.19	2878.98	3056.37	5501.50	1882.98	911.09	770.69	972.93	21948.98 Tonday
Mean	24.37	47.55	32.40	37.39	52.84	95.97	98.59	183.38	60.74	29.39	27.52	31.38	60.13 Ton/day
Max	61.23	228.52	86.62	271.77	129.60	424.46	314.38	741.91	189.86	103.25	170.42	124.95	741.91 Ton/day
Min	10.58	17.16	15.06	11.83	20.86	23.90	33.57	50.78	30.97	14.40	10.58	16.44	10.58 Ton/day

## WATER YEAR : 2021

## SOUTHERN PENINSULA WEST COAST

## Klong Rong Hut at Ban Jed Tho , Ranong (X.290A)

Lat 09 - 58 - 10 N Long 98 - 38 - 46 E

Location : on left bank at the bridge.

	<b>Ban Jed Tho</b>	<b>Amphoe Mueang</b>	<b>Changwat Ranong</b>
<b>Drainage Area</b>	15 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	2021 - Cont'd		
<b>Actual Measurement</b>	2021 - Cont'd		
<b>Using Rating Curve Water Year</b>	2021		
<b>Number of observation</b>	11		
<b>R-Square</b>	0.7873		
<b>Remarks</b>	Continued Sediment Station		

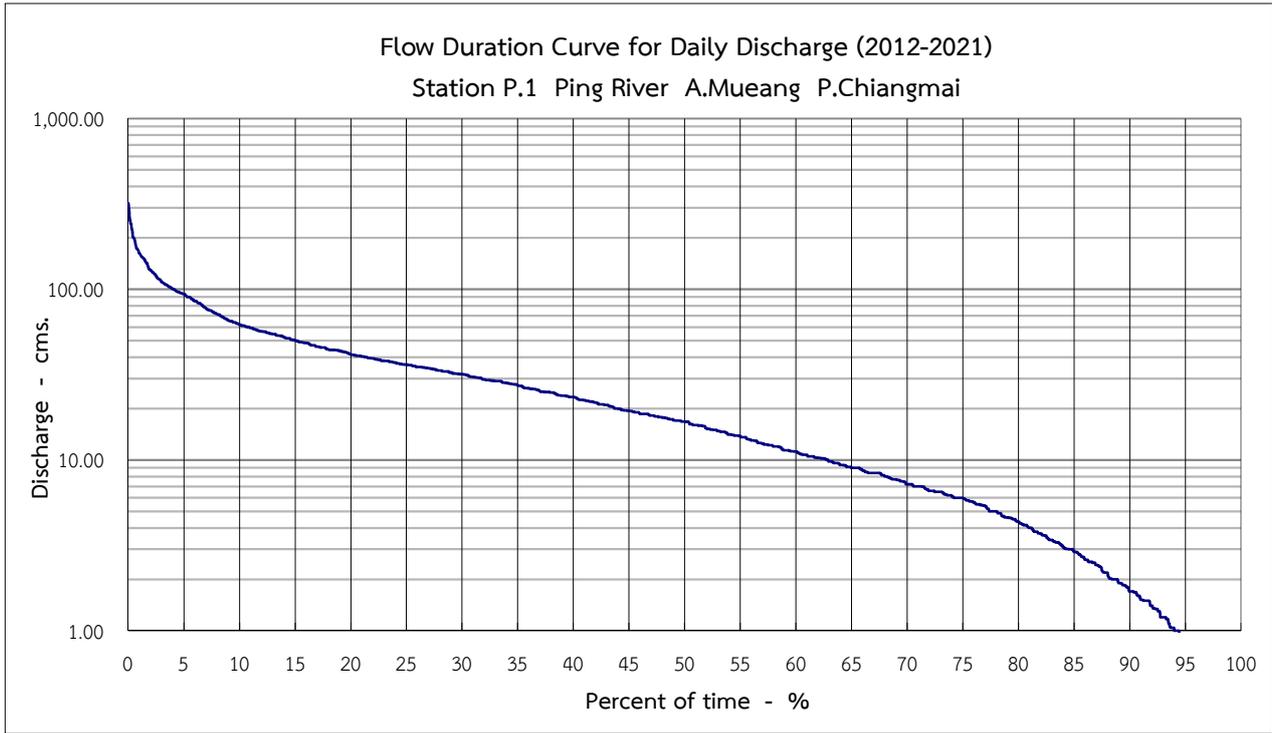
$$QS = 4.7698 QW^{1.33620}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2021 to 31 March 2022

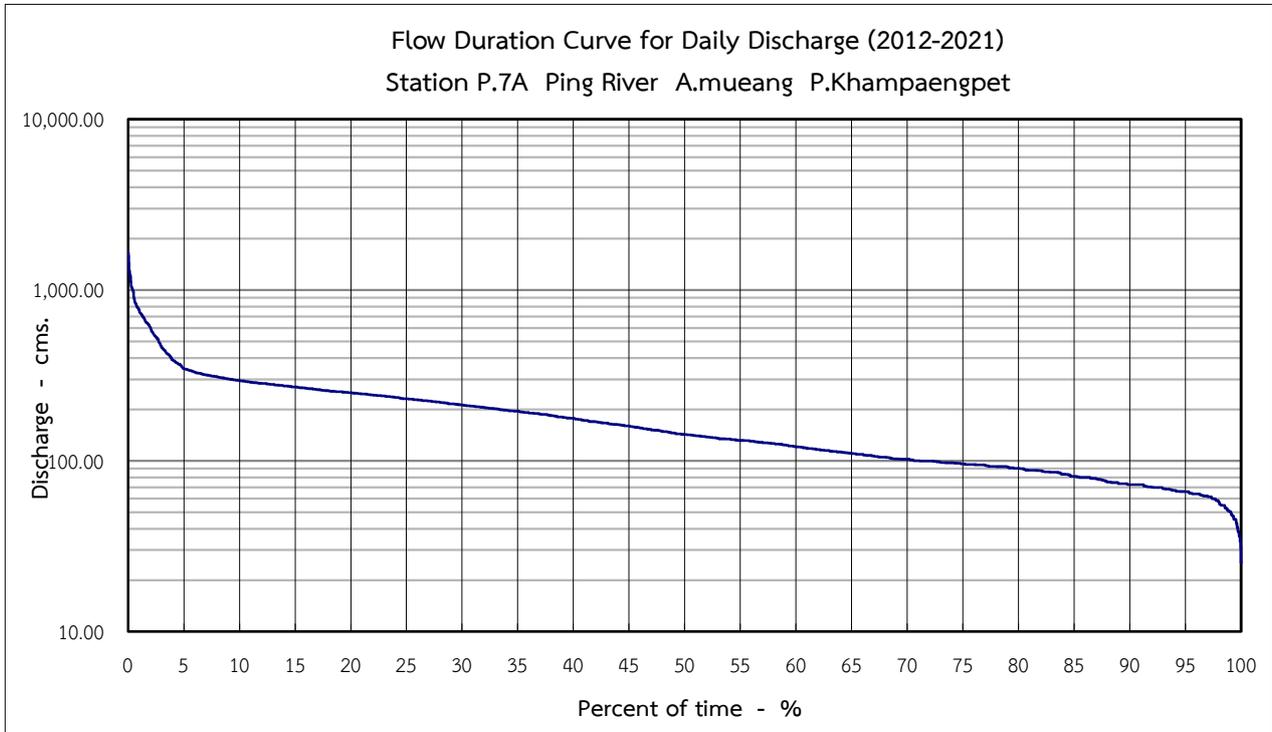
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	15.19	32.25	21.63	14.18	146.42	2.63	0.71	0.00	
2	0.00	0.00	0.00	0.00	30.41	26.81	20.52	14.18	122.66	2.20	0.41	0.00	
3	0.00	0.00	0.00	0.00	68.30	20.52	18.34	15.19	84.43	2.63	0.41	0.00	
4	0.00	0.00	0.00	0.00	95.64	18.34	17.28	16.23	58.41	2.20	0.16	0.00	
5	0.00	0.00	0.00	0.00	78.96	15.19	17.28	17.28	45.86	2.20	0.16	0.00	
6	0.00	0.00	0.00	0.00	56.27	14.18	76.26	18.34	28.59	2.20	0.16	0.00	
7	0.00	0.00	1.79	11.25	37.93	12.20	129.34	17.28	20.52	1.79	0.16	0.00	
8	0.00	0.00	2.63	56.27	23.32	11.25	203.29	16.23	17.28	1.79	0.00	0.00	
9	0.00	0.00	0.00	49.96	20.52	11.25	116.07	15.19	15.19	1.40	0.00	0.00	
10	0.00	0.00	28.59	39.88	16.23	63.13	78.96	14.18	13.18	1.40	0.00	0.00	
11	0.00	0.00	4.90	41.85	18.34	73.58	58.41	14.18	12.20	1.40	0.00	0.00	
12	0.00	0.00	2.63	37.93	30.41	63.13	43.84	26.81	12.20	1.04	0.00	0.00	
13	0.00	0.00	2.20	21.63	32.25	52.04	32.25	49.96	11.25	1.04	0.00	0.00	
14	0.00	0.00	0.41	47.90	26.81	45.86	28.59	87.20	10.38	1.04	0.00	0.00	
15	0.00	0.00	0.00	41.85	23.32	43.84	25.05	98.50	10.38	1.04	0.00	0.00	
16	0.00	0.00	0.00	23.32	20.52	36.01	23.32	84.43	9.54	1.04	0.00	0.00	
17	0.00	0.00	0.00	41.85	19.42	30.41	20.52	76.26	8.71	0.71	0.00	0.00	
18	0.00	0.00	0.00	65.70	18.34	28.59	19.42	65.70	7.91	0.71	0.00	0.00	
19	0.00	0.00	0.00	47.90	17.28	47.90	19.42	54.14	6.36	0.71	0.00	0.00	
20	0.00	0.16	0.00	26.81	16.23	58.41	18.34	47.90	5.62	0.71	0.00	0.00	
21	0.00	1.04	14.18	19.42	16.23	45.86	17.28	43.84	4.21	0.71	0.00	11.25	
22	0.00	0.00	9.54	18.34	16.23	32.25	17.28	39.88	4.21	0.71	0.00	0.71	
23	0.00	0.00	5.62	15.19	15.19	28.59	16.23	34.12	4.21	0.71	0.00	0.00	
24	0.00	1.40	3.54	10.38	36.01	26.81	16.23	32.25	3.54	0.71	0.00	0.00	
25	0.00	8.71	2.63	23.32	52.04	25.05	15.19	28.59	3.54	0.71	0.00	0.00	
26	0.00	9.54	2.63	25.05	60.58	23.32	14.18	28.59	3.08	0.71	0.00	0.00	
27	0.00	11.25	1.79	15.19	84.43	21.63	13.18	26.81	3.08	0.71	0.00	0.00	
28	0.00	2.63	1.40	17.28	58.41	25.05	12.20	21.63	2.63	0.71	0.00	0.00	
29	1.40	0.71	0.41	41.85	43.84	23.32	12.20	20.52	2.63	0.71		0.00	
30	0.00	0.00	0.00	25.05	39.88	21.63	12.20	28.59	2.63	0.71		0.00	
31		0.00		15.19	36.01		15.19		2.63	0.71		0.00	
Total	1.40	35.44	84.89	780.36	1124.54	978.40	1149.49	1068.18	683.48	37.69	2.17	11.96	5958.00 Ton/day
Mean	0.05	1.14	2.83	25.17	36.28	32.61	37.08	35.61	22.05	1.22	0.08	0.39	16.32 Ton/day
Max	1.40	11.25	28.59	65.70	95.64	73.58	203.29	98.50	146.42	2.63	0.71	11.25	203.29 Ton/day
Min	0.00	0.00	0.00	0.00	15.19	11.25	12.20	14.18	2.63	0.71	0.00	0.00	0.00 Ton/day

## Appendix

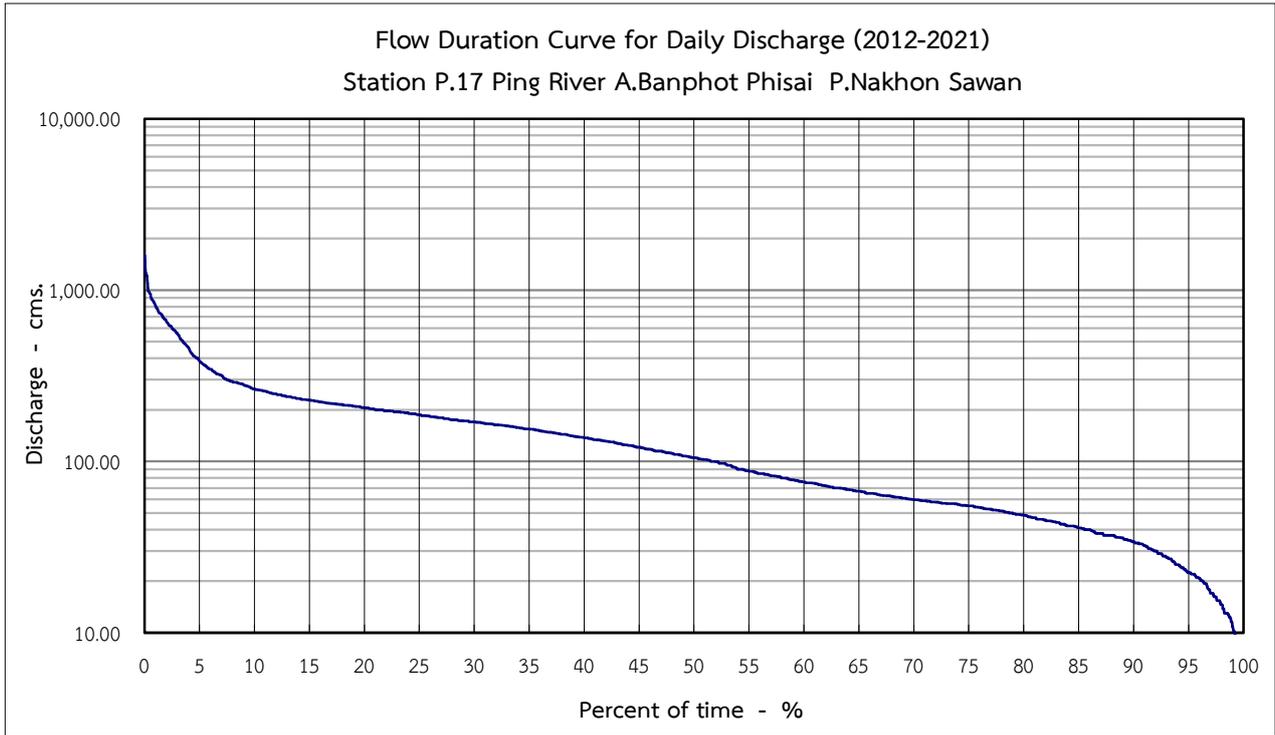
Flow Duration Curve for Daily Discharge  
(2012-2021)



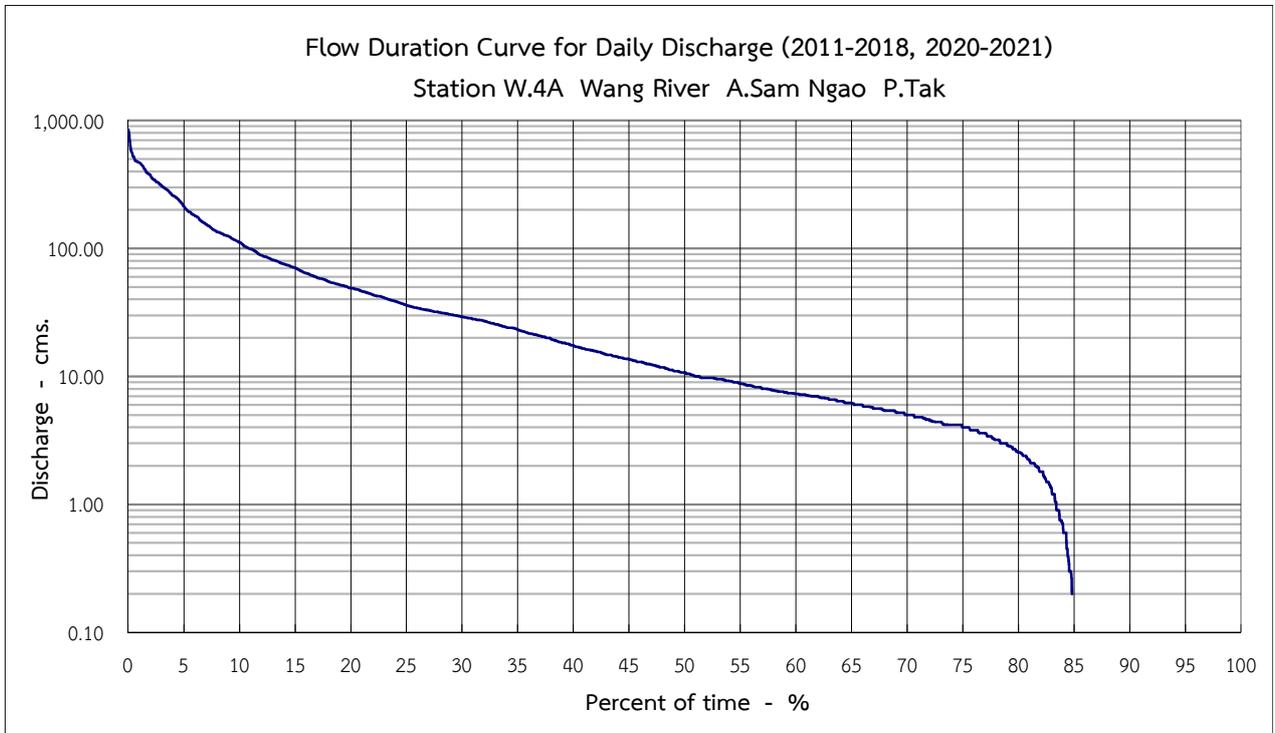
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	162.8	62.1	41.4	31.8	16.8	11.2	4.3	2.9	1.7	0.9	0.1



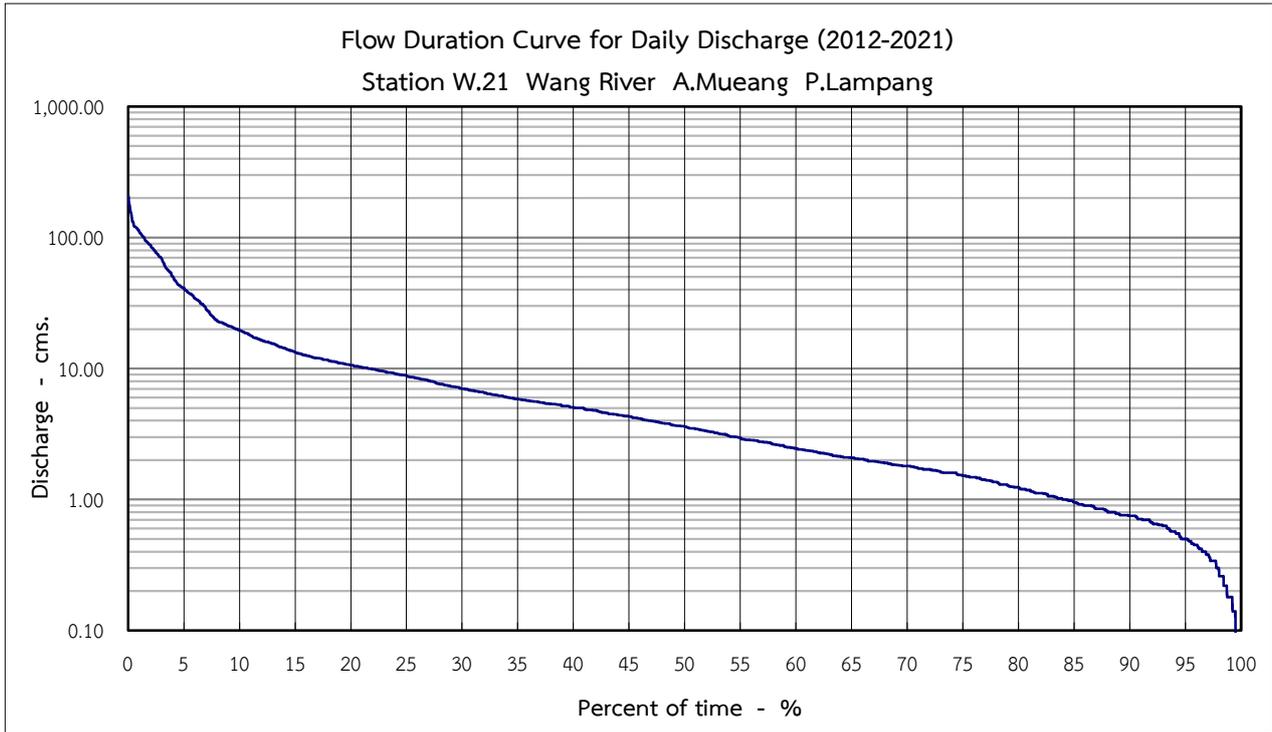
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	755.5	294.7	250.8	212.4	142.6	120.8	90.2	81.1	72.4	66.0	25.3



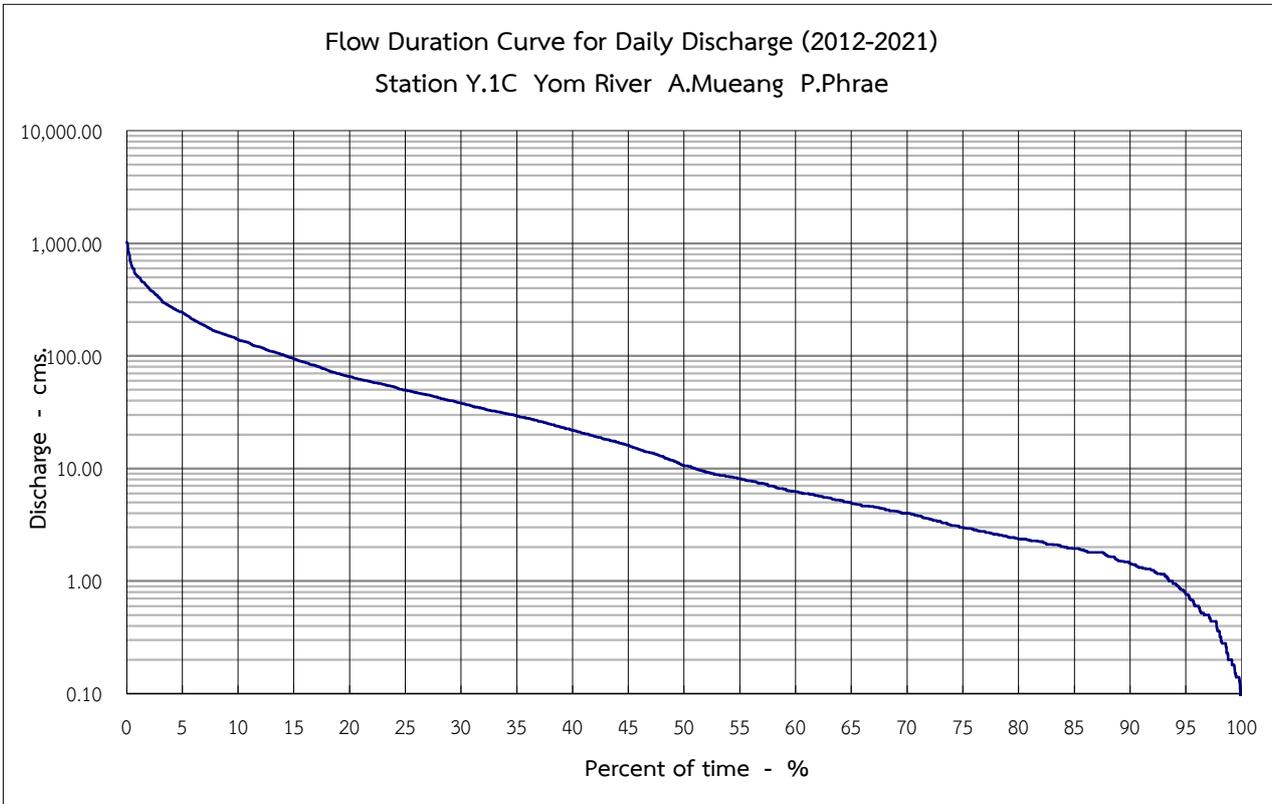
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	807.4	265.0	206.0	170.0	105.0	76.0	48.5	41.0	34.0	22.4	3.0



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	467.8	111.4	48.9	29.2	10.7	7.3	2.6	0.0	0.0	0.0	0.0

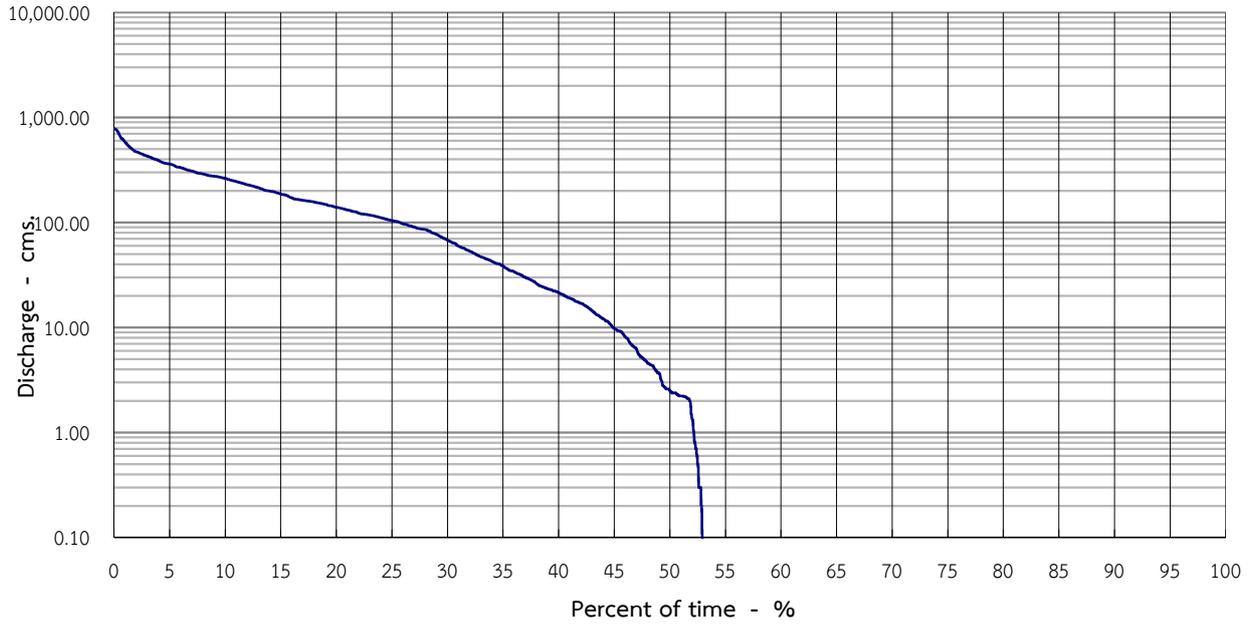


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	110.4	19.6	10.6	7.0	3.6	2.5	1.2	1.0	0.8	0.5	0.0



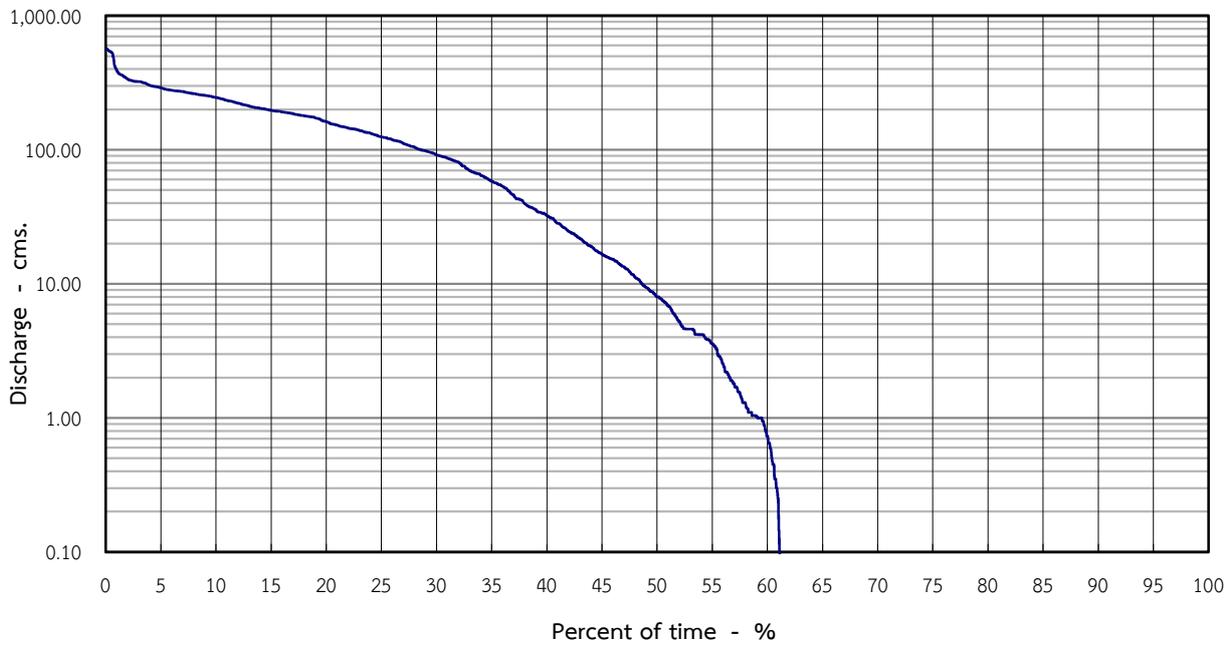
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	507.8	139.5	65.4	38.3	10.6	6.2	2.4	2.0	1.4	0.8	0.1

Flow Duration Curve for Daily Discharge (2012-2021)  
 Station Y.16 Yom River A.Bang Rakam P.Phitsanulok



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	582.5	263.0	139.6	67.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0

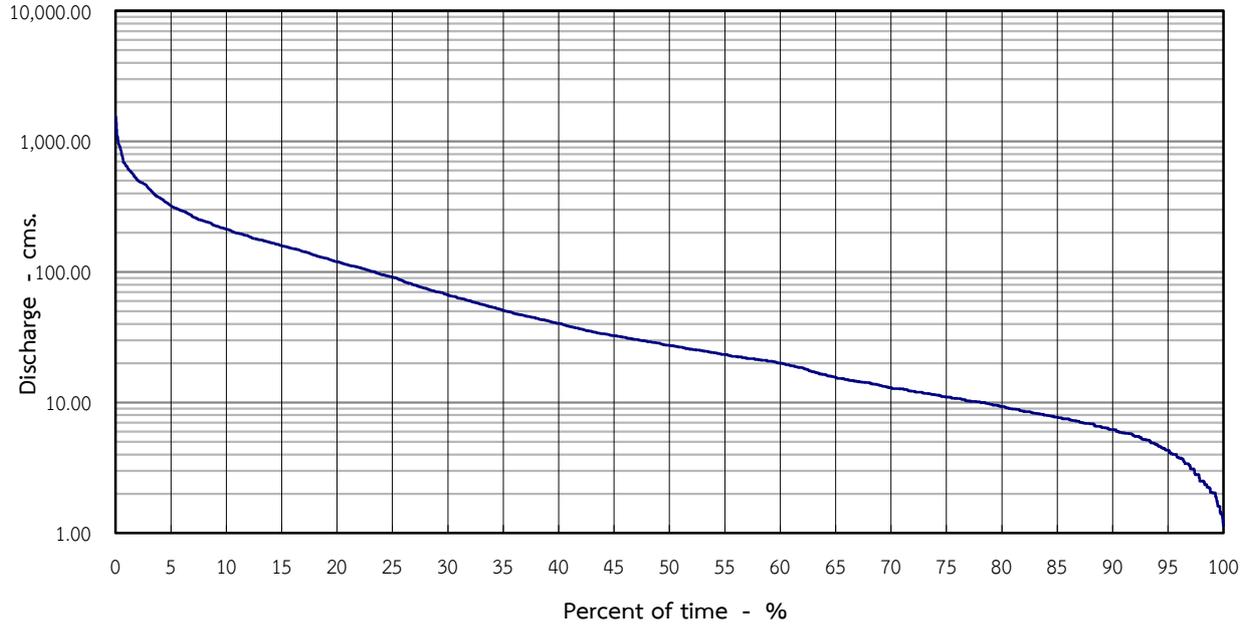
Flow Duration Curve for Daily Discharge (2012-2021)  
 Station Y.17 Yom River A.Sam Ngam P.Phichit



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	389.9	245.6	161.7	91.5	8.0	0.7	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2012-2021)

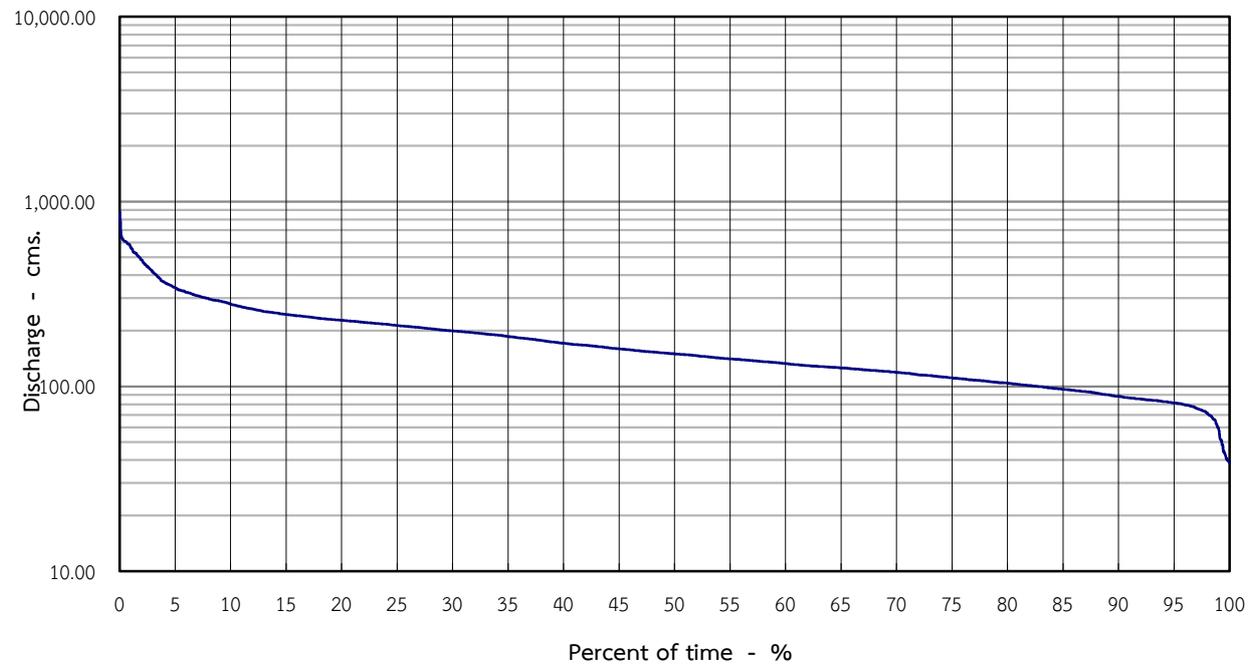
Station N.1 Nan River A.mueang P.Nan



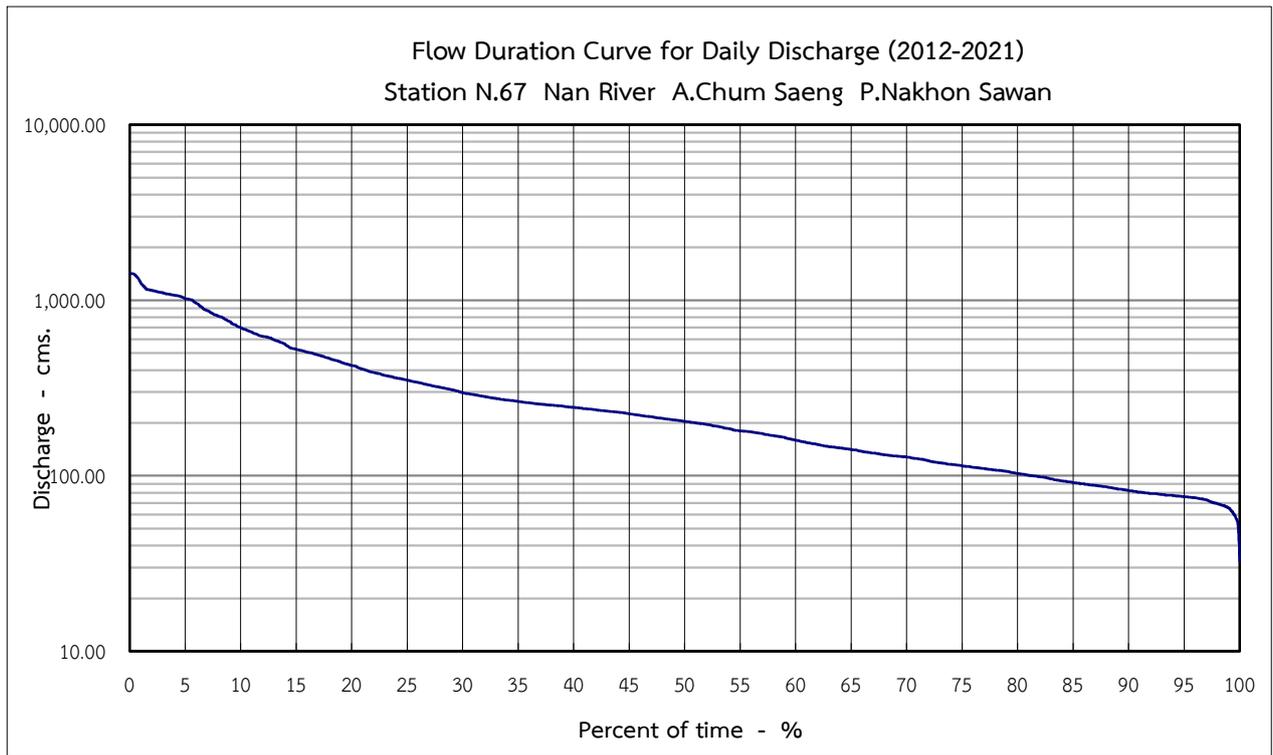
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	648.8	212.2	119.8	66.7	27.4	20.0	9.3	7.7	6.2	4.3	1.2

Flow Duration Curve for Daily Discharge (2012-2021)

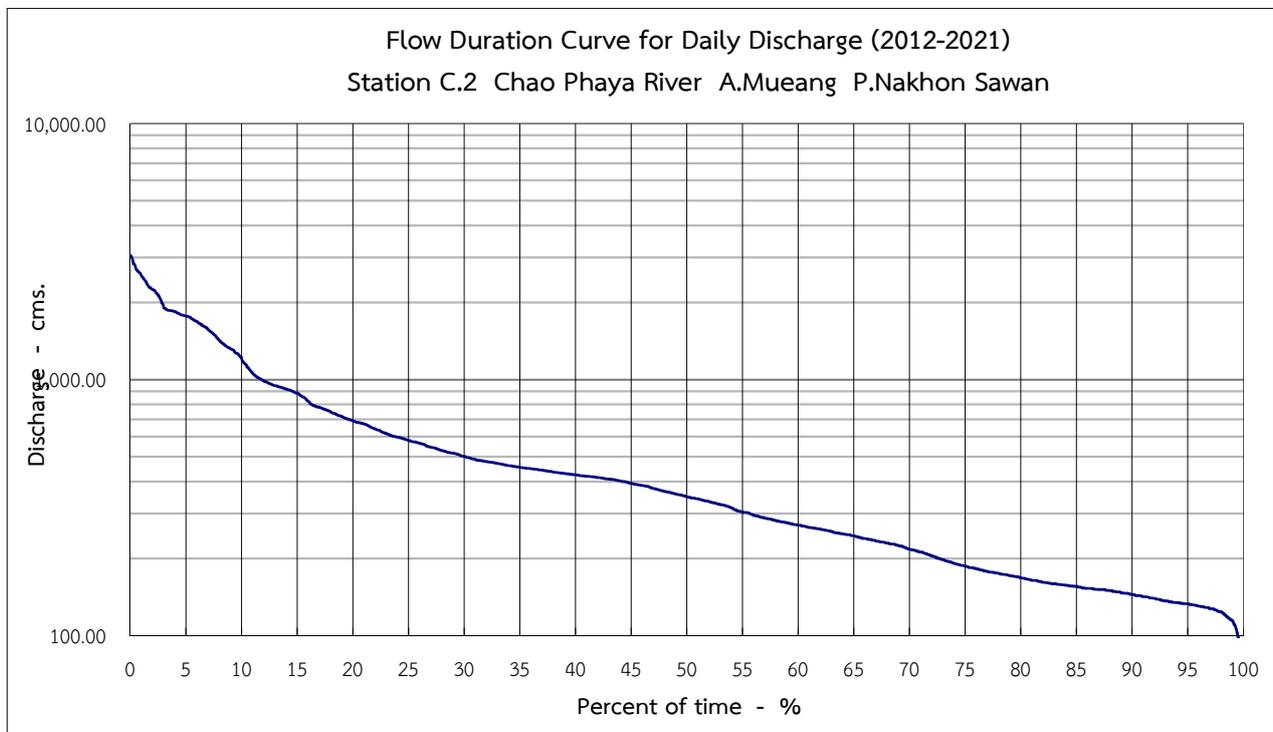
Station N.5A Nan River A.mueang P.Phitsanulok



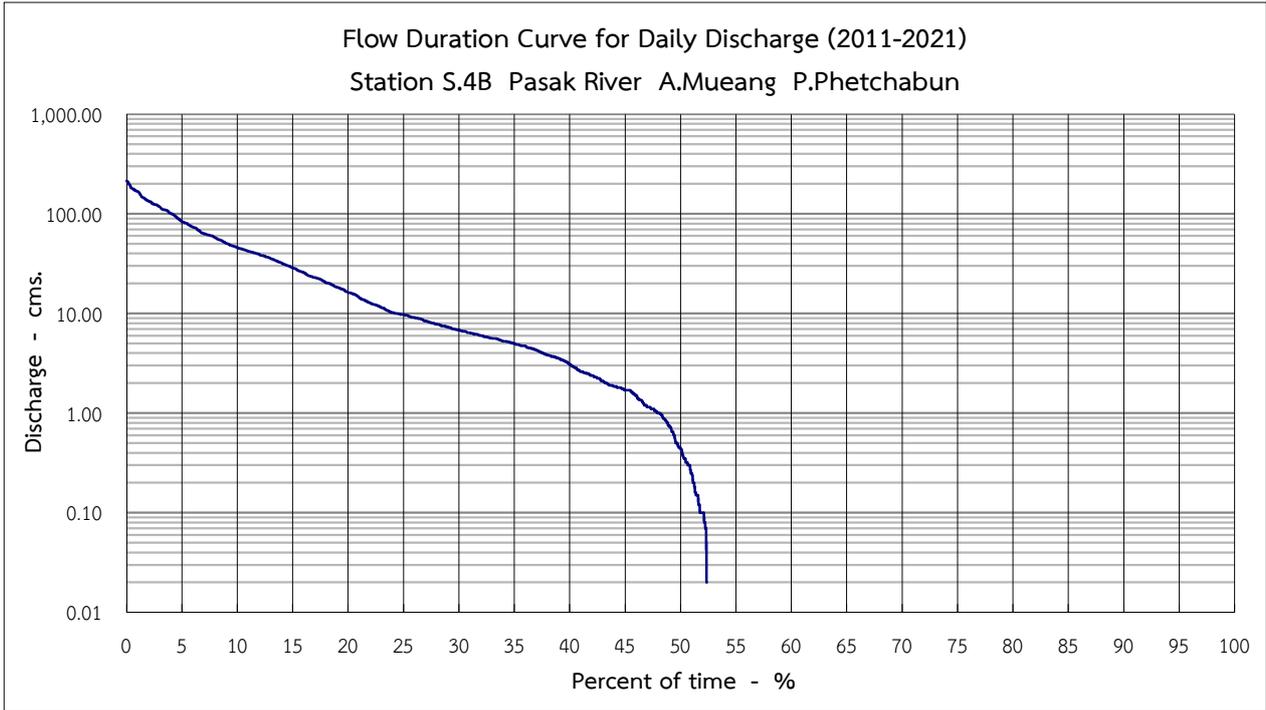
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	568.1	279.0	228.0	199.9	150.1	133.0	104.0	96.6	88.4	81.4	38.7



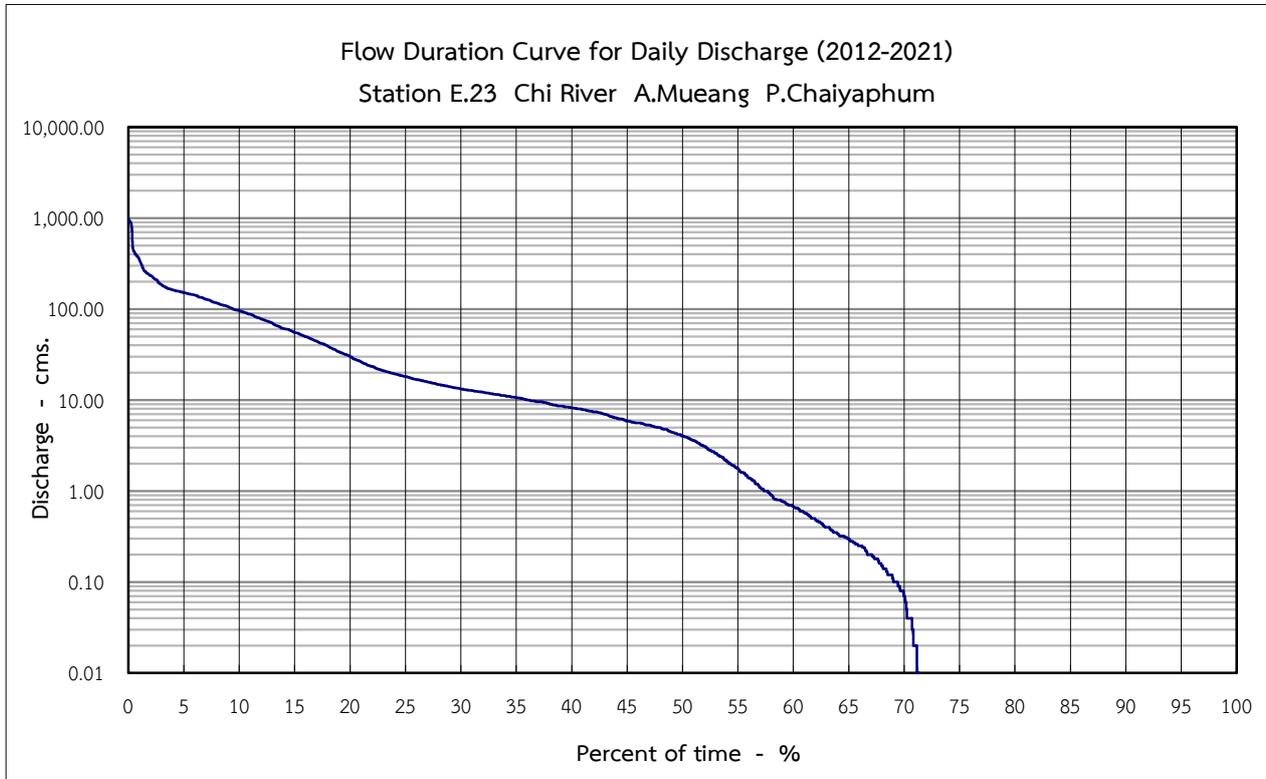
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,255.3	698.0	424.8	296.9	204.0	159.4	103.1	91.5	82.2	76.0	32.7



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	2,544.1	1,216.9	691.6	501.3	349.2	270.2	168.4	156.0	144.9	133.5	64.8

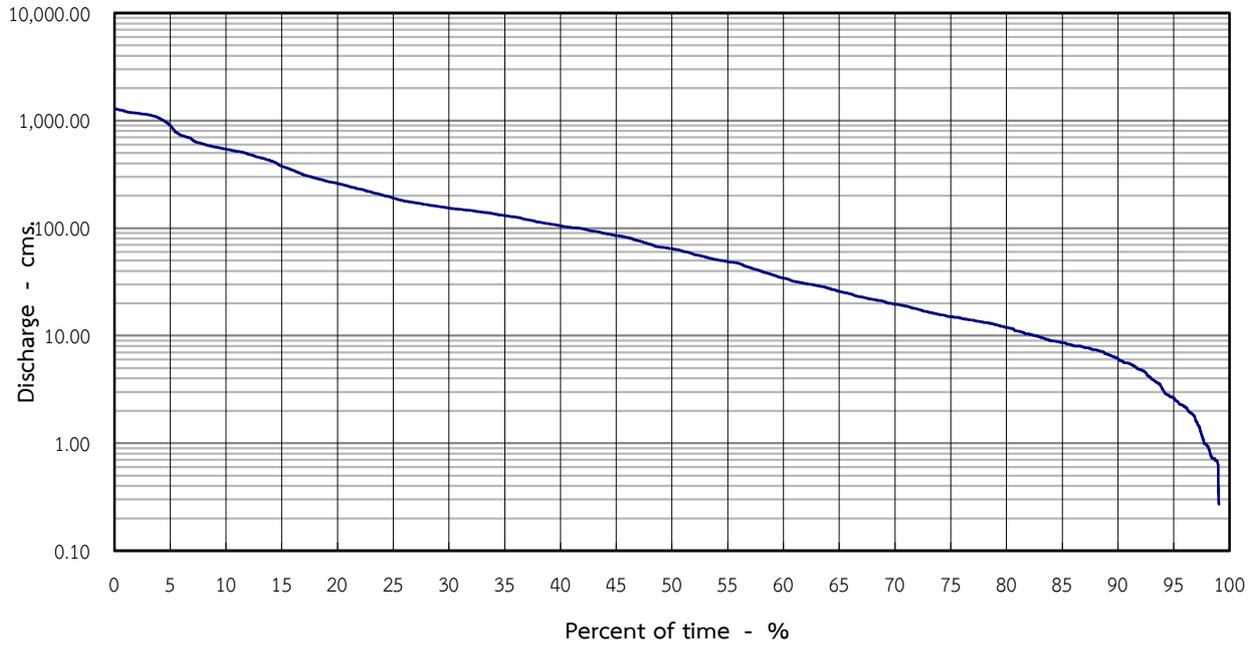


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	168.2	45.9	16.3	6.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0



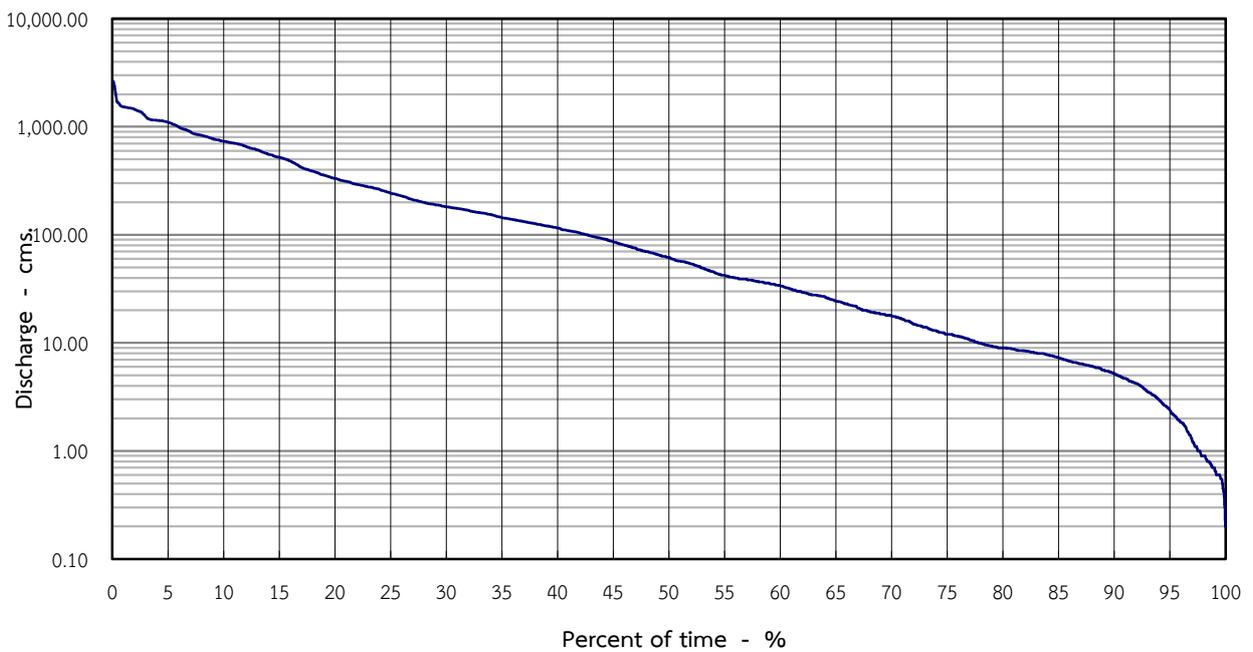
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	343.8	95.9	30.0	13.3	4.0	0.7	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2012-2021)  
E.18 Chi River K.A.Thung Khao Luang P.Roi Et



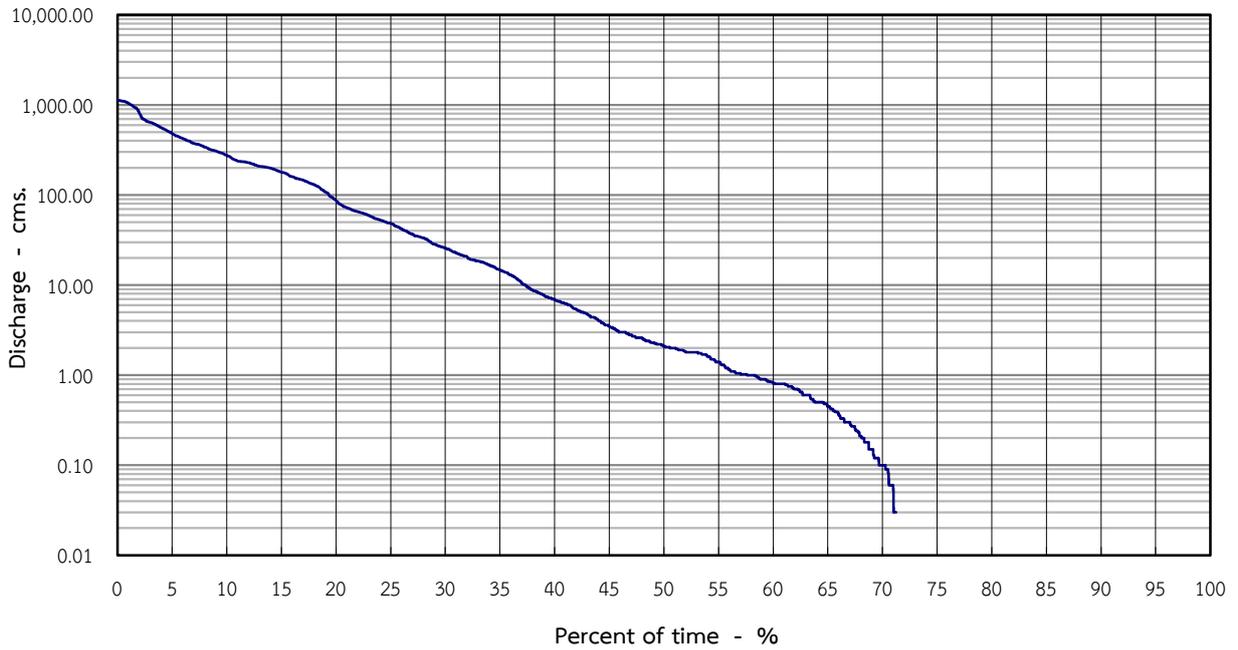
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,214.5	541.8	260.6	153.5	64.5	34.3	11.9	8.6	6.1	2.6	0.0

Flow Duration Curve for Daily Discharge (2012-2021)  
Station E.20A Chi River A.Maha Chana Chai P.Yasothon



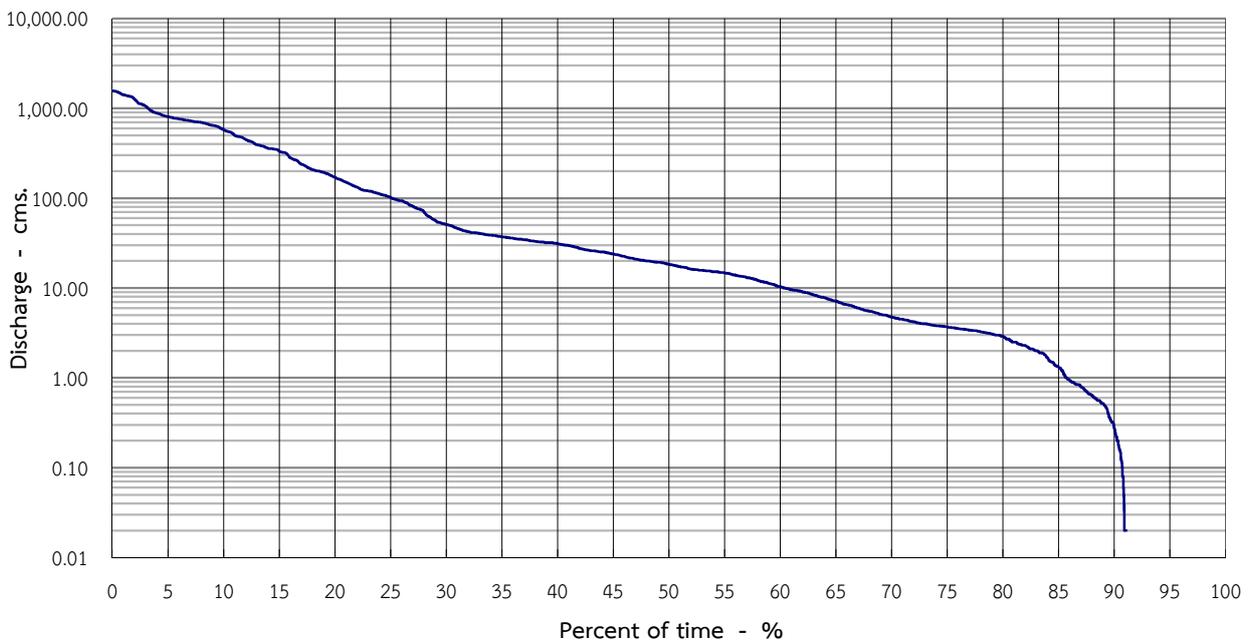
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,530.0	733.0	332.1	181.7	61.7	33.9	9.0	7.3	5.2	2.4	0.2

Flow Duration Curve for Daily Discharge (2012-2021)  
Station M.6A Mun River A.Satuk P.Buri Ram



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,049.4	277.3	86.7	25.8	2.1	0.8	0.0	0.0	0.0	0.0	0.0

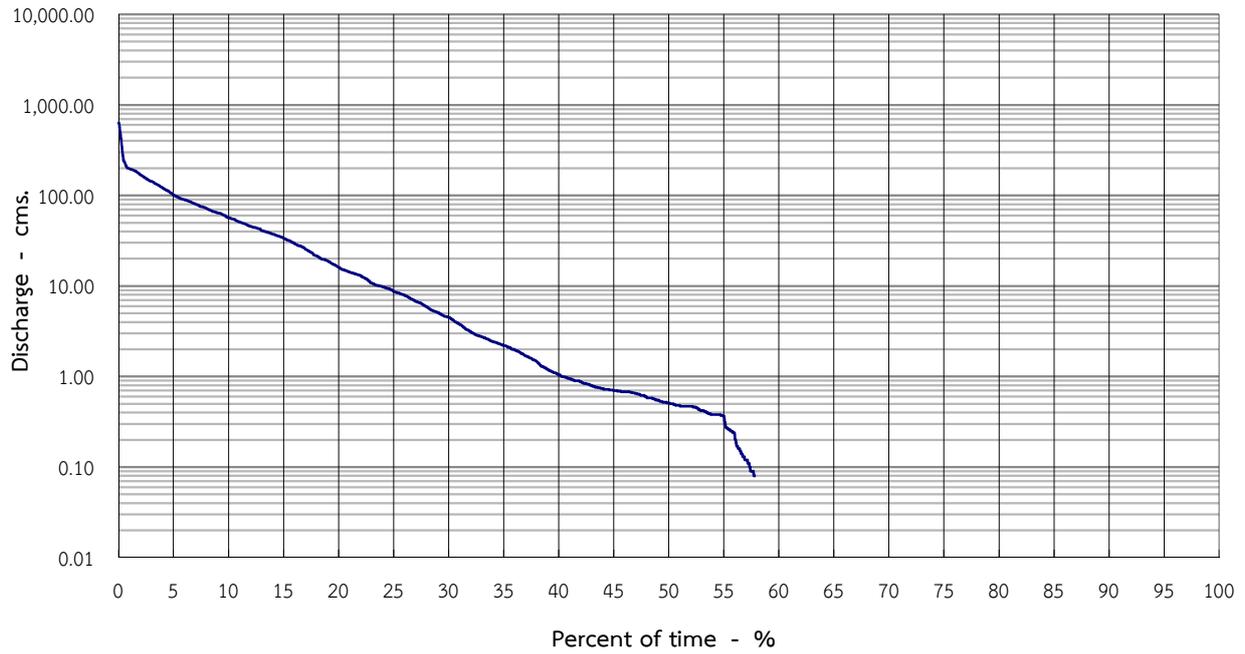
Flow Duration Curve for Daily Discharge (2012-2021)  
Station M.5 Mun River A.Rasi Salai P.Si Sa Ket



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,415.2	577.9	171.0	51.0	18.5	10.4	2.9	1.3	0.3	0.0	0.0

Flow Duration Curve for Daily Discharge (2012-2021)

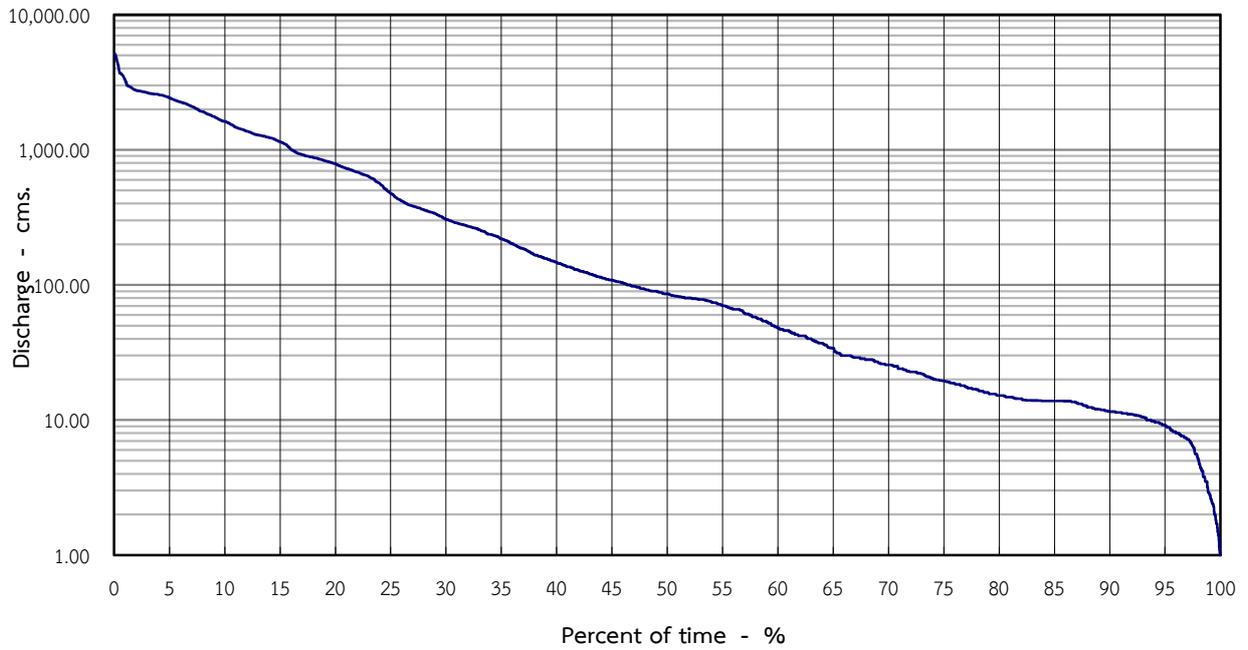
Station M.9 Huai Samran A.Mueang P.Si Sa Ket



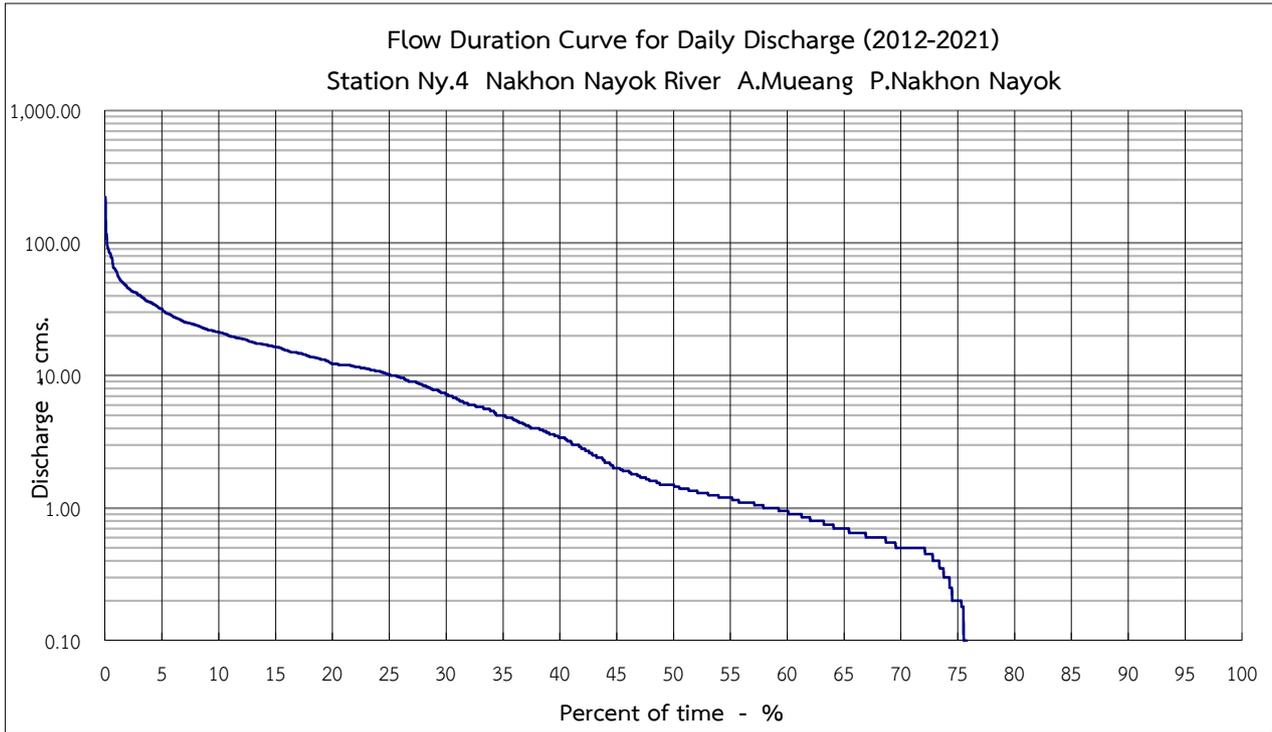
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	197.7	56.9	16.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2012-2021)

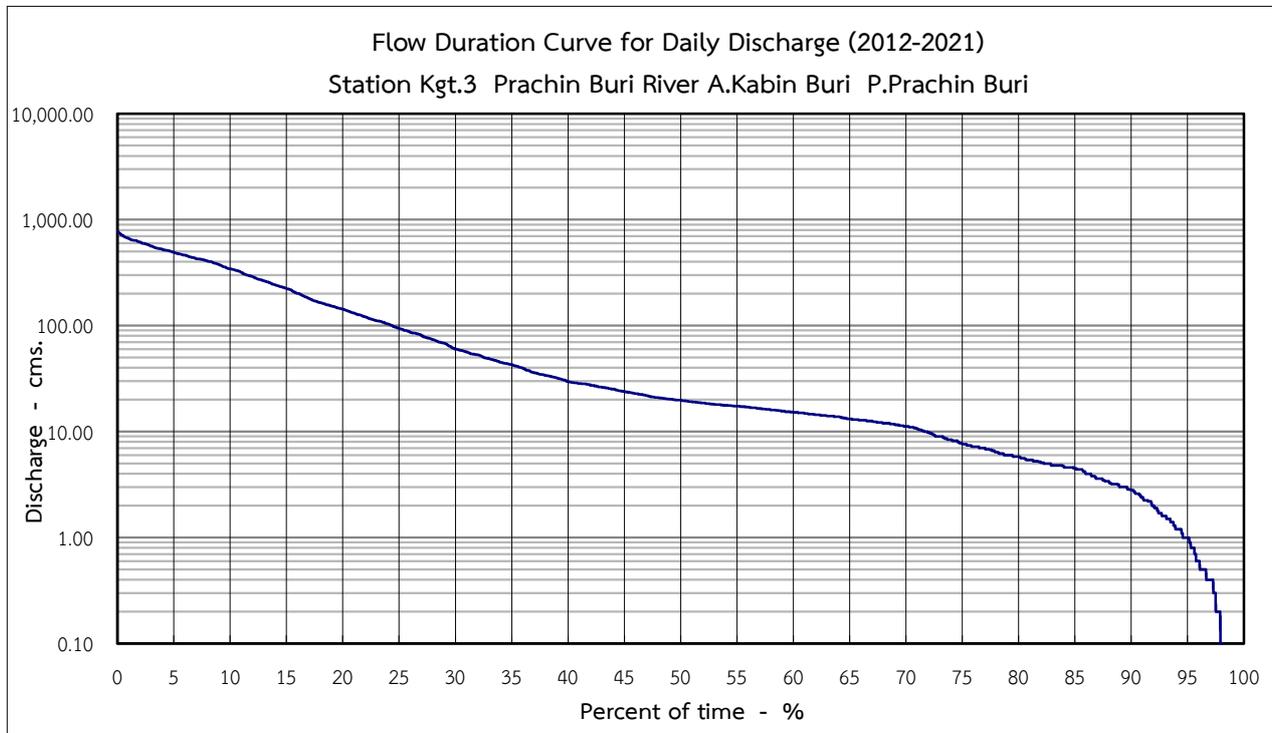
Station M.7 Mun River A.Mueang P.Ubon Ratchathani



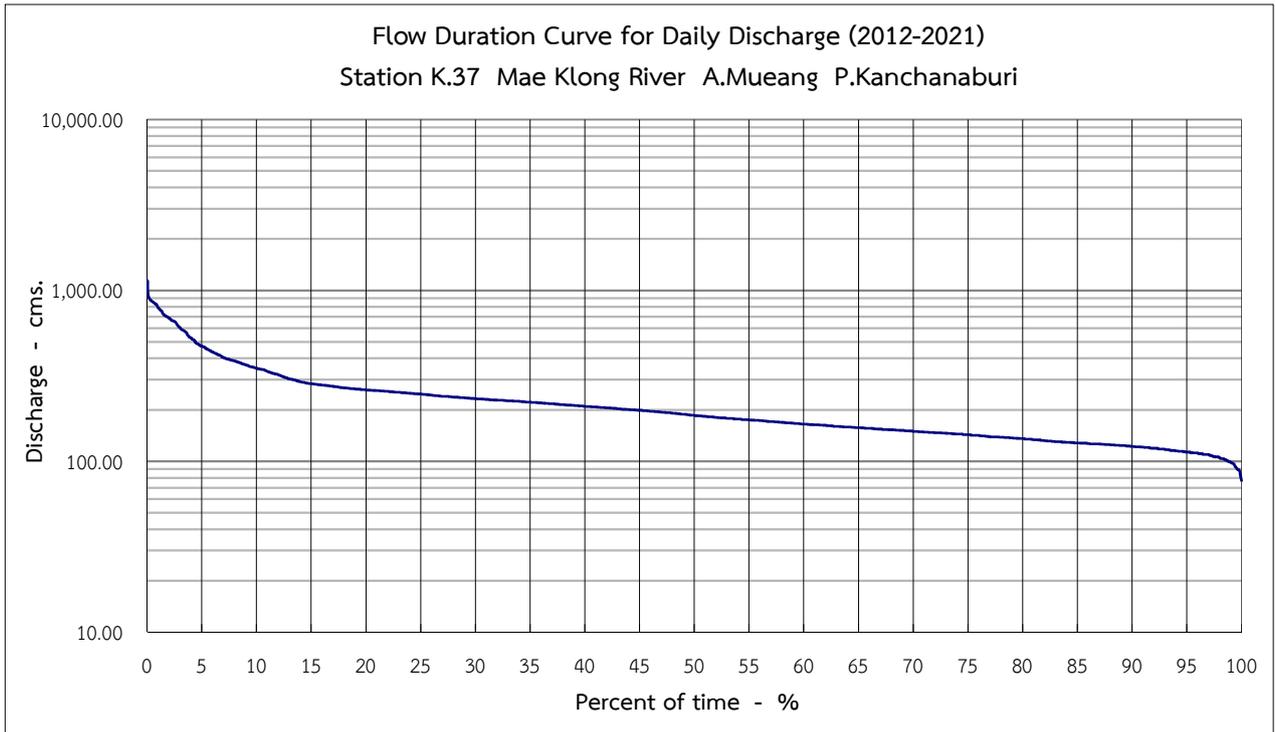
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	3,260.3	1,622.0	789.5	306.1	86.0	48.0	15.2	13.8	11.5	9.2	1.0



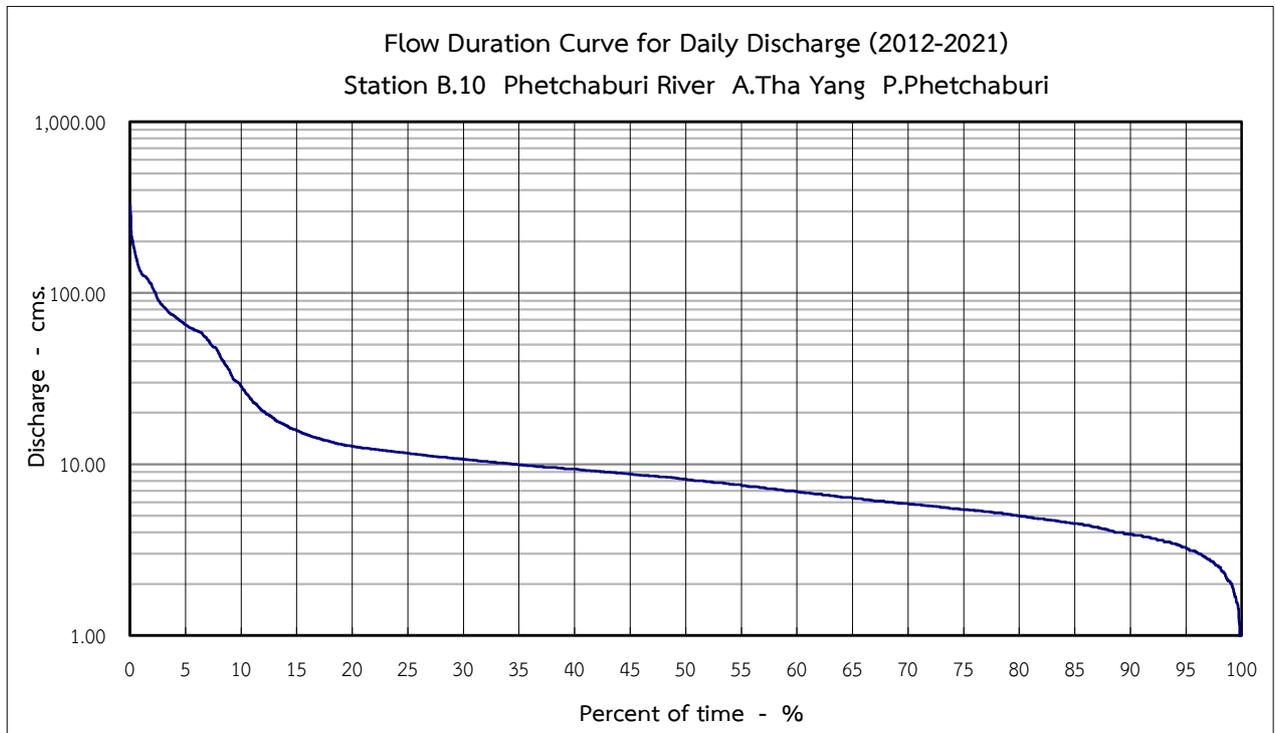
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	60.9	21.2	12.3	7.2	1.5	1.0	0.0	0.0	0.0	0.0	0.0



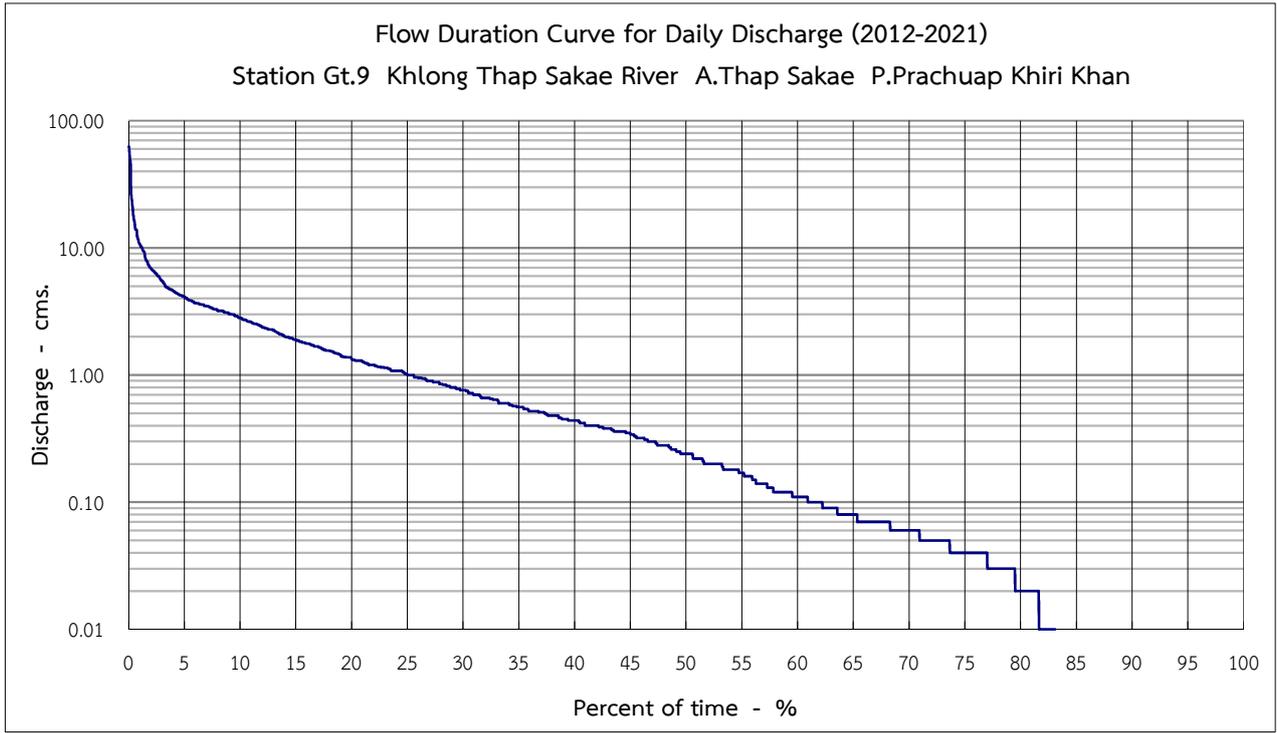
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	664.5	342.8	143.4	60.2	19.8	15.2	5.8	4.5	2.8	1.0	0.0



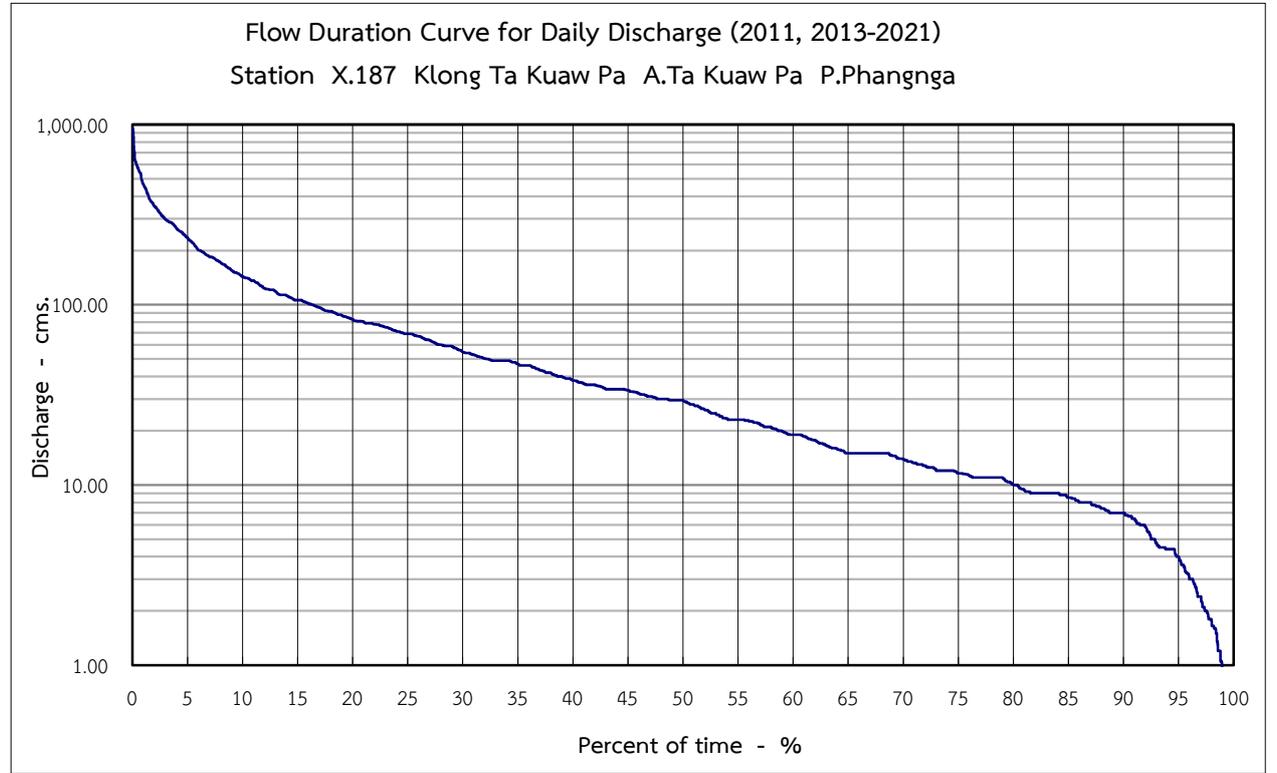
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	793.5	350.2	261.1	232.5	185.5	165.0	136.0	127.8	122.0	113.2	77.0



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	132.3	28.6	12.7	10.7	8.2	6.9	5.0	4.5	3.9	3.3	0.4

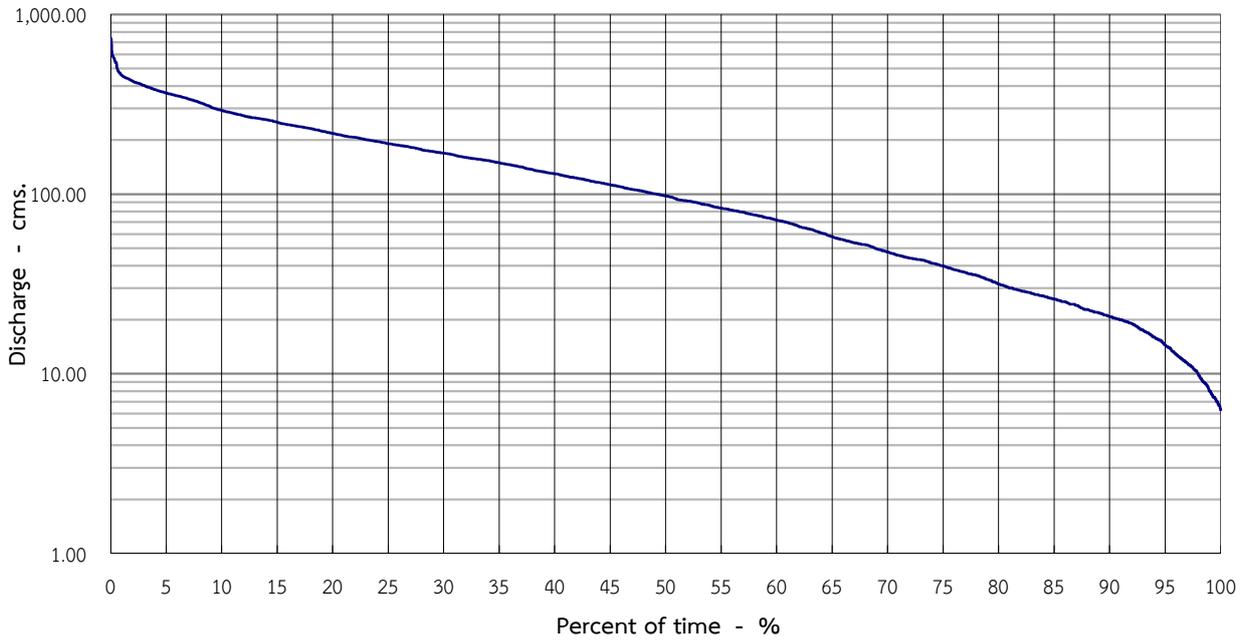


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	10.7	2.8	1.4	0.8	0.2	0.1	0.0	0.0	0.0	0.0	0.0



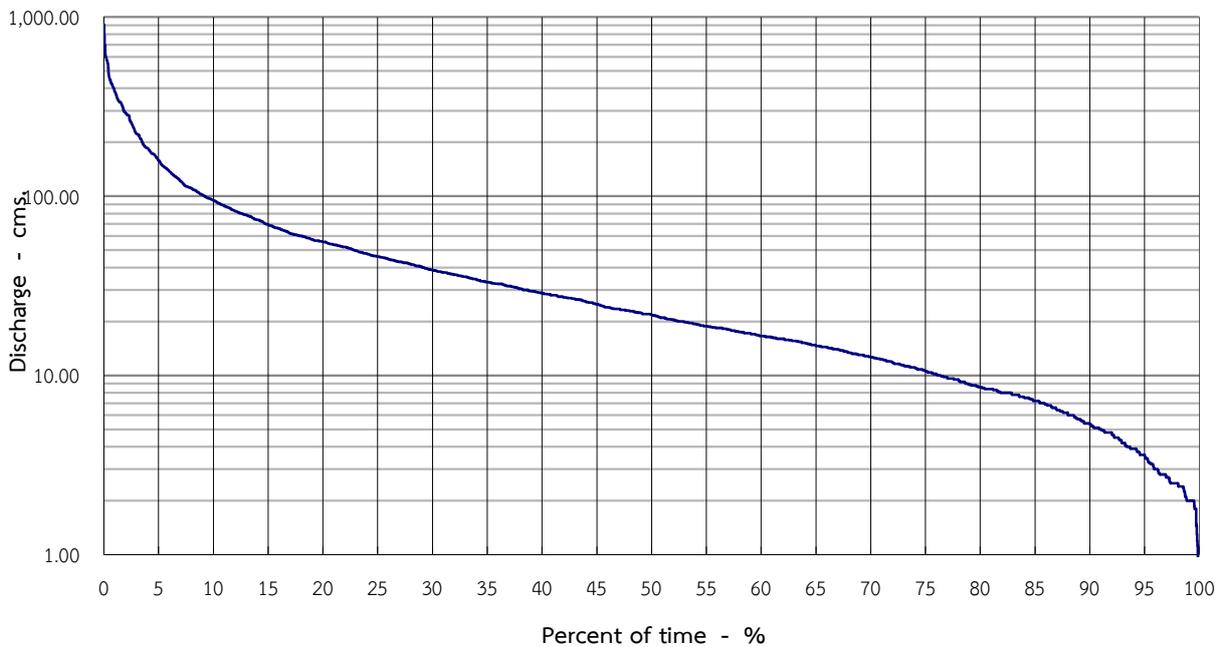
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	465.9	143.5	83.0	54.5	29.5	19.0	10.0	8.5	7.0	4.0	0.2

Flow Duration Curve for Daily Discharge (2012-2021)  
 Station X.37A Tapi River A.Phraseang P.Surat Thani



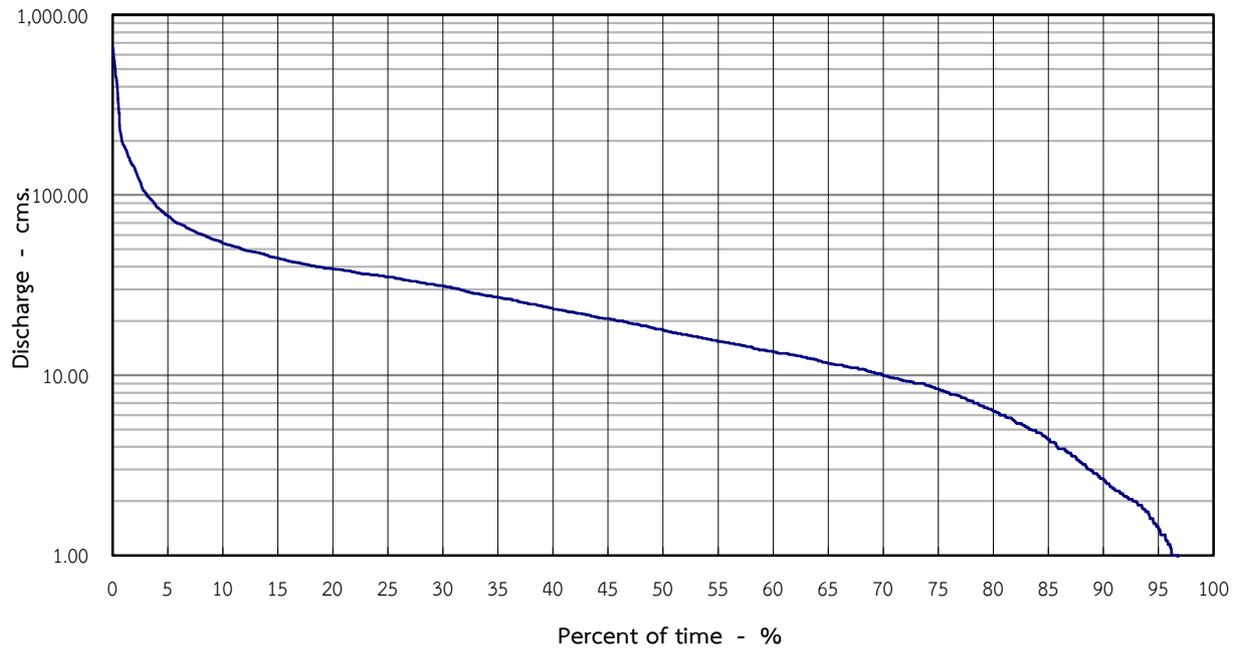
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	458.0	292.6	218.0	169.2	97.7	71.6	31.6	26.0	20.8	14.5	6.3

Flow Duration Curve for Daily Discharge (2012-2021)  
 Station X.158 Klong Tha Taphao A.Thai Sae P.Chumphon



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	384.7	95.0	55.7	38.8	21.8	16.6	8.6	7.2	5.4	3.6	0.0

Flow Duration Curve for Daily Discharge (2012-2021)  
 Station X.90 Klong U-Taphao River A.Klong Hoi-Khong P.Songkhla



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	189.2	54.0	38.9	31.3	17.9	13.5	6.3	4.4	2.7	1.4	0.0