

Thailand

Hydrological Yearbook

Water Year 2009

Volume 52

Royal Irrigation Department

Hydrology Division

Office Of Hydrology And Water Management

Bangkok

III

CONTENTS

	Page
CONTENTS	III
ILLUSTRATION OF STREAM GAUGING ACTIVITIES	XXI
HYDROLOGICAL YEARBOOK PUBLICATION	XXI
Introduction	XXI
Definition of terms and abbreviations	XXI
Order of listing of gauging data	XXII
Series of yearbook publications	XXIII
STANDARD OF STREAMFLOW DATA PROCUREMENT	XXV
Network design	XXV
Field work	XXV
Office data processing	XXVI
Future plan for computerization	XXVIII
Organization	XXVIII
PARTICIPATION IN STREAM GAUGING WORKS	XXX
UNITS OF MEASURE AND CONVERSION FACTORS	XXXI
STREAM GAUGING DATA	1
<u>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>KHONG RIVER BASIN</u>	
3 Kh.18 Huai Mong at Ban Na Ang, Udon Thani	6
4 Kh.28A Loei River at Ban Na Lak, Loei	8
5 Kh.53 Huai Luang at Nong Wua So, Udon Thani	10
6 Kh.58A Loei River at Ban Fak Loei, Loei	12
7 Kh.61 Loei River at Ban Keng Bong, Loei	14
8 Kh.72 Nam Mae Kham at Ban Mae Kham Lak Chet, Chiang Rai	16
9 Kh.77A Nam Thop at Ban Kok So, Loei	18
10 Kh.78 Huai Nam Huai at Ban Nam Huai, Loei	20
11 Kh.89 Nam Mae Chan at Ban Hua Saphan, Chiang Rai	22
12 Kh.90 Lam Nam Phung at Ban Tong Khop, Sakon Nakhon	24

IV

13	Kh.91	Huai Chanol at Ban Khon Sawan, Nakhon Phanom	26
14	Kh.92	Huai Bang Sai at Ban Kan Luang Dong, Muk Dahan	28
15	Kh.95	Nam San at Ban Kaeng Hai, Loei	30
16	Kh.99A	Huai Bang Sai at Ban Bang Sai, Mukdahan	32
17	Kh.101	Huai Muk at Ban Phon Sai, Mukdahan	34
18	Kh.103	Huai Luang at Ban Non Toom, Udon Thani	36
19	Kh.105	Huai Puan at Ban Pa Noi, Loei	38

NAM MAE ING BASIN

20	I.6	Nam Waen at Ban Nam Waen, Phayao	40
21	I.14	Nam Mae Ing at Ban Nam Ing, Chiang Rai	42
22	I.17	Nam Mae Ing at Ban Jae Dee Ngam, Phayao	44

NAM MAE KOK BASIN

23	G.4	Nam Mae Kon at Ban Pang Rim Kon, Chiang Rai	46
24	G.8	Nam Mae Lao at Ban Ton Yang, Chiang Rai	48
25	G.9	Nam Mae Suai at Ban Kariang Thung Phrao, Chiang Rai	50
26	G.10	Nam Mae Lao at Ban Pong Phu Phuang, Chiang Rai	52
27	G.11	Nam Mae Lao at Ban Don Sale, Chiang Rai	54

CHI RIVER BASIN

28	E.5	Chi River at Ban Non Puai, Chaiyaphum	56
29	E.6C	Lam Pa Thao at Ban Tat Ton, Chaiyaphum	58
30	E.9	Chi River at Ban Chot, Khon Kaen	60
31	E.18	Chi River at Ban Tha Sa Bang , Roi Et	62
32	E.20A	Chi River at Maha Chana Chai, Yasothon	64
33	E.21	Chi River at Ban Kaeng Ko, Chaiyaphum	66
34	E.22B	Lam Nam Phong at Ban Tha Mao, Khon Kaen	68
35	E.23	Chi River at Ban Khai, Chaiyaphum	70
36	E.29	Lam Nam Phong at Ban Pha Nok Khao, Loei	72
37	E.32A	Chi River at Ban Nong O, Chiyaphum	74
38	E.54	Nam Yang at Ban Kaeng Yao, Kalasin	76
39	E.57	Nam Yang at Ban Kut Chim Khum Yai, Kalasin	78
40	E.64	Lam Phaniang at Ban Na Klang, Nong Bua Lamphu	80
41	E.65	Lam Pao at Ban Tha Hai, Udon Thani	82
42	E.66A	Chi River at Ban Muang Lat, Roi Et	84

V

43	E.68A	Lam Phaniang at Ban Khong Po, Nong Bua Lamphu	86
44	E.70	Lam Nam Yang at Ban Kut Kwang, Roi Et	88
45	E.72	Lam Chiang at Ban Chiang, Chaiyaphum	90
46	E.73	Lam Chao at Ban Wang Taku, Chaiyaphum	92
47	E.75	Lam Pao at Ban Nong Muang, Kalasin	94
48	E.76A	Huai Sang Ka at Ban Phon, Kalasin	96
49	E.83	Lam Saphung at Ban Na Charoen, Chaiyaphum	98
50	E.84	Chi River at Ban Nang Dad Khok, Chaiyaphum	100
51	E.85	Lam Nam Choen at Ban Non Han, Khon Kaen	102
52	E.86	Lam Phan Chat at Ban Kham Hai, Udon Thani	104
53	E.87	Lam Pao at Ban Wang Hin, Kalasin	106
54	E.88	Huai Mun at Ban Khok Sung, Kalasin	108
55	E.89	Lam Nong Sang at Ban Nong Rew Nung, Kalasin	110
56	E.90	Huai Sang Kiab at Ban Nong Yang Tai, Kalasin	112
57	E.91	Chi River at Ban Kui Chuak, Maha Sarakham	114
58	E.92	Lam Nam Yang at Ban Tha Ngam, Roi Et	116

MUN RIVER BASIN

59	M.2A	Mun River at Ban Dan Taka, Nakhon Ratchasima	118
60	M.4	Mun River at Ban Phong Sawai, Surin	120
61	M.5	Mun River at Ban Mueang Kong, Si Sa Ket	122
62	M.6A	Mun River at Satuk, Buri Ram	124
63	M.7	Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani	126
64	M.9	Huai Samran at Mueang, Si Sa ket	128
65	M.11B	Mun River at Ban Kaeng Sa Phu, Ubon Ratchathani	130
66	M.26	Lam Chi at Ban Kho Kho, Surin	132
67	M.32	Lam Se Bai at Ban Chiang Pheng, Yasothon	134
68	M.42	Huai Thap Than at Ban Huai Thap Than, Si Sa Ket	136
69	M.43A	Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima	138
70	M.50	Lam Sae at Ban Khon Buri, Nakhon Ratchasima	140
71	M.66	Huai Khayung at Ban Wang Chom Pu, Si Sa Ket	142
72	M.89	Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima	144
73	M.91	Huai Samran at Ban Thai Thaworn, Si Sa Ket	146
74	M.95	Lam Sieo Yai at Ban Ku, Roi Et.	148
75	M.98	Huai Tha at Ban Phayu, Si Sa Ket	150

VI

76	M.104	Mun River at Ban Wang Prat, Buri Ram	152
77	M.110	Huai Tunglung at Ban Don Yai, Ubon Ratchathani	154
78	M.112	Huai Takhong at Ban Khok Yai, Buri Ram	156
79	M.119	Lam Chiang Sa at Ban Khok Sakae Rat, Nakhon Ratchasima	158
80	M.127	Huai TaThieo at Ban Na Hai, Ubon Ratchathani	160
81	M.132	Huai Saphu at Ban Mon, Ubon Ratchathani	162
82	M.137	Huai Nua at Ban Raka, Si Sa Ket	164
83	M.143	Huai Sang Kot at Ban Nong Yai, Si Sa Ket	166
84	M.145	Lam Phra Phloeng at Ban Wang Ta Kian, Nakhon Ratchasima	168
85	M.152	Huai Bon at Ban Phon Thong, Ubon Ratchathani	170
86	M.153	Lam Dom Yai at Ban Kut Chiang Mun, Ubon Ratchathani	172
87	M.154	Huai Luang at Ban Na Chaluai, Ubon Ratchathani	174
88	M.155	Huai La - ong at Ban Na Phu, Amnart Charoen	176
89	M.156	Huai Ban at Ban Na Phu, Amnart Charoen	178
90	M.157	Huai Lam Phong at Ban Nikhom, Yasothon	180
91	M.159	Lam Chi at Ban Lum Din, Surin	182
92	M.164	Lam Ta Khong at Mueang, Nakhon Ratchasima	184
93	M.169	Khlong Ki at Ban Khlong Din Dam, Nakhon Ratchasima	186
94	M.170	Lam Dom Yai at Ban Kham Samran, Ubon Ratchathani	188
95	M.171	Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima	190
96	M.172	Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima	192
97	M.173	Mun River at Ban Non Sa - at, Nakhon Ratchasima	194
98	M.176	Huai Khayung at Ban Non Si Khlai, Si Sa Ket	196
99	M.177	Lam Ta Khong at Ban Lat Bua Khaow, Nakhon Ratchasima	198
100	M.179	Lam Sa Bai at Ban Tha Wari, Ubon Ratchathani	200
101	M.180	Lam Phra Phloeng at Ban Tha Yiam, Nakhon Ratchasima	202
102	M.182	Mun River at Ban Si Than, Si Sa Ket	204
103	M.183	Huai Hin Lap at Ban Hin Lap, Nakhon Ratchasima	206
104	M.184	Mun River at Ban Cum, Nakhon Ratchasima	208
105	M.185	Lam Plai Mat at Ban Phai Noi, Nakhon Ratchasima	210
106	M.186	Lam Chakkarat at Ban Non Koy, Nakhon Ratchasima	212
107	M.187	Huai Sanaeng at Mueang, Surin	214
108	M.188	Lam Chiang Krai at Ban Bua, Nakhon Ratchasima	216
109	M.189	Lam Ta Khong at Ban Duae, Nakhon Ratchasima	218

VII

110	M.190	Huai Samran at Ban Khwaw, Si Sa Ket	220
-----	-------	-------------------------------------	-----

PING RIVER BASIN

111	P.1	Ping River at Nawarat Bridge, Chiang Mai	222
112	P.2A	Ping River at Ban Tha Khae, Tak	224
113	P.4A	Nam Mae Taeng at Ban Sanmahaphon, Chiang Mai	226
114	P.5	Nam Mae Kuang at Tha Sing Phithak Bridge, Lamphun	228
115	P.7A	Ping River at Ban Huai Yang, Kamphaeng Phet	230
116	P.12C	Ping River at Ban Wang Kra Chao, Tak	232
117	P.15	Ping River at Wat Sri Phirom, Kamphaeng Phet	234
118	P.16	Ping River at Ban San Tor, Kamphaeng Phet	236
119	P.17	Ping River at Ban Tha Ngiu, Nakhon Sawan	238
120	P.20	Ping River at Ban Chiang Dao, Chiang Mai	240
121	P.21	Nam Mae Rim at Ban Mae Rim Tai, Chiang Mai	242
122	P.24A	Nam Mae Klang at Pracha Uthit Bridge, Chiang Mai	244
123	P.26A	Khlung Suan Mak at Ban Mai, Kamphaeng Phet	246
124	P.47	Khlung Suan Mak at Ban Pong Nam Ron, Kamphaeng Phet	248
125	P.50A	Khlung Wang Chao at Ban Thai Tawee, Kamphaeng Phet	250
126	P.56A	Nam Mae Ngat at Ban Sahakorn Romklao, Chiang Mai	252
127	P.64	Nam Mae Tun at Ban Luang, Chaing Mai	254
128	P.65	Nam Mae Taeng at Ban Muang Pog , Chiang Mai	256
129	P.67	Ping River at Ban Mae Tae, Chiang Mai	258
130	P.71	Ping River at Ban Klang, Chiang Mai	260
131	P.73	Ping River at Ban Sop Soi, Chiang Mai	262
132	P.75	Ping River at Ban Cho Lae, Chiang Mai	264
133	P.76	Nam Mae Li at Ban Mae E - Hai, Lamphun	266
134	P.77	Nam Mae Tha at Ban Sop Mae Sapuad, Lam Phun	268
135	P.78	Khlung Khlung at Ban Sam Ruean, Kamphaeng Phet	270
136	P.79	Nam Mae Kuang at Ban Mae Wan, Chiang Mai	272
137	P.80	Nam Mae Lai at Ban Pong Din, Chiang Mai	274
138	P.81	Nam Mae Kuang at Ban Pong, Chiang Mai	276
139	P.82	Nam Mae Wang at Ban Mae Win, Chiang Mai	278
140	P.84	Nam Mae Wang at Ban Mae Chaem, Chiang Mai	280
141	P.85	Nam Mae Li at Ban Lai Khaeo, Lamphun	282
142	P.86	Nam Mae Hom at Ban Hong, Chiang Mai	284

VIII

143	P.87	Nam Mae Tha at Ban Pa Cang Noy, Lamphun	286
-----	------	---	-----

WANG RIVER BASIN

144	W.3A	Wang River at Ban Don Chai, Lampang	288
145	W.4A	Wang River at Ban Wang Man, Tak	290
146	W.10A	Wang River at Ban Don Mun, Lampang	292
147	W.16A	Wang River at Ban Hai, Lampang	294
148	W.17	Nam Mae Soi at Ban Nong Nao, Lampang	296
149	W.20	Nam Mae Tui at Ban Tha Lo, Lampang	298
150	W.21	Wang River at Ban Tha Dua, Lampang	300
151	W.22	Nam Mae Chang at Ban Wang Phrao, Lampang	302
152	W.23	Wang River at Ban Chiang Rai, Tak	304
153	W.25	Wang River at Ban Huai Kod, Lampang	306

YOM RIVER BASIN

154	Y.1C	Yom River at Ban Nam Khong, Phrae	308
155	Y.3A	Yom River at Ban Wang Mai Khon, Sukhothai	310
156	Y.6	Yom River at Ban Kaeng Luang, Sukhothai	312
157	Y.13A	Nam Ngao at Ban Luang Nua, Lampang	314
158	Y.14	Yom River at Ban Don Rabiang, Sukhothai	316
159	Y.16	Yom River at Ban Bang Rakam, Phitsanulok	318
160	Y.17	Yom River at Ban Sam Ngam, Phichit	320
161	Y.20	Yom River at Ban Huai Sak, Phrae	322
162	Y.21	Yom River at Ban Na Pla Kang, Sukhothai	324
163	Y.24	Nam Pi at Ban Mang, Phayao	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 Mae 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

NAN RIVER BASIN

172	N.1	Nan River at Forestry Office, Nan	344
173	N.2B	Nan River at Nai Mueang, Uttaradit	346

IX

174	N.5A	Nan River at Mueang, Phitsanulok	348
175	N.7A	Nan River at Mueang, Phichit	350
176	N.8A	Nan River at Ban Hor Krai, Phichit	352
177	N.10A	Nan River at Ban Taphan Hin, Phichit	354
178	N.12A	Nan River at Ban Hat Phai, Uttaradit	356
179	N.13A	Nan River at Ban Bun Nak, Nan	358
180	N.14A	Nan River at Wat Luang Pho Kaeo, Nakhon Sawan	360
181	N.22	Khwae Noi at Ban Yang, Phitsanulok	362
182	N.22A	Khwae Noi at Ban Yang, Phitsanulok	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	Nan River at Ban Na Klam, Uttaradit	370
186	N.36	Nam Khwae Noi at Ban Nong Krathao, Phitsanulok	372
187	N.49	Nam Yao at Ban Nam Yao, Nan	374
188	N.54	Khlong Wang Pong at Ban Wang Pong, Phetchabun	376
189	N.55	Nam Phak at Ban Tha Sakae, Phitsanulok	378
190	N.58	Nam Fua at Ban Nam Fua, Phitsanulok	380
191	N.59	Lam Nam Khan at Ban Na Chan, Phitsanulok	382
192	N.60	Nan River at Ban Hat Song Khwae, Uttaradit	384
193	N.62	Huai Nam Khlung at Ban Huai Tha Nua, Phitsanulok	386
194	N.64	Nan River at Ban Pha Khwang, Nan	388
195	N.65	Nam Yao at Ban Pang Sa, Nan	390
196	N.66	Huai Om Sing at Ban Noen Phoem, Phitsanulok	392
197	N.67	Nan River at Ban Koei Chai, Nakhon Sawan	394
198	N.68	Nan River at Ban Tha Takhian, Phitsunulok	396
199	N.72	Khlong Tron at Ban Wang Pla Kod, Uttaradit	398
200	N.73	Khek River at Ban Tan Tawan, Phetchabun	400
201	N.74	Nan River at Bang Krathum, Phitsanulok	402
202	N.75	Nam Wa at Tha Li Bridge, Nan	404
203	N.76	Khlong Huai Chan at Ban Nong Khon, Nakhon Sawan	406
204	N.79	Khlong Huai Ruaw at Ban Yang Yai, Nakhon Sawan	408

CHAO PHRAYA RIVER BASIN

205	C.2	Chao Phraya River at Ban Phai Lom, Nakhon Sawan	410
206	C.2A	Chao Phraya River at Ban Klang Dad, Nakhon Sawan	412

X

207	C.3	Chao Phraya River at Ban Bang Phutsa, Sing Buri	414
208	C.7A	Chao Phraya River at Ban Bang Kaeo, Ang Thong	416
209	C.13	Chao Phraya River at Ban Bang Luang, Chai Nat	418
210	C.30	Huai Khun Kaeo at Ban Samo Thong, Uthai Thani	420
211	C.44	Chao Phraya River at Ban In Buri, Sing Buri	422
212	C.51	Huai Khun Kaeo at Ban Kud Jok, Chai Nat	424

SAKAE KRANG RIVER BASIN

213	Ct.2A	Sakae Krang River at Ban Hat Tanong, Uthai Thani	426
214	Ct.4	Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan	428
215	Ct.5A	Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet	430
216	Ct.5B	Nam Mae Wong at Ban Khao Chon Kan, Nakhon Sawan	432
217	Ct.7	Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan	434
218	Ct.8	Huai Tak Daet at Ban Khok Mo, Uthai Thani	436
219	Ct.9	Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani	438
220	Ct.20	Huai Thap Salao at Ban Saphan Leak, Uthai Thani	440
221	Ct.21	Huai Kan Yao at Ban Phai Khieo, Uthai Thani	442
222	Ct.23	Huai Rang at Ban Huai Rang, Uthai Thani	444

PASAK RIVER BASIN

223	S.3	Pasak River at Ban Tan Dieo, Phetchabun	446
224	S.4B	Pasak River at Mueang, Phetchabun	448
225	S.7A	Lam Muak Lek at Ban Tharahad, Saraburi	450
226	S.9	Pasak River at Ban Pa, Saraburi	452
227	S.13	Lam Sonthi at Ban Tha Yiam, Lop Buri	454
228	S.14	Lam Sonthi at Ban Tha Ruak, Lop Buri	456
229	S.26	Pasak River at Ban Tha Rua, Phra Nakhon Si Ayutthaya	458
230	S.28A	Pasak River at Ban Kham Phran, Saraburi	460
231	S.33	Pasak River at Ban Tha Hi Yong, Phetchabun	462
232	S.36	Pasak River at Ban Non Thong, Phetchabun	464
233	S.40	Lam Sonthi at Ban Jong Ko, Lop Buri	466
234	S.42	Pasak River at Wichian Buri, Phetchabun	468

THACHIN RIVER BASIN

235	T.12A	Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri	470
-----	-------	--	-----

XI

MAE KLONG RIVER BASIN

236	K.10	Khwaee Noi River at Ban Lum Sum, Kanchanaburi	472
237	K.11A	Mae Klong River at Ban Wang Khanai, Kanchanaburi	474
238	K.12	Lam Ta Phoen at Ban Thung Na Nang Rok, Kanchanaburi	476
239	K.17	Lam Phachi at Ban Bo, Ratchaburi	478
240	K.22B	Huai Mae Nam Noi at Ban Sai Yok, Kanchanaburi	480
241	K.25A	Huai Tha Khoei at Ban Kha, Ratchaburi	482
242	K.30	Huai Mae Nam Lo at Ban Sai Yok, Kanchanaburi	484
243	K.31	Huai Mae Nam Noi at Ban Nam Chon, Kanchanaburi	486
244	K.32A	Huai Bong Ti at Ban Bong Ti, Kanchanaburi	488
245	K.35A	Khwaee Yai River at Ban Nong Bua, Kanchanaburi	490
246	K.37	Khwaee Noi River at Ban Wang Yen, Kanchanaburi	492
247	K.38A	Huai Lin Thin at Ban Nong Bang, Kanchanaburi	494
248	K.39	Huai Ong Thi at Ban Ong Thi, Kanchanaburi	496
249	K.50	Huai Diso at Ban Hin Laem, Kanchanaburi	498
250	K.53	Huai Mae Kraban at Ban Si Mong Khon, Kanchanaburi	500
251	K.54	Khwaee Noi River at Ban Lin Thin, Kanchanaburi	502
252	K.58	Khwaee Noi at Ban Pak Saeng, Kanchanaburi	504
253	K.60	Huai Kui Mang at Ban Kui Mang, Kanchanaburi	506
254	K.61	Lam Phachi at Chom Bung, Ratchaburi	508
255	K.62	Lam Phachi at Ban Nong Phai, Kanchanaburi	510

PRACHIN BURI RIVER BASIN

256	Kgt.3	Prachin Buri River at Ban Kabin Buri, Prachin Buri	512
257	Kgt.9	Khlong Phra Sathung at Ban Khao Chakan, Sa Kaeo	514
258	Kgt.12	Khlong Phra Prong at Ban Kaeng, Sa Kaeo	516
259	Kgt.13A	Khlong Phra Prong at Ban Non Suk Phum, Prachin Buri	518
260	Kgt.14	Huai Yang at Ban Thung Faek, Prachin Buri	520
261	Kgt.15A	Huai Samong at Ban Kaeng Din So, Prachin Buri	522
262	Kgt.33	Khwaee Nam Sai at Ban Saphan Hin, Prachin Buri	524
263	Kgt.34	Khwaee Hanuman at Ban Cha Om, Prachin Buri	526
264	Kgt.40	Upper Khlong Phra Sathung at Ban Thung Kabin, Sa Kaeo	528
265	Kgt.41	Khlong Kuad Kong at Ban Khok Noi, Sa Kaeo	530
266	Kgt.42	Khlong Phra Sathung at Ban Tharapha, Sa Kaeo	532

XII

BANG PAKONG RIVER BASIN

267	Ny.1B	Nakhon Nayok River at Ban Khao Nang Buat, Nakhon Nayok	534
268	Ny.3	Lower Khlong Ban Na at Ban Pa Kha, Nakhon Nayok	536
269	Ny.4	Khlong Samo Pun at Ban Noen Hom, Prachin Buri	538
270	Ny.6	Upper Khlong Ban Na at Ban Cha Om, Saraburi	540

TONLE SAP BASIN

271	TI.3	Khlong Phra Phut at Ban Pang Ngon, Chanthaburi	542
272	TI.4	Khlong Ta Khong at Ban Khlong Ta Khong, Chanthaburi	544
273	TI.6	Khlong Thung Krang at Ban Thung Krang, Chanthaburi	546

EAST COAST-GULF BASIN

274	Z.10	Khlong Yai at Ban Si Bua Thong, Trat	548
275	Z.11	Khlong Prasae at Ban Chak Khrok, Rayong	550
276	Z.13	Chanthaburi River at Ban Puk, Chanthaburi	552
277	Z.14	Khlong Phayat at Ban Chaman, Chanthaburi	554
278	Z.18	Khlong Phlo at Ban Chamkho, Rayong	556
279	Z.21	Khlong Hin Dat at Ban Pong Rong Sen, Chanthaburi	558
280	Z.28	Upper Khlong Tanot at Ban Khun Song, Chanthaburi	560
281	Z.30	Khlong Sato at Ban Nong Bua, Trat	562
282	Z.39A	Khlong Phrawa at Ban Phrawa Yai, Chanthaburi	564
283	Z.42	Khlong Prakaet at Ban Prakaet, Chanthaburi	566
284	Z.43	Khlong Hin Phloeng at Ban Hin Phloeng, Chanthaburi	568
285	Z.45	Khlong Ko Lae at Ban Nong Bon, Trat	570
286	Z.46	Khlong Sano at Ban Nonthee, Trat	572
287	Z.47	Khlong Chanthi at Ban Khlong Khwang, Trat	574
288	Z.52	Khlong Pran Bun at Ban Khlong Yai Tai, Trat	576
289	Z.53	Khlong Thung Ta In at Ban Thung Ta In, Chanthaburi	578
290	Z.55	Chanthaburi River at Ban Bang Cha Ai, Chanthaburi	580
291	Z.56	Khlong Thung Plae at Ban Ta Bok Tia, Chanthaburi	582

PHETCHABURI RIVER BASIN

292	B.3A	Phetchaburi River at Ban Song Phi Nong, Phetchaburi	584
293	B.6	Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi	586
294	B.8A	Huai Phak at Ban Prong Khae, Phetchaburi	588
295	B.9	Phetchaburi River at Ban Sarahed, Phetchaburi	590

XIII

296	B.10	Phetchaburi River at Ban Tha Yang, Phetchaburi	592
297	B.11	Huai Mae Prachan at Ban Cha Prong, Phetchaburi	594

WEST COAST-GULF BASIN

298	Gt.8	Khlong WaThon at Ban Rai Khlong, Prachuap Khiri Khan	596
299	Gt.9	Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan	598
300	Gt.10	Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan	600
301	Gt.11	Khlong Yang at Ban Chang Laek, Prachuap Khiri Khan	602
302	Gt.15	Huai Sai at Ban Suan Son Huai Sai, Prachuap Khiri Khan	604
303	Gt.16	Khlong Hin Chuang at Ban Hin Chuang, Prachuap Khiri Khan	606
304	Gt.17	Huai Yang at Ban Huai Yang, Prachuap Khiri Khan	608
305	Gt.18	Khlong Cha Kra at Ban Cha Kra Bon, Prachuap Khiri Khan	610
306	Gt.19	Khlong Ang Thong at Ban Ang Thong, Prachuap Khiri Khan	612

KUI BURI BASIN

307	ky.3	Kui Buri River at Ban Thung Faek, Prachuap Khiri Khan	614
-----	------	---	-----

SOUTHERN PENINSULA EAST COAST

308	X.53A	Khlong Chumphon at Ban Wang Phai, Chumphon	616
309	X.55	Khlong Tha Di at Ban Tha Yai, Nakhon Si Thammarat	618
310	X.64	Khlong Tha Sae at Ban Tha Sae, Chumphon	620
311	X.70	Khlong Tan at Ban Wang Kong, Nakhon Si Thammarat	622
312	X.103	Khlong Takhian at Ban Nai Thon, Surat Thani	624
313	X.158	Khlong Tha Taphao at Ban Wang Khrok, Chumphon	626
314	X.165	Khlong Nai Khieo at Ban Thon Hong, Nakhon Si Thammarat	628
315	X.167	Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat	630
316	X.201A	Upper Khlong Chumphon at Ban Tha Mai Lai, Chumphon	632
317	X.203	Khlong Thadee at Ban Na Pa, Nakhon Si Thammarat	634
318	X.213	Upper Khlong Lang Suan at Ban Phato, Chumphon	636
319	X.214	Lower Khlong Lamae at Ban Thung Luang, Chumphon	638
320	X.247	Khlong Tha Sae at Ban Wang Maprang, Chumphon	640
321	X.248	Khlong Rap Ro at Ban Hat Nai, Chumphon	642
322	X.270	Lower Khlong Tako at Ban Nong Chik, Chumphon	644

TAPI RIVER BASIN

323	X.37A	Tapi River at Ban Yan Din Daeng, Surat Thani	646
324	X.198	Khlong Sin Pun at Ban Bang Rup, Surat Thani	648
325	X.257	Khlong Chandee at Ban Pak Min, Nakhon Si Thammarat	650

XIV

326	X.258	Khlong I - Pan at Ban Mai, Surat Thani	652
327	X.259	Khlong Trom at Ban Trom, Surat Thani	654
328	X.260	Khlong I - Pan at Ban Arpart, Surat Thani	656

THALE SAP SONGKHLA BASIN

329	X.44	Khlong U - Taphao at Ban Hat Yai Nai, Songkhla	658
330	X.67A	Khlong Rattaphum at Ban Kampheang Phet, Songkhla	660
331	X.68	Khlong Tha Khae at Ban Tha Khae, Phatthalung	662
332	X.71B	Khlong Tam at Ban Khuan Lang, Songkhla	664
333	X.90	Khlong U - Taphao at Ban Bang Sala, Songkhla	666
334	X.112	Khlong Lam at Ban Takian Pao, Songkhla	668
335	X.113	Khlong La Pang at Ban Thung Prap, Songkhla	670
336	X.170	Khlong Lam at Ban Khlong Lam, Phatthalung	672
337	X.173A	Khlong U - Taphao at Ban Muang Kong, Songkhla	674
338	X.174	Khlong Wa at Ban Khlong Wa, Songkhla	676
339	X.240	Upper Khlong Wat at Ban Hu Rae, Songkhla	678
340	X.266	Khlong Pa Bon at Ban Lo Han, Phatthalung	680
341	X.267	Khlong Tamot at Ban Mae Khree, Phatthalung	682
342	X.276	Upper Khlong Tha Nae at Ban Khao Pu, Phatthalung	684
343	X.277	Lower Khlong Tha Nae at Ban Phikul Thong, Phatthalung	686

SOUTHERN PENINSULA WEST COAST

344	X.56	Trang River at Ban Tha Pradu, Trang	688
345	X.128A	Khlong Nang Noi at Ban Thung Kling, Trang	690
346	X.139A	Khlong Palian at Ban Palian Nai, Trang	692
347	X.150	Khlong Langu at Ban Tha Khian, Satun	694
348	X.186	Khlong Ta Kuaw Pa at Ban Talat Kao, Phang Nga	696
349	X.188A	Khlong Rommanee at Ban Rommanee, Phang Nga	698
350	X.190A	Khlong Bang Yai at Ban Ket Ho, Phuket	700
351	X.191	Khlong Bang Yai at Satree Phuket School, Phuket	702
352	X.196	Khlong Kapong at Ban Tha Na, Phang Nga	704
353	X.204	Khlong Had Sompan at Ban Hat Sompan, Ranong	706
354	X.209	Khlong Had Sompan at Mueang, Ranong	708
355	X.228	Trang River at Ban Klang, Trang	710
356	X.229	Khlong Nang Noi at Ban Khaow Sea (2), Trang	712
357	X.231	Lower Khlong Langu at Ban Kota, Satun	714

XV

358	X.233	Trang River at Ban Sai Han, Trang	716
359	X.234	Trang River at Ban Pa Mak, Trang	718
360	X.235	Khlong Lam Phikul at Ban Pak Khlong, Trang	720
361	X.236	Khlong Palian at Ban Yan Ta Khaow, Trang	722
362	X.237	Khlong Ton at Ban Ton, Satun	724
363	X.238	Khlong Chaeng at Ban Khlong Hak, Satun	726
364	X.245	Khlong Phangnga at Ban Bang Tong, Phangnga	728
365	X.261	Khlong Tha Prae at Ban Karakat, Satun	730
366	X.262	Khlong Tha Prae at Ban Na Kaeo, Satun	732
367	X.263	Khlong Ta Lam at Ban Pluk Wa, Satun	734
368	X.264	Khlong Tha Prae at Ban Ta Lam, Satun	736

LOCATION MAP OF HYDROLOGIC OBSERVATION STATIONS IN 2009 WATER YEAR

SUSPENDED SEDIMENT STATIONS

			Page
<u>KHONG RIVER BASIN</u>			
1	Kh.18	Huai Mong at Ban Na Ang, Udon Thani	739
2	Kh.28A	Loei River at Ban Na Lak, Loei	740
3	Kh.58A	Loei River at Ban Fak Loei, Loei	741
4	Kh.61	Loei River at Ban Keng Bong, Loei	742
5	Kh.90	Lam Nam Phung at Ban Tong Khop, Sakon Nakhon	743
6	Kh.91	Huai Chanot at Ban Khon Sawan, Nakhon Phanom	744
7	Kh.92	Huai Bang Sai at Ban Kan Luang Dong, Muk Dahan	745
8	Kh.103	Huai Luang at Ban Non Toom, Udon Thani	746
<u>NAM MAE KOK BASIN</u>			
9	G.8	Nam Mae Lao at Ban Ton Yang, Chiang Rai	747
<u>CHI RIVER BASIN</u>			
10	E.5	Chi River at Ban Non Puai, Chaiyaphum	748
11	E.23	Chi River at Ban Khai, Chaiyaphum	749
12	E.54	Nam Yang at Ban Kaeng Yao, Kalasin	750
13	E.65	Lam Pao at Ban Tha Hai, Udon Thani	751
14	E.66A	Chi River at Ban Muang Lat, Roi Et	752
15	E.72	Lam Chiang at Ban Chiang, Chaiyaphum	753
16	E.83	Lam Saphung at Ban Na Charoen, Chaiyaphum	754
17	E.84	Chi River at Ban Nang Dad Khok, Chaiyaphum	755
18	E.90	Huai Sang Kiab at Ban Nong Yang Tai, Kalasin	756
19	E.91	Chi River at Ban Kui Chuak, Maha Sarakham	757
<u>MUN RIVER BASIN</u>			
20	M.2A	Mun River at Ban Dan Taka, Nakhon Ratchasima	758
21	M.5	Mun River at Ban Mueang Kong, Si Sa Ket	759
22	M.9	Huai Samran at Mueang, Si Sa ket	760
23	M.26	Lam Chi at Ban Kho Kho, Surin	761
24	M.32	Lam Se Bai at Ban Chiang Pheng, Yasothon	762
25	M.42	Huai Thap Than at Ban Huai Thap Than, Si Sa Ket	763
26	M.66	Huai Khayung at Ban Wang Chom Pu, Si Sa Ket	764

XVII

27	M.89	Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima	765
28	M.91	Huai Samran at Ban Thai Thaworn, Si Sa Ket	766
29	M.110	Huai Tunglung at Ban Don Yai, Ubon Ratchathani	767
30	M.127	Huai TaThieo at Ban Na Hai, Ubon Ratchathani	768
31	M.153	Lam Dom Yai at Ban Kut Chiang Mun, Ubon Ratchathani	769
32	M.154	Huai Luang at Ban Na Chaluai, Ubon Ratchathani	770
33	M.159	Lam Chi at Ban Lum Din, Surin	771
34	M.164	Lam Ta Khong at Mueang, Nakhon Ratchasima	772
35	M.170	Lam Dom Yai at Ban Kham Samran, Ubon Ratchathani	773
36	M.176	Huai Khayung at Ban Non Si Khlai, Si Sa Ket	774
37	M.183	Huai Hin Lap at Ban Hin Lap, Nakhon Ratchasima	775
38	M.187	Huai Sanaeng at Mueang, Surin	776

PING RIVER BASIN

39	P.1	Ping River at Nawarat Bridge, Chiang Mai	777
40	P.4A	Mae Taeng at Ban Sammahaphon, Chiang Mai	778
41	P.5	Nam Mae Kuang at Tha Sing Phithak Bridge, Lamphun	779
42	P.21	Nam Mae Rim at Mae Rim Tai, Chiang Mai	780
43	P.56A	Nam Mae Ngat at Ban Sahakorn Romklao, Chiang Mai	781
44	P.67	Ping River at Ban Mae Tae, Chiang Mai	782
45	P.75	Ping River at Ban Cho Lae, Chiang Mai	783
46	P.76	Nam Mae Li at Ban Mae E - Hai, Lamphun	784
47	P.77	Nam Mae Tha at Ban Sop Mae Sapuad, Lamphun	785
48	P.78	Khlung Khlung at Ban Sam Ruean, Kamphaeng Phet	786
49	P.79	Nam Mae Kuang at Ban Mae Wan, Chiang Mai	787
50	P.82	Nam Mae Wang at Ban Mae Win, Chiang Mai	788
51	P.84	Nam Mae Wang at Ban Mae Chaem, Chiang Mai	789

WANG RIVER BASIN

52	W.3A	Wang River at Ban Don Chai, Lampang	790
53	W.4A	Wang River at Ban Wang Man, Tak	791
54	W.17	Nam Mae Soi at Ban Nong Nao, Lampang	792
55	W.21	Wang River at Ban Tha Dua, Lampang	793
56	W.23	Wang River at Ban Chiang Rai, Tak	794
57	W.25	Wang River at Ban Huai Kod, Lampang	795

XVIII

YOM RIVER BASIN

58	Y.1C	Yom River at Ban Nam Khong, Phrae	796
59	Y.6	Yom River at Ban Kaeng Luang, Sukhothai	797
60	Y.14	Yom River at Ban Don Rabiang, Sukhothai	798
61	Y.20	Yom River at Ban Huai Sak, Phrae	799
62	Y.26	Nam Mae Mok at Ban Mae Phu, Lampang	800
63	Y.30	Huai Pong at Ban Pong, Lampang	801
64	Y.41	Yom River at Ban Tha Mai, Nakhon Sawan	802

NAN RIVER BASIN

65	N.1	Nan River at Forestry Office, Nan	803
66	N.7A	Nan River at Mueang, Phichit	804
67	N.8A	Nan River at Ban Hor Krai, Phichit	805
68	N.36	Nam Khwae Noi at Ban Nong Krathao, Phitsanulok	806
69	N.40	Nam Khwae Noi at Ban Nong Bon, Phitsanulok	807
70	N.55	Nam Phak at Ban Tha Sakae, Phitsanulok	808
71	N.59	Lam Nam Khan at Ban Na Chan, Phitsanulok	809
72	N.64	Nan River at Ban Pha Khwang, Nan	810
73	N.65	Nam Yao at Ban Pang Sa, Nan	811
74	N.66	Huai Om Sing at Ban Noen Phoem, Phitsanulok	812
75	N.67	Nan River at Ban Koei Chai, Nakhon Sawan	813
76	N.72	Khlong Tron at Ban Wang Pla Kod, Uttaradit	814

SAKAE KRANG RIVER BASIN

77	Ct.7	Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan	815
78	Ct.20	Huai Thap Salao at Ban Saphan Leak, Uthai Thani	816

PASAK RIVER BASIN

79	S.9	Pasak River at Ban Pa, Saraburi	817
80	S.28A	Pasak River at Ban Kham Phran, Saraburi	818
81	S.33	Pasak River at Ban Tha Hi Yong, Phetchabun	819

MAE KLONG RIVER BASIN

82	K.12	Lam Ta Phoen at Ban Thung Na Nang Rok, Kanchanaburi	820
83	K.17	Lam Phachi at Ban Bo, Ratchaburi	821
84	K.31	Huai Mae Nam Noi at Ban Nam Chon, Kanchanaburi	822
85	K.32A	Huai Bong Ti at Ban Bong Ti, Kanchanaburi	823
86	K.38A	Huai Lin Thin at Ban Nong Bang, Kanchanaburi	824

XIX

87	K.39	Huai Ong Thi at Ban Ong Thi, Kanchanaburi	825
88	K.50	Huai Diso at Ban Hin Laem, Kanchanaburi	826
89	K.53	Huai Mae Kraban at Ban Si Mong Khon, Kanchanaburi	827
90	K.60	Huai Kui Mang at Ban Kui Mang, Kanchanaburi	828
91	K.61	Lam Phachi at Chom Bung, Ratchaburi	829
<u>PRACHIN BURI RIVER BASIN</u>			
92	Kgt.9	Khlong Phra Sathung at Ban Khao Chakan, Sa Kaeo	830
93	Kgt.12	Khlong Phra Prong at Ban Kaeng, Sa Kaeo	831
94	Kgt.13A	Khlong Phra Prong at Ban Non Suk Phum, Prachin Buri	832
95	Kgt.14	Huai Yang at Ban Thung Faek, Prachin Buri	833
96	Kgt.42	Khlong Phra Sathung at Ban Tharapha, Sa Kaeo	834
<u>BANG PAKONG RIVER BASIN</u>			
97	Ny.3	Lower Khlong Ban Na at Ban Pa Kha, Nakhon Nayok	835
98	Ny.4	Khlong Samo Pun at Ban Noen Hom, Prachin Buri	836
99	Ny.6	Upper Khlong Ban at Ban Cha Om, Saraburi	837
<u>EAST COAST-GULF BASIN</u>			
100	Z.10	Khlong Yai at Ban Si Bua Thong, Trat	838
101	Z.11	Khlong Prasae at Ban Chak Khrok, Rayong	839
102	Z.13	Chanthaburi River at Ban Puk, Chanthaburi	840
103	Z.14	Khlong Phayat at Ban Chaman, Chanthaburi	841
104	Z.30	Khlong Sato at Ban Nong Bua, Trat	842
105	Z.42	Khlong Prakaet at Ban Prakaet, Chanthaburi	843
106	Z.45	Khlong Ko Lae at Ban Nong Bon, Trat	844
<u>PETCHABURI RIVER BASIN</u>			
107	B.3A	Phetchaburi River at Ban Song Phi Nong, Phetchaburi	845
108	B.6	Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi	846
<u>WEST COAST-GULF BASIN</u>			
109	Gt.9	Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan	847
110	Gt.10	Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan	848
111	Gt.11	Khlong Yai at Ban Chang Laek, Prachuap Khiri Khan	849
112	Gt.15	Huai Sai at Ban Suan Son Huai Sai, Prachuap Khiri Khan	850

SOUTHERN PENINSULA EAST COAST

113	X.53A	Khlong Chumphon at Ban Wang Phai, Chumphon	851
114	X.55	Khlong Tha Di at Ban Tha Yai, Nakhon Si Thammarat	852
115	X.70	Khlong Tan at Ban Wang Kong, Nakhon Si Thammarat	853
116	X.167	Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat	854
117	X.213	Upper Khlong Lang Suan at Ban Phato, Chumphon	855
118	X.214	Lower Khlong Lamae at Ban Thung Luang, Chumphon	856
119	X.270	Lower Khlong Tako at Ban Nong Chik, Chumphon	857

TAPI RIVER BASIN

120	X.37A	Tapi River at Ban Yan Din Daeng, Surat Thani	858
121	X.198	Khlong Sin Pun at Ban Bang Rup, Surat Thani	859
122	X.260	Khlong I - Pan at Ban Arpart, Surat Thani	860

THALE SAP SONGKHLA BASIN

123	X.67A	Khlong Rattaphum at Ban Kampheang Phet, Songkhla	861
124	X.90	Khlong U - Taphao at Ban Bang Sala, Songkhla	862
125	X.170	Khlong Lam at Ban Khlong Lam, Phatthalung	863
126	X.174	Khlong Wa at Ban Khlong Wa, Songkhla	864
127	X.240	Upper Khlong Wat at Ban Hu Rae, Songkhla	865
128	X.276	Upper Khlong Tha Nae at Ban Khao Pu, Phatthalung	866

SOUTHERN PENINSULA WEST COAST

129	X.56	Trang River at Ban Tha Pradu, Trang	867
130	X.150	Khlong Langu at Ban Tha Khian, Satun	868
131	X.190A	Khlong Bang Yai at Ban Ket Ho, Phuket	869
132	X.204	Khlong Had Sompan at Ban Hat Sompan, Ranong	870
133	X.229	Khlong Nang Noi at Ban Khaow Sea (2), Trang	871
134	X.236	Khlong Palian at Ban Yan Ta Khaow, Trang	872
135	X.245	Khlong Phangnga at Ban Bang Tong, Phangnga	873
136	X.264	Khlong Tha Prae at Ban Ta Lam, Satun	874

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.

XXII

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

XXIV

<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

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.

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.

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.

XXVII

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

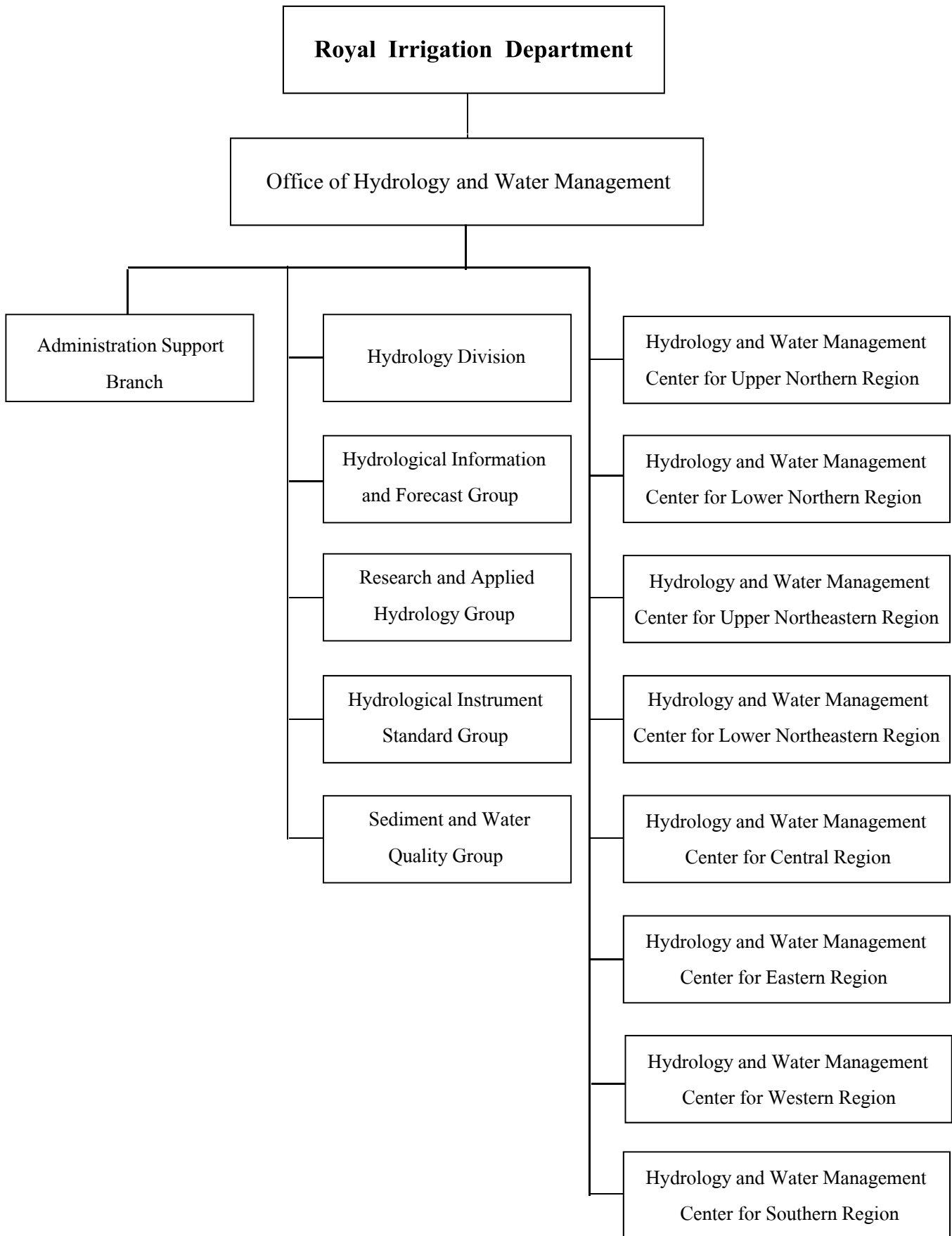
The Royal Irrigation Department (RID) has developed data system which include computerization of storage, Processing and retrieval of rainfall data since 1969. During the stream flow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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 or 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>	By	<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 ²)	10.76	square feet (ft ²)
	1.196	square yards (yd ²)
	2.47×10^{-4}	acres
	.3952	acres
rai (1,600 m ² - Thai)	.3952	acres
hectares (ha)	2.4709	acres
square hectometers (hm ²)	2.4709	acres
square kilometers (km ²)	247.1	acres
	.3861	square miles (mi ²)
<u>Volume</u>		
liters (l)	.2642	gallons (gal)
Cubic decimeters (dm ³)	.2642	gallons (gal)
	.03531	cubic feet (ft ³)
	264.2	gallons (gal)
cubic meters (m ³)	2.642×10^{-4}	million gallons (10 ⁶ gal)
	35.31	cubic feet (ft ³)
	4.086×10^{-4}	cfs - day (ft ³ / s - day)
	8.11×10^{-4}	acre - feet (acre - ft)
	264.2	million gallons (10 ⁶ gal)
cubic hectometers (hm ³)	408.6	cfs - day (ft ³ / s - day)
	811	acre - feet (acre - ft)
	811	acre - feet (acre - ft)
million cubic meters (mcm)	811	acre - feet (acre - ft)
cubic kilometers (km ³)	811×10^3	acre - feet (acre - ft)

XXXII

Multiply metric or Thai units

By

To obtain English Unit

Flow

liters per second (l/s)

.03531

cubic feet per second (ft³ / s)

15.85

gallons per minute (gpm)

cubic decimeters per second (dm³ / s)

.03531

cubic feet per second (ft³ / s)

15.85

gallons per minute (gpm)

22.82 x 10⁻³

million gallons per day (mgd)

cubic meters per second (m³ / s)

35.31

cubic feet per second (ft³ / s)

15,850

gallons per minute (gpm)

22.82

million gallons per day (mgd)

* * * * *

Stream Gauging Data

Water Year 2009

WATER YEAR : 2009
SALAWIN RIVER BASIN

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

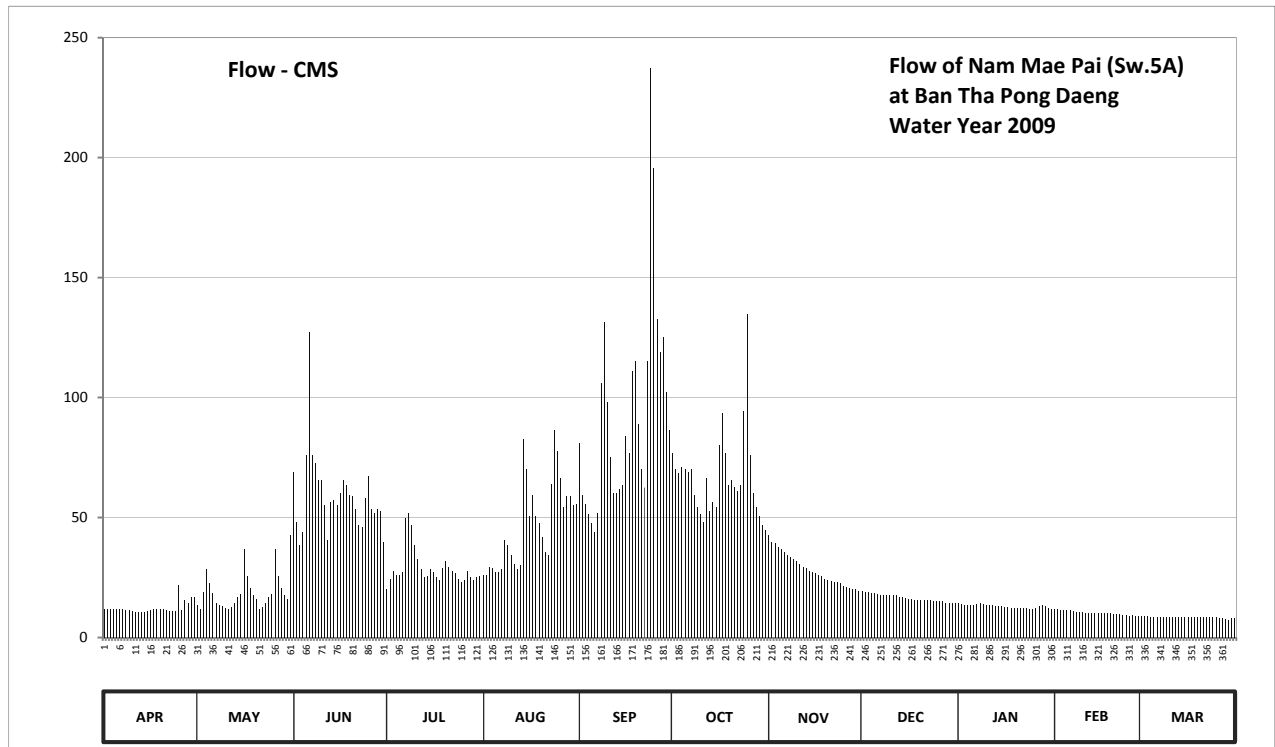
Lat 19 - 16 - 06 N Long 97 - 56 - 55 E

Location : on left bank at Ban Tha Pong Daeng.

	Ban Tha Pong Daeng	Amphoe Mueang	Changwat Mae Hong Son
Drainage Area	4,470 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+175.757 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the station office.	Elevation	+187.423 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.54	175.58	176.46	175.72	175.84	176.60	176.55	176.11	175.71	175.61	175.54	175.45	
2	175.53	175.54	176.19	175.81	175.84	176.34	176.47	176.07	175.70	175.60	175.53	175.45	
3	175.53	175.70	176.05	175.87	175.90	176.29	176.45	176.06	175.70	175.59	175.52	175.45	
4	175.54	175.88	176.13	175.84	175.89	176.23	176.48	176.04	175.69	175.59	175.52	175.44	
5	175.54	175.77	176.54	175.84	175.86	176.18	176.47	176.03	175.69	175.59	175.52	175.44	
6	175.53	175.69	177.08	175.86	175.86	176.13	176.46	176.01	175.68	175.59	175.52	175.44	
7	175.53	175.61	176.54	176.21	175.88	176.24	176.47	175.99	175.67	175.60	175.51	175.44	
8	175.52	175.59	176.50	176.24	176.08	176.87	176.34	175.97	175.67	175.61	175.50	175.43	
9	175.52	175.57	176.42	176.17	176.05	177.12	176.27	175.96	175.67	175.60	175.50	175.43	
10	175.51	175.55	176.42	176.05	175.99	176.79	176.23	175.94	175.67	175.59	175.50	175.44	
11	175.50	175.54	176.28	175.96	175.92	176.53	176.19	175.92	175.67	175.58	175.49	175.43	
12	175.50	175.56	176.08	175.88	175.88	176.35	176.43	175.90	175.67	175.58	175.48	175.43	
13	175.50	175.61	176.30	175.82	175.91	176.35	176.25	175.89	175.66	175.57	175.49	175.43	
14	175.50	175.66	176.31	175.83	176.62	176.37	176.30	175.87	175.66	175.57	175.48	175.43	
15	175.51	175.68	176.28	175.88	176.47	176.39	176.27	175.86	175.65	175.57	175.48	175.43	
16	175.52	176.03	176.35	175.86	176.22	176.63	176.59	175.85	175.64	175.56	175.48	175.43	
17	175.53	175.83	176.42	175.82	176.34	176.55	176.74	175.84	175.64	175.56	175.48	175.43	
18	175.54	175.73	176.39	175.80	176.22	176.92	176.55	175.83	175.63	175.55	175.48	175.43	
19	175.53	175.67	176.34	175.89	176.18	176.96	176.39	175.81	175.63	175.55	175.48	175.43	
20	175.53	175.64	176.33	175.94	176.10	176.69	176.42	175.80	175.63	175.55	175.47	175.43	
21	175.52	175.54	176.26	175.90	176.01	176.47	176.38	175.79	175.63	175.55	175.47	175.43	
22	175.51	175.56	176.17	175.87	175.99	176.38	176.36	175.78	175.63	175.55	175.47	175.43	
23	175.51	175.61	176.16	175.85	176.40	176.96	176.39	175.78	175.63	175.55	175.46	175.44	
24	175.51	175.66	176.32	175.81	176.66	177.98	176.75	175.77	175.62	175.54	175.46	175.44	
25	175.76	175.68	176.44	175.78	176.56	177.66	177.15	175.75	175.62	175.53	175.45	175.43	
26	175.52	176.03	176.26	175.80	176.43	177.13	176.54	175.74	175.62	175.55	175.46	175.42	
27	175.63	175.83	176.24	175.87	176.27	177.00	176.35	175.73	175.62	175.57	175.45	175.42	
28	175.61	175.73	176.26	175.82	176.33	177.06	176.27	175.72	175.61	175.59	175.45	175.41	
29	175.66	175.67	176.25	175.80	176.33	176.83	176.22	175.72	175.61	175.57		175.40	
30	175.66	175.64	176.07	175.82	176.28	176.66	176.17	175.71	175.61	175.55		175.42	
31		176.11		175.83	176.29		176.14		175.61	175.53		175.42	
Mean	175.54	175.69	176.33	175.89	176.15	176.69	176.42	175.87	175.65	175.57	175.49	175.43	
Max	175.76	176.11	177.08	176.24	176.66	177.98	177.15	176.11	175.71	175.61	175.54	175.45	177.98
Min	175.50	175.54	176.05	175.72	175.84	176.13	176.14	175.71	175.61	175.53	175.45	175.40	175.40
Annual Max Momentary Gage Height	178.41		m. (MSL.) ,				at 17.00 Hours , on Sep 24 , 2009						
Zero Gage at Bottom Elevation	175.76		m. (MSL.) ,			River Bed	174.65	m. (MSL)					
Left Bank Elevation		183.86		m. (MSL.) ,									
Right Bank Elevation		181.59		m. (MSL.) ,		Drainage Area	4470	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.00	13.33	69.10	20.00	26.20	81.00	76.75	42.70	19.50	14.50	12.00	9.00		
2	11.67	12.00	48.30	24.55	26.20	59.50	69.95	39.90	19.00	14.00	11.67	9.00		
3	11.67	19.00	38.50	27.85	29.50	55.75	68.25	39.20	19.00	13.67	11.33	9.00		
4	12.00	28.40	44.10	26.20	28.95	51.25	70.80	37.80	18.50	13.67	11.33	8.67		
5	12.00	22.50	75.90	26.20	27.30	47.60	69.95	37.10	18.50	13.67	11.33	8.67		
6	11.67	18.50	127.40	27.30	27.30	44.10	69.10	35.70	18.00	13.67	11.33	8.67		
7	11.67	14.50	75.90	49.75	28.40	52.00	69.95	34.45	17.50	14.00	11.00	8.67		
8	11.33	13.67	72.50	52.00	40.60	106.00	59.50	33.35	17.50	14.50	10.67	8.33		
9	11.33	13.00	65.70	46.90	38.50	131.60	54.25	32.80	17.50	14.00	10.67	8.33		
10	11.00	12.33	65.70	38.50	34.45	98.10	51.25	31.70	17.50	13.67	10.67	8.67		
11	10.67	12.00	55.00	32.80	30.60	75.05	48.30	30.60	17.50	13.33	10.33	8.33		
12	10.67	12.67	40.60	28.40	28.40	60.25	66.55	29.50	17.50	13.33	10.00	8.33		
13	10.67	14.50	56.50	25.10	30.05	60.25	52.75	28.95	17.00	13.00	10.33	8.33		
14	10.67	17.00	57.25	25.65	82.80	61.75	56.50	27.85	17.00	13.00	10.00	8.33		
15	11.00	18.00	55.00	28.40	69.95	63.25	54.25	27.30	16.50	13.00	10.00	8.33		
16	11.33	37.10	60.25	27.30	50.50	83.70	80.15	26.75	16.00	12.67	10.00	8.33		
17	11.67	25.65	65.70	25.10	59.50	76.75	93.60	26.20	16.00	12.67	10.00	8.33		
18	12.00	20.50	63.25	24.00	50.50	111.00	76.75	25.65	15.50	12.33	10.00	8.33		
19	11.67	17.50	59.50	28.95	47.60	115.00	63.25	24.55	15.50	12.33	10.00	8.33		
20	11.67	16.00	58.75	31.70	42.00	89.10	65.70	24.00	15.50	12.33	9.67	8.33		
21	11.33	12.00	53.50	29.50	35.70	69.95	62.50	23.50	15.50	12.33	9.67	8.33		
22	11.00	12.67	46.90	27.85	34.45	62.50	61.00	23.00	15.50	12.33	9.67	8.33		
23	11.00	14.50	46.20	26.75	64.00	115.00	63.25	23.00	15.50	12.33	9.33	8.67		
24	11.00	17.00	58.00	24.55	86.40	237.40	94.50	22.50	15.00	12.00	9.33	8.67		
25	22.00	18.00	67.40	23.00	77.60	195.80	134.75	21.50	15.00	11.67	9.00	8.33		
26	11.33	37.10	53.50	24.00	66.55	132.65	75.90	21.00	15.00	12.33	9.33	8.00		
27	15.50	25.65	52.00	27.85	54.25	119.00	60.25	20.50	15.00	13.00	9.00	8.00		
28	14.50	20.50	53.50	25.10	58.75	125.30	54.25	20.00	14.50	13.67	9.00	7.67		
29	17.00	17.50	52.75	24.00	58.75	102.00	50.50	20.00	14.50	13.00		7.33		
30	17.00	16.00	39.90	25.10	55.00	86.40	46.90	19.50	14.50	12.33		8.00		
31		42.70		25.65	55.75		44.80		14.50	11.67		8.00		
Total	370.02	591.77	1778.55	900.00	1446.50	2769.00	2066.15	850.55	511.00	404.00	286.66	259.64	12233.84	CMSDAY
Mean	12.33	19.09	59.28	29.03	46.66	92.30	66.65	28.35	16.48	13.03	10.24	8.38	33.52	CMS
Max	22.00	42.70	127.40	52.00	86.40	237.40	134.75	42.70	19.50	14.50	12.00	9.00	237.40	CMS
Min	10.67	12.00	38.50	20.00	26.20	44.10	44.80	19.50	14.50	11.67	9.00	7.33	7.33	CMS
Runoff	31.97	51.13	153.67	77.76	124.98	239.24	178.52	73.49	44.15	34.91	24.77	22.43	1057.00	MCM
Momentary Peak	297.40 CMS. at 178.41 m. (MSL.) at 17.00 Hours , on Sep 24 , 2009													
Runoff Yield	7.50 Liters/Second/Square KM.			Momentary Peak Yield			66.532 Liters/Second/Square KM.							

WATER YEAR : 2009
SALAWIN RIVER BASIN

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

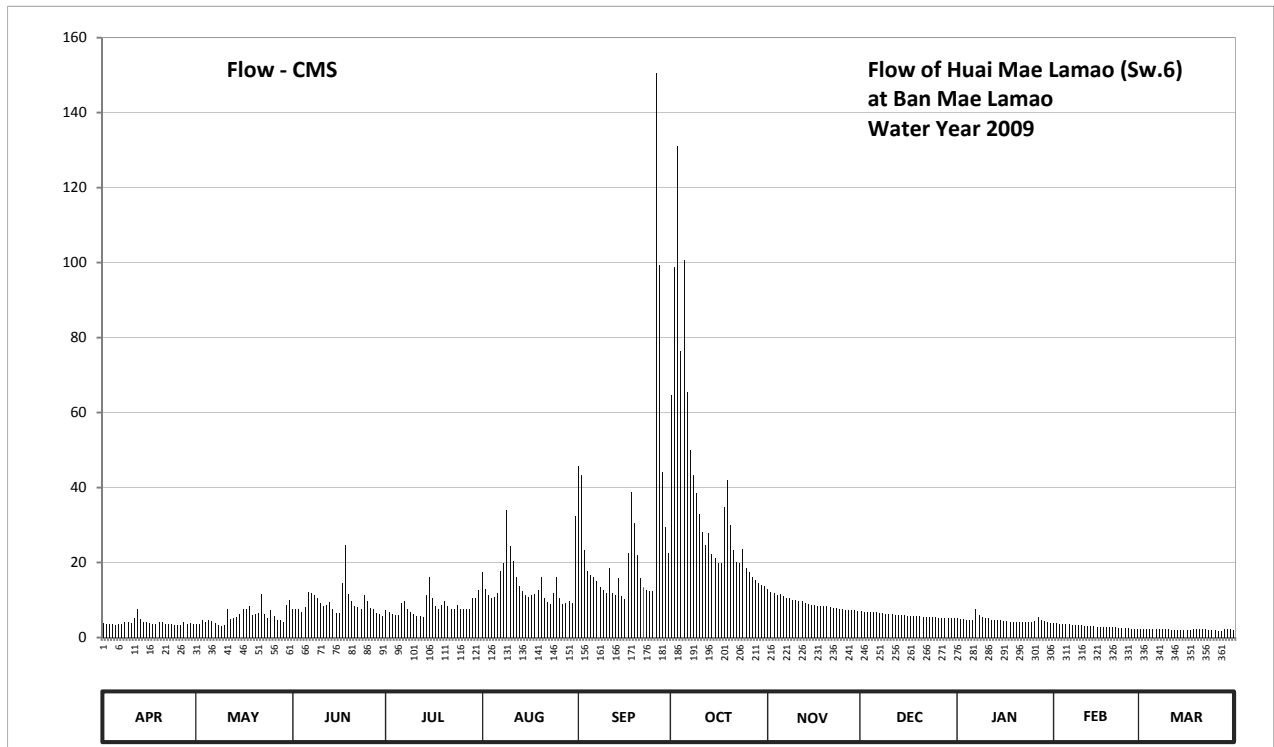
Lat 16 - 45 - 36 N Long 98 - 45 - 16 E

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

	Ban	Mae Lamao	Amphoe	Mae Sot	Changwat	Tak
Drainage Area	1,009	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+268.470 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	About 6.25 meters from the automatic gage buiding.				Elevation	+278.843 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1971 to date					
Rating Operation						
Period of Rating	1971 to date					
Rated by Flot	-					
Rated by Current Meter	1971 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.85	268.83	269.07	269.05	269.54	270.34	270.79	269.35	269.03	268.92	268.85	268.76	
2	268.84	268.84	269.06	269.01	269.34	270.28	271.43	269.31	269.02	268.91	268.85	268.76	
3	268.83	268.90	269.06	268.99	269.26	269.74	271.97	269.29	269.02	268.91	268.84	268.76	
4	268.83	268.87	269.01	268.97	269.23	269.55	271.03	269.26	269.01	268.90	268.84	268.75	
5	268.82	268.89	269.09	268.97	269.24	269.51	271.46	269.28	269.01	268.90	268.83	268.75	
6	268.83	268.88	269.31	269.15	269.29	269.48	270.81	269.25	269.01	268.90	268.83	268.75	
7	268.83	268.85	269.29	269.18	269.55	269.44	270.45	269.23	269.00	269.07	268.82	268.75	
8	268.87	268.82	269.26	269.07	269.63	269.37	270.28	269.23	269.00	268.97	268.82	268.75	
9	268.86	268.80	269.22	269.01	270.05	269.33	270.16	269.20	268.99	268.94	268.81	268.75	
10	268.85	268.82	269.15	268.99	269.78	269.29	270.02	269.20	268.99	268.93	268.81	268.75	
11	268.93	269.07	269.11	268.96	269.65	269.58	269.89	269.18	268.98	268.92	268.80	268.74	
12	269.06	268.91	269.13	268.95	269.49	269.30	269.79	269.18	268.97	268.90	268.80	268.74	
13	268.91	268.92	269.17	268.94	269.39	269.27	269.88	269.16	268.97	268.90	268.80	268.74	
14	268.87	268.94	269.06	269.26	269.32	269.47	269.71	269.14	268.97	268.90	268.80	268.74	
15	268.86	268.99	269.00	269.49	269.26	269.25	269.67	269.13	268.97	268.89	268.79	268.74	
16	268.85	269.06	269.00	269.23	269.24	269.21	269.63	269.12	268.96	268.88	268.79	268.74	
17	268.83	269.06	269.42	269.11	269.27	269.72	269.63	269.11	268.96	268.88	268.79	268.74	
18	268.83	269.10	269.79	269.06	269.28	270.17	270.07	269.11	268.96	268.87	268.79	268.75	
19	268.87	268.97	269.28	269.12	269.33	269.96	270.25	269.10	268.96	268.87	268.79	268.75	
20	268.86	268.98	269.18	269.19	269.49	269.70	269.94	269.10	268.95	268.87	268.78	268.75	
21	268.84	269.00	269.10	269.10	269.23	269.47	269.74	269.09	268.94	268.87	268.78	268.75	
22	268.83	269.28	269.09	269.07	269.17	269.37	269.64	269.08	268.94	268.87	268.77	268.75	
23	268.83	268.99	269.06	269.07	269.14	269.33	269.63	269.08	268.94	268.87	268.77	268.74	
24	268.81	268.93	269.26	269.12	269.29	269.32	269.75	269.07	268.94	268.86	268.77	268.74	
25	268.81	269.05	269.18	269.07	269.48	269.32	269.58	269.06	268.94	268.86	268.77	268.74	
26	268.81	268.95	269.08	269.06	269.22	272.28	269.54	269.05	268.93	268.88	268.76	268.72	
27	268.87	268.90	269.06	269.06	269.14	271.44	269.49	269.05	268.93	268.94	268.76	268.72	
28	268.84	268.89	269.00	269.06	269.16	270.30	269.45	269.04	268.93	268.89	268.76	268.75	
29	268.85	268.87	268.99	269.22	269.19	269.93	269.42	269.04	268.93	268.88		268.75	
30	268.83	269.12	268.95	269.22	269.15	269.72	269.40	269.03	268.93	268.86		268.75	
31		269.20		269.33	270.01		269.38		268.93	268.85		268.74	
Mean	268.85	268.96	269.15	269.10	269.38	269.75	270.06	269.15	268.97	268.90	268.80	268.75	
Max	269.06	269.28	269.79	269.49	270.05	272.28	271.97	269.35	269.03	269.07	268.85	268.76	272.28
Min	268.81	268.80	268.95	268.94	269.14	269.21	269.38	269.03	268.93	268.85	268.76	268.72	268.72
Annual Max Momentary Gage Height		273.52		m. (MSL.) ,			at 09.00 Hours , on Sep 26 , 2009						
Zero Gage at Bottom Elevation		268.47		m. (MSL.) ,		River Bed	268.01		m. (MSL)				
Left Bank Elevation		277.32		m. (MSL.) ,									
Right Bank Elevation		276.52		m. (MSL.) ,		Drainage Area	1009		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.88	3.52	7.73	7.37	17.50	45.60	64.55	13.00	7.02	5.10	3.88	2.40	
2	3.70	3.70	7.55	6.68	12.80	43.20	98.80	12.20	6.85	4.93	3.88	2.40	
3	3.52	4.75	7.55	6.32	11.20	23.20	131.20	11.80	6.85	4.93	3.70	2.40	
4	3.52	4.23	6.68	5.98	10.60	17.75	76.50	11.20	6.68	4.75	3.70	2.25	
5	3.35	4.58	8.07	5.98	10.80	16.75	100.60	11.60	6.68	4.75	3.52	2.25	
6	3.52	4.40	12.20	9.12	11.80	16.00	65.50	11.00	6.68	4.75	3.52	2.25	
7	3.52	3.88	11.80	9.65	17.75	15.00	50.00	10.60	6.50	7.73	3.35	2.25	
8	4.23	3.35	11.20	7.73	19.90	13.40	43.20	10.60	6.50	5.98	3.35	2.25	
9	4.05	3.00	10.40	6.68	34.00	12.60	38.40	10.00	6.32	5.45	3.18	2.25	
10	3.88	3.35	9.12	6.32	24.40	11.80	32.80	10.00	6.32	5.27	3.18	2.25	
11	5.27	7.73	8.42	5.80	20.50	18.50	28.15	9.65	6.15	5.10	3.00	2.10	
12	7.55	4.93	8.77	5.63	16.25	12.00	24.70	9.65	5.98	4.75	3.00	2.10	
13	4.93	5.10	9.48	5.45	13.80	11.40	27.80	9.30	5.98	4.75	3.00	2.10	
14	4.23	5.45	7.55	11.20	12.40	15.75	22.30	8.95	5.98	4.75	3.00	2.10	
15	4.05	6.32	6.50	16.25	11.20	11.00	21.10	8.77	5.98	4.58	2.85	2.10	
16	3.88	7.55	6.50	10.60	10.80	10.20	19.90	8.60	5.80	4.40	2.85	2.10	
17	3.52	7.55	14.50	8.42	11.40	22.60	19.90	8.42	5.80	4.40	2.85	2.10	
18	3.52	8.25	24.70	7.55	11.60	38.80	34.80	8.42	5.80	4.23	2.85	2.25	
19	4.23	5.98	11.60	8.60	12.60	30.60	42.00	8.25	5.80	4.23	2.85	2.25	
20	4.05	6.15	9.65	9.82	16.25	22.00	29.90	8.25	5.63	4.23	2.70	2.25	
21	3.70	6.50	8.25	8.25	10.60	15.75	23.20	8.07	5.45	4.23	2.70	2.25	
22	3.52	11.60	8.07	7.73	9.48	13.40	20.20	7.90	5.45	4.23	2.55	2.25	
23	3.52	6.32	7.55	7.73	8.95	12.60	19.90	7.90	5.45	4.23	2.55	2.10	
24	3.18	5.27	11.20	8.60	11.80	12.40	23.50	7.73	5.45	4.05	2.55	2.10	
25	3.18	7.37	9.65	7.73	16.00	12.40	18.50	7.55	5.45	4.05	2.55	2.10	
26	3.18	5.63	7.90	7.55	10.40	150.60	17.50	7.37	5.27	4.40	2.40	1.80	
27	4.23	4.75	7.55	7.55	8.95	99.40	16.25	7.37	5.27	5.45	2.40	1.80	
28	3.70	4.58	6.50	7.55	9.30	44.00	15.25	7.20	5.27	4.58	2.40	2.25	
29	3.88	4.23	6.32	10.40	9.82	29.55	14.50	7.20	5.27	4.40		2.25	
30	3.52	8.60	5.63	10.40	9.12	22.60	14.00	7.02	5.27	4.05		2.25	
31		10.00		12.60	32.40		13.60		5.27	3.88		2.10	
Total	118.01	178.62	278.59	257.24	444.37	820.85	1168.50	275.57	184.17	146.61	84.31	67.65	4024.49 CMSDAY
Mean	3.93	5.76	9.29	8.30	14.33	27.36	37.69	9.19	5.94	4.73	3.01	2.18	11.03 CMS
Max	7.55	11.60	24.70	16.25	34.00	150.60	131.20	13.00	7.02	7.73	3.88	2.40	150.60 CMS
Min	3.18	3.00	5.63	5.45	8.95	10.20	13.60	7.02	5.27	3.88	2.40	1.80	1.80 CMS
Runoff	10.20	15.43	24.07	22.23	38.39	70.92	100.96	23.81	15.91	12.67	7.28	5.85	347.72 MCM
Momentary Peak	240.60 CMS. at 273.52 m. (MSL.) at 09.00 Hours , on Sep 26 , 2009												
Runoff Yield	10.93 Liters/Second/Square KM.			Momentary Peak Yield				238.454 Liters/Second/Square KM.					

WATER YEAR : 2009

KHONG RIVER BASIN

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

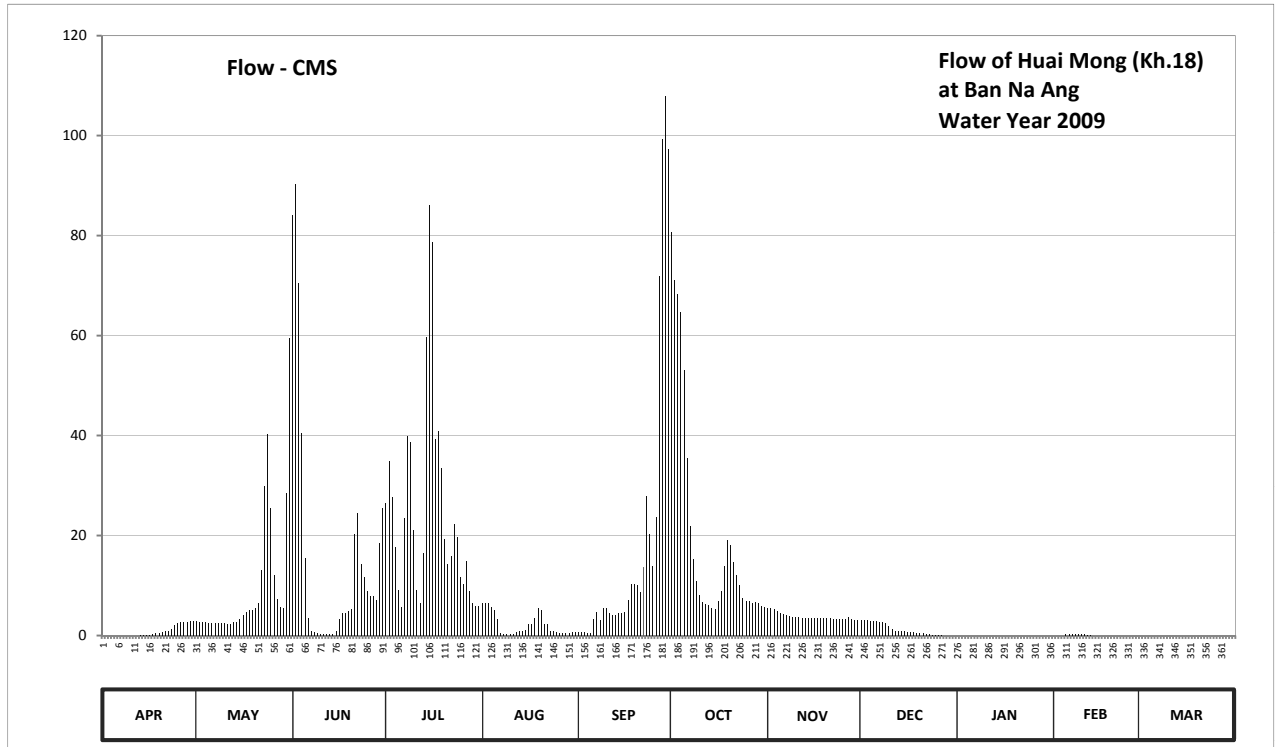
Lat 17 - 34 - 41 N Long 102 - 20 - 22 E

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

	Ban	Na Ang	Amphoe	Ban Phu	Changwat	Udon Thani
Drainage Area	1,309	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+183.430 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the automatic gage building.				Elevation	+191.432 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1957 to date					
Rating Operation						
Period of Rating	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date					
Rated by Flot	-					
Rated by Current Meter	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +191.350 m.(MSL.) , records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	185.08	186.26	190.63	188.25	186.78	185.79	190.52	186.65	186.30	185.10	184.84	184.56	
2	185.06	186.25	190.82	188.69	186.78	185.75	190.18	186.63	186.29	185.09	184.92	184.53	
3	185.05	186.24	190.16	188.32	186.79	185.67	190.08	186.61	186.29	185.07	185.03	184.48	
4	185.04	186.23	188.97	187.69	186.66	185.58	189.95	186.54	186.28	185.01	185.19	184.44	
5	185.07	186.21	187.54	187.05	186.58	185.61	189.50	186.51	186.28	184.91	185.38	184.42	
6	185.13	186.21	186.35	186.67	186.34	186.33	188.72	186.47	186.26	184.87	185.48	184.40	
7	185.15	186.20	185.91	188.08	185.54	186.53	188.00	186.45	186.25	184.91	185.47	184.38	
8	185.16	186.20	185.72	188.94	185.48	186.29	187.52	186.41	186.24	184.92	185.46	184.37	
9	185.17	186.20	185.55	188.88	185.44	186.65	187.18	186.39	186.21	184.93	185.45	184.35	
10	185.18	186.21	185.51	187.94	185.44	186.63	186.97	186.38	186.14	184.93	185.44	184.32	
11	185.19	186.19	185.51	187.04	185.49	186.49	186.81	186.38	186.04	184.94	185.41	184.29	
12	185.20	186.19	185.46	186.80	185.70	186.44	186.76	186.36	186.00	184.97	185.32	184.27	
13	185.21	186.23	185.44	187.60	185.85	186.44	186.72	186.36	185.98	184.95	185.22	184.25	
14	185.22	186.25	185.46	189.76	185.96	186.49	186.65	186.36	185.93	184.95	185.14	184.23	
15	185.25	186.34	185.94	190.69	186.01	186.49	186.62	186.35	185.86	184.95	185.09	184.22	
16	185.35	186.44	186.33	190.45	186.17	186.52	186.85	186.35	185.81	184.95	185.06	184.21	
17	185.45	186.52	186.49	188.91	186.18	186.88	187.03	186.35	185.76	184.94	184.99	184.20	
18	185.55	186.58	186.49	188.99	186.35	187.13	187.42	186.35	185.69	184.93	184.96	184.19	
19	185.65	186.59	186.56	188.62	186.65	187.14	187.79	186.37	185.65	184.93	184.94	184.18	
20	185.75	186.64	186.60	187.81	186.58	187.12	187.72	186.36	185.59	184.89	184.92	184.17	
21	185.85	186.79	187.88	187.45	186.18	187.01	187.47	186.35	185.52	184.86	184.89	184.17	
22	185.95	187.35	188.14	187.56	186.18	187.40	187.28	186.33	185.44	184.86	184.84	184.17	
23	186.05	188.44	187.45	188.02	185.89	188.33	187.12	186.33	185.38	184.85	184.77	184.18	
24	186.15	188.96	187.25	187.83	185.90	187.88	186.91	186.33	185.33	184.85	184.73	184.18	
25	186.21	188.19	187.03	187.24	185.75	187.42	186.84	186.32	185.28	184.85	184.69	184.16	
26	186.23	187.27	186.95	187.13	185.64	188.09	186.83	186.33	185.25	184.84	184.68	184.15	
27	186.24	186.90	186.95	187.49	185.56	190.21	186.80	186.38	185.22	184.84	184.67	184.14	
28	186.24	186.67	186.87	187.03	185.54	191.10	186.81	186.34	185.20	184.84	184.64	184.12	
29	186.26	186.64	187.75	186.78	185.64	191.35	186.78	186.31	185.17	184.83		184.08	
30	186.27	188.36	188.19	186.71	185.72	191.04	186.70	186.31	185.15	184.83		184.06	
31	189.75		186.70	185.79			186.66		185.12	184.83		184.07	
Mean	185.55	186.82	187.06	187.97	186.02	187.26	187.59	186.40	185.77	184.92	185.06	184.26	
Max	186.27	189.75	190.82	190.69	186.79	191.35	190.52	186.65	186.30	185.10	185.48	184.56	191.35
Min	185.04	186.19	185.44	186.67	185.44	185.58	186.62	186.31	185.12	184.83	184.64	184.06	184.06
Annual Max Momentary Gage Height	191.40		m. (MSL.) ,				at 06.00 Hours , on Sep 29 , 2009						
Zero Gage at Bottom Elevation	183.43		m. (MSL.) ,			River Bed	181.70		m. (MSL)				
Left Bank Elevation	191.35		m. (MSL.) ,										
Right Bank Elevation	192.31		m. (MSL.) ,			Drainage Area	1309		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.82	84.16	26.50	6.46	0.74	80.64	5.55	3.10	0.00	0.00	0.00	
2	0.00	2.75	90.24	34.80	6.46	0.69	71.04	5.41	3.03	0.00	0.00	0.00	
3	0.00	2.68	70.48	27.76	6.53	0.59	68.24	5.27	3.03	0.00	0.00	0.00	
4	0.00	2.61	40.40	17.66	5.62	0.48	64.70	4.78	2.96	0.00	0.00	0.00	
5	0.00	2.47	15.56	9.15	5.06	0.51	53.00	4.57	2.96	0.00	0.23	0.00	
6	0.00	2.47	3.45	5.69	3.38	3.31	35.40	4.29	2.82	0.00	0.35	0.00	
7	0.00	2.40	0.89	23.44	0.42	4.71	22.00	4.15	2.75	0.00	0.34	0.00	
8	0.00	2.40	0.65	39.80	0.35	3.03	15.28	3.87	2.68	0.00	0.33	0.00	
9	0.00	2.40	0.44	38.60	0.30	5.55	10.84	3.73	2.47	0.00	0.31	0.00	
10	0.00	2.47	0.39	21.16	0.30	5.41	8.14	3.66	1.98	0.00	0.30	0.00	
11	0.00	2.33	0.39	9.02	0.36	4.43	6.67	3.66	1.28	0.00	0.26	0.00	
12	0.00	2.33	0.33	6.60	0.62	4.08	6.32	3.52	1.00	0.00	0.15	0.00	
13	0.01	2.61	0.30	16.40	0.81	4.08	6.04	3.52	0.97	0.00	0.03	0.00	
14	0.03	2.75	0.33	59.76	0.95	4.43	5.55	3.52	0.91	0.00	0.00	0.00	
15	0.06	3.38	0.93	86.08	1.07	4.43	5.34	3.45	0.83	0.00	0.00	0.00	
16	0.19	4.08	3.31	78.60	2.19	4.64	6.95	3.45	0.76	0.00	0.00	0.00	
17	0.31	4.64	4.43	39.20	2.26	7.16	8.89	3.45	0.70	0.00	0.00	0.00	
18	0.44	5.06	4.43	40.80	3.45	10.19	13.96	3.45	0.61	0.00	0.00	0.00	
19	0.56	5.13	4.92	33.40	5.55	10.32	19.06	3.59	0.56	0.00	0.00	0.00	
20	0.69	5.48	5.20	19.34	5.06	10.06	18.08	3.52	0.49	0.00	0.00	0.00	
21	0.81	6.53	20.32	14.35	2.26	8.63	14.61	3.45	0.40	0.00	0.00	0.00	
22	0.94	13.05	24.52	15.84	2.26	13.70	12.14	3.31	0.30	0.00	0.00	0.00	
23	1.35	29.92	14.35	22.36	0.86	27.94	10.06	3.31	0.23	0.00	0.00	0.00	
24	2.05	40.20	11.75	19.62	0.87	20.32	7.42	3.31	0.16	0.00	0.00	0.00	
25	2.47	25.42	8.89	11.62	0.69	13.96	6.88	3.24	0.10	0.00	0.00	0.00	
26	2.61	12.01	7.90	10.19	0.55	23.62	6.81	3.31	0.06	0.00	0.00	0.00	
27	2.68	7.30	7.90	14.87	0.45	71.88	6.60	3.66	0.03	0.00	0.00	0.00	
28	2.68	5.69	7.09	8.89	0.42	99.40	6.67	3.38	0.00	0.00	0.00	0.00	
29	2.82	5.48	18.50	6.46	0.55	107.90	6.46	3.17	0.00	0.00	0.00	0.00	
30	2.89	28.48	25.42	5.97	0.65	97.36	5.90	3.17	0.00	0.00	0.00	0.00	
31		59.50		5.90	0.74		5.62		0.00	0.00		0.00	
Total	23.59	296.84	477.87	769.83	67.50	573.55	615.31	113.72	37.17	0.00	2.30	0.00	2977.68 CMSDAY
Mean	0.79	9.58	15.93	24.83	2.18	19.12	19.85	3.79	1.20	0.00	0.08	0.00	8.16 CMS
Max	2.89	59.50	90.24	86.08	6.53	107.90	80.64	5.55	3.10	0.00	0.35	0.00	107.90 CMS
Min	0.00	2.33	0.30	5.69	0.30	0.48	5.34	3.17	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.04	25.65	41.29	66.51	5.83	49.56	53.16	9.83	3.21	0.00	0.20	0.00	257.27 MCM
Momentary Peak	109.60 CMS. at 191.40 m. (MSL.) at 06.00 Hours , on Sep 29 , 2009												
Runoff Yield	6.23 Liters/Second/Square KM.			Momentary Peak Yield			83.728 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

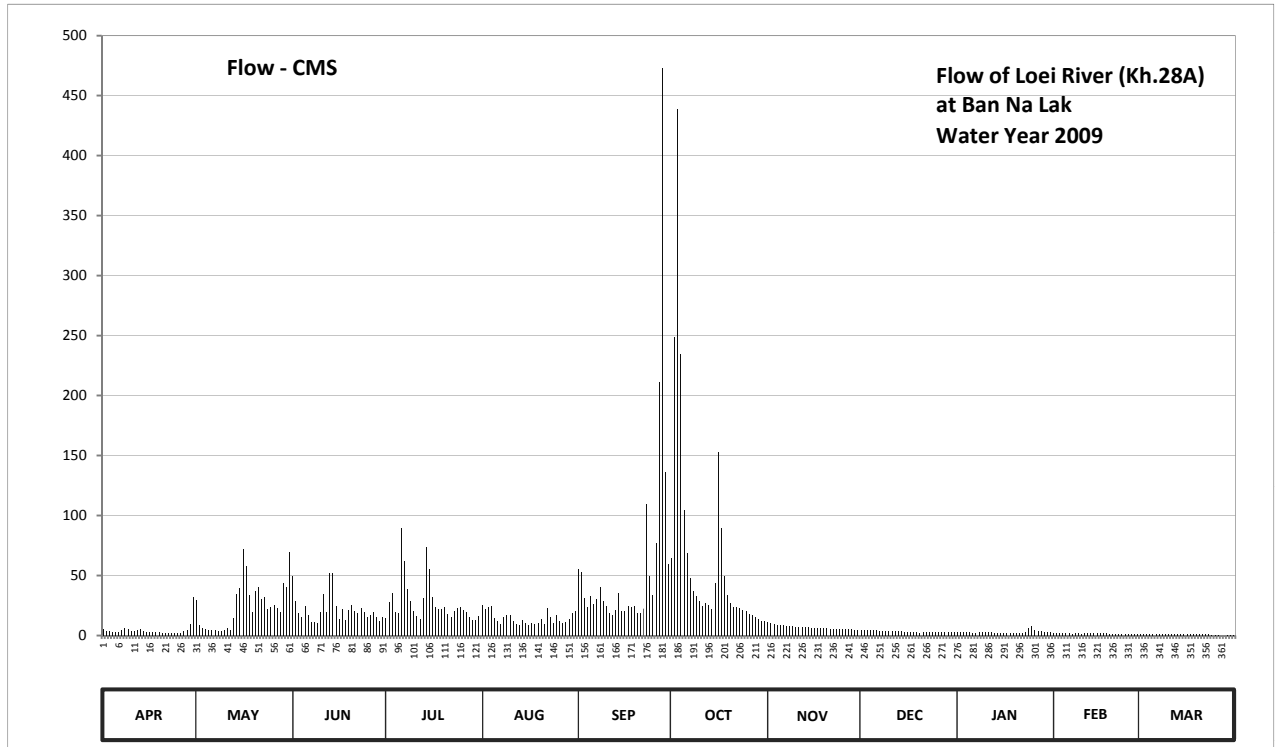
Lat 17 - 18 - 32 N Long 101 - 46 - 25 E

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

	Ban	Na Lak	Amphoe	Wang Saphung	Changwat	Loei
Drainage Area	1,271	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+239.620 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank upstream at the footpath of the bridge.				Elevation	+252.730 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1994 to date					
Rating Operation						
Period of Rating	1994 to date					
Rated by Flot	-					
Rated by Current Meter	1994 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +245.840 m.(MSL.) , records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.81	240.74	241.28	240.25	240.60	241.43	241.63	240.13	239.78	239.66	239.62	239.53	
2	239.73	240.05	240.72	240.68	240.49	241.37	244.36	240.10	239.77	239.66	239.62	239.55	
3	239.71	239.90	240.40	240.92	240.54	240.79	246.24	240.07	239.76	239.67	239.61	239.55	
4	239.67	239.81	240.27	240.42	240.59	240.55	244.20	240.04	239.76	239.66	239.61	239.54	
5	239.64	239.77	240.57	240.39	240.25	240.83	242.41	240.02	239.76	239.63	239.60	239.52	
6	239.67	239.76	240.34	242.14	240.16	240.63	241.72	240.02	239.76	239.62	239.57	239.52	
7	239.76	239.76	240.15	241.59	240.09	240.77	241.25	240.00	239.74	239.62	239.55	239.52	
8	239.87	239.74	240.13	241.02	240.27	241.07	240.98	239.98	239.73	239.66	239.61	239.53	
9	239.81	239.72	240.12	240.70	240.33	240.72	240.83	239.97	239.73	239.68	239.58	239.53	
10	239.72	239.75	240.41	240.46	240.35	240.57	240.72	239.96	239.72	239.68	239.56	239.53	
11	239.69	239.88	240.89	240.31	240.18	240.40	240.57	239.96	239.72	239.67	239.57	239.53	
12	239.77	239.79	240.41	240.23	240.09	240.32	240.65	239.94	239.72	239.64	239.57	239.53	
13	239.84	240.24	241.36	240.78	240.05	240.48	240.60	239.92	239.70	239.62	239.57	239.52	
14	239.74	240.90	241.36	241.83	240.20	240.93	240.49	239.91	239.69	239.62	239.57	239.52	
15	239.67	241.04	240.57	241.43	240.10	240.46	241.14	239.90	239.68	239.62	239.57	239.52	
16	239.66	241.80	240.23	240.82	240.05	240.45	243.16	239.90	239.67	239.62	239.59	239.52	
17	239.66	241.49	240.49	240.55	240.10	240.58	242.14	239.90	239.68	239.62	239.61	239.53	
18	239.65	240.86	240.20	240.49	240.09	240.56	241.28	239.88	239.68	239.62	239.60	239.56	
19	239.64	240.43	240.48	240.51	240.10	240.57	240.86	239.87	239.68	239.62	239.54	239.55	
20	239.61	240.98	240.61	240.54	240.23	240.38	240.65	239.86	239.60	239.62	239.54	239.52	
21	239.59	241.06	240.45	240.36	240.07	240.38	240.55	239.84	239.66	239.62	239.53	239.52	
22	239.59	240.76	240.39	240.28	240.53	240.51	240.55	239.84	239.68	239.62	239.52	239.52	
23	239.58	240.82	240.53	240.46	240.27	242.49	240.52	239.82	239.68	239.63	239.50	239.49	
24	239.58	240.49	240.41	240.52	240.12	241.28	240.48	239.82	239.67	239.89	239.53	239.46	
25	239.58	240.54	240.28	240.56	240.33	240.86	240.46	239.82	239.67	239.98	239.55	239.44	
26	239.62	240.60	240.34	240.47	240.17	241.89	240.37	239.81	239.67	239.77	239.53	239.42	
27	239.73	240.52	240.42	240.41	240.10	243.91	240.35	239.80	239.67	239.72	239.53	239.40	
28	239.79	240.41	240.29	240.28	240.15	246.53	240.28	239.80	239.66	239.69	239.54	239.40	
29	240.08	241.14	240.18	240.20	240.21	242.92	240.21	239.79	239.67	239.66		239.45	
30	240.82	241.07	240.28	240.20	240.40	241.53	240.18	239.78	239.67	239.65		239.46	
31		241.74		240.31	240.46		240.16		239.66	239.63		239.42	
Mean	239.74	240.50	240.49	240.65	240.25	241.21	241.29	239.91	239.70	239.67	239.57	239.50	
Max	240.82	241.80	241.36	242.14	240.60	246.53	246.24	240.13	239.78	239.98	239.62	239.56	246.53
Min	239.58	239.72	240.12	240.20	240.05	240.32	240.16	239.78	239.60	239.62	239.50	239.40	239.40
Annual Max Momentary Gage Height		247.11	m. (MSL.) ,					at 07.00 Hours , on Sep 28 , 2009					
Zero Gage at Bottom Elevation		239.62	m. (MSL.) ,			River Bed	238.60	m. (MSL)					
Left Bank Elevation		246.35	m. (MSL.) ,										
Right Bank Elevation		245.83	m. (MSL.) ,			Drainage Area	1271	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.15	29.68	49.20	14.50	25.20	55.20	64.24	10.90	4.70	2.90	2.30	1.30	
2	3.95	9.00	29.04	27.76	21.70	52.80	248.24	10.00	4.55	2.90	2.30	1.50	
3	3.65	6.50	19.00	35.44	23.28	31.28	439.08	9.40	4.40	3.05	2.15	1.50	
4	3.05	5.15	15.10	19.60	24.88	23.60	234.80	8.80	4.40	2.90	2.15	1.40	
5	2.60	4.55	24.24	18.70	14.50	32.56	104.96	8.40	4.40	2.45	2.00	1.20	
6	3.05	4.40	17.20	89.84	11.80	26.16	68.56	8.40	4.40	2.30	1.70	1.20	
7	4.40	4.40	11.50	62.32	9.80	30.64	48.00	8.00	4.10	2.30	1.50	1.20	
8	6.05	4.10	10.90	38.80	15.10	40.80	37.36	7.70	3.95	2.90	2.15	1.30	
9	5.15	3.80	10.60	28.40	16.90	29.04	32.56	7.55	3.95	3.20	1.80	1.30	
10	3.80	4.25	19.30	20.80	17.50	24.24	29.04	7.40	3.80	3.20	1.60	1.30	
11	3.35	6.20	34.48	16.30	12.40	19.00	24.24	7.40	3.80	3.05	1.70	1.30	
12	4.55	4.85	19.30	13.90	9.80	16.60	26.80	7.10	3.80	2.60	1.70	1.30	
13	5.60	14.20	52.40	30.96	9.00	21.40	25.20	6.80	3.50	2.30	1.70	1.20	
14	4.10	34.80	52.40	73.84	13.00	35.76	21.70	6.65	3.35	2.30	1.70	1.20	
15	3.05	39.60	24.24	55.20	10.00	20.80	43.60	6.50	3.20	2.30	1.70	1.20	
16	2.90	72.40	13.90	32.24	9.00	20.50	152.84	6.50	3.05	2.30	1.90	1.20	
17	2.90	57.60	21.70	23.60	10.00	24.56	89.84	6.50	3.20	2.30	2.15	1.30	
18	2.75	33.52	13.00	21.70	9.80	23.92	49.20	6.20	3.20	2.30	2.00	1.60	
19	2.60	19.90	21.40	22.32	10.00	24.24	33.52	6.05	3.20	2.30	1.40	1.50	
20	2.15	37.36	25.52	23.28	13.90	18.40	26.80	5.90	2.00	2.30	1.40	1.20	
21	1.90	40.40	20.50	17.80	9.40	18.40	23.60	5.60	2.90	2.30	1.30	1.20	
22	1.90	30.32	18.70	15.40	22.96	22.32	23.60	5.60	3.20	2.30	1.20	1.20	
23	1.80	32.24	22.96	20.80	15.10	109.44	22.64	5.30	3.20	2.45	1.00	0.90	
24	1.80	21.70	19.30	22.64	10.60	49.20	21.40	5.30	3.05	6.35	1.30	0.60	
25	1.80	23.28	15.40	23.92	16.90	33.52	20.80	5.30	3.05	7.70	1.50	0.40	
26	2.30	25.20	17.20	21.10	12.10	76.72	18.10	5.15	3.05	4.55	1.30	0.20	
27	3.95	22.64	19.60	19.30	10.00	210.80	17.50	5.00	3.05	3.80	1.30	0.00	
28	4.85	19.30	15.70	15.40	11.50	473.01	15.40	5.00	2.90	3.35	1.40	0.00	
29	9.60	43.60	12.40	13.00	13.30	136.04	13.30	4.85	3.05	2.90		0.50	
30	32.24	40.80	15.40	13.00	19.00	59.44	12.40	4.70	3.05	2.75		0.60	
31		69.52		16.30	20.80		11.80		2.90	2.45		0.20	
Total	136.94	765.26	661.58	868.16	449.22	1760.39	2001.12	203.95	108.35	93.05	47.30	32.00	7127.32 CMSDAY
Mean	4.56	24.69	22.05	28.01	14.49	58.68	64.55	6.80	3.50	3.00	1.69	1.03	19.53 CMS
Max	32.24	72.40	52.40	89.84	25.20	473.01	439.08	10.90	4.70	7.70	2.30	1.60	473.01 CMS
Min	1.80	3.80	10.60	13.00	9.00	16.60	11.80	4.70	2.00	2.30	1.00	0.00	0.00 CMS
Runoff	11.83	66.12	57.16	75.01	38.81	152.10	172.90	17.62	9.36	8.04	4.09	2.77	615.80 MCM
Momentary Peak	541.20 CMS. at 247.11 m. (MSL.) at 07.00 Hours , on Sep 28 , 2009												
Runoff Yield	15.36 Liters/Second/Square KM.			Momentary Peak Yield				425.806 Liters/Second/Square KM.					

WATER YEAR : 2009

KHONG RIVER BASIN

Huai Luang at Ban Nong Wua So , Udon Thani (Kh.53)

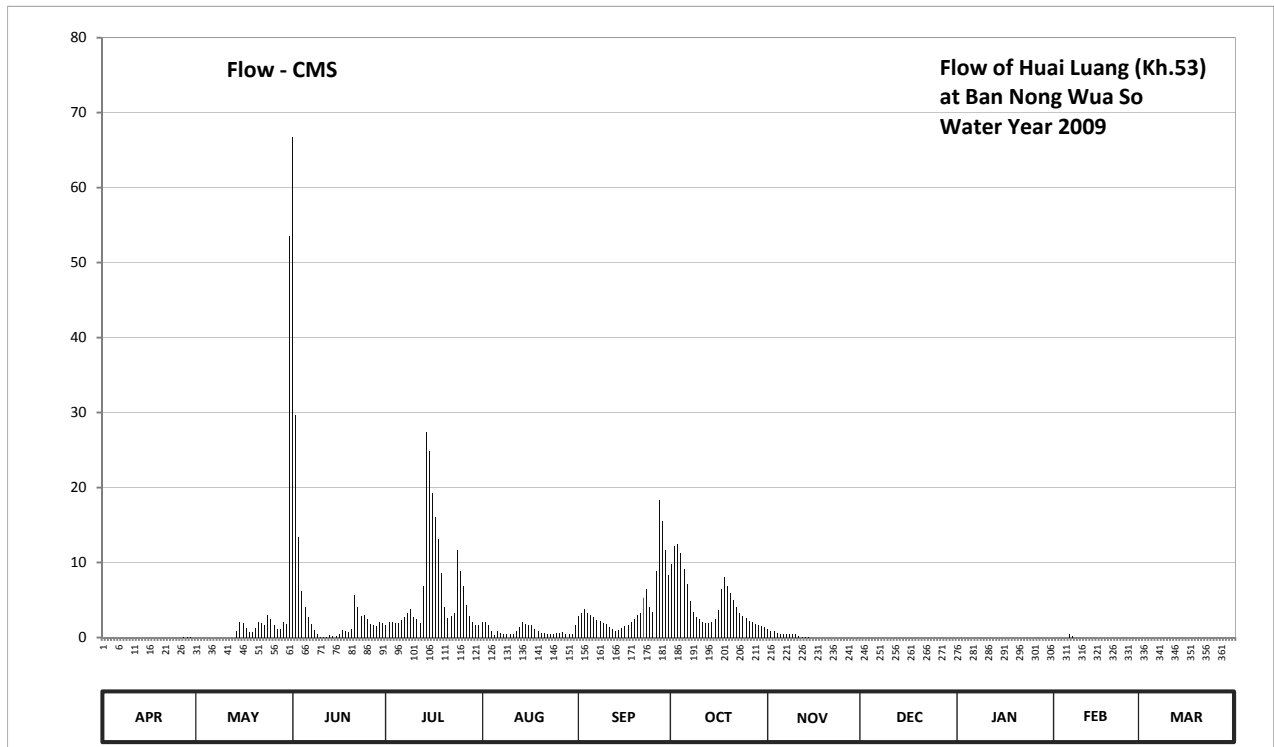
Lat 17 - 15 - 51 N Long 102 - 35 - 47 E

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

	Ban	Nong Wua So	Amphoe	Nong Wua So	Changwat	Udon Thani
Drainage Area	421	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+201.314 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	On right bank downstream side at the footpath of the bridge.				Elevation	+206.018 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1970 to date					
Rating Operation						
Period of Rating	1975 - 1986 , 1997 to date					
Rated by Flot	-					
Rated by Current Meter	1975 - 1986 , 1997 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow regulated by Huai Luang barrage. Stage-discharge relation defined by 16 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	203.85	204.08	205.91	204.27	204.31	204.39	204.66	204.22	204.09	204.09	204.07	203.97	
2	203.85	204.08	205.18	204.31	204.31	204.41	204.74	204.19	204.09	204.09	204.06	203.96	
3	203.84	204.06	204.78	204.31	204.27	204.44	204.75	204.18	204.09	204.09	204.05	203.94	
4	203.84	204.05	204.54	204.29	204.19	204.41	204.71	204.16	204.09	204.09	204.03	203.93	
5	203.83	204.04	204.45	204.29	204.13	204.40	204.64	204.15	204.09	204.09	204.00	203.92	
6	203.83	204.03	204.38	204.33	204.18	204.37	204.57	204.15	204.09	204.09	204.14	203.91	
7	203.83	204.02	204.28	204.37	204.16	204.33	204.49	204.15	204.09	204.09	204.12	203.90	
8	203.82	204.07	204.20	204.41	204.15	204.32	204.42	204.14	204.08	204.09	204.10	203.89	
9	203.81	204.10	204.15	204.44	204.15	204.29	204.38	204.14	204.08	204.09	204.09	203.89	
10	203.81	204.09	204.11	204.38	204.14	204.28	204.35	204.14	204.08	204.09	204.09	203.88	
11	203.80	204.10	204.11	204.34	204.15	204.24	204.31	204.12	204.08	204.07	204.09	203.88	
12	203.80	204.07	204.11	204.29	204.19	204.21	204.29	204.11	204.08	204.07	204.09	203.88	
13	203.80	204.09	204.13	204.56	204.24	204.19	204.29	204.11	204.08	204.06	204.08	203.87	
14	203.80	204.19	204.12	205.13	204.31	204.20	204.31	204.11	204.08	204.05	204.08	203.86	
15	203.80	204.31	204.12	205.07	204.28	204.23	204.34	204.10	204.08	204.05	204.08	203.86	
16	203.80	204.29	204.15	204.93	204.27	204.25	204.43	204.10	204.08	204.04	204.08	203.83	
17	203.80	204.23	204.20	204.85	204.27	204.27	204.55	204.10	204.08	204.02	204.07	203.81	
18	203.79	204.17	204.18	204.77	204.22	204.30	204.60	204.10	204.07	204.01	204.07	203.80	
19	203.78	204.17	204.17	204.62	204.18	204.34	204.56	204.09	204.07	204.00	204.07	203.79	
20	203.77	204.23	204.21	204.45	204.16	204.40	204.53	204.09	204.07	203.99	204.04	203.79	
21	203.76	204.30	204.52	204.36	204.16	204.41	204.50	204.09	204.07	203.99	204.04	203.79	
22	203.77	204.29	204.45	204.39	204.15	204.51	204.45	204.09	204.07	204.03	204.04	203.79	
23	203.80	204.26	204.39	204.41	204.15	204.55	204.41	204.09	204.07	204.06	204.03	203.79	
24	203.80	204.40	204.40	204.72	204.14	204.45	204.39	204.09	204.06	204.08	204.02	203.79	
25	203.82	204.35	204.35	204.63	204.16	204.42	204.36	204.09	204.06	204.08	204.01	203.80	
26	203.96	204.26	204.28	204.56	204.16	204.63	204.32	204.09	204.06	204.08	204.00	203.80	
27	204.11	204.21	204.26	204.47	204.17	204.91	204.31	204.09	204.06	204.08	204.00	203.78	
28	204.11	204.22	204.25	204.39	204.15	204.84	204.28	204.09	204.05	204.07	203.98	203.78	
29	204.11	204.31	204.30	204.30	204.15	204.72	204.26	204.09	204.05	204.07		203.76	
30	204.09	204.28	204.29	204.26	204.15	204.61	204.25	204.09	204.06	204.07		203.76	
31		205.67		204.27	204.26		204.24		204.07	204.07		203.76	
Mean	203.85	204.23	204.37	204.49	204.20	204.41	204.44	204.12	204.07	204.06	204.06	203.84	
Max	204.11	205.67	205.91	205.13	204.31	204.91	204.75	204.22	204.09	204.09	204.14	203.97	205.91
Min	203.76	204.02	204.11	204.26	204.13	204.19	204.24	204.09	204.05	203.99	203.98	203.76	203.76
Annual Max Momentary Gage Height	206.08		m. (MSL.) ,		at 18.00 Hours , on May 31 , 2009								
Zero Gage at Bottom Elevation	201.31		m. (MSL.) ,		River Bed		203.42		m. (MSL)				
Left Bank Elevation	206.44		m. (MSL.) ,										
Right Bank Elevation	207.11		m. (MSL.) ,		Drainage Area		421		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	66.70	1.70	2.10	2.90	9.80	1.20	0.00	0.00	0.00	0.00	
2	0.00	0.00	29.60	2.10	2.10	3.20	12.20	0.90	0.00	0.00	0.00	0.00	
3	0.00	0.00	13.40	2.10	1.70	3.80	12.50	0.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	6.20	1.90	0.90	3.20	11.30	0.60	0.00	0.00	0.00	0.00	
5	0.00	0.00	4.00	1.90	0.30	3.00	9.20	0.50	0.00	0.00	0.00	0.00	
6	0.00	0.00	2.80	2.30	0.80	2.70	7.10	0.50	0.00	0.00	0.40	0.00	
7	0.00	0.00	1.80	2.70	0.60	2.30	4.80	0.50	0.00	0.00	0.20	0.00	
8	0.00	0.00	1.00	3.20	0.50	2.20	3.40	0.40	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.50	3.80	0.50	1.90	2.80	0.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.10	2.80	0.40	1.80	2.50	0.40	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.10	2.40	0.50	1.40	2.10	0.20	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.10	1.90	0.90	1.10	1.90	0.10	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.30	6.80	1.40	0.90	1.90	0.10	0.00	0.00	0.00	0.00	
14	0.00	0.90	0.20	27.35	2.10	1.00	2.10	0.10	0.00	0.00	0.00	0.00	
15	0.00	2.10	0.20	24.80	1.80	1.30	2.40	0.00	0.00	0.00	0.00	0.00	
16	0.00	1.90	0.50	19.20	1.70	1.50	3.60	0.00	0.00	0.00	0.00	0.00	
17	0.00	1.30	1.00	16.00	1.70	1.70	6.50	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.70	0.80	13.10	1.20	2.00	8.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.70	0.70	8.60	0.80	2.40	6.80	0.00	0.00	0.00	0.00	0.00	
20	0.00	1.30	1.10	4.00	0.60	3.00	5.90	0.00	0.00	0.00	0.00	0.00	
21	0.00	2.00	5.60	2.60	0.60	3.20	5.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	1.90	4.00	2.90	0.50	5.30	4.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	1.60	2.90	3.20	0.50	6.50	3.20	0.00	0.00	0.00	0.00	0.00	
24	0.00	3.00	3.00	11.60	0.40	4.00	2.90	0.00	0.00	0.00	0.00	0.00	
25	0.00	2.50	2.50	8.90	0.60	3.40	2.60	0.00	0.00	0.00	0.00	0.00	
26	0.00	1.60	1.80	6.80	0.60	8.90	2.20	0.00	0.00	0.00	0.00	0.00	
27	0.10	1.10	1.60	4.40	0.70	18.40	2.10	0.00	0.00	0.00	0.00	0.00	
28	0.10	1.20	1.50	2.90	0.50	15.60	1.80	0.00	0.00	0.00	0.00	0.00	
29	0.10	2.10	2.00	2.00	0.50	11.60	1.60	0.00	0.00	0.00	0.00	0.00	
30	0.00	1.80	1.90	1.60	0.50	8.30	1.50	0.00	0.00	0.00	0.00	0.00	
31		53.50		1.70	1.60		1.40		0.00	0.00		0.00	
Total	0.30	81.20	157.90	197.25	29.60	128.50	145.10	6.70	0.00	0.00	0.60	0.00	747.15 CMSDAY
Mean	0.01	2.62	5.26	6.36	0.95	4.28	4.68	0.22	0.00	0.00	0.02	0.00	2.05 CMS
Max	0.10	53.50	66.70	27.35	2.10	18.40	12.50	1.20	0.00	0.00	0.40	0.00	66.70 CMS
Min	0.00	0.00	0.10	1.60	0.30	0.90	1.40	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.03	7.02	13.64	17.04	2.56	11.10	12.54	0.58	0.00	0.00	0.05	0.00	64.55 MCM
Momentary Peak	78.60 CMS. at 206.08 m. (MSL.) at 18.00 Hours , on May 31 , 2009												
Runoff Yield	4.86 Liters/Second/Square KM.			Momentary Peak Yield				186.698 Liters/Second/Square KM.					

WATER YEAR : 2009**KHONG RIVER BASIN**

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

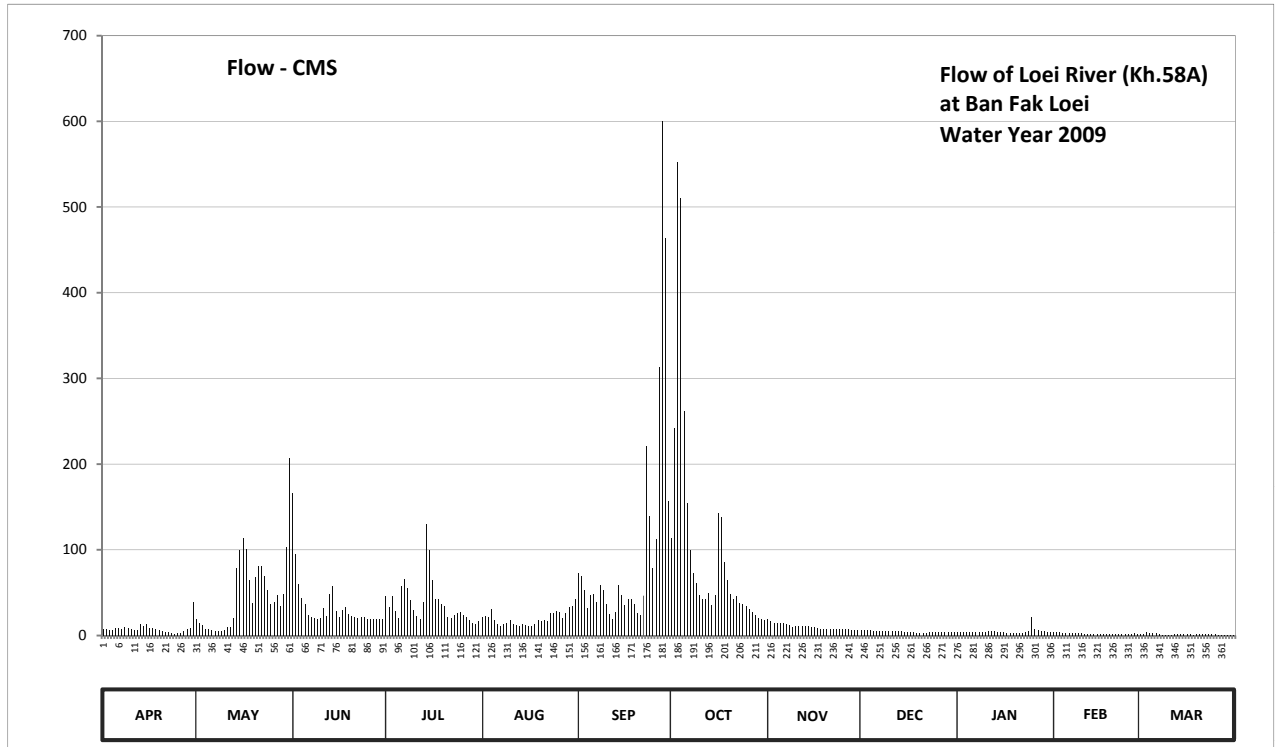
Lat 17 - 29 - 36 N Long 101 - 44 - 17 E

Location : on left bank at the bridge on road.

	Ban	Fak Loei	Amphoe	Mueang	Changwat	Loei
Drainage Area	3,093	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+229.000 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	On left bank upstream side at the abutment of the bridge.				Elevation	+240.440 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
Rated by Current Meter	1990 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.39	230.81	233.28	231.41	230.90	231.90	232.56	230.80	230.34	230.20	230.18	230.06	
2	230.42	230.69	232.26	231.16	230.94	231.84	234.19	230.73	230.32	230.19	230.17	230.08	
3	230.37	230.61	231.67	231.41	230.89	231.56	237.25	230.66	230.33	230.19	230.17	230.16	
4	230.35	230.44	231.37	231.07	231.12	231.15	236.87	230.68	230.31	230.18	230.15	230.15	
5	230.47	230.38	231.23	230.87	230.77	231.44	234.43	230.68	230.28	230.17	230.12	230.14	
6	230.48	230.31	230.96	231.63	230.64	231.46	233.13	230.66	230.28	230.17	230.11	230.12	
7	230.42	230.28	230.88	231.78	230.55	231.28	232.34	230.64	230.28	230.17	230.11	230.08	
8	230.54	230.25	230.84	231.59	230.62	231.65	231.89	230.61	230.27	230.18	230.10	230.01	
9	230.47	230.25	230.83	231.33	230.68	231.56	231.70	230.54	230.26	230.20	230.09	229.98	
10	230.40	230.31	230.84	231.10	230.79	231.23	231.45	230.56	230.26	230.21	230.09	230.00	
11	230.34	230.51	231.15	230.93	230.63	230.99	231.35	230.56	230.25	230.29	230.07	230.01	
12	230.36	230.54	230.93	230.83	230.59	230.83	231.36	230.56	230.24	230.28	230.05	230.02	
13	230.65	230.87	231.46	231.29	230.57	231.05	231.48	230.55	230.23	230.24	230.05	230.03	
14	230.57	231.99	231.63	232.78	230.63	231.66	231.22	230.55	230.23	230.21	230.05	230.03	
15	230.62	232.33	231.07	232.33	230.61	231.45	231.44	230.54	230.22	230.18	230.06	230.03	
16	230.50	232.55	230.90	231.75	230.55	231.22	232.97	230.54	230.20	230.17	230.05	230.03	
17	230.45	232.36	231.10	231.35	230.56	231.35	232.90	230.50	230.18	230.15	230.04	230.02	
18	230.42	231.76	231.16	231.35	230.63	231.36	232.11	230.44	230.16	230.13	230.03	230.01	
19	230.34	231.27	230.99	231.24	230.77	231.23	231.75	230.41	230.15	230.11	230.03	230.02	
20	230.25	231.82	230.93	231.19	230.76	231.03	231.46	230.41	230.14	230.11	230.03	230.02	
21	230.19	232.04	230.90	230.90	230.78	230.95	231.36	230.42	230.11	230.11	230.03	230.02	
22	230.17	232.03	230.85	230.86	230.74	231.43	231.41	230.44	230.14	230.12	230.02	230.02	
23	230.12	231.83	230.89	230.97	231.03	233.95	231.26	230.42	230.16	230.16	230.02	230.03	
24	230.08	231.55	230.90	231.02	231.02	232.92	231.23	230.41	230.17	230.30	230.03	230.03	
25	230.09	231.23	230.83	231.04	231.08	232.00	231.18	230.39	230.17	230.90	230.04	230.02	
26	230.10	231.28	230.80	230.95	231.04	232.53	231.11	230.39	230.17	230.44	230.05	230.01	
27	230.26	231.44	230.81	230.90	230.84	234.98	231.04	230.38	230.17	230.31	230.09	230.01	
28	230.43	231.19	230.82	230.78	231.03	237.67	230.98	230.37	230.18	230.27	230.07	230.01	
29	230.46	231.46	230.82	230.67	231.16	236.44	230.85	230.37	230.19	230.24		230.00	
30	231.29	232.40	230.82	230.65	231.18	233.16	230.80	230.35	230.19	230.22		229.99	
31		233.78		230.75	231.35		230.79		230.20	230.19		229.99	
Mean	230.40	231.31	231.13	231.22	230.82	232.11	232.12	230.52	230.22	230.23	230.07	230.04	
Max	231.29	233.78	233.28	232.78	231.35	237.67	237.25	230.80	230.34	230.90	230.18	230.16	237.67
Min	230.08	230.25	230.80	230.65	230.55	230.83	230.79	230.35	230.11	230.11	230.02	229.98	229.98
Annual Max Momentary Gage Height	238.07		m. (MSL.) ,				at 19.00 Hours , on Sep 28 , 2009						
Zero Gage at Bottom Elevation	229.00		m. (MSL.) ,			River Bed	229.42		M (MSL)				
Left Bank Elevation	240.43		m. (MSL.) ,										
Right Bank Elevation	240.45		m. (MSL.) ,			Drainage Area	3093		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.24	18.92	166.28	45.50	21.80	73.20	114.20	18.60	6.44	4.20	3.88	1.96	
2	7.72	15.08	95.12	33.00	23.08	69.72	241.34	16.36	6.12	4.04	3.72	2.28	
3	6.92	12.52	59.86	45.50	21.48	53.48	552.50	14.12	6.28	4.04	3.72	3.56	
4	6.60	8.04	43.50	28.50	31.00	32.50	510.70	14.76	5.96	3.88	3.40	3.40	
5	8.52	7.08	36.50	20.84	17.64	47.00	261.98	14.76	5.48	3.72	2.92	3.24	
6	8.68	5.96	23.72	57.54	13.48	48.00	154.88	14.12	5.48	3.72	2.76	2.92	
7	7.72	5.48	21.16	66.24	10.60	39.00	100.08	13.48	5.48	3.72	2.76	2.28	
8	10.28	5.00	19.88	55.22	12.84	58.70	72.62	12.52	5.32	3.88	2.60	1.16	
9	8.52	5.00	19.56	41.50	14.76	53.48	61.60	10.28	5.16	4.20	2.44	0.80	
10	7.40	5.96	19.88	30.00	18.28	36.50	47.50	10.92	5.16	4.36	2.44	1.00	
11	6.44	9.32	32.50	22.76	13.16	24.68	42.50	10.92	5.00	5.64	2.12	1.16	
12	6.76	10.28	22.76	19.56	11.88	19.56	43.00	10.92	4.84	5.48	1.80	1.32	
13	13.80	20.84	48.00	39.50	11.24	27.50	49.00	10.60	4.68	4.84	1.80	1.48	
14	11.24	78.42	57.54	129.60	13.16	59.28	36.00	10.60	4.68	4.36	1.80	1.48	
15	12.84	99.46	28.50	99.46	12.52	47.50	47.00	10.28	4.52	3.88	1.96	1.48	
16	9.00	113.50	21.80	64.50	10.60	36.00	142.90	10.28	4.20	3.72	1.80	1.48	
17	8.20	101.32	30.00	42.50	10.92	42.50	138.00	9.00	3.88	3.40	1.64	1.32	
18	7.72	65.08	33.00	42.50	13.16	43.00	85.82	8.04	3.56	3.08	1.48	1.16	
19	6.44	38.50	24.68	37.00	17.64	36.50	64.50	7.56	3.40	2.76	1.48	1.32	
20	5.00	68.56	22.76	34.50	17.32	26.50	48.00	7.56	3.24	2.76	1.48	1.32	
21	4.04	81.48	21.80	21.80	17.96	23.40	43.00	7.72	2.76	2.76	1.48	1.32	
22	3.72	80.86	20.20	20.52	16.68	46.50	45.50	8.04	3.24	2.92	1.32	1.32	
23	2.92	69.14	21.48	24.04	26.50	220.80	38.00	7.72	3.56	3.56	1.32	1.48	
24	2.28	52.90	21.80	26.00	26.00	139.40	36.50	7.56	3.72	5.80	1.48	1.48	
25	2.44	36.50	19.56	27.00	29.00	79.00	34.00	7.24	3.72	21.80	1.64	1.32	
26	2.60	39.00	18.60	23.40	27.00	112.10	30.50	7.24	3.72	8.04	1.80	1.16	
27	5.16	47.00	18.92	21.80	19.88	313.12	27.00	7.08	3.72	5.96	2.44	1.16	
28	7.88	34.50	19.24	17.96	26.50	600.40	24.36	6.92	3.88	5.32	2.12	1.16	
29	8.36	48.00	19.24	14.44	33.00	463.52	20.20	6.92	4.04	4.84		1.00	
30	39.50	103.80	19.24	13.80	34.00	157.16	18.60	6.60	4.04	4.52		0.90	
31		206.52		17.00	42.50		18.28		4.20	4.04		0.90	
Total	245.94	1494.02	1027.08	1183.48	615.58	3030.00	3150.06	308.72	139.48	149.24	61.60	49.32	11454.52 CMSDAY
Mean	8.20	48.19	34.24	38.18	19.86	101.00	101.61	10.29	4.50	4.81	2.20	1.59	31.38 CMS
Max	39.50	206.52	166.28	129.60	42.50	600.40	552.50	18.60	6.44	21.80	3.88	3.56	600.40 CMS
Min	2.28	5.00	18.60	13.80	10.60	19.56	18.28	6.60	2.76	2.76	1.32	0.80	0.80 CMS
Runoff	21.25	129.08	88.74	102.25	53.19	261.79	272.17	26.67	12.05	12.89	5.32	4.26	989.67 MCM
Momentary Peak		650.50 CMS.		at 238.07 m. (MSL.)		at 19.00 Hours		on Sep 28					
Runoff Yield		10.15 Liters/Second/Square KM.				Momentary Peak Yield	210.314			Liters/Second/Square KM.			

WATER YEAR : 2009

KHONG RIVER BASIN

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

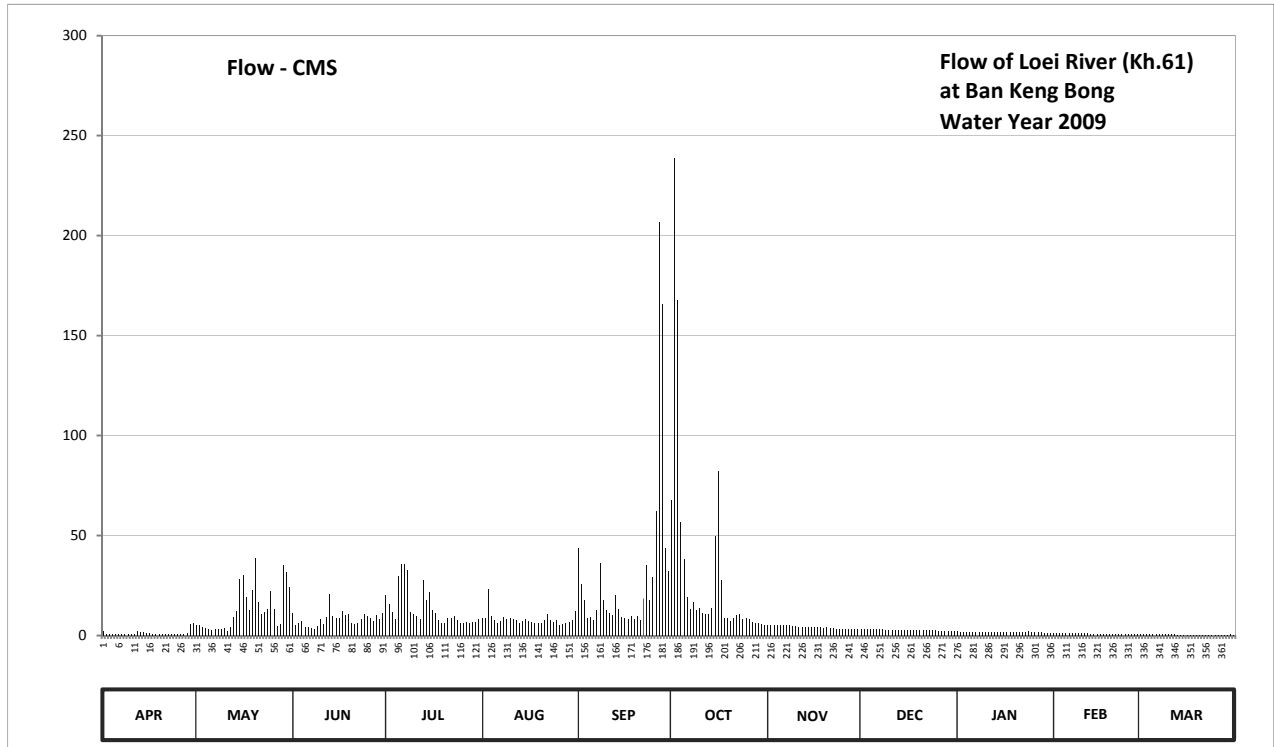
Lat 17 - 07 - 44 N Long 101 - 40 - 56 E

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

	Ban	Keng Bong	Amphoe	Phu Luang	Changwat	Loei
Drainage Area	549	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+258.361 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank downstream side at the footpath of the bridge.				Elevation	+272.020 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.15	259.37	259.80	260.20	259.64	260.99	261.51	259.37	259.22	259.15	259.04	258.97	
2	258.98	259.36	259.39	260.05	259.64	260.39	263.55	259.37	259.23	259.13	259.07	258.94	
3	258.94	259.32	259.43	259.83	260.30	260.13	262.88	259.37	259.23	259.13	259.05	258.94	
4	258.95	259.28	259.51	259.57	259.68	259.62	261.28	259.36	259.23	259.13	259.05	258.93	
5	258.94	259.24	259.32	260.53	259.54	259.66	260.80	259.36	259.23	259.13	259.05	258.93	
6	258.97	259.20	259.31	260.72	259.46	259.54	260.17	259.36	259.23	259.13	259.05	258.93	
7	258.98	259.22	259.26	260.72	259.51	259.92	259.95	259.36	259.23	259.13	259.06	258.93	
8	258.97	259.22	259.23	260.63	259.65	260.75	260.09	259.36	259.23	259.13	259.06	258.93	
9	258.94	259.24	259.34	259.85	259.57	260.12	259.92	259.34	259.21	259.12	259.05	258.93	
10	258.95	259.26	259.60	259.77	259.63	259.92	259.99	259.34	259.21	259.12	259.05	258.93	
11	259.01	259.16	259.40	259.70	259.59	259.80	259.80	259.31	259.21	259.12	259.05	258.93	
12	259.14	259.32	259.65	259.58	259.56	259.75	259.76	259.31	259.21	259.12	259.05	258.93	
13	259.13	259.65	260.23	260.46	259.46	260.20	259.76	259.31	259.21	259.12	259.03	258.91	
14	259.11	259.89	259.69	260.12	259.52	259.95	259.98	259.31	259.21	259.12	259.03	258.91	
15	259.08	260.47	259.63	260.26	259.57	259.66	261.12	259.30	259.20	259.12	259.02	258.88	
16	259.04	260.54	259.63	259.92	259.52	259.61	261.76	259.30	259.20	259.13	259.02	258.88	
17	259.03	260.17	259.88	259.80	259.48	259.60	260.46	259.29	259.20	259.12	259.02	258.88	
18	259.00	259.90	259.73	259.54	259.45	259.71	259.63	259.29	259.20	259.12	259.02	258.87	
19	259.00	260.29	259.77	259.46	259.44	259.58	259.64	259.28	259.20	259.12	259.01	258.87	
20	258.99	260.83	259.46	259.45	259.43	259.69	259.52	259.29	259.20	259.11	259.01	258.87	
21	259.02	260.09	259.40	259.61	259.56	259.54	259.61	259.27	259.19	259.11	259.01	258.87	
22	258.99	259.78	259.46	259.61	259.78	260.15	259.72	259.26	259.19	259.11	259.00	258.87	
23	258.94	259.85	259.59	259.68	259.55	260.71	259.76	259.23	259.19	259.11	259.00	258.84	
24	258.94	259.95	259.78	259.56	259.49	260.13	259.60	259.23	259.19	259.14	258.99	258.84	
25	258.93	260.28	259.71	259.45	259.55	260.51	259.64	259.23	259.19	259.13	258.99	258.83	
26	258.93	259.95	259.61	259.43	259.38	261.40	259.57	259.23	259.17	259.13	258.98	258.83	
27	258.95	259.34	259.51	259.47	259.41	263.26	259.49	259.24	259.16	259.13	258.98	258.83	
28	259.09	259.42	259.75	259.44	259.46	262.86	259.44	259.24	259.16	259.12	258.98	258.83	
29	259.41	260.70	259.60	259.49	259.49	260.99	259.45	259.23	259.16	259.08		258.85	
30	259.44	260.59	259.80	259.49	259.56	260.60	259.42	259.22	259.16	259.08		258.94	
31		260.34		259.58	259.89		259.37		259.15	259.08		258.91	
Mean	259.03	259.78	259.58	259.84	259.57	260.29	260.21	259.30	259.20	259.12	259.03	258.89	
Max	259.44	260.83	260.23	260.72	260.30	263.26	263.55	259.37	259.23	259.15	259.07	258.97	263.55
Min	258.93	259.16	259.23	259.43	259.38	259.54	259.37	259.22	259.15	259.08	258.98	258.83	258.83
Annual Max Momentary Gage Height		264.28		m. (MSL.) ,				at 15.00 Hours , on Sep 27 , 2009					
Zero Gage at Bottom Elevation		258.36		m. (MSL.) ,		River Bed	258.73	m. (MSL)					
Left Bank Elevation				272.23		m. (MSL.) ,							
Right Bank Elevation				269.31		m. (MSL.) ,	Drainage Area	549	Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.10	5.18	11.20	20.00	8.96	43.70	67.58	5.18	3.08	2.10	1.04	0.68	
2	0.72	5.04	5.46	15.50	8.96	25.70	239.00	5.18	3.22	1.82	1.22	0.56	
3	0.56	4.48	6.02	11.62	23.00	17.90	167.72	5.18	3.22	1.82	1.10	0.56	
4	0.60	3.92	7.14	7.98	9.52	8.68	56.88	5.04	3.22	1.82	1.10	0.52	
5	0.56	3.36	4.48	29.90	7.56	9.24	38.00	5.04	3.22	1.82	1.10	0.52	
6	0.68	2.80	4.34	35.60	6.44	7.56	19.10	5.04	3.22	1.82	1.10	0.52	
7	0.72	3.08	3.64	35.60	7.14	12.88	13.30	5.04	3.22	1.82	1.16	0.52	
8	0.68	3.08	3.22	32.90	9.10	36.50	16.70	5.04	3.22	1.82	1.16	0.52	
9	0.56	3.36	4.76	11.90	7.98	17.60	12.88	4.76	2.94	1.68	1.10	0.52	
10	0.60	3.64	8.40	10.78	8.82	12.88	13.86	4.76	2.94	1.68	1.10	0.52	
11	0.86	2.24	5.60	9.80	8.26	11.20	11.20	4.34	2.94	1.68	1.10	0.52	
12	1.96	4.48	9.10	8.12	7.84	10.50	10.64	4.34	2.94	1.68	1.10	0.52	
13	1.82	9.10	20.90	27.80	6.44	20.00	10.64	4.34	2.94	1.68	0.98	0.44	
14	1.54	12.46	9.66	17.60	7.28	13.30	13.72	4.34	2.94	1.68	0.98	0.44	
15	1.28	28.10	8.82	21.80	7.98	9.24	49.52	4.20	2.80	1.68	0.92	0.32	
16	1.04	30.20	8.82	12.88	7.28	8.54	82.08	4.20	2.80	1.82	0.92	0.32	
17	0.98	19.10	12.32	11.20	6.72	8.40	27.80	4.06	2.80	1.68	0.92	0.32	
18	0.80	12.60	10.22	7.56	6.30	9.94	8.82	4.06	2.80	1.68	0.92	0.28	
19	0.80	22.70	10.78	6.44	6.16	8.12	8.96	3.92	2.80	1.68	0.86	0.28	
20	0.76	38.90	6.44	6.30	6.02	9.66	7.28	4.06	2.80	1.54	0.86	0.28	
21	0.92	16.70	5.60	8.54	7.84	7.56	8.54	3.78	2.66	1.54	0.86	0.28	
22	0.76	10.92	6.44	8.54	10.92	18.50	10.08	3.64	2.66	1.54	0.80	0.28	
23	0.56	11.90	8.26	9.52	7.70	35.30	10.64	3.22	2.66	1.54	0.80	0.16	
24	0.56	13.30	10.92	7.84	6.86	17.90	8.40	3.22	2.66	1.96	0.76	0.16	
25	0.52	22.40	9.94	6.30	7.70	29.30	8.96	3.22	2.66	1.82	0.76	0.12	
26	0.52	13.30	8.54	6.02	5.32	62.40	7.98	3.22	2.38	1.82	0.72	0.12	
27	0.60	4.76	7.14	6.58	5.74	206.56	6.86	3.36	2.24	1.82	0.72	0.12	
28	1.34	5.88	10.50	6.16	6.44	165.84	6.16	3.36	2.24	1.68	0.72	0.12	
29	5.74	35.00	8.40	6.86	6.86	43.70	6.30	3.22	2.24	1.28		0.20	
30	6.16	31.70	11.20	6.86	7.84	32.00	5.88	3.08	2.24	1.28		0.56	
31		24.20		8.12	12.46		5.18		2.10	1.28		0.44	
Total	37.30	407.88	248.26	422.62	253.44	920.60	960.66	125.44	86.80	52.56	26.88	11.72	3554.16 CMSDAY
Mean	1.24	13.16	8.28	13.63	8.18	30.69	30.99	4.18	2.80	1.70	0.96	0.38	9.74 CMS
Max	6.16	38.90	20.90	35.60	23.00	206.56	239.00	5.18	3.22	2.10	1.22	0.68	239.00 CMS
Min	0.52	2.24	3.22	6.02	5.32	7.56	5.18	3.08	2.10	1.28	0.72	0.12	0.12 CMS
Runoff	3.22	35.24	21.45	36.51	21.90	79.54	83.00	10.84	7.50	4.54	2.32	1.01	307.08 MCM
Momentary Peak	346.24 CMS. at 264.28 m. (MSL.) at 15.00 Hours , on Sep 27 , 2009												
Runoff Yield	17.74 Liters/Second/Square KM.			Momentary Peak Yield			630.674 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

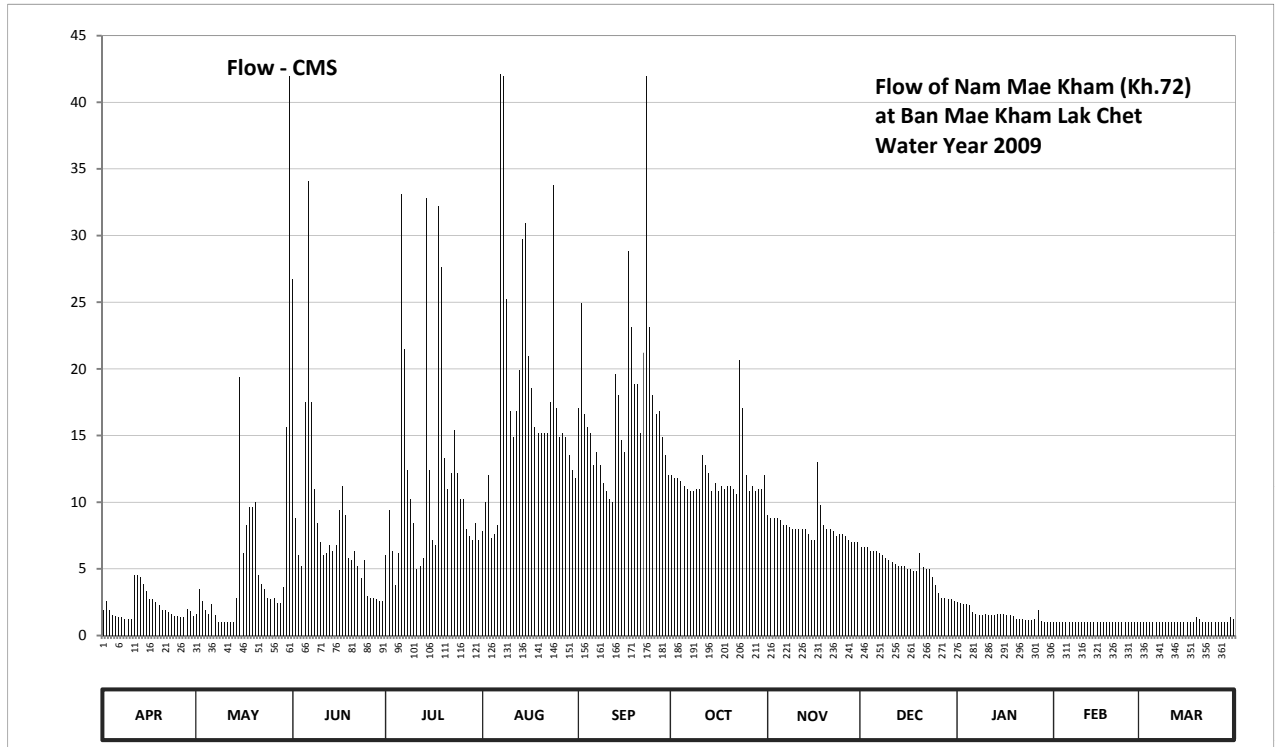
Lat 20 - 13 - 01 N Long 99 - 51 - 38 E

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
Drainage Area	667	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+393.400 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+399.176 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the bridge of Chiang Rai - Mae Sai Highway construction. Stage-discharge relation defined by 38 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	394.30	394.27	395.53	394.63	394.74	395.18	394.96	394.81	394.67	394.37	394.15	394.14	
2	394.38	394.45	394.80	394.83	394.86	395.47	394.95	394.80	394.67	394.36	394.19	394.14	
3	394.30	394.38	394.63	394.65	394.96	395.16	394.95	394.80	394.67	394.35	394.19	394.14	
4	394.26	394.30	394.58	394.47	394.71	395.12	394.94	394.80	394.65	394.35	394.19	394.14	
5	394.25	394.27	395.20	394.64	394.73	395.10	394.92	394.79	394.65	394.34	394.18	394.14	
6	394.24	394.35	395.77	395.74	394.77	395.00	394.91	394.77	394.65	394.28	394.16	394.14	
7	394.24	394.26	395.20	395.35	397.36	395.04	394.90	394.77	394.64	394.27	394.15	394.14	
8	394.23	394.20	394.91	394.98	396.18	395.00	394.90	394.76	394.63	394.26	394.15	394.14	
9	394.23	394.20	394.78	394.87	395.48	394.93	394.91	394.75	394.62	394.26	394.15	394.13	
10	394.23	394.19	394.69	394.78	395.17	394.90	394.91	394.75	394.61	394.27	394.15	394.14	
11	394.53	394.18	394.63	394.56	395.09	394.87	395.03	394.75	394.60	394.26	394.15	394.15	
12	394.53	394.17	394.64	394.58	395.17	394.86	395.00	394.75	394.59	394.26	394.15	394.15	
13	394.52	394.20	394.68	394.62	395.29	395.28	394.97	394.75	394.58	394.26	394.15	394.15	
14	394.48	394.40	394.65	395.73	395.63	395.22	394.90	394.73	394.58	394.27	394.15	394.15	
15	394.44	395.27	394.68	394.98	395.67	395.08	394.93	394.70	394.58	394.27	394.15	394.15	
16	394.39	394.64	394.83	394.70	395.33	395.04	394.90	394.70	394.56	394.27	394.15	394.15	
17	394.39	394.77	394.92	394.68	395.24	395.60	394.92	395.01	394.56	394.26	394.15	394.15	
18	394.37	394.84	394.81	395.71	395.12	395.41	394.91	394.85	394.55	394.26	394.15	394.16	
19	394.34	394.84	394.62	395.56	395.10	395.25	394.92	394.77	394.55	394.25	394.15	394.24	
20	394.30	394.86	394.61	395.02	395.10	395.25	394.92	394.75	394.64	394.23	394.15	394.23	
21	394.30	394.53	394.65	394.91	395.10	395.10	394.91	394.75	394.57	394.23	394.15	394.15	
22	394.28	394.48	394.58	394.97	395.10	395.34	394.89	394.74	394.56	394.23	394.15	394.15	
23	394.27	394.45	394.51	395.11	395.20	396.08	395.32	394.72	394.56	394.22	394.14	394.14	
24	394.25	394.40	394.61	394.97	395.76	395.41	395.18	394.73	394.52	394.22	394.14	394.14	
25	394.25	394.39	394.41	394.87	395.18	395.22	394.96	394.73	394.47	394.22	394.14	394.14	
26	394.24	394.40	394.40	394.87	395.09	395.16	394.90	394.72	394.43	394.23	394.14	394.14	
27	394.24	394.36	394.40	394.75	395.10	395.17	394.92	394.70	394.40	394.30	394.14	394.14	
28	394.31	394.36	394.39	394.72	395.09	395.09	394.90	394.69	394.40	394.21	394.14	394.14	
29	394.29	394.46	394.38	394.70	395.03	395.03	394.91	394.69	394.39	394.19		394.16	
30	394.25	395.12	394.38	394.78	394.98	394.96	394.91	394.69	394.39	394.16		394.24	
31		396.13		394.70	394.95		394.96		394.38	394.15		394.23	
Mean	394.32	394.52	394.73	394.92	395.23	395.18	394.95	394.76	394.56	394.26	394.15	394.16	
Max	394.53	396.13	395.77	395.74	397.36	396.08	395.32	395.01	394.67	394.37	394.19	394.24	397.36
Min	394.23	394.17	394.38	394.47	394.71	394.86	394.89	394.69	394.38	394.15	394.14	394.13	394.13
Annual Max Momentary Gage Height	398.13		m. (MSL.) ,			at 17.00 Hours , on Aug 7 , 2009							
Zero Gage at Bottom Elevation	393.40		m. (MSL.) ,			River Bed	393.40		m. (MSL)				
Left Bank Elevation	399.74		m. (MSL.) ,										
Right Bank Elevation	399.72		m. (MSL.) ,			Drainage Area	667		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.90	1.63	26.70	6.00	7.81	17.03	12.00	9.00	6.66	2.53	0.98	0.98	
2	2.62	3.48	8.80	9.40	10.00	24.90	11.80	8.80	6.66	2.44	1.00	0.98	
3	1.90	2.62	6.00	6.32	12.00	16.56	11.80	8.80	6.66	2.35	1.00	0.98	
4	1.54	1.90	5.23	3.75	7.31	15.62	11.60	8.80	6.32	2.35	1.00	0.98	
5	1.45	1.63	17.50	6.16	7.65	15.15	11.20	8.64	6.32	2.26	0.99	0.98	
6	1.36	2.35	34.07	33.14	8.30	12.80	11.00	8.30	6.32	1.72	0.99	0.98	
7	1.36	1.54	17.50	21.48	42.11	13.74	10.80	8.30	6.16	1.63	0.98	0.98	
8	1.27	1.00	11.00	12.40	42.01	12.80	10.80	8.14	6.00	1.54	0.98	0.98	
9	1.27	1.00	8.47	10.20	25.20	11.40	11.00	7.98	5.83	1.54	0.98	0.98	
10	1.27	1.00	6.99	8.47	16.80	10.80	11.00	7.98	5.66	1.63	0.98	0.98	
11	4.55	0.99	6.00	4.96	14.91	10.20	13.50	7.98	5.50	1.54	0.98	0.98	
12	4.55	0.99	6.16	5.23	16.80	10.00	12.80	7.98	5.36	1.54	0.98	0.98	
13	4.42	1.00	6.82	5.83	19.89	19.62	12.20	7.98	5.23	1.54	0.98	0.98	
14	3.88	2.80	6.32	32.83	29.73	18.03	10.80	7.65	5.23	1.63	0.98	0.98	
15	3.34	19.35	6.82	12.40	30.97	14.68	11.40	7.15	5.23	1.63	0.98	0.98	
16	2.71	6.16	9.40	7.15	20.94	13.74	10.80	7.15	4.96	1.63	0.98	0.98	
17	2.71	8.30	11.20	6.82	18.56	28.80	11.20	13.04	4.96	1.54	0.98	0.98	
18	2.53	9.60	9.00	32.21	15.62	23.10	11.00	9.80	4.82	1.54	0.98	0.99	
19	2.26	9.60	5.83	27.60	15.15	18.82	11.20	8.30	4.82	1.45	0.98	1.36	
20	1.90	10.00	5.66	13.27	15.15	18.82	11.20	7.98	6.16	1.27	0.98	1.27	
21	1.90	4.55	6.32	11.00	15.15	15.15	11.00	7.98	5.10	1.27	0.98	0.98	
22	1.72	3.88	5.23	12.20	15.15	21.21	10.60	7.81	4.96	1.27	0.98	0.98	
23	1.63	3.48	4.29	15.38	17.50	42.01	20.68	7.48	4.96	1.18	0.98	0.98	
24	1.45	2.80	5.66	12.20	33.76	23.10	17.03	7.65	4.42	1.18	0.98	0.98	
25	1.45	2.71	2.94	10.20	17.03	18.03	12.00	7.65	3.75	1.18	0.98	0.98	
26	1.36	2.80	2.80	10.20	14.91	16.56	10.80	7.48	3.20	1.27	0.98	0.98	
27	1.36	2.44	2.80	7.98	15.15	16.80	11.20	7.15	2.80	1.90	0.98	0.98	
28	1.99	2.44	2.71	7.48	14.91	14.91	10.80	6.99	2.80	1.09	0.98	0.98	
29	1.81	3.61	2.62	7.15	13.50	13.50	11.00	6.99	2.71	1.00		0.99	
30	1.45	15.62	2.62	8.47	12.40	12.00	11.00	6.99	2.71	0.99		1.36	
31		42.01		7.15	11.80		12.00		2.62	0.98		1.27	
Total	64.91	173.28	253.46	375.03	558.17	519.88	367.21	243.92	154.89	48.61	27.52	31.74	2818.62 CMSDAY
Mean	2.16	5.59	8.45	12.10	18.01	17.33	11.85	8.13	5.00	1.57	0.98	1.02	7.72 CMS
Max	4.55	42.01	34.07	33.14	42.11	42.01	20.68	13.04	6.66	2.53	1.00	1.36	42.11 CMS
Min	1.27	0.99	2.62	3.75	7.31	10.00	10.60	6.99	2.62	0.98	0.98	0.98	0.98 CMS
Runoff	5.61	14.97	21.90	32.40	48.23	44.92	31.73	21.08	13.38	4.20	2.38	2.74	243.53 MCM
Momentary Peak	42.17 CMS. at 398.13 m. (MSL.) at 17.00 Hours , on Aug 7 , 2009												
Runoff Yield	11.58 Liters/Second/Square KM.			Momentary Peak Yield				63.223 Liters/Second/Square KM.					

WATER YEAR : 2009

KHONG RIVER BASIN

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

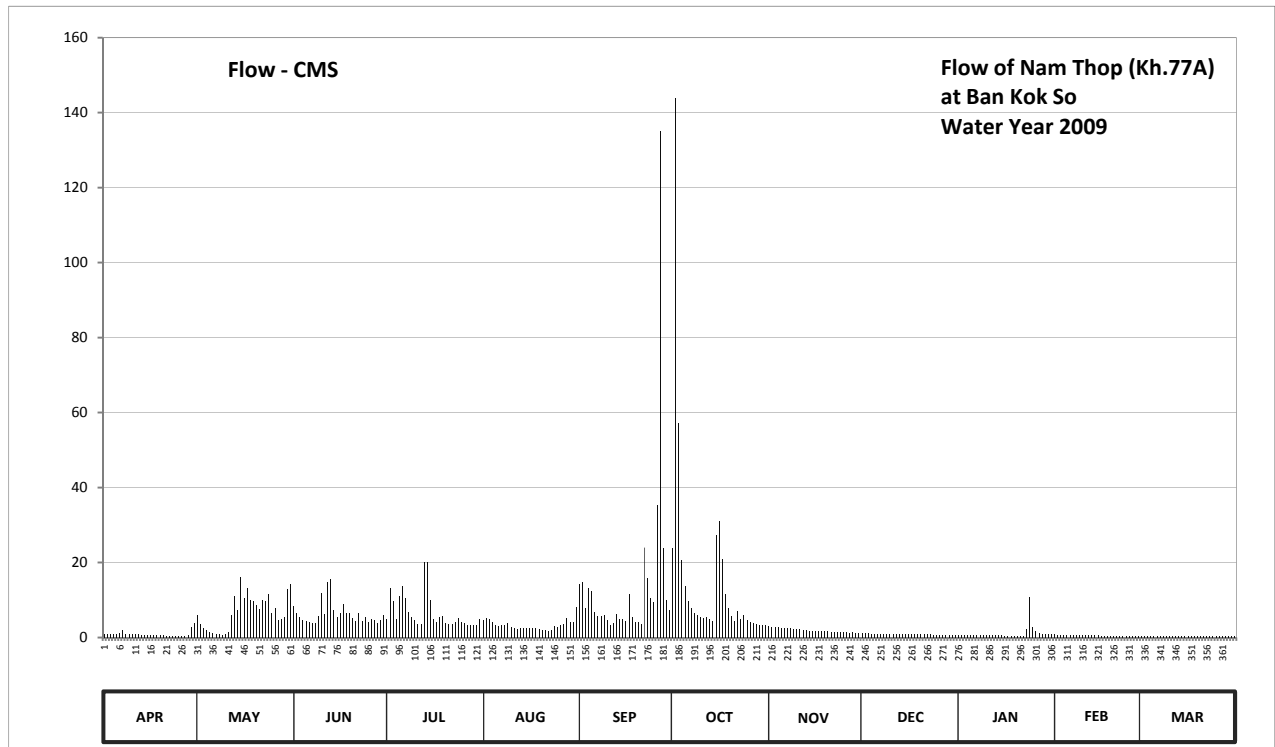
Lat 17 - 15 - 46 N Long 101 - 39 - 28 E

Location : on left bank at Ban Kok So.

	Ban	Kok So	Amphoe	Wang Saphung	Changwat	Loei
Drainage Area	156	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+260.980 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+268.630 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The cataract situated downstream from the gage site. Stage-discharge relation defined by 24 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.36	261.80	261.91	261.74	261.73	262.11	262.42	261.60	261.41	261.29	261.35	261.25	
2	261.36	261.65	261.83	262.07	261.76	262.13	264.07	261.57	261.41	261.29	261.34	261.24	
3	261.36	261.56	261.77	261.96	261.75	261.89	263.13	261.57	261.41	261.29	261.34	261.24	
4	261.35	261.49	261.73	261.75	261.71	262.07	262.32	261.57	261.39	261.29	261.34	261.24	
5	261.38	261.45	261.72	262.00	261.63	262.05	262.09	261.56	261.39	261.29	261.33	261.24	
6	261.43	261.41	261.71	262.09	261.60	261.84	261.96	261.56	261.38	261.29	261.33	261.24	
7	261.51	261.38	261.68	261.98	261.63	261.79	261.89	261.55	261.38	261.29	261.30	261.23	
8	261.40	261.36	261.69	261.84	261.62	261.79	261.83	261.55	261.38	261.29	261.29	261.22	
9	261.38	261.34	261.79	261.78	261.69	261.80	261.80	261.53	261.38	261.29	261.29	261.22	
10	261.36	261.35	262.03	261.73	261.59	261.73	261.77	261.53	261.38	261.29	261.29	261.22	
11	261.36	261.44	261.81	261.66	261.55	261.64	261.76	261.52	261.38	261.29	261.29	261.22	
12	261.36	261.80	262.13	261.66	261.53	261.68	261.77	261.51	261.37	261.29	261.29	261.22	
13	261.32	262.00	262.15	262.30	261.56	261.81	261.75	261.49	261.38	261.29	261.29	261.22	
14	261.29	261.87	261.87	262.30	261.56	261.75	261.72	261.47	261.38	261.29	261.29	261.22	
15	261.29	262.17	261.78	261.97	261.55	261.74	262.51	261.46	261.38	261.28	261.28	261.22	
16	261.28	261.98	261.82	261.75	261.56	261.72	262.61	261.46	261.37	261.27	261.27	261.22	
17	261.28	262.07	261.93	261.71	261.56	262.02	262.33	261.46	261.36	261.27	261.26	261.22	
18	261.28	261.97	261.83	261.77	261.55	261.78	262.02	261.46	261.37	261.27	261.26	261.22	
19	261.28	261.96	261.82	261.79	261.54	261.71	261.89	261.46	261.37	261.26	261.26	261.22	
20	261.28	261.92	261.76	261.69	261.51	261.71	261.79	261.46	261.36	261.26	261.26	261.22	
21	261.26	261.88	261.72	261.67	261.49	261.66	261.72	261.45	261.35	261.26	261.26	261.22	
22	261.26	261.97	261.83	261.66	261.48	262.42	261.85	261.45	261.35	261.26	261.26	261.22	
23	261.26	261.96	261.72	261.71	261.51	262.16	261.75	261.45	261.35	261.54	261.25	261.22	
24	261.26	262.02	261.78	261.76	261.60	261.98	261.80	261.44	261.33	261.99	261.25	261.22	
25	261.26	261.82	261.71	261.71	261.59	261.95	261.73	261.44	261.32	261.57	261.25	261.22	
26	261.26	261.89	261.74	261.68	261.62	262.72	261.71	261.44	261.30	261.48	261.25	261.22	
27	261.26	261.73	261.73	261.63	261.65	264.00	261.69	261.43	261.30	261.43	261.25	261.22	
28	261.31	261.74	261.68	261.64	261.76	262.42	261.65	261.44	261.30	261.40	261.25	261.22	
29	261.58	261.78	261.73	261.62	261.71	261.97	261.64	261.41	261.30	261.39		261.22	
30	261.69	262.06	261.80	261.64	261.71	261.87	261.63	261.41	261.29	261.37		261.22	
31		262.11		261.74	261.90		261.62		261.29	261.36		261.22	
Mean	261.34	261.77	261.81	261.81	261.62	262.00	262.01	261.49	261.36	261.35	261.28	261.22	
Max	261.69	262.17	262.15	262.30	261.90	264.00	264.07	261.60	261.41	261.99	261.35	261.25	264.07
Min	261.26	261.34	261.68	261.62	261.48	261.64	261.62	261.41	261.29	261.26	261.25	261.22	261.22
Annual Max Momentary Gage Height		264.84	m. (MSL.) ,				at 12.00 Hours , on Sep 27 , 2009						
Zero Gage at Bottom Elevation		260.98	m. (MSL.) ,			River Bed	260.99	m. (MSL)					
Left Bank Elevation		269.07	m. (MSL.) ,										
Right Bank Elevation		268.41	m. (MSL.) ,			Drainage Area	156	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	6.00	8.30	4.80	4.60	14.30	23.96	3.00	1.10	0.57	0.80	0.45	
2	0.84	3.50	6.60	13.10	5.20	14.90	143.82	2.70	1.10	0.57	0.76	0.42	
3	0.84	2.60	5.40	9.80	5.00	7.80	57.10	2.70	1.10	0.57	0.76	0.42	
4	0.80	1.90	4.60	5.00	4.20	13.10	20.68	2.70	0.96	0.57	0.76	0.42	
5	0.92	1.50	4.40	11.00	3.30	12.50	13.70	2.60	0.96	0.57	0.72	0.42	
6	1.30	1.10	4.20	13.70	3.00	6.80	9.80	2.60	0.92	0.57	0.72	0.42	
7	2.10	0.92	3.80	10.40	3.30	5.80	7.80	2.50	0.92	0.57	0.60	0.39	
8	1.00	0.84	3.90	6.80	3.20	5.80	6.60	2.50	0.92	0.57	0.57	0.36	
9	0.92	0.76	5.80	5.60	3.90	6.00	6.00	2.30	0.92	0.57	0.57	0.36	
10	0.84	0.80	11.90	4.60	2.90	4.60	5.40	2.30	0.92	0.57	0.57	0.36	
11	0.84	1.40	6.20	3.60	2.50	3.40	5.20	2.20	0.92	0.57	0.57	0.36	
12	0.84	6.00	14.90	3.60	2.30	3.80	5.40	2.10	0.88	0.57	0.57	0.36	
13	0.68	11.00	15.50	20.05	2.60	6.20	5.00	1.90	0.92	0.57	0.57	0.36	
14	0.57	7.40	7.40	20.05	2.60	5.00	4.40	1.70	0.92	0.57	0.57	0.36	
15	0.57	16.10	5.60	10.10	2.50	4.80	27.38	1.60	0.92	0.54	0.54	0.36	
16	0.54	10.40	6.40	5.00	2.60	4.40	31.18	1.60	0.88	0.51	0.51	0.36	
17	0.54	13.10	8.90	4.20	2.60	11.60	20.99	1.60	0.84	0.51	0.48	0.36	
18	0.54	10.10	6.60	5.40	2.50	5.60	11.60	1.60	0.88	0.51	0.48	0.36	
19	0.54	9.80	6.40	5.80	2.40	4.20	7.80	1.60	0.88	0.48	0.48	0.36	
20	0.54	8.60	5.20	3.90	2.10	4.20	5.80	1.60	0.84	0.48	0.48	0.36	
21	0.48	7.60	4.40	3.70	1.90	3.60	4.40	1.50	0.80	0.48	0.48	0.36	
22	0.48	10.10	6.60	3.60	1.80	23.96	7.00	1.50	0.80	0.48	0.48	0.36	
23	0.48	9.80	4.40	4.20	2.10	15.80	5.00	1.50	0.80	2.40	0.45	0.36	
24	0.48	11.60	5.60	5.20	3.00	10.40	6.00	1.40	0.72	10.70	0.45	0.36	
25	0.48	6.40	4.20	4.20	2.90	9.50	4.60	1.40	0.68	2.70	0.45	0.36	
26	0.48	7.80	4.80	3.80	3.20	35.48	4.20	1.40	0.60	1.80	0.45	0.36	
27	0.48	4.60	4.60	3.30	3.50	135.00	3.90	1.30	0.60	1.30	0.45	0.36	
28	0.64	4.80	3.80	3.40	5.20	23.96	3.50	1.40	0.60	1.00	0.45	0.36	
29	2.80	5.60	4.60	3.20	4.20	10.10	3.40	1.10	0.60	0.96		0.36	
30	3.90	12.80	6.00	3.40	4.20	7.40	3.30	1.10	0.57	0.88		0.36	
31		14.30		4.80	8.00		3.20		0.57	0.84		0.36	
Total	27.30	209.22	191.00	209.30	103.30	420.00	468.11	57.00	26.04	34.55	15.74	11.58	1773.14 CMSDAY
Mean	0.91	6.75	6.37	6.75	3.33	14.00	15.10	1.90	0.84	1.11	0.56	0.37	4.86 CMS
Max	3.90	16.10	15.50	20.05	8.00	135.00	143.82	3.00	1.10	10.70	0.80	0.45	143.82 CMS
Min	0.48	0.76	3.80	3.20	1.80	3.40	3.20	1.10	0.57	0.48	0.45	0.36	0.36 CMS
Runoff	2.36	18.08	16.50	18.08	8.93	36.29	40.45	4.93	2.25	2.99	1.36	1.00	153.20 MCM
Momentary Peak	247.80 CMS. at 264.84 m. (MSL.) at 12.00 Hours , on Sep 27 , 2009												
Runoff Yield	31.14 Liters/Second/Square KM.			Momentary Peak Yield			1588.462 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

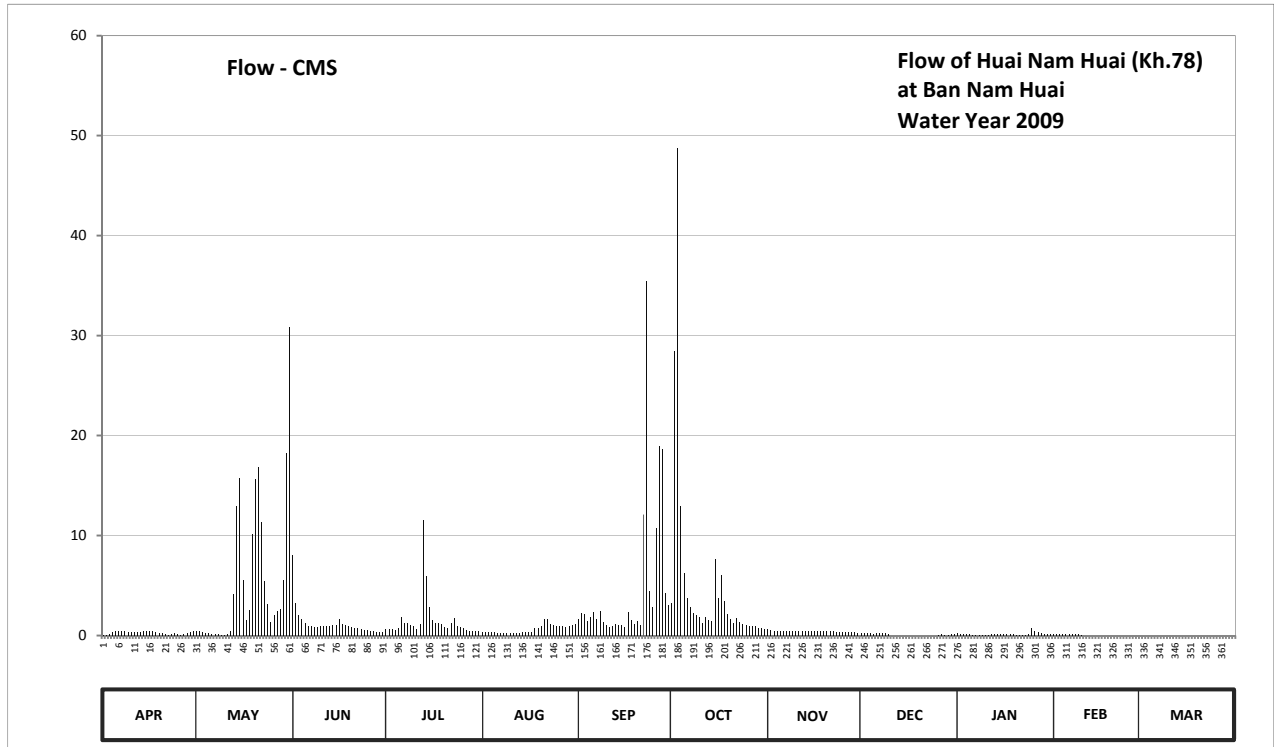
Lat 17 - 23 - 00 N Long 101 - 42 - 40 E

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

	Ban	Nam Huai	Amphoe	Mueang	Changwat	Loei
Drainage Area	219	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+246.224 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On left bank downstream side at the footpath of the bridge.				Elevation	+256.495 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. The concrete weir situated about 700 meters downstream from the gage site. Stage-discharge relation defined by 11 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.41	248.47	249.36	248.49	248.45	248.63	248.87	248.49	248.44	248.43	248.42	248.27	
2	248.41	248.46	248.87	248.49	248.45	248.72	250.62	248.48	248.44	248.42	248.42	248.26	
3	248.42	248.45	248.69	248.49	248.45	248.71	251.60	248.47	248.44	248.42	248.42	248.25	
4	248.45	248.44	248.63	248.48	248.45	248.60	249.71	248.47	248.43	248.42	248.42	248.24	
5	248.46	248.43	248.57	248.50	248.45	248.67	249.20	248.47	248.42	248.42	248.42	248.23	
6	248.47	248.42	248.54	248.66	248.44	248.73	248.94	248.47	248.44	248.41	248.42	248.22	
7	248.47	248.42	248.54	248.58	248.44	248.64	248.81	248.47	248.44	248.41	248.42	248.21	
8	248.46	248.42	248.52	248.57	248.44	248.75	248.72	248.47	248.43	248.41	248.42	248.20	
9	248.45	248.41	248.52	248.55	248.44	248.59	248.69	248.47	248.43	248.41	248.42	248.19	
10	248.45	248.41	248.53	248.53	248.44	248.55	248.66	248.47	248.42	248.41	248.41	248.18	
11	248.45	248.42	248.53	248.49	248.44	248.52	248.58	248.47	248.40	248.41	248.37	248.17	
12	248.45	248.46	248.53	248.56	248.44	248.54	248.67	248.47	248.39	248.42	248.37	248.16	
13	248.45	248.99	248.54	249.61	248.44	248.56	248.62	248.47	248.39	248.42	248.37	248.15	
14	248.46	249.71	248.55	249.17	248.45	248.55	248.61	248.47	248.38	248.42	248.37	248.16	
15	248.46	249.91	248.55	248.81	248.45	248.55	249.33	248.47	248.38	248.42	248.37	248.18	
16	248.46	249.13	248.64	248.62	248.45	248.52	248.94	248.47	248.39	248.42	248.37	248.22	
17	248.46	248.62	248.56	248.58	248.45	248.73	249.19	248.47	248.39	248.42	248.37	248.30	
18	248.45	248.76	248.55	248.57	248.51	248.62	248.89	248.47	248.39	248.42	248.37	248.32	
19	248.44	249.51	248.54	248.56	248.50	248.56	248.71	248.47	248.40	248.42	248.37	248.33	
20	248.43	249.90	248.52	248.52	248.53	248.61	248.64	248.46	248.40	248.41	248.37	248.34	
21	248.42	249.99	248.51	248.51	248.64	248.55	248.57	248.46	248.40	248.41	248.37	248.35	
22	248.41	249.60	248.50	248.58	248.63	249.65	248.65	248.46	248.40	248.41	248.36	248.36	
23	248.42	249.12	248.49	248.65	248.56	250.97	248.59	248.45	248.40	248.41	248.35	248.37	
24	248.44	248.85	248.48	248.54	248.55	249.03	248.56	248.45	248.40	248.42	248.34	248.38	
25	248.42	248.59	248.48	248.52	248.54	248.80	248.55	248.45	248.40	248.50	248.32	248.38	
26	248.41	248.70	248.47	248.50	248.54	249.55	248.53	248.45	248.41	248.47	248.31	248.38	
27	248.42	248.75	248.47	248.48	248.54	250.12	248.53	248.45	248.42	248.45	248.30	248.39	
28	248.43	248.78	248.45	248.47	248.52	250.10	248.53	248.45	248.41	248.44	248.28	248.39	
29	248.45	249.13	248.45	248.47	248.54	249.00	248.51	248.45	248.41	248.42		248.40	
30	248.47	250.08	248.45	248.46	248.55	248.83	248.50	248.44	248.42	248.42		248.40	
31		250.74		248.46	248.56		248.49		248.42	248.42		248.40	
Mean	248.44	248.97	248.57	248.60	248.49	248.90	248.90	248.46	248.41	248.42	248.38	248.28	
Max	248.47	250.74	249.36	249.61	248.64	250.97	251.60	248.49	248.44	248.50	248.42	248.40	251.60
Min	248.41	248.41	248.45	248.46	248.44	248.52	248.49	248.44	248.38	248.41	248.28	248.15	248.15
Annual Max Momentary Gage Height		252.49	m. (MSL.) ,				at 05.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation		246.22	m. (MSL.) ,			River Bed	247.62	m. (MSL)					
Left Bank Elevation		254.63	m. (MSL.) ,										
Right Bank Elevation		254.24	m. (MSL.) ,			Drainage Area	219	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.49	8.04	0.63	0.35	1.61	3.29	0.63	0.28	0.21	0.14	0.00	
2	0.07	0.42	3.29	0.63	0.35	2.24	28.40	0.56	0.28	0.14	0.14	0.00	
3	0.14	0.35	2.03	0.63	0.35	2.17	48.80	0.49	0.28	0.14	0.14	0.00	
4	0.35	0.28	1.61	0.56	0.35	1.40	12.94	0.49	0.21	0.14	0.14	0.00	
5	0.42	0.21	1.19	0.70	0.35	1.89	6.20	0.49	0.14	0.14	0.14	0.00	
6	0.49	0.14	0.98	1.82	0.28	2.31	3.78	0.49	0.28	0.07	0.14	0.00	
7	0.49	0.14	0.98	1.26	0.28	1.68	2.87	0.49	0.28	0.07	0.14	0.00	
8	0.42	0.14	0.84	1.19	0.28	2.45	2.24	0.49	0.21	0.07	0.14	0.00	
9	0.35	0.07	0.84	1.05	0.28	1.33	2.03	0.49	0.21	0.07	0.14	0.00	
10	0.35	0.07	0.91	0.91	0.28	1.05	1.82	0.49	0.14	0.07	0.07	0.00	
11	0.35	0.14	0.91	0.63	0.28	0.84	1.26	0.49	0.00	0.07	0.00	0.00	
12	0.35	0.42	0.91	1.12	0.28	0.98	1.89	0.49	0.00	0.14	0.00	0.00	
13	0.35	4.13	0.98	11.54	0.28	1.12	1.54	0.49	0.00	0.14	0.00	0.00	
14	0.42	12.94	1.05	5.90	0.35	1.05	1.47	0.49	0.00	0.14	0.00	0.00	
15	0.42	15.74	1.05	2.87	0.35	1.05	7.62	0.49	0.00	0.14	0.00	0.00	
16	0.42	5.50	1.68	1.54	0.35	0.84	3.78	0.49	0.00	0.14	0.00	0.00	
17	0.42	1.54	1.12	1.26	0.35	2.31	6.10	0.49	0.00	0.14	0.00	0.00	
18	0.35	2.52	1.05	1.19	0.77	1.54	3.43	0.49	0.00	0.14	0.00	0.00	
19	0.28	10.14	0.98	1.12	0.70	1.12	2.17	0.49	0.00	0.14	0.00	0.00	
20	0.21	15.60	0.84	0.84	0.91	1.47	1.68	0.42	0.00	0.07	0.00	0.00	
21	0.14	16.86	0.77	0.77	1.68	1.05	1.19	0.42	0.00	0.07	0.00	0.00	
22	0.07	11.40	0.70	1.26	1.61	12.10	1.75	0.42	0.00	0.07	0.00	0.00	
23	0.14	5.40	0.63	1.75	1.12	35.40	1.33	0.35	0.00	0.07	0.00	0.00	
24	0.28	3.15	0.56	0.98	1.05	4.50	1.12	0.35	0.00	0.14	0.00	0.00	
25	0.14	1.33	0.56	0.84	0.98	2.80	1.05	0.35	0.00	0.70	0.00	0.00	
26	0.07	2.10	0.49	0.70	0.98	10.70	0.91	0.35	0.07	0.49	0.00	0.00	
27	0.14	2.45	0.49	0.56	0.98	18.92	0.91	0.35	0.14	0.35	0.00	0.00	
28	0.21	2.66	0.35	0.49	0.84	18.60	0.91	0.35	0.07	0.28	0.00	0.00	
29	0.35	5.50	0.35	0.49	0.98	4.20	0.77	0.35	0.07	0.14		0.00	
30	0.49	18.28	0.35	0.42	1.05	3.01	0.70	0.28	0.14	0.14		0.00	
31		30.80		0.42	1.12		0.63		0.14	0.14		0.00	
Total	8.75	170.91	36.53	46.07	20.16	141.73	154.58	13.51	2.94	4.97	1.33	0.00	601.48 CMSDAY
Mean	0.29	5.51	1.22	1.49	0.65	4.72	4.99	0.45	0.09	0.16	0.05	0.00	1.65 CMS
Max	0.49	30.80	8.04	11.54	1.68	35.40	48.80	0.63	0.28	0.70	0.14	0.00	48.80 CMS
Min	0.07	0.07	0.35	0.42	0.28	0.84	0.63	0.28	0.00	0.07	0.00	0.00	0.00 CMS
Runoff	0.76	14.77	3.16	3.98	1.74	12.25	13.36	1.17	0.25	0.43	0.12	0.00	51.97 MCM
Momentary Peak	69.76 CMS. at 252.49 m. (MSL.) at 05.00 Hours , on Oct 3 , 2009												
Runoff Yield	7.52 Liters/Second/Square KM.			Momentary Peak Yield			318.539 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

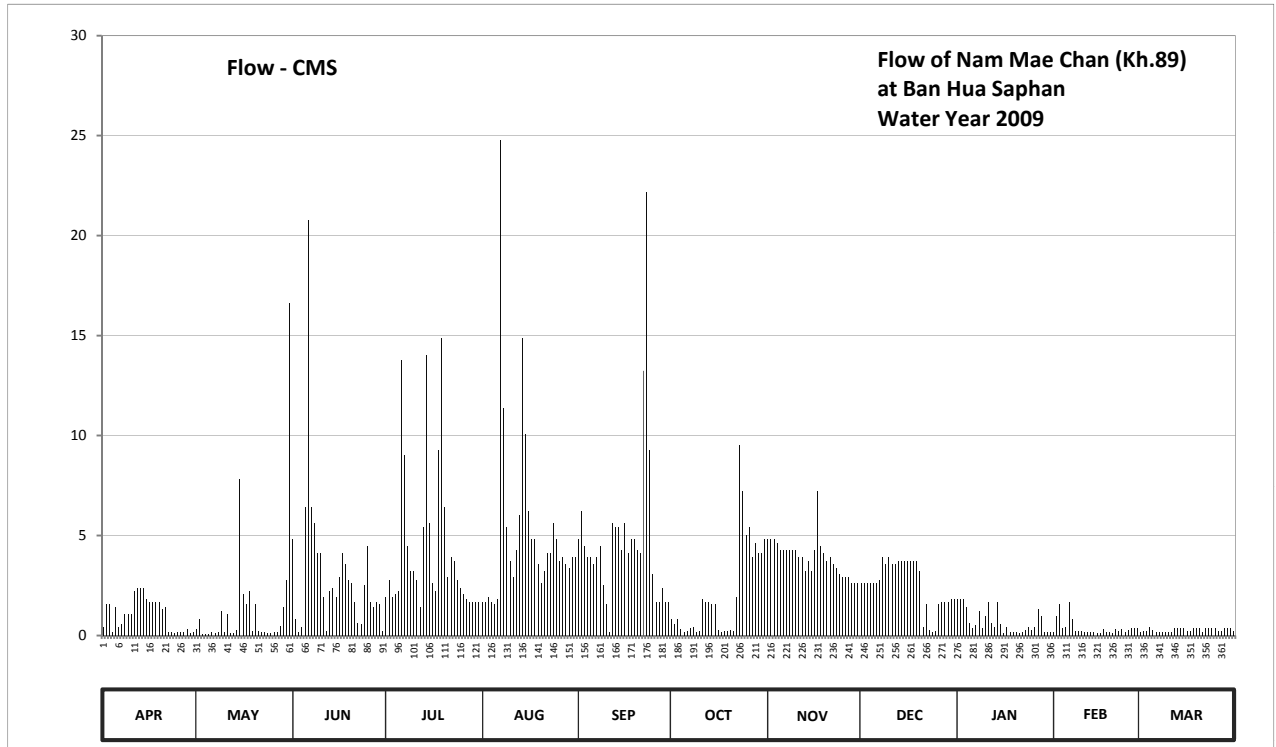
Lat 20 - 09 - 25 N Long 99 - 51 - 45 E

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

	Ban	Hua Saphan	Amphoe	Mae Chan	Changwat	Chiang Rai
Drainage Area	248	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+406.385 m. (MSL.)					
Bench Mark	B.M.- Temporary.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+408.840 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1993 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 38 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	406.75	406.73	407.09	406.91	406.89	407.09	406.82	407.09	406.96	406.90	406.68	406.66	
2	406.88	406.82	406.82	406.97	406.89	407.16	406.79	407.09	406.96	406.90	406.83	406.70	
3	406.88	406.51	406.68	406.91	406.91	407.07	406.82	407.09	406.96	406.90	406.88	406.70	
4	406.68	406.49	406.76	406.92	406.89	407.04	406.73	407.08	406.96	406.87	406.74	406.76	
5	406.87	406.49	407.17	406.93	406.88	407.04	406.69	407.06	406.96	406.80	406.76	406.72	
6	406.75	406.62	407.71	407.48	406.90	407.02	406.71	407.06	406.96	406.74	406.89	406.64	
7	406.79	406.60	407.17	407.30	407.82	407.04	406.74	407.06	406.97	406.78	406.82	406.64	
8	406.84	406.64	407.13	407.07	407.39	407.07	406.76	407.06	407.04	406.85	406.70	406.64	
9	406.84	406.85	407.05	407.00	407.12	406.95	406.69	407.06	407.02	406.74	406.71	406.64	
10	406.84	406.69	407.05	407.00	407.03	406.88	406.71	407.06	407.04	406.83	406.71	406.68	
11	406.93	406.84	406.91	406.97	406.98	406.69	406.90	407.04	407.02	406.89	406.68	406.65	
12	406.94	406.60	406.71	406.87	407.06	407.13	406.89	407.04	407.02	406.80	406.69	406.74	
13	406.94	406.60	406.93	407.12	407.15	407.12	406.89	407.00	407.03	406.75	406.68	406.74	
14	406.94	406.72	406.94	407.49	407.52	407.12	406.88	407.03	407.03	406.89	406.63	406.74	
15	406.90	407.24	406.91	407.13	407.34	407.06	406.88	407.00	407.03	406.79	406.59	406.74	
16	406.89	406.92	406.98	406.96	407.16	407.13	406.72	407.06	407.03	406.61	406.58	406.70	
17	406.89	406.88	407.05	406.93	407.09	407.05	406.68	407.21	407.03	406.75	406.73	406.71	
18	406.89	406.93	407.02	407.31	407.09	407.09	406.70	407.07	407.03	406.64	406.67	406.74	
19	406.89	406.70	406.97	407.52	407.02	407.09	406.70	407.05	407.03	406.65	406.63	406.74	
20	406.86	406.88	406.96	407.17	406.96	407.06	406.72	407.03	407.00	406.67	406.61	406.74	
21	406.87	406.70	406.89	406.98	407.00	407.05	406.70	407.04	406.76	406.60	406.73	406.65	
22	406.69	406.68	406.80	407.04	407.05	407.46	406.91	407.02	406.88	406.64	406.71	406.74	
23	406.68	406.64	406.79	407.03	407.05	407.75	407.32	407.01	406.72	406.72	406.73	406.74	
24	406.60	406.57	406.95	406.97	407.13	407.31	407.21	406.99	406.68	406.75	406.67	406.74	
25	406.64	406.57	407.07	406.94	407.09	406.99	407.10	406.98	406.71	406.72	406.72	406.74	
26	406.68	406.68	406.89	406.92	407.03	406.89	407.12	406.98	406.88	406.75	406.74	406.70	
27	406.69	406.65	406.87	406.90	407.04	406.89	407.04	406.98	406.89	406.86	406.74	406.71	
28	406.73	406.77	406.89	406.89	407.02	406.94	407.08	406.96	406.89	406.83	406.74	406.74	
29	406.60	406.87	406.88	406.89	407.01	406.89	407.05	406.96	406.89	406.69		406.74	
30	406.64	406.97	406.70	406.89	407.04	406.89	407.05	406.96	406.90	406.65		406.74	
31		407.58		406.89	407.04		407.09		406.90	406.65		406.70	
Mean	406.80	406.76	406.96	407.04	407.08	407.07	406.87	407.04	406.94	406.76	406.71	406.71	
Max	406.94	407.58	407.71	407.52	407.82	407.75	407.32	407.21	407.04	406.90	406.89	406.76	407.82
Min	406.60	406.49	406.68	406.87	406.88	406.69	406.68	406.96	406.68	406.60	406.58	406.64	406.49
Annual Max Momentary Gage Height	408.42		m. (MSL.) ,			at 17.00 Hours , on Aug 7 , 2009							
Zero Gage at Bottom Elevation	406.39		m. (MSL.) ,			River Bed	406.33		m. (MSL)				
Left Bank Elevation	411.66		m. (MSL.) ,										
Right Bank Elevation	411.67		m. (MSL.) ,			Drainage Area	248		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.32	4.82	1.94	1.68	4.82	0.84	4.82	2.64	1.80	0.19	0.17	
2	1.56	0.84	0.84	2.78	1.68	6.20	0.56	4.82	2.64	1.80	0.96	0.20	
3	1.56	0.07	0.19	1.94	1.94	4.46	0.84	4.82	2.64	1.80	1.56	0.20	
4	0.19	0.06	0.44	2.08	1.68	3.92	0.32	4.64	2.64	1.44	0.36	0.44	
5	1.44	0.06	6.40	2.22	1.56	3.92	0.19	4.28	2.64	0.60	0.44	0.28	
6	0.40	0.15	20.76	13.77	1.80	3.56	0.24	4.28	2.64	0.36	1.68	0.16	
7	0.56	0.13	6.40	9.00	24.80	3.92	0.36	4.28	2.78	0.52	0.84	0.16	
8	1.08	0.16	5.60	4.46	11.39	4.46	0.44	4.28	3.92	1.20	0.20	0.16	
9	1.08	1.20	4.10	3.20	5.40	2.50	0.19	4.28	3.56	0.36	0.24	0.16	
10	1.08	0.19	4.10	3.20	3.74	1.56	0.24	4.28	3.92	0.96	0.24	0.19	
11	2.22	1.08	1.94	2.78	2.92	0.19	1.80	3.92	3.56	1.68	0.19	0.17	
12	2.36	0.13	0.24	1.44	4.28	5.60	1.68	3.92	3.56	0.60	0.19	0.36	
13	2.36	0.13	2.22	5.40	6.00	5.40	1.68	3.20	3.74	0.40	0.19	0.36	
14	2.36	0.28	2.36	14.03	14.88	5.40	1.56	3.74	3.74	1.68	0.15	0.36	
15	1.80	7.80	1.94	5.60	10.06	4.28	1.56	3.20	3.74	0.56	0.13	0.36	
16	1.68	2.08	2.92	2.64	6.20	5.60	0.28	4.28	3.74	0.14	0.12	0.20	
17	1.68	1.56	4.10	2.22	4.82	4.10	0.19	7.20	3.74	0.40	0.32	0.24	
18	1.68	2.22	3.56	9.27	4.82	4.82	0.20	4.46	3.74	0.16	0.18	0.36	
19	1.68	0.20	2.78	14.88	3.56	4.82	0.20	4.10	3.74	0.17	0.15	0.36	
20	1.32	1.56	2.64	6.40	2.64	4.28	0.28	3.74	3.20	0.18	0.14	0.36	
21	1.44	0.20	1.68	2.92	3.20	4.10	0.20	3.92	0.44	0.13	0.32	0.17	
22	0.19	0.19	0.60	3.92	4.10	13.24	1.94	3.56	1.56	0.16	0.24	0.36	
23	0.19	0.16	0.56	3.74	4.10	22.20	9.53	3.38	0.28	0.28	0.32	0.36	
24	0.13	0.11	2.50	2.78	5.60	9.27	7.20	3.06	0.19	0.40	0.18	0.36	
25	0.16	0.11	4.46	2.36	4.82	3.06	5.00	2.92	0.24	0.28	0.28	0.36	
26	0.19	0.19	1.68	2.08	3.74	1.68	5.40	2.92	1.56	0.40	0.36	0.20	
27	0.19	0.17	1.44	1.80	3.92	1.68	3.92	2.92	1.68	1.32	0.36	0.24	
28	0.32	0.48	1.68	1.68	3.56	2.36	4.64	2.64	1.68	0.96	0.36	0.36	
29	0.13	1.44	1.56	1.68	3.38	1.68	4.10	2.64	1.68	0.19		0.36	
30	0.16	2.78	0.20	1.68	3.92	1.68	4.10	2.64	1.80	0.17		0.36	
31		16.62		1.68	3.92		4.82		1.80	0.17		0.20	
Total	31.59	42.67	94.71	135.57	160.11	144.76	64.50	117.14	79.43	21.27	10.89	8.58	911.22 CMSDAY
Mean	1.05	1.38	3.16	4.37	5.16	4.83	2.08	3.90	2.56	0.69	0.39	0.28	2.50 CMS
Max	2.36	16.62	20.76	14.88	24.80	22.20	9.53	7.20	3.92	1.80	1.68	0.44	24.80 CMS
Min	0.13	0.06	0.19	1.44	1.56	0.19	0.19	2.64	0.19	0.13	0.12	0.16	0.06 CMS
Runoff	2.73	3.69	8.18	11.71	13.83	12.51	5.57	10.12	6.86	1.84	0.94	0.74	78.73 MCM
Momentary Peak	55.36 CMS. at 408.42 m. (MSL.) at 17.00 Hours , on Aug 7 , 2009												
Runoff Yield	10.07 Liters/Second/Square KM.			Momentary Peak Yield				223.226 Liters/Second/Square KM.					

WATER YEAR : 2009

KHONG RIVER BASIN

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

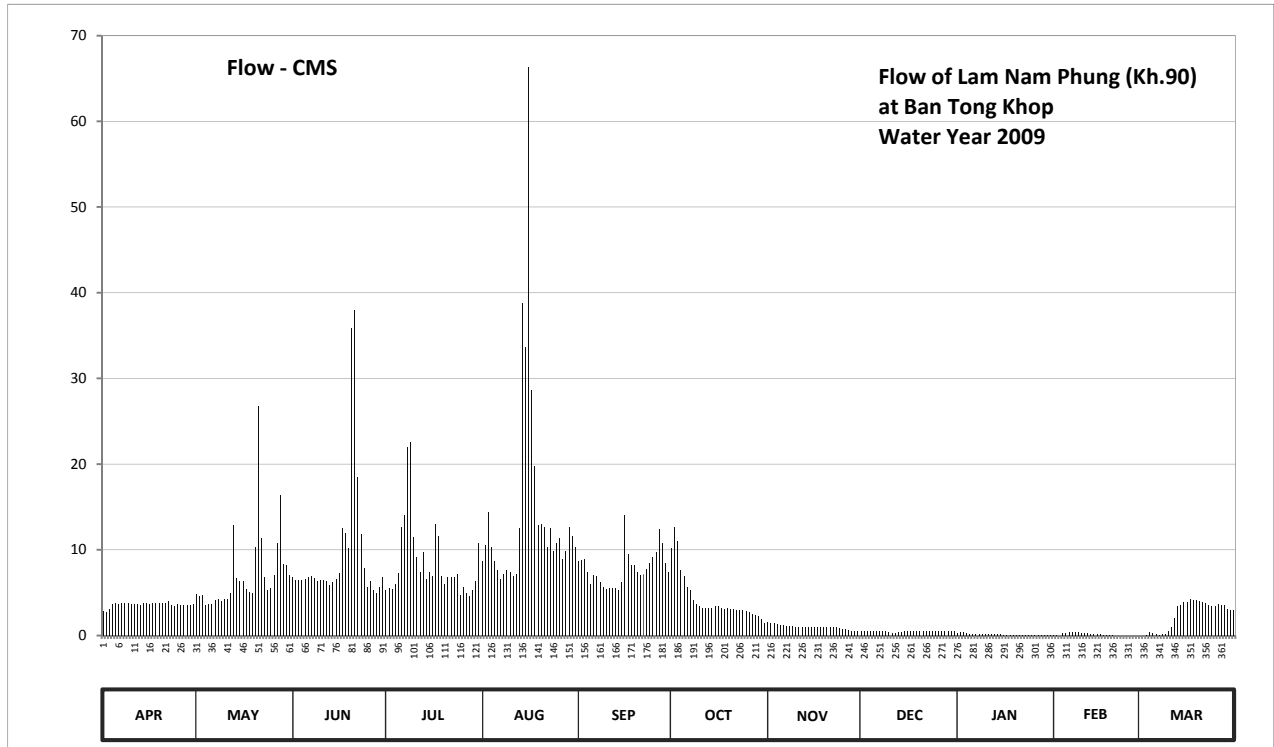
Lat 17 - 04 - 05 N Long 104 - 15 - 32 E

Location : on right bank at the bridge on highway.

	Ban	Tong Khop	Amphoe	Khok Si Suphan	Changwat	Sakon Nakhon
Drainage Area	861	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+158.500 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+167.456 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	158.69	158.88	159.08	158.93	159.21	159.21	159.31	158.56	158.45	158.43	158.41	158.40	
2	158.67	158.86	159.05	158.95	159.34	159.22	159.48	158.55	158.45	158.44	158.41	158.40	
3	158.71	158.87	159.05	158.94	159.59	159.23	159.37	158.54	158.45	158.44	158.40	158.41	
4	158.77	158.76	159.05	159.00	159.32	159.13	159.14	158.53	158.45	158.43	158.43	158.44	
5	158.78	158.77	159.06	159.12	159.21	159.00	159.09	158.52	158.45	158.42	158.43	158.43	
6	158.77	158.77	159.08	159.48	159.14	159.10	158.96	158.52	158.45	158.42	158.44	158.42	
7	158.78	158.81	159.09	159.57	159.06	159.09	158.93	158.51	158.45	158.42	158.44	158.41	
8	158.78	158.82	159.07	159.98	159.11	159.02	158.81	158.51	158.45	158.42	158.44	158.42	
9	158.78	158.80	159.04	160.01	159.14	158.96	158.77	158.51	158.45	158.42	158.44	158.42	
10	158.77	158.82	159.05	159.40	159.13	158.94	158.74	158.50	158.44	158.42	158.43	158.45	
11	158.77	158.83	159.05	159.24	159.09	158.95	158.72	158.50	158.43	158.42	158.43	158.50	
12	158.77	158.90	159.04	159.13	159.11	158.95	158.72	158.50	158.43	158.42	158.43	158.60	
13	158.76	159.49	158.99	159.28	159.47	158.95	158.72	158.50	158.44	158.42	158.42	158.74	
14	158.78	159.07	159.02	159.06	160.71	158.93	158.72	158.50	158.44	158.42	158.42	158.75	
15	158.78	159.04	159.06	159.13	160.51	159.02	158.74	158.50	158.45	158.42	158.42	158.79	
16	158.77	159.03	159.12	159.09	161.74	159.57	158.74	158.50	158.45	158.41	158.42	158.79	
17	158.78	158.94	159.47	159.50	160.28	159.27	158.72	158.50	158.45	158.41	158.41	158.82	
18	158.78	158.91	159.43	159.41	159.88	159.18	158.71	158.50	158.45	158.41	158.41	158.81	
19	158.78	158.90	159.31	159.09	159.49	159.18	158.72	158.50	158.45	158.41	158.41	158.81	
20	158.78	159.32	160.61	159.00	159.50	159.13	158.71	158.50	158.45	158.41	158.41	158.80	
21	158.78	160.20	160.68	159.08	159.48	159.10	158.71	158.50	158.45	158.41	158.40	158.79	
22	158.80	159.39	159.82	159.08	159.32	159.11	158.70	158.50	158.45	158.41	158.40	158.78	
23	158.76	159.08	159.42	159.08	159.47	159.15	158.70	158.50	158.45	158.41	158.40	158.76	
24	158.74	158.93	159.16	159.11	159.29	159.20	158.70	158.49	158.45	158.41	158.40	158.74	
25	158.77	158.95	158.97	158.87	159.35	159.24	158.69	158.48	158.45	158.41	158.40	158.74	
26	158.76	159.10	159.04	158.96	159.39	159.28	158.67	158.47	158.45	158.41	158.40	158.77	
27	158.76	159.35	158.93	158.90	159.23	159.46	158.65	158.46	158.45	158.41	158.40	158.75	
28	158.76	159.72	158.89	158.86	159.29	159.35	158.64	158.45	158.45	158.41	158.40	158.76	
29	158.76	159.19	158.97	158.93	159.48	159.20	158.63	158.45	158.45	158.41		158.71	
30	158.77	159.18	159.08	159.04	159.41	159.13	158.59	158.45	158.45	158.41		158.70	
31		159.10		159.35	159.32		158.55		158.45	158.41		158.70	
Mean	158.76	159.06	159.22	159.18	159.52	159.14	158.81	158.50	158.45	158.42	158.42	158.64	
Max	158.80	160.20	160.68	160.01	161.74	159.57	159.48	158.56	158.45	158.44	158.44	158.82	161.74
Min	158.67	158.76	158.89	158.86	159.06	158.93	158.55	158.45	158.43	158.41	158.40	158.40	158.40
Annual Max Momentary Gage Height		162.43		m. (MSL.) ,									at 09.00 Hours , on Aug 16 , 2009
Zero Gage at Bottom Elevation		158.50		m. (MSL.) ,		River Bed	157.63		m. (MSL)				
Left Bank Elevation		164.31		m. (MSL.) ,									
Right Bank Elevation		163.89		m. (MSL.) ,		Drainage Area	861		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.90	4.80	6.80	5.30	8.65	8.65	10.15	1.60	0.50	0.30	0.10	0.00	
2	2.70	4.60	6.50	5.50	10.60	8.80	12.70	1.50	0.50	0.40	0.10	0.00	
3	3.10	4.70	6.50	5.40	14.35	8.95	11.05	1.40	0.50	0.40	0.00	0.10	
4	3.70	3.60	6.50	6.00	10.30	7.45	7.60	1.30	0.50	0.30	0.30	0.40	
5	3.80	3.70	6.60	7.30	8.65	6.00	6.90	1.20	0.50	0.20	0.30	0.30	
6	3.70	3.70	6.80	12.70	7.60	7.00	5.60	1.20	0.50	0.20	0.40	0.20	
7	3.80	4.10	6.90	14.05	6.60	6.90	5.30	1.10	0.50	0.20	0.40	0.10	
8	3.80	4.20	6.70	21.96	7.15	6.20	4.10	1.10	0.50	0.20	0.40	0.20	
9	3.80	4.00	6.40	22.62	7.60	5.60	3.70	1.10	0.50	0.20	0.40	0.20	
10	3.70	4.20	6.50	11.50	7.45	5.40	3.40	1.00	0.40	0.20	0.30	0.50	
11	3.70	4.30	6.50	9.10	6.90	5.50	3.20	1.00	0.30	0.20	0.30	1.00	
12	3.70	5.00	6.40	7.45	7.15	5.50	3.20	1.00	0.30	0.20	0.30	2.00	
13	3.60	12.85	5.90	9.70	12.55	5.50	3.20	1.00	0.40	0.20	0.20	3.40	
14	3.80	6.70	6.20	6.60	38.79	5.30	3.20	1.00	0.40	0.20	0.20	3.50	
15	3.80	6.40	6.60	7.45	33.62	6.20	3.40	1.00	0.50	0.20	0.20	3.90	
16	3.70	6.30	7.30	6.90	66.32	14.05	3.40	1.00	0.50	0.10	0.20	3.90	
17	3.80	5.40	12.55	13.00	28.56	9.55	3.20	1.00	0.50	0.10	0.10	4.20	
18	3.80	5.10	11.95	11.65	19.76	8.20	3.10	1.00	0.50	0.10	0.10	4.10	
19	3.80	5.00	10.15	6.90	12.85	8.20	3.20	1.00	0.50	0.10	0.10	4.10	
20	3.80	10.30	35.89	6.00	13.00	7.45	3.10	1.00	0.50	0.10	0.10	4.00	
21	3.80	26.80	37.92	6.80	12.70	7.00	3.10	1.00	0.50	0.10	0.00	3.90	
22	4.00	11.35	18.44	6.80	10.30	7.15	3.00	1.00	0.50	0.10	0.00	3.80	
23	3.60	6.80	11.80	6.80	12.55	7.75	3.00	1.00	0.50	0.10	0.00	3.60	
24	3.40	5.30	7.90	7.15	9.85	8.50	3.00	0.90	0.50	0.10	0.00	3.40	
25	3.70	5.50	5.70	4.70	10.75	9.10	2.90	0.80	0.50	0.10	0.00	3.40	
26	3.60	7.00	6.40	5.60	11.35	9.70	2.70	0.70	0.50	0.10	0.00	3.70	
27	3.60	10.75	5.30	5.00	8.95	12.40	2.50	0.60	0.50	0.10	0.00	3.50	
28	3.60	16.40	4.90	4.60	9.85	10.75	2.40	0.50	0.50	0.10	0.00	3.60	
29	3.60	8.35	5.70	5.30	12.70	8.50	2.30	0.50	0.50	0.10		3.10	
30	3.70	8.20	6.80	6.40	11.65	7.45	1.90	0.50	0.50	0.10		3.00	
31		7.00		10.75	10.30		1.50		0.50	0.10		3.00	
Total	109.10	222.40	286.50	266.98	449.40	234.70	131.00	30.00	14.80	5.20	4.50	74.10	1828.68 CMSDAY
Mean	3.64	7.17	9.55	8.61	14.50	7.82	4.23	1.00	0.48	0.17	0.16	2.39	5.01 CMS
Max	4.00	26.80	37.92	22.62	66.32	14.05	12.70	1.60	0.50	0.40	0.40	4.20	66.32 CMS
Min	2.70	3.60	4.90	4.60	6.60	5.30	1.50	0.50	0.30	0.10	0.00	0.00	0.00 CMS
Runoff	9.43	19.22	24.75	23.07	38.83	20.28	11.32	2.59	1.28	0.45	0.39	6.40	158.00 MCM
Momentary Peak	87.55 CMS. at 162.43 m. (MSL.) at 09.00 Hours , on Aug 16 , 2009												
Runoff Yield	5.82 Liters/Second/Square KM.			Momentary Peak Yield			101.684 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

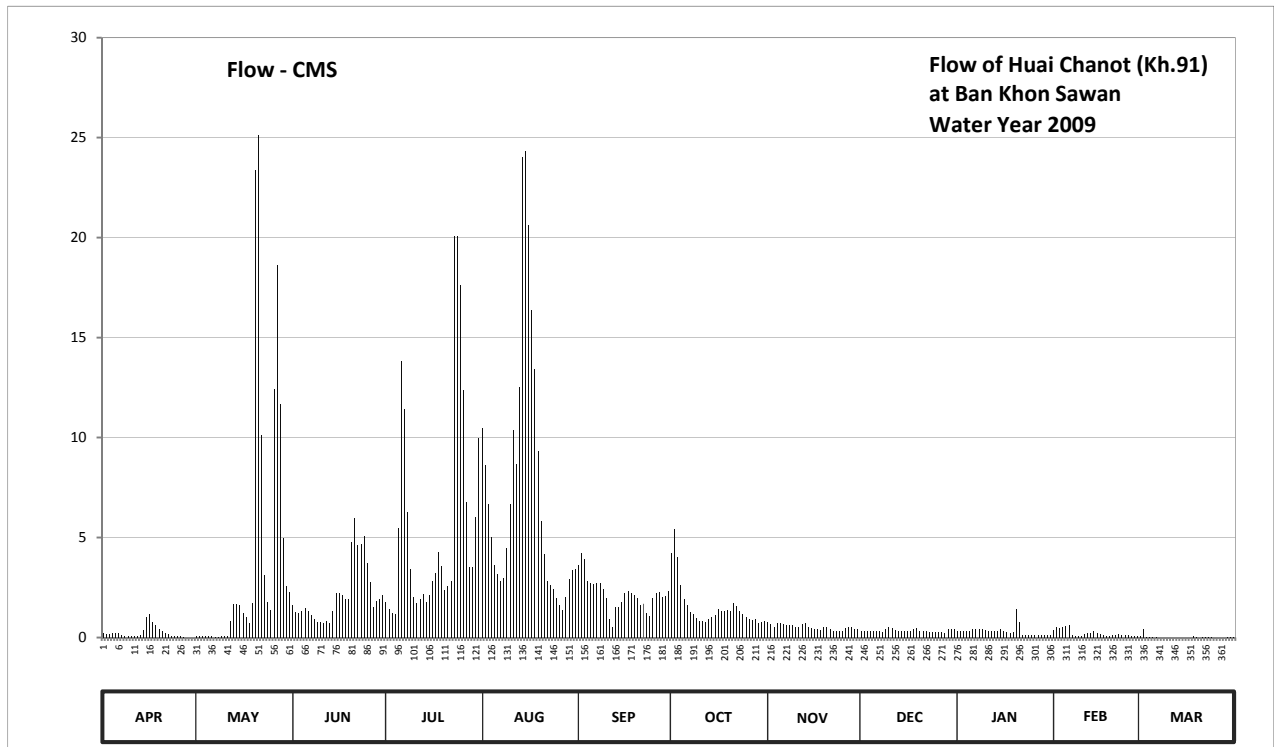
Lat 16 - 47 - 48 N Long 104 - 39 - 45 E

Location : on left bank at the bridge on highway.

	Ban Khon Sawan	Amphoe That Phanom	Changwat Nakhon Phanom
Drainage Area	172 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+149.000 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the footpath of the bridge.	Elevation	+159.228 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +153.680 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.95	149.88	150.51	150.56	152.08	151.02	151.14	150.22	150.00	150.02	150.03	149.89	
2	149.94	149.89	150.39	150.45	151.85	151.14	151.38	150.18	150.00	150.00	150.10	150.06	
3	149.94	149.89	150.38	150.38	151.60	151.08	151.11	150.12	150.00	150.00	150.08	149.84	
4	149.96	149.87	150.41	150.35	151.30	150.85	150.81	150.20	150.00	150.01	150.12	149.82	
5	149.97	149.87	150.46	151.40	151.02	150.83	150.60	150.21	150.00	150.01	150.13	149.82	
6	149.95	149.86	150.41	152.50	150.93	150.82	150.50	150.19	150.00	150.05	150.17	149.82	
7	149.91	149.84	150.34	152.20	150.86	150.83	150.39	150.15	150.00	150.05	149.91	149.80	
8	149.88	149.83	150.28	151.54	150.89	150.83	150.35	150.15	149.98	150.05	149.86	149.80	
9	149.88	149.86	150.23	150.99	151.20	150.76	150.29	150.15	150.06	150.05	149.86	149.80	
10	149.87	149.87	150.23	150.65	151.60	150.62	150.24	150.12	150.10	150.03	149.88	149.80	
11	149.86	149.89	150.20	150.54	152.07	150.28	150.24	150.12	150.08	150.01	149.94	149.80	
12	149.86	150.25	150.24	150.61	151.86	150.10	150.22	150.19	150.03	150.00	149.97	149.80	
13	149.90	150.53	150.21	150.69	152.34	150.48	150.28	150.21	150.01	150.00	149.96	149.80	
14	150.03	150.52	150.41	150.55	153.51	150.47	150.30	150.12	150.00	150.02	150.00	149.80	
15	150.31	150.51	150.71	150.68	153.54	150.55	150.34	150.08	150.00	150.06	149.96	149.80	
16	150.35	150.38	150.71	150.86	153.19	150.71	150.44	150.05	150.00	150.02	149.93	149.80	
17	150.22	150.30	150.67	150.95	152.77	150.73	150.41	150.05	150.00	149.99	149.90	149.80	
18	150.17	150.21	150.61	151.16	152.45	150.71	150.40	150.04	150.07	149.97	149.89	149.85	
19	150.05	150.54	150.61	151.01	151.94	150.67	150.43	150.10	150.08	149.98	149.89	149.84	
20	150.00	153.45	151.25	150.74	151.46	150.62	150.41	150.11	150.02	150.44	149.90	149.80	
21	149.97	153.61	151.49	150.79	151.13	150.50	150.54	150.06	150.00	150.23	149.90	149.83	
22	149.94	152.04	151.22	150.85	150.86	150.53	150.49	150.02	150.00	149.91	149.93	149.83	
23	149.89	150.92	151.24	153.14	150.80	150.37	150.41	150.02	149.99	149.90	149.90	149.83	
24	149.88	150.56	151.32	153.14	150.75	150.32	150.35	150.01	149.99	149.90	149.90	149.82	
25	149.87	150.43	151.04	152.90	150.62	150.62	150.31	150.02	149.99	149.90	149.90	149.80	
26	149.87	152.33	150.84	152.32	150.50	150.70	150.27	150.09	149.99	149.92	149.89	149.80	
27	149.82	153.00	150.47	151.61	150.43	150.72	150.26	150.12	149.98	149.90	149.89	149.80	
28	149.71	152.23	150.58	151.00	150.65	150.65	150.27	150.11	149.97	149.90	149.89	149.80	
29	149.76	151.29	150.61	151.00	150.88	150.66	150.21	150.05	150.05	149.90		149.81	
30	149.76	150.79	150.68	151.50	150.97	150.73	150.22	150.05	150.05	149.90		149.83	
31		150.72		152.02	150.98		150.25		150.05	149.91		149.83	
Mean	149.95	150.75	150.63	151.26	151.52	150.66	150.45	150.11	150.02	150.00	149.95	149.82	
Max	150.35	153.61	151.49	153.14	153.54	151.14	151.38	150.22	150.10	150.44	150.17	150.06	153.61
Min	149.71	149.83	150.20	150.35	150.43	150.10	150.21	150.01	149.97	149.90	149.86	149.80	149.71
Annual Max Momentary Gage Height		154.20		m. (MSL.) ,									at 24.00 Hours , on May 20 , 2009
Zero Gage at Bottom Elevation		149.00		m. (MSL.) ,		River Bed	149.47		m. (MSL)				
Left Bank Elevation				153.67									m. (MSL.) ,
Right Bank Elevation				155.39			Drainage Area	172					Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.08	1.63	1.78	10.44	3.60	4.20	0.76	0.30	0.34	0.36	0.09	
2	0.18	0.09	1.27	1.45	8.60	4.20	5.40	0.66	0.30	0.30	0.50	0.42	
3	0.18	0.09	1.24	1.24	6.70	3.90	4.05	0.54	0.30	0.30	0.46	0.04	
4	0.22	0.07	1.33	1.15	5.00	2.80	2.64	0.70	0.30	0.32	0.54	0.02	
5	0.24	0.07	1.48	5.50	3.60	2.72	1.90	0.73	0.30	0.32	0.56	0.02	
6	0.20	0.06	1.33	13.80	3.15	2.68	1.60	0.68	0.30	0.40	0.64	0.02	
7	0.12	0.04	1.12	11.40	2.84	2.72	1.27	0.60	0.30	0.40	0.12	0.00	
8	0.08	0.03	0.94	6.28	2.96	2.72	1.15	0.60	0.26	0.40	0.06	0.00	
9	0.08	0.06	0.79	3.45	4.50	2.44	0.97	0.60	0.42	0.40	0.06	0.00	
10	0.07	0.07	0.79	2.05	6.70	1.96	0.82	0.54	0.50	0.36	0.08	0.00	
11	0.06	0.09	0.70	1.72	10.36	0.94	0.82	0.54	0.46	0.32	0.18	0.00	
12	0.06	0.85	0.82	1.93	8.68	0.50	0.76	0.68	0.36	0.30	0.24	0.00	
13	0.10	1.69	0.73	2.17	12.52	1.54	0.94	0.73	0.32	0.30	0.22	0.00	
14	0.36	1.66	1.33	1.75	24.01	1.51	1.00	0.54	0.30	0.34	0.30	0.00	
15	1.03	1.63	2.24	2.14	24.34	1.75	1.12	0.46	0.30	0.42	0.22	0.00	
16	1.15	1.24	2.24	2.84	20.61	2.24	1.42	0.40	0.30	0.34	0.16	0.00	
17	0.76	1.00	2.11	3.25	16.39	2.32	1.33	0.40	0.30	0.28	0.10	0.00	
18	0.64	0.73	1.93	4.30	13.40	2.24	1.30	0.38	0.44	0.24	0.09	0.05	
19	0.40	1.72	1.93	3.55	9.32	2.11	1.39	0.50	0.46	0.26	0.09	0.04	
20	0.30	23.37	4.75	2.36	5.80	1.96	1.33	0.52	0.34	1.42	0.10	0.00	
21	0.24	25.11	5.95	2.56	4.15	1.60	1.72	0.42	0.30	0.79	0.10	0.03	
22	0.18	10.12	4.60	2.80	2.84	1.69	1.57	0.34	0.30	0.12	0.16	0.03	
23	0.09	3.10	4.70	20.08	2.60	1.21	1.33	0.34	0.28	0.10	0.10	0.03	
24	0.08	1.78	5.10	20.08	2.40	1.06	1.15	0.32	0.28	0.10	0.10	0.02	
25	0.07	1.39	3.70	17.64	1.96	1.96	1.03	0.34	0.28	0.10	0.10	0.00	
26	0.07	12.44	2.76	12.36	1.60	2.20	0.91	0.48	0.28	0.14	0.09	0.00	
27	0.02	18.60	1.51	6.77	1.39	2.28	0.88	0.54	0.26	0.10	0.09	0.00	
28	0.00	11.64	1.84	3.50	2.05	2.05	0.91	0.52	0.24	0.10	0.09	0.00	
29	0.00	4.95	1.93	3.50	2.92	2.08	0.73	0.40	0.40	0.10		0.01	
30	0.00	2.56	2.14	6.00	3.35	2.32	0.76	0.40	0.40	0.10		0.03	
31		2.28		9.96	3.40		0.85		0.40	0.12		0.03	
Total	7.18	128.61	64.93	179.36	228.58	65.30	47.25	15.66	10.28	9.63	5.91	0.88	763.57 CMSDAY
Mean	0.24	4.15	2.16	5.79	7.37	2.18	1.52	0.52	0.33	0.31	0.21	0.03	2.09 CMS
Max	1.15	25.11	5.95	20.08	24.34	4.20	5.40	0.76	0.50	1.42	0.64	0.42	25.11 CMS
Min	0.00	0.03	0.70	1.15	1.39	0.50	0.73	0.32	0.24	0.10	0.06	0.00	0.00 CMS
Runoff	0.62	11.11	5.61	15.50	19.75	5.64	4.08	1.35	0.89	0.83	0.51	0.08	65.97 MCM
Momentary Peak	32.00 CMS. at 154.20 m. (MSL.) at 24.00 Hours , on May 20 , 2009												
Runoff Yield	12.16 Liters/Second/Square KM.			Momentary Peak Yield			186.047 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

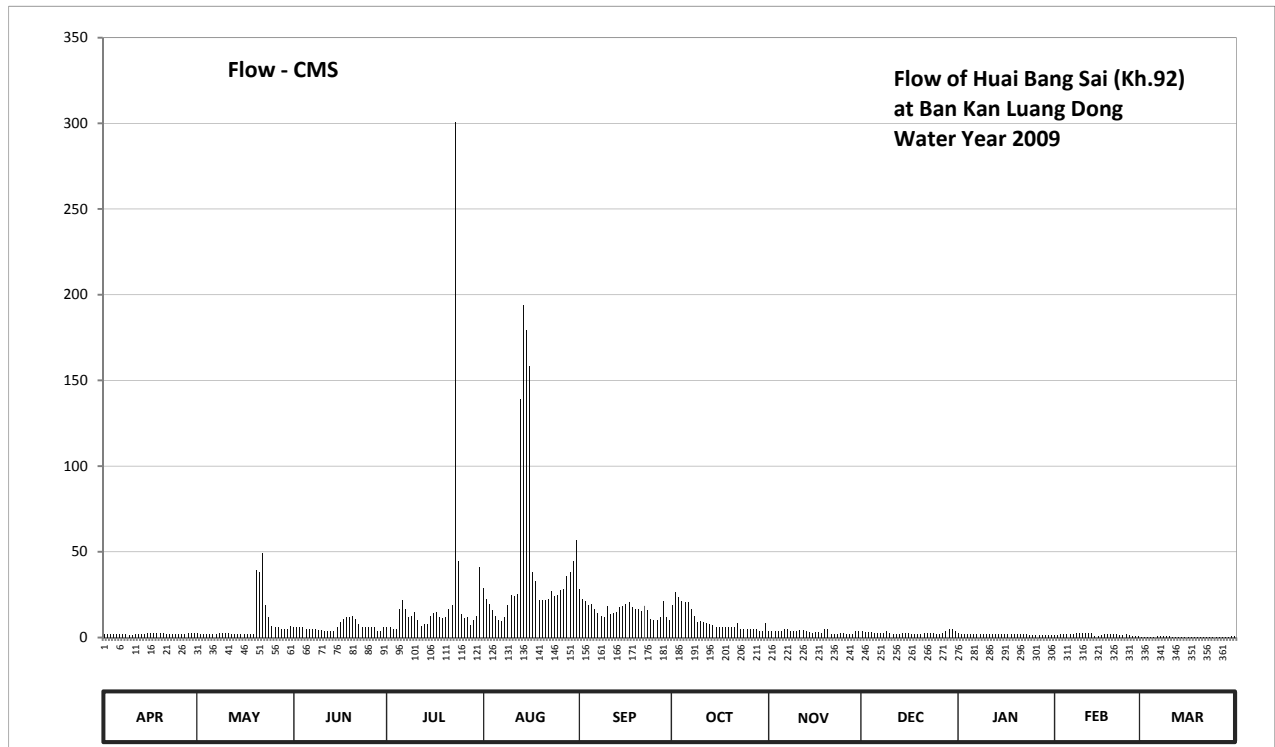
Lat 16 - 44 - 06 N Long 104 - 31 - 23 E

Location : on left bank at the bridge on highway.

	Ban Kan Luang Dong	Amphoe Dong Luang	Changwat Muk Dahan
Drainage Area	1,119 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+147.840 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the footpath of the bridge.	Elevation	+158.890 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +154.330 m.(MSL.), records are channel flow only.		
General Description	Records good. The local weir situated downstream from the gage site. Stage-discharge relation defined by 26 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.05	149.09	149.24	149.24	150.07	150.06	149.74	149.14	149.14	149.08	148.97	148.89	
2	149.04	149.04	149.24	149.24	149.87	149.87	150.01	149.14	149.13	149.06	149.01	148.89	
3	149.04	149.04	149.24	149.19	149.76	149.82	149.92	149.14	149.13	149.06	149.06	148.89	
4	149.04	149.04	149.24	149.19	149.61	149.74	149.81	149.14	149.12	149.06	149.04	148.89	
5	149.04	149.04	149.19	149.63	149.48	149.76	149.79	149.14	149.11	149.06	149.06	148.89	
6	149.04	149.04	149.19	149.84	149.39	149.64	149.79	149.19	149.09	149.06	149.06	148.91	
7	149.04	149.04	149.19	149.64	149.36	149.56	149.65	149.18	149.08	149.05	149.06	148.91	
8	149.04	149.09	149.19	149.45	149.47	149.49	149.48	149.14	149.07	149.05	149.07	148.91	
9	148.99	149.09	149.16	149.48	149.73	149.45	149.35	149.14	149.15	149.04	149.07	148.91	
10	148.99	149.09	149.16	149.58	149.95	149.70	149.37	149.14	149.08	149.05	149.07	148.91	
11	149.04	149.09	149.14	149.39	149.94	149.53	149.34	149.17	149.04	149.05	149.07	148.90	
12	149.04	149.04	149.14	149.26	149.98	149.55	149.33	149.17	149.04	149.05	149.07	148.90	
13	149.04	149.04	149.14	149.31	152.28	149.58	149.30	149.14	149.04	149.05	149.07	148.90	
14	149.04	149.04	149.14	149.31	153.10	149.68	149.29	149.12	149.07	149.05	148.96	148.89	
15	149.09	149.04	149.24	149.48	152.89	149.70	149.24	149.09	149.07	149.05	148.93	148.89	
16	149.09	149.04	149.34	149.54	152.59	149.75	149.24	149.12	149.07	149.05	148.98	148.84	
17	149.09	149.04	149.42	149.58	150.29	149.79	149.24	149.12	149.04	149.06	149.05	148.84	
18	149.09	149.04	149.47	149.47	150.17	149.69	149.24	149.09	149.04	149.05	149.05	148.84	
19	149.09	149.04	149.46	149.44	149.85	149.64	149.23	149.18	149.04	149.04	149.04	148.84	
20	149.09	150.32	149.49	149.45	149.84	149.64	149.24	149.18	149.04	149.04	149.04	148.84	
21	149.04	150.29	149.41	149.65	149.84	149.59	149.24	149.04	149.07	149.03	149.04	148.82	
22	149.04	150.56	149.30	149.74	149.86	149.71	149.33	149.04	149.07	149.03	148.99	148.82	
23	149.04	149.72	149.24	154.55	150.03	149.62	149.20	149.04	149.07	149.02	148.99	148.82	
24	149.04	149.47	149.24	150.45	149.94	149.41	149.19	149.07	149.07	149.01	149.02	148.82	
25	149.04	149.25	149.24	149.53	149.95	149.39	149.19	149.07	149.04	149.00	148.99	148.82	
26	149.04	149.24	149.24	149.44	150.04	149.39	149.18	149.04	149.04	149.00	148.92	148.84	
27	149.06	149.24	149.24	149.47	150.05	149.47	149.18	149.04	149.09	148.99	148.92	148.87	
28	149.09	149.19	149.15	149.28	150.23	149.81	149.18	149.04	149.15	148.99	148.92	148.89	
29	149.09	149.19	149.14	149.40	150.29	149.46	149.15	149.15	149.19	148.98		148.90	
30	149.09	149.20	149.23	149.49	150.45	149.40	149.14	149.15	149.20	148.98		148.92	
31		149.26		150.36	150.74		149.32		149.15	148.97		148.92	
Mean	149.05	149.26	149.25	149.68	150.29	149.63	149.38	149.12	149.09	149.03	149.02	148.87	
Max	149.09	150.56	149.49	154.55	153.10	150.06	150.01	149.19	149.20	149.08	149.07	148.92	154.55
Min	148.99	149.04	149.14	149.19	149.36	149.39	149.14	149.04	149.04	148.97	148.92	148.82	148.82
Annual Max Momentary Gage Height	155.35		m. (MSL.) ,				at 07.00 Hours , on Jul 23 , 2009						
Zero Gage at Bottom Elevation	147.84		m. (MSL.) ,			River Bed	148.16		m. (MSL)				
Left Bank Elevation	154.32		m. (MSL.) ,										
Right Bank Elevation	157.63		m. (MSL.) ,			Drainage Area	1119		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.05	2.49	6.24	6.24	28.94	28.52	19.24	3.64	3.64	2.38	1.20	0.45		
2	1.94	1.94	6.24	6.24	22.62	22.62	26.42	3.64	3.38	2.16	1.61	0.45		
3	1.94	1.94	6.24	4.94	19.76	21.32	23.92	3.64	3.38	2.16	2.16	0.45		
4	1.94	1.94	6.24	4.94	15.86	19.24	21.06	3.64	3.12	2.16	1.94	0.45		
5	1.94	1.94	4.94	16.38	12.48	19.76	20.54	3.64	2.86	2.16	2.16	0.45		
6	1.94	1.94	4.94	21.84	10.14	16.64	20.54	4.94	2.49	2.16	2.16	0.60		
7	1.94	1.94	4.94	16.64	9.36	14.56	16.90	4.68	2.38	2.05	2.16	0.60		
8	1.94	2.49	4.94	11.70	12.22	12.74	12.48	3.64	2.27	2.05	2.27	0.60		
9	1.40	2.49	4.16	12.48	18.98	11.70	9.10	3.64	3.90	1.94	2.27	0.60		
10	1.40	2.49	4.16	15.08	24.70	18.20	9.62	3.64	2.38	2.05	2.27	0.60		
11	1.94	2.49	3.64	10.14	24.44	13.78	8.84	4.42	1.94	2.05	2.27	0.50		
12	1.94	1.94	3.64	6.76	25.48	14.30	8.58	4.42	1.94	2.05	2.27	0.50		
13	1.94	1.94	3.64	8.06	139.24	15.08	7.80	3.64	1.94	2.05	2.27	0.50		
14	1.94	1.94	3.64	8.06	194.00	17.68	7.54	3.12	2.27	2.05	1.10	0.45		
15	2.49	1.94	6.24	12.48	179.30	18.20	6.24	2.49	2.27	2.05	0.80	0.45		
16	2.49	1.94	8.84	14.04	158.30	19.50	6.24	3.12	2.27	2.05	1.30	0.20		
17	2.49	1.94	10.92	15.08	38.18	20.54	6.24	3.12	1.94	2.16	2.05	0.20		
18	2.49	1.94	12.22	12.22	33.14	17.94	6.24	2.49	1.94	2.05	2.05	0.20		
19	2.49	1.94	11.96	11.44	22.10	16.64	5.98	4.68	1.94	1.94	1.94	0.20		
20	2.49	39.44	12.74	11.70	21.84	16.64	6.24	4.68	1.94	1.94	1.94	0.20		
21	1.94	38.18	10.66	16.90	21.84	15.34	6.24	1.94	2.27	1.83	1.94	0.10		
22	1.94	49.52	7.80	19.24	22.36	18.46	8.58	1.94	2.27	1.83	1.40	0.10		
23	1.94	18.72	6.24	301.00	27.26	16.12	5.20	1.94	2.27	1.72	1.40	0.10		
24	1.94	12.22	6.24	44.90	24.44	10.66	4.94	2.27	2.27	1.61	1.72	0.10		
25	1.94	6.50	6.24	13.78	24.70	10.14	4.94	2.27	1.94	1.50	1.40	0.10		
26	1.94	6.24	6.24	11.44	27.68	10.14	4.68	1.94	1.94	1.50	0.70	0.20		
27	2.16	6.24	6.24	12.22	28.10	12.22	4.68	1.94	2.49	1.40	0.70	0.35		
28	2.49	4.94	3.90	7.28	35.66	21.06	4.68	1.94	3.90	1.40	0.70	0.45		
29	2.49	4.94	3.64	10.40	38.18	11.96	3.90	3.90	4.94	1.30		0.50		
30	2.49	5.20	5.98	12.74	44.90	10.40	3.64	3.90	5.20	1.30		0.70		
31		6.76		41.12	57.08		8.32		3.90	1.20		0.70		
Total	62.40	238.51	193.70	717.48	1363.28	492.10	309.56	98.90	83.58	58.25	48.15	12.05	3677.96	CMSDAY
Mean	2.08	7.69	6.46	23.14	43.98	16.40	9.99	3.30	2.70	1.88	1.72	0.39	10.08	CMS
Max	2.49	49.52	12.74	301.00	194.00	28.52	26.42	4.94	5.20	2.38	2.27	0.70	301.00	CMS
Min	1.40	1.94	3.64	4.94	9.36	10.14	3.64	1.94	1.94	1.20	0.70	0.10	0.10	CMS
Runoff	5.39	20.61	16.74	61.99	117.79	42.52	26.75	8.55	7.22	5.03	4.16	1.04	317.78	MCM
Momentary Peak	365.70 CMS. at 155.35 m. (MSL.) at 07.00 Hours , on Jul 23 , 2009													
Runoff Yield	9.01 Liters/Second/Square KM.			Momentary Peak Yield			326.810 Liters/Second/Square KM.							

WATER YEAR : 2009

KHONG RIVER BASIN

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

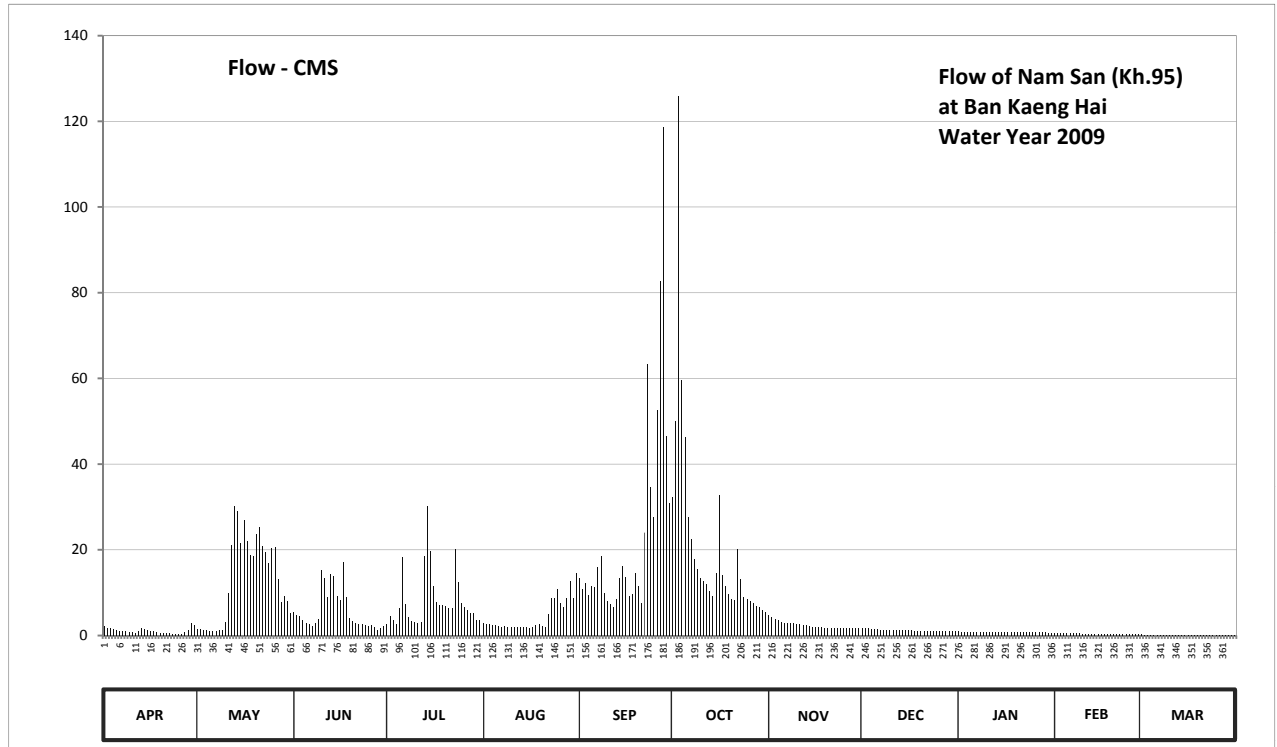
Lat 17 - 26 - 20 N Long 101 - 19 - 50 E

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

	Ban Kaeng Hai	Amphoe Phu Rua	Changwat Loei
Drainage Area	352 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+593.920 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank upstream side at the footpath of the bridge.	Elevation	+605.713 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +601.560 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	595.74	595.53	596.40	595.92	595.97	597.38	599.34	596.30	595.57	595.27	595.10	595.00	
2	595.62	595.48	596.31	596.25	595.90	597.09	600.56	596.23	595.56	595.26	595.10	594.99	
3	595.55	595.42	596.24	596.09	595.86	597.24	602.51	596.16	595.55	595.26	595.10	594.99	
4	595.46	595.37	596.10	595.86	595.85	596.93	601.05	596.09	595.54	595.26	595.10	594.98	
5	595.38	595.34	595.97	596.54	595.79	597.18	600.33	596.04	595.50	595.26	595.10	594.97	
6	595.34	595.29	595.86	597.92	595.74	597.15	598.92	596.00	595.48	595.26	595.10	594.97	
7	595.31	595.28	595.74	596.68	595.68	597.66	598.40	595.99	595.45	595.25	595.10	594.97	
8	595.28	595.41	595.95	596.20	595.72	597.95	597.88	595.98	595.43	595.25	595.10	594.97	
9	595.24	595.45	596.13	596.05	595.69	596.99	597.62	595.95	595.41	595.25	595.09	594.96	
10	595.18	596.03	597.58	596.02	595.67	596.75	597.39	595.90	595.41	595.25	595.08	594.96	
11	595.17	596.99	597.39	595.97	595.67	596.67	597.30	595.86	595.40	595.25	595.07	594.96	
12	595.34	598.23	596.88	596.02	595.63	596.57	597.21	595.83	595.40	595.24	595.06	594.96	
13	595.58	599.15	597.48	597.94	595.66	596.82	597.03	595.79	595.39	595.24	595.06	594.95	
14	595.47	599.04	597.43	599.16	595.66	597.39	596.89	595.73	595.39	595.23	595.06	594.95	
15	595.41	598.28	596.90	598.07	595.63	597.68	597.51	595.69	595.38	595.22	595.05	594.95	
16	595.35	598.84	596.79	597.18	595.61	597.41	599.39	595.66	595.37	595.21	595.04	594.95	
17	595.27	598.33	597.80	596.73	595.71	596.90	597.47	595.65	595.37	595.21	595.04	594.94	
18	595.19	597.98	596.87	596.64	595.80	596.95	597.18	595.63	595.36	595.20	595.03	594.94	
19	595.15	597.94	596.18	596.65	595.86	597.51	596.95	595.62	595.35	595.20	595.02	594.94	
20	595.13	598.53	596.05	596.61	595.77	597.17	596.82	595.60	595.35	595.20	595.02	594.94	
21	595.11	598.69	595.98	596.55	595.66	596.71	596.78	595.59	595.34	595.20	595.01	594.94	
22	595.09	598.20	595.89	596.55	596.34	598.55	598.12	595.56	595.33	595.20	595.01	594.93	
23	595.08	598.05	595.89	598.12	596.84	601.21	597.35	595.57	595.31	595.25	595.01	594.93	
24	595.06	597.78	595.83	597.27	596.84	599.54	596.87	595.58	595.31	595.24	595.01	594.92	
25	595.04	598.16	595.78	596.71	597.10	598.91	596.81	595.58	595.29	595.21	595.01	594.90	
26	595.05	598.17	595.80	596.59	596.70	600.70	596.75	595.60	595.28	595.24	595.01	594.90	
27	595.19	597.36	595.65	596.48	596.57	601.78	596.69	595.60	595.28	595.21	595.00	594.90	
28	595.45	596.72	595.41	596.39	596.83	602.42	596.62	595.60	595.28	595.20	595.00	594.90	
29	595.97	596.91	595.61	596.36	597.31	600.34	596.57	595.59	595.27	595.18		594.90	
30	595.83	596.76	595.75	596.10	596.83	599.23	596.50	595.58	595.27	595.15		594.89	
31		596.36		596.09	597.52		596.41		595.27	595.11		594.89	
Mean	595.33	597.13	596.32	596.70	596.11	598.09	597.85	595.79	595.38	595.22	595.05	594.94	
Max	595.97	599.15	597.80	599.16	597.52	602.42	602.51	596.30	595.57	595.27	595.10	595.00	602.51
Min	595.04	595.28	595.41	595.86	595.61	596.57	596.41	595.56	595.27	595.11	595.00	594.89	594.89
Annual Max Momentary Gage Height	603.01		m. (MSL.) ,			at 10.00 Hours , on Oct 3 , 2009							
Zero Gage at Bottom Elevation	593.92		m. (MSL.) ,			River Bed	594.65	m. (MSL)					
Left Bank Elevation	605.75		m. (MSL.) ,										
Right Bank Elevation	601.55		m. (MSL.) ,			Drainage Area	352	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.19	1.58	5.40	2.75	2.91	13.42	32.24	4.80	1.68	0.93	0.50	0.25	
2	1.81	1.45	4.86	4.50	2.69	10.81	49.96	4.38	1.65	0.90	0.50	0.23	
3	1.63	1.30	4.44	3.54	2.56	12.16	125.95	3.96	1.63	0.90	0.50	0.23	
4	1.40	1.18	3.60	2.56	2.53	9.44	59.50	3.54	1.60	0.90	0.50	0.22	
5	1.20	1.10	2.91	6.32	2.34	11.62	46.28	3.24	1.50	0.90	0.50	0.20	
6	1.10	0.97	2.56	18.28	2.19	11.35	27.70	3.00	1.45	0.90	0.50	0.20	
7	1.03	0.95	2.19	7.44	2.00	15.94	22.60	2.97	1.38	0.88	0.50	0.20	
8	0.95	1.27	2.84	4.20	2.12	18.55	17.92	2.94	1.33	0.88	0.50	0.20	
9	0.85	1.38	3.78	3.30	2.03	9.92	15.58	2.84	1.27	0.88	0.48	0.19	
10	0.70	3.18	15.22	3.12	1.97	8.00	13.51	2.69	1.27	0.88	0.45	0.19	
11	0.67	9.92	13.51	2.91	1.97	7.36	12.70	2.56	1.25	0.88	0.43	0.19	
12	1.10	21.07	9.04	3.12	1.84	6.56	11.89	2.47	1.25	0.85	0.40	0.19	
13	1.70	30.15	14.32	18.46	1.94	8.56	10.27	2.34	1.23	0.85	0.40	0.18	
14	1.42	28.94	13.87	30.26	1.94	13.51	9.12	2.16	1.23	0.82	0.40	0.18	
15	1.27	21.52	9.20	19.63	1.84	16.12	14.59	2.03	1.20	0.80	0.37	0.18	
16	1.12	26.90	8.32	11.62	1.78	13.69	32.79	1.94	1.18	0.78	0.35	0.18	
17	0.93	21.97	17.20	7.84	2.09	9.20	14.23	1.91	1.18	0.78	0.35	0.16	
18	0.73	18.82	8.96	7.12	2.38	9.60	11.62	1.84	1.15	0.75	0.33	0.16	
19	0.63	18.46	4.08	7.20	2.56	14.59	9.60	1.81	1.12	0.75	0.30	0.16	
20	0.58	23.80	3.30	6.88	2.28	11.53	8.56	1.75	1.12	0.75	0.30	0.16	
21	0.52	25.40	2.94	6.40	1.94	7.68	8.24	1.73	1.10	0.75	0.28	0.16	
22	0.48	20.80	2.66	6.40	5.04	24.00	20.08	1.65	1.08	0.75	0.28	0.14	
23	0.45	19.45	2.66	20.08	8.72	63.25	13.15	1.68	1.03	0.88	0.28	0.14	
24	0.40	17.02	2.47	12.43	8.72	34.56	8.96	1.70	1.03	0.85	0.28	0.13	
25	0.35	20.44	2.31	7.68	10.90	27.60	8.48	1.70	0.97	0.78	0.28	0.10	
26	0.37	20.53	2.38	6.72	7.60	52.50	8.00	1.75	0.95	0.85	0.28	0.10	
27	0.73	13.24	1.91	5.88	6.56	82.70	7.52	1.75	0.95	0.78	0.25	0.10	
28	1.38	7.76	1.27	5.34	8.64	118.60	6.96	1.75	0.95	0.75	0.25	0.10	
29	2.91	9.28	1.78	5.16	12.79	46.44	6.56	1.73	0.93	0.70		0.10	
30	2.47	8.08	2.22	3.60	8.64	31.03	6.00	1.70	0.93	0.63		0.09	
31		5.16		3.54	14.68		5.46		0.93	0.52		0.09	
Total	33.07	403.07	172.20	254.28	138.19	720.29	646.02	72.31	37.52	25.20	10.74	5.10	2517.99 CMSDAY
Mean	1.10	13.00	5.74	8.20	4.46	24.01	20.84	2.41	1.21	0.81	0.38	0.16	6.90 CMS
Max	2.91	30.15	17.20	30.26	14.68	118.60	125.95	4.80	1.68	0.93	0.50	0.25	125.95 CMS
Min	0.35	0.95	1.27	2.56	1.78	6.56	5.46	1.65	0.93	0.52	0.25	0.09	0.09 CMS
Runoff	2.86	34.83	14.88	21.97	11.94	62.23	55.82	6.25	3.24	2.18	0.93	0.44	217.55 MCM
Momentary Peak	186.35 CMS. at 603.01 m. (MSL.) at 10.00 Hours , on Oct 3 , 2009												
Runoff Yield	19.60 Liters/Second/Square KM.			Momentary Peak Yield			529.403 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

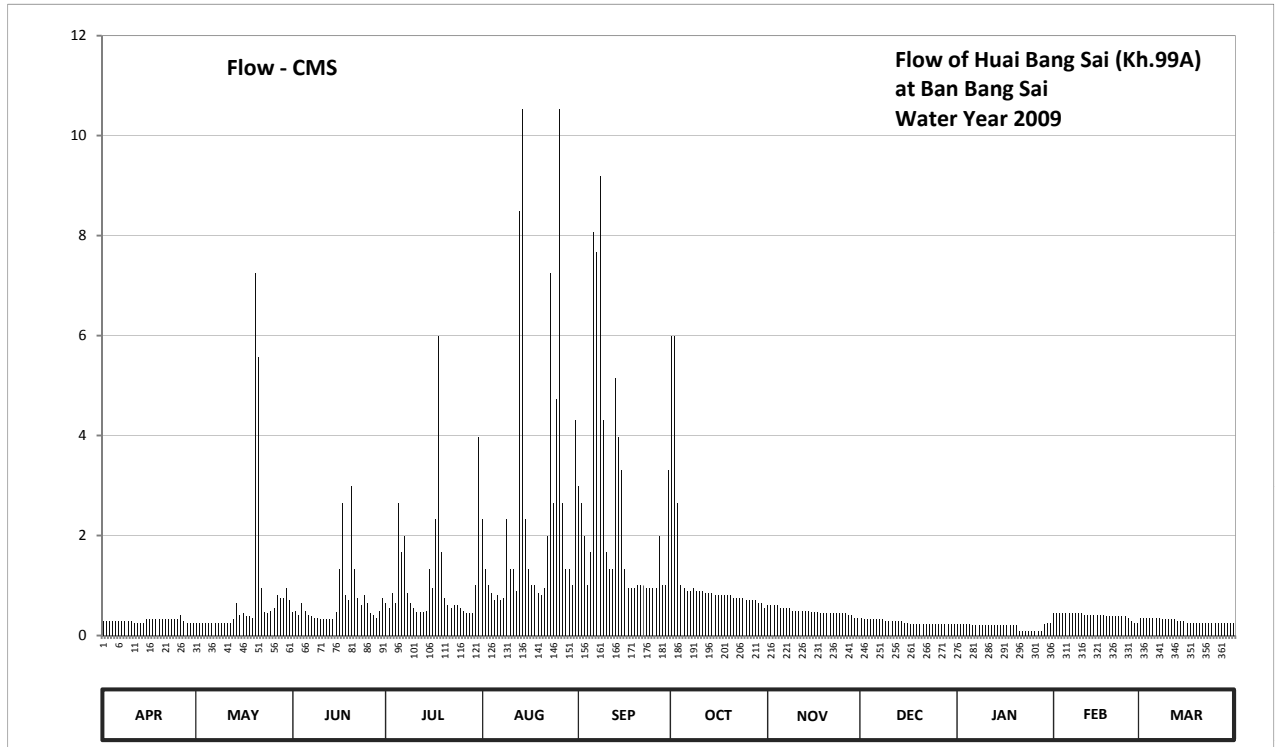
Lat 16 - 42 - 05 N Long 104 - 14 - 46 E

Location : on right bank at Ban Bang Sai

	Ban Bang Sai	Amphoe Dong Luang	Changwat Mukdahan
Drainage Area	115 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+248.500 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank near the gage site.	Elevation	+255.082 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 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	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	250.83	250.82	250.89	250.93	251.04	251.06	251.14	250.92	250.85	250.81	250.88	250.85	
2	250.83	250.82	250.90	250.91	251.01	251.05	251.14	250.92	250.84	250.81	250.88	250.85	
3	250.83	250.82	250.87	250.97	251.00	251.03	251.05	250.92	250.84	250.81	250.88	250.85	
4	250.83	250.82	250.93	250.93	250.97	251.00	251.00	250.92	250.84	250.81	250.88	250.85	
5	250.83	250.82	250.90	251.05	250.94	251.02	250.99	250.91	250.84	250.81	250.88	250.85	
6	250.83	250.82	250.87	251.02	250.96	251.19	250.98	250.91	250.84	250.80	250.88	250.85	
7	250.83	250.82	250.86	251.03	250.94	251.18	250.98	250.91	250.84	250.80	250.88	250.85	
8	250.83	250.82	250.85	250.97	250.95	251.21	250.99	250.91	250.84	250.80	250.88	250.84	
9	250.83	250.82	250.85	250.93	251.04	251.10	250.98	250.90	250.83	250.80	250.88	250.84	
10	250.83	250.82	250.84	250.91	251.01	251.02	250.98	250.90	250.83	250.80	250.88	250.84	
11	250.82	250.82	250.84	250.89	251.01	251.01	250.98	250.90	250.83	250.80	250.87	250.84	
12	250.82	250.82	250.84	250.89	250.98	251.01	250.97	250.90	250.83	250.80	250.87	250.84	
13	250.82	250.84	250.84	250.89	251.20	251.12	250.97	250.90	250.83	250.80	250.87	250.83	
14	250.82	250.93	250.84	250.90	251.23	251.09	250.97	250.90	250.83	250.80	250.87	250.83	
15	250.84	250.87	250.89	251.01	251.04	251.07	250.96	250.89	250.82	250.80	250.87	250.83	
16	250.84	250.88	251.01	250.99	251.01	251.01	250.96	250.89	250.82	250.80	250.87	250.82	
17	250.84	250.86	251.05	251.04	251.00	250.99	250.96	250.89	250.81	250.80	250.87	250.82	
18	250.84	250.86	250.96	251.14	251.00	250.99	250.96	250.88	250.81	250.80	250.86	250.82	
19	250.84	250.85	250.94	251.02	250.97	250.99	250.96	250.88	250.81	250.80	250.86	250.82	
20	250.84	251.17	251.06	250.95	250.96	251.00	250.96	250.88	250.81	250.80	250.86	250.82	
21	250.84	251.13	251.01	250.92	250.99	251.00	250.95	250.88	250.81	250.79	250.86	250.82	
22	250.84	250.99	250.95	250.91	251.03	251.00	250.95	250.88	250.81	250.79	250.86	250.82	
23	250.84	250.89	250.92	250.92	251.17	250.99	250.95	250.88	250.81	250.79	250.86	250.82	
24	250.84	250.88	250.96	250.92	251.05	250.99	250.95	250.88	250.81	250.79	250.86	250.82	
25	250.84	250.90	250.93	250.91	251.11	250.99	250.94	250.88	250.81	250.79	250.85	250.82	
26	250.87	250.91	250.88	250.90	251.23	250.99	250.94	250.88	250.81	250.79	250.83	250.82	
27	250.83	250.96	250.87	250.88	251.05	251.03	250.94	250.87	250.81	250.79	250.82	250.82	
28	250.82	250.95	250.85	250.88	251.01	251.00	250.94	250.87	250.81	250.79	250.82	250.82	
29	250.82	250.95	250.90	250.88	251.01	251.00	250.93	250.85	250.81	250.81		250.82	
30	250.82	250.99	250.95	251.00	251.00	251.07	250.93	250.85	250.81	250.82		250.82	
31		250.94		251.09	251.10		250.91		250.81	250.82		250.82	
Mean	250.83	250.89	250.91	250.95	251.03	251.04	250.97	250.89	250.82	250.80	250.87	250.83	
Max	250.87	251.17	251.06	251.14	251.23	251.21	251.14	250.92	250.85	250.82	250.88	250.85	251.23
Min	250.82	250.82	250.84	250.88	250.94	250.99	250.91	250.85	250.81	250.79	250.82	250.82	250.79
Annual Max Momentary Gage Height		251.44	m. (MSL.) ,				at 21.00 Hours , on Aug 13 , 2009						
Zero Gage at Bottom Elevation		248.50	m. (MSL.) ,			River Bed	250.50	m. (MSL)					
Left Bank Elevation		257.13	m. (MSL.) ,										
Right Bank Elevation		255.58	m. (MSL.) ,			Drainage Area	115	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.29	0.26	0.47	0.65	2.32	2.98	5.98	0.60	0.35	0.23	0.44	0.35	
2	0.29	0.26	0.50	0.55	1.33	2.65	5.98	0.60	0.32	0.23	0.44	0.35	
3	0.29	0.26	0.41	0.85	1.00	1.99	2.65	0.60	0.32	0.23	0.44	0.35	
4	0.29	0.26	0.65	0.65	0.85	1.00	1.00	0.60	0.32	0.23	0.44	0.35	
5	0.29	0.26	0.50	2.65	0.70	1.66	0.95	0.55	0.32	0.23	0.44	0.35	
6	0.29	0.26	0.41	1.66	0.80	8.08	0.90	0.55	0.32	0.20	0.44	0.35	
7	0.29	0.26	0.38	1.99	0.70	7.66	0.90	0.55	0.32	0.20	0.44	0.35	
8	0.29	0.26	0.35	0.85	0.75	9.18	0.95	0.55	0.32	0.20	0.44	0.32	
9	0.29	0.26	0.35	0.65	2.32	4.30	0.90	0.50	0.29	0.20	0.44	0.32	
10	0.29	0.26	0.32	0.55	1.33	1.66	0.90	0.50	0.29	0.20	0.44	0.32	
11	0.26	0.26	0.32	0.47	1.33	1.33	0.90	0.50	0.29	0.20	0.41	0.32	
12	0.26	0.26	0.32	0.47	0.90	1.33	0.85	0.50	0.29	0.20	0.41	0.32	
13	0.26	0.32	0.32	0.47	8.50	5.14	0.85	0.50	0.29	0.20	0.41	0.29	
14	0.26	0.65	0.32	0.50	10.54	3.97	0.85	0.50	0.29	0.20	0.41	0.29	
15	0.32	0.41	0.47	1.33	2.32	3.31	0.80	0.47	0.26	0.20	0.41	0.29	
16	0.32	0.44	1.33	0.95	1.33	1.33	0.80	0.47	0.26	0.20	0.41	0.26	
17	0.32	0.38	2.65	2.32	1.00	0.95	0.80	0.47	0.23	0.20	0.41	0.26	
18	0.32	0.38	0.80	5.98	1.00	0.95	0.80	0.44	0.23	0.20	0.38	0.26	
19	0.32	0.35	0.70	1.66	0.85	0.95	0.80	0.44	0.23	0.20	0.38	0.26	
20	0.32	7.24	2.98	0.75	0.80	1.00	0.80	0.44	0.23	0.20	0.38	0.26	
21	0.32	5.56	1.33	0.60	0.95	1.00	0.75	0.44	0.23	0.10	0.38	0.26	
22	0.32	0.95	0.75	0.55	1.99	1.00	0.75	0.44	0.23	0.10	0.38	0.26	
23	0.32	0.47	0.60	0.60	7.24	0.95	0.75	0.44	0.23	0.10	0.38	0.26	
24	0.32	0.44	0.80	0.60	2.65	0.95	0.75	0.44	0.23	0.10	0.38	0.26	
25	0.32	0.50	0.65	0.55	4.72	0.95	0.70	0.44	0.23	0.10	0.35	0.26	
26	0.41	0.55	0.44	0.50	10.54	0.95	0.70	0.44	0.23	0.10	0.29	0.26	
27	0.29	0.80	0.41	0.44	2.65	1.99	0.70	0.41	0.23	0.10	0.26	0.26	
28	0.26	0.75	0.35	0.44	1.33	1.00	0.70	0.41	0.23	0.10	0.26	0.26	
29	0.26	0.75	0.50	0.44	1.33	1.00	0.65	0.35	0.23	0.23		0.26	
30	0.26	0.95	0.75	1.00	1.00	3.31	0.65	0.35	0.23	0.26		0.26	
31		0.70		3.97	4.30		0.55		0.23	0.26		0.26	
Total	8.94	25.71	21.13	35.64	79.37	74.52	37.01	14.49	8.30	5.70	11.09	9.08	330.98 CMSDAY
Mean	0.30	0.83	0.70	1.15	2.56	2.48	1.19	0.48	0.27	0.18	0.40	0.29	0.91 CMS
Max	0.41	7.24	2.98	5.98	10.54	9.18	5.98	0.60	0.35	0.26	0.44	0.35	10.54 CMS
Min	0.26	0.26	0.32	0.44	0.70	0.95	0.55	0.35	0.23	0.10	0.26	0.26	0.10 CMS
Runoff	0.77	2.22	1.83	3.08	6.86	6.44	3.20	1.25	0.72	0.49	0.96	0.79	28.60 MCM
Momentary Peak	30.68 CMS. at 251.44 m. (MSL.) at 21.00 Hours , on Aug 13 , 2009												
Runoff Yield	7.89 Liters/Second/Square KM.			Momentary Peak Yield			266.783 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

Huai Muk at Ban Phon Sai , Mukdahan (Kh.101)

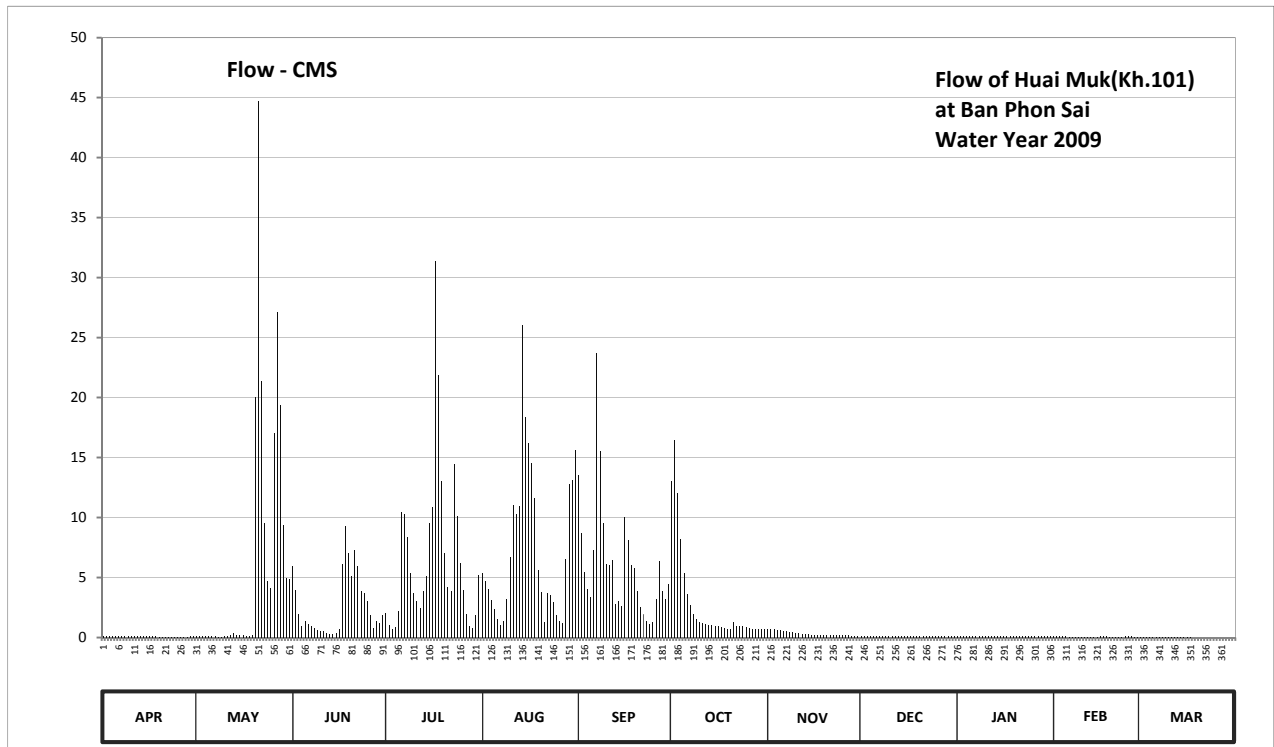
Lat 16 - 35 - 07 N Long 104 - 37 - 13 E

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

	Ban Phon Sai	Amphoe Mueang	Changwat Mukdahan
Drainage Area	414 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+136.900 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank about 1 meter from the top staff gage.	Elevation	+146.237 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.45	137.39	138.72	138.09	138.64	139.60	139.55	137.73	137.45	137.40	137.39	137.38	
2	137.45	137.40	138.44	137.90	138.55	139.08	139.89	137.74	137.45	137.40	137.39	137.38	
3	137.45	137.40	138.08	137.77	138.45	138.66	139.45	137.73	137.46	137.40	137.39	137.38	
4	137.43	137.39	137.86	137.82	138.29	138.45	139.02	137.70	137.46	137.40	137.39	137.37	
5	137.43	137.39	137.98	138.13	138.16	138.33	138.65	137.69	137.45	137.40	137.39	137.37	
6	137.43	137.39	137.92	139.27	138.01	138.90	138.38	137.67	137.45	137.41	137.38	137.37	
7	137.43	137.39	137.86	139.25	137.91	140.56	138.21	137.65	137.45	137.41	137.38	137.35	
8	137.43	137.38	137.80	139.04	137.98	139.80	138.08	137.63	137.45	137.41	137.38	137.35	
9	137.41	137.38	137.69	138.65	138.31	139.17	138.01	137.61	137.45	137.41	137.38	137.34	
10	137.40	137.40	137.66	138.39	138.83	138.75	137.96	137.60	137.45	137.42	137.38	137.34	
11	137.39	137.43	137.65	138.28	139.34	138.74	137.94	137.59	137.44	137.42	137.38	137.32	
12	137.39	137.48	137.59	138.17	139.25	138.79	137.93	137.55	137.44	137.42	137.38	137.32	
13	137.43	137.60	137.56	138.42	139.33	138.23	137.91	137.54	137.44	137.42	137.38	137.32	
14	137.43	137.52	137.53	138.61	140.75	138.27	137.90	137.53	137.43	137.41	137.38	137.32	
15	137.43	137.52	137.57	139.17	140.08	138.20	137.89	137.52	137.43	137.41	137.38	137.31	
16	137.41	137.48	137.74	139.32	139.87	139.23	137.89	137.51	137.43	137.41	137.39	137.31	
17	137.41	137.46	138.75	141.17	139.70	139.01	137.85	137.50	137.43	137.41	137.39	137.31	
18	137.40	137.45	139.14	140.40	139.40	138.73	137.78	137.49	137.43	137.40	137.39	137.30	
19	137.36	137.47	138.87	139.55	138.68	138.70	137.76	137.49	137.43	137.40	137.38	137.29	
20	137.36	140.23	138.61	138.87	138.41	138.42	137.74	137.49	137.41	137.40	137.38	137.29	
21	137.35	142.04	138.90	138.48	137.96	138.19	137.95	137.48	137.41	137.40	137.38	137.29	
22	137.35	140.35	138.72	138.43	138.39	138.08	137.88	137.47	137.40	137.40	137.38	137.28	
23	137.35	139.17	138.42	139.69	138.36	137.98	137.88	137.47	137.40	137.40	137.38	137.28	
24	137.35	138.55	138.40	139.24	138.26	137.92	137.89	137.47	137.40	137.41	137.39	137.26	
25	137.33	138.47	138.27	138.76	138.06	137.95	137.85	137.47	137.40	137.41	137.39	137.26	
26	137.33	139.95	138.07	138.44	137.98	138.31	137.79	137.47	137.40	137.41	137.39	137.25	
27	137.33	140.84	137.79	138.08	137.94	138.78	137.75	137.47	137.40	137.41	137.38	137.25	
28	137.31	140.17	137.98	137.88	138.80	138.43	137.73	137.46	137.40	137.41	137.38	137.25	
29	137.39	139.15	137.94	137.79	139.53	138.30	137.75	137.46	137.40	137.41		137.25	
30	137.39	138.59	138.07	138.06	139.56	138.52	137.75	137.45	137.40	137.40		137.24	
31		138.58		138.62	139.81		137.74		137.40	137.40		137.24	
Mean	137.39	138.30	138.12	138.70	138.79	138.67	138.12	137.55	137.43	137.41	137.38	137.31	
Max	137.45	142.04	139.14	141.17	140.75	140.56	139.89	137.74	137.46	137.42	137.39	137.38	142.04
Min	137.31	137.38	137.53	137.77	137.91	137.92	137.73	137.45	137.40	137.40	137.38	137.24	137.24
Annual Max Momentary Gage Height		142.58		m. (MSL.) ,									at 24.00 Hours , on May 20 , 2009
Zero Gage at Bottom Elevation		136.90		m. (MSL.) ,		River Bed	136.67		m. (MSL)				
Left Bank Elevation			144.29		m. (MSL.) ,								
Right Bank Elevation		143.77		m. (MSL.) ,		Drainage Area	414		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.09	5.93	2.00	5.34	13.50	13.00	0.66	0.15	0.10	0.09	0.08	
2	0.15	0.10	3.96	1.00	4.67	8.72	16.40	0.68	0.15	0.10	0.09	0.08	
3	0.15	0.10	1.95	0.74	4.02	5.48	12.05	0.66	0.16	0.10	0.09	0.08	
4	0.13	0.09	0.92	0.84	3.12	4.02	8.18	0.60	0.16	0.10	0.09	0.07	
5	0.13	0.09	1.40	2.23	2.40	3.35	5.41	0.58	0.15	0.10	0.09	0.07	
6	0.13	0.09	1.10	10.43	1.56	7.26	3.63	0.54	0.15	0.11	0.08	0.07	
7	0.13	0.09	0.92	10.25	1.05	23.72	2.68	0.50	0.15	0.11	0.08	0.05	
8	0.13	0.08	0.80	8.36	1.40	15.50	1.95	0.46	0.15	0.11	0.08	0.05	
9	0.11	0.08	0.58	5.41	3.24	9.53	1.56	0.42	0.15	0.11	0.08	0.04	
10	0.10	0.10	0.52	3.68	6.74	6.15	1.30	0.40	0.15	0.12	0.08	0.04	
11	0.09	0.13	0.50	3.07	11.06	6.08	1.20	0.38	0.14	0.12	0.08	0.02	
12	0.09	0.18	0.38	2.45	10.25	6.45	1.15	0.30	0.14	0.12	0.08	0.02	
13	0.13	0.40	0.32	3.85	10.97	2.79	1.05	0.28	0.14	0.12	0.08	0.02	
14	0.13	0.24	0.26	5.11	26.00	3.01	1.00	0.26	0.13	0.11	0.08	0.02	
15	0.13	0.24	0.34	9.53	18.38	2.62	0.98	0.24	0.13	0.11	0.08	0.01	
16	0.11	0.18	0.68	10.88	16.20	10.07	0.98	0.22	0.13	0.11	0.09	0.01	
17	0.11	0.16	6.15	31.38	14.50	8.09	0.90	0.20	0.13	0.11	0.09	0.01	
18	0.10	0.15	9.26	21.90	11.60	6.00	0.76	0.19	0.13	0.10	0.09	0.00	
19	0.06	0.17	7.04	13.00	5.63	5.78	0.72	0.19	0.13	0.10	0.08	0.00	
20	0.06	20.03	5.11	7.04	3.80	3.85	0.68	0.19	0.11	0.10	0.08	0.00	
21	0.05	44.72	7.26	4.19	1.30	2.56	1.25	0.18	0.11	0.10	0.08	0.00	
22	0.05	21.35	5.93	3.91	3.68	1.95	0.96	0.17	0.10	0.10	0.08	0.00	
23	0.05	9.53	3.85	14.40	3.52	1.40	0.96	0.17	0.10	0.10	0.08	0.00	
24	0.05	4.67	3.74	10.16	2.96	1.10	0.98	0.17	0.10	0.11	0.09	0.00	
25	0.03	4.13	3.01	6.22	1.84	1.25	0.90	0.17	0.10	0.11	0.09	0.00	
26	0.03	17.00	1.89	3.96	1.40	3.24	0.78	0.17	0.10	0.11	0.09	0.00	
27	0.03	27.08	0.78	1.95	1.20	6.37	0.70	0.17	0.10	0.11	0.08	0.00	
28	0.01	19.37	1.40	0.96	6.52	3.91	0.66	0.16	0.10	0.11	0.08	0.00	
29	0.09	9.35	1.20	0.78	12.80	3.18	0.70	0.16	0.10	0.11	0.00	0.00	
30	0.09	4.97	1.89	1.84	13.10	4.45	0.70	0.15	0.10	0.10	0.00	0.00	
31		4.89		5.19	15.60		0.68		0.10	0.10		0.00	
Total	2.80	189.85	79.07	206.71	225.85	181.38	84.85	9.62	3.94	3.32	2.35	0.74	990.48 CMSDAY
Mean	0.09	6.12	2.64	6.67	7.29	6.05	2.74	0.32	0.13	0.11	0.08	0.02	2.71 CMS
Max	0.15	44.72	9.26	31.38	26.00	23.72	16.40	0.68	0.16	0.12	0.09	0.08	44.72 CMS
Min	0.01	0.08	0.26	0.74	1.05	1.10	0.66	0.15	0.10	0.10	0.08	0.00	0.00 CMS
Runoff	0.24	16.40	6.83	17.86	19.51	15.67	7.33	0.83	0.34	0.29	0.20	0.06	85.58 MCM
Momentary Peak	54.60 CMS. at 142.58 m. (MSL.) at 24.00 Hours , on May 20 , 2009												
Runoff Yield	6.55 Liters/Second/Square KM.			Momentary Peak Yield			131.884 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

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

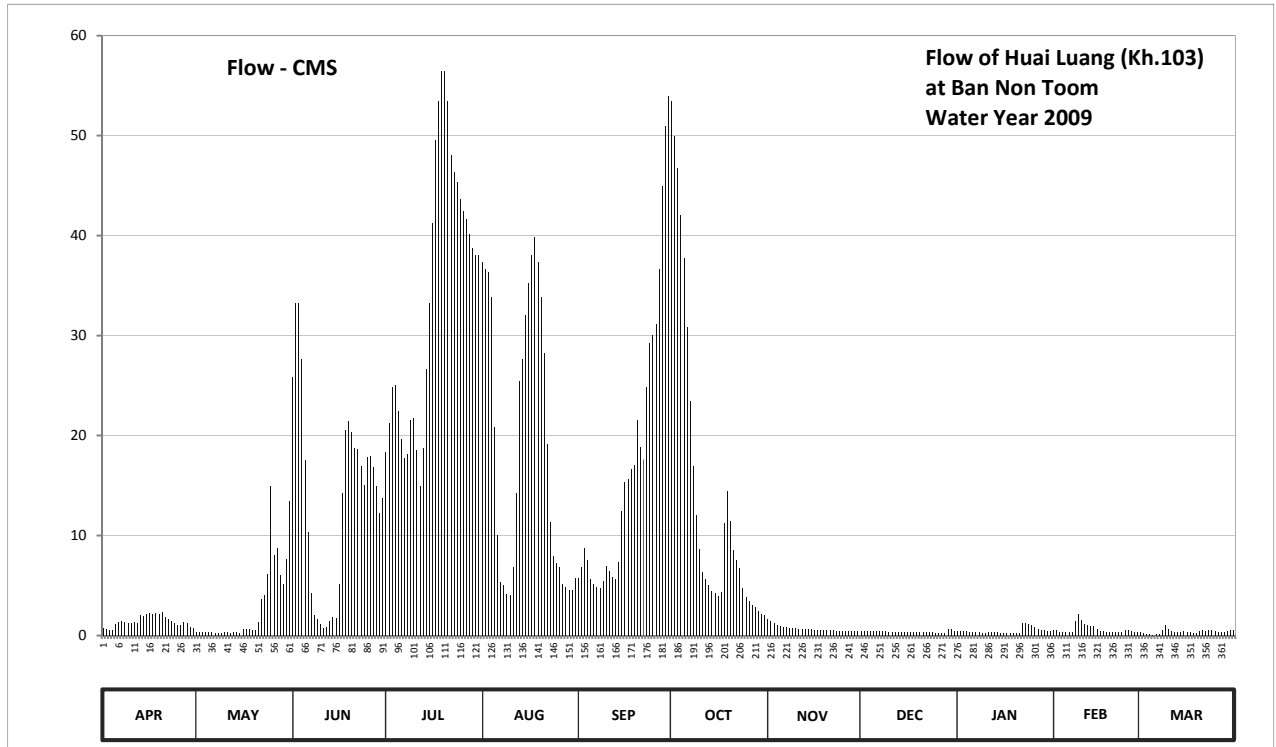
Lat 17 - 28 - 56 N Long 102 - 47 - 49 E

Location : on right bank at the bridge on highway.

	Ban Non Toom	Amphoe Mueang	Changwat Udon Thani
Drainage Area	1,235 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+166.500 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank downstream side at the footpath of the bridge.	Elevation	+172.486 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	167.04	166.91	170.19	169.75	170.61	168.13	170.99	167.25	166.95	166.95	166.97	166.90	
2	167.00	166.91	170.49	169.95	170.59	168.30	170.92	167.20	166.95	166.94	166.97	166.87	
3	166.98	166.90	170.49	170.14	170.58	168.59	170.85	167.15	166.94	166.94	166.90	166.85	
4	166.99	166.92	170.28	170.15	170.51	168.42	170.74	167.10	166.94	166.94	166.90	166.85	
5	167.14	166.90	169.68	170.02	169.92	168.11	170.62	167.08	166.94	166.90	166.90	166.81	
6	167.18	166.90	168.79	169.84	168.75	168.03	170.41	167.05	166.94	166.90	166.90	166.86	
7	167.21	166.89	167.86	169.70	168.06	167.97	170.07	167.05	166.94	166.90	166.91	166.86	
8	167.19	166.88	167.35	169.73	168.00	167.95	169.62	167.03	166.93	166.90	167.21	166.97	
9	167.17	166.88	167.25	169.97	167.85	168.07	169.00	167.03	166.93	166.89	167.39	167.10	
10	167.17	166.90	167.14	169.98	167.84	168.33	168.58	167.03	166.91	166.89	167.24	167.02	
11	167.18	166.90	167.04	169.76	168.31	168.25	168.23	167.02	166.91	166.90	167.14	166.93	
12	167.17	166.89	167.07	169.37	169.28	168.14	168.11	167.02	166.91	166.90	167.10	166.91	
13	167.36	166.90	167.21	169.78	170.17	168.10	168.01	167.00	166.91	166.90	167.08	166.90	
14	167.33	166.90	167.30	170.23	170.28	168.39	167.90	167.00	166.90	166.90	167.09	166.90	
15	167.38	166.89	167.29	170.49	170.45	169.06	167.86	167.00	166.90	166.89	167.00	166.93	
16	167.40	167.00	168.03	170.72	170.55	169.41	167.80	166.99	166.90	166.89	166.96	166.92	
17	167.39	167.02	169.28	170.91	170.63	169.45	167.89	166.99	166.90	166.89	166.95	166.92	
18	167.40	167.00	169.90	170.99	170.68	169.58	168.91	166.98	166.90	166.88	166.92	166.89	
19	167.39	166.99	169.96	171.05	170.61	169.63	169.31	166.99	166.91	166.88	166.91	166.87	
20	167.44	166.98	169.89	171.05	170.51	169.97	168.93	166.99	166.90	166.88	166.90	166.96	
21	167.30	167.19	169.78	170.99	170.31	169.79	168.57	166.98	166.90	166.89	166.90	166.98	
22	167.26	167.76	169.77	170.88	169.81	169.69	168.42	166.97	166.90	167.16	166.91	166.95	
23	167.20	167.83	169.61	170.84	168.92	170.14	168.29	166.95	166.90	167.17	166.92	166.98	
24	167.15	168.19	169.38	170.82	168.49	170.35	167.96	166.95	166.90	167.14	166.99	166.97	
25	167.12	169.37	169.71	170.78	168.37	170.38	167.78	166.95	166.89	167.11	166.98	166.95	
26	167.12	168.50	169.72	170.75	168.31	170.42	167.71	166.95	166.89	167.07	166.93	166.91	
27	167.18	168.59	169.60	170.73	168.03	170.59	167.62	166.95	166.88	167.00	166.90	166.90	
28	167.16	168.17	169.37	170.69	167.97	170.81	167.55	166.95	166.88	166.97	166.90	166.91	
29	167.07	168.02	169.03	170.65	167.93	170.94	167.47	166.95	167.01	166.97		166.94	
30	167.04	168.44	169.22	170.63	167.92	171.00	167.39	166.95	167.00	166.95		166.98	
31		169.18		170.63	168.13		167.36		166.95	166.94		166.97	
Mean	167.20	167.41	168.92	170.39	169.30	169.20	168.74	167.02	166.92	166.95	166.99	166.92	
Max	167.44	169.37	170.49	171.05	170.68	171.00	170.99	167.25	167.01	167.17	167.39	167.10	171.05
Min	166.98	166.88	167.04	169.37	167.84	167.95	167.36	166.95	166.88	166.90	166.81	166.81	166.81
Annual Max Momentary Gage Height		171.05	m. (MSL.) ,				at 09.00 Hours , on Jul 19 , 2009						
Zero Gage at Bottom Elevation		166.50	m. (MSL.) ,			River Bed	166.70	m. (MSL)					
Left Bank Elevation			172.00	m. (MSL.) ,									
Right Bank Elevation		171.11	m. (MSL.) ,			Drainage Area	1235	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.76	0.33	25.80	18.35	37.35	5.78	53.50	1.60	0.45	0.45	0.51	0.30		
2	0.60	0.33	33.20	21.25	36.65	6.80	50.00	1.40	0.45	0.42	0.51	0.21		
3	0.54	0.30	33.20	24.80	36.30	8.72	46.75	1.20	0.42	0.42	0.30	0.15		
4	0.57	0.36	27.60	25.00	33.85	7.52	42.10	1.00	0.42	0.42	0.30	0.15		
5	1.16	0.30	17.52	22.40	20.80	5.66	37.70	0.92	0.42	0.30	0.30	0.03		
6	1.32	0.30	10.32	19.60	10.00	5.18	30.80	0.80	0.42	0.30	0.30	0.18		
7	1.44	0.27	4.20	17.70	5.36	4.82	23.40	0.80	0.42	0.30	0.33	0.18		
8	1.36	0.24	2.00	18.09	5.00	4.70	16.98	0.72	0.39	0.30	1.44	0.51		
9	1.28	0.24	1.60	21.55	4.15	5.42	12.00	0.72	0.39	0.27	2.16	1.00		
10	1.28	0.30	1.16	21.70	4.10	6.98	8.64	0.72	0.33	0.27	1.56	0.68		
11	1.32	0.30	0.76	18.48	6.86	6.50	6.38	0.68	0.33	0.30	1.16	0.39		
12	1.28	0.27	0.88	14.96	14.24	5.84	5.66	0.68	0.33	0.30	1.00	0.33		
13	2.04	0.30	1.44	18.74	25.40	5.60	5.06	0.60	0.33	0.30	0.92	0.30		
14	1.92	0.30	1.80	26.60	27.60	7.34	4.40	0.60	0.30	0.30	0.96	0.30		
15	2.12	0.27	1.76	33.20	32.00	12.48	4.20	0.60	0.30	0.27	0.60	0.39		
16	2.20	0.60	5.18	41.30	35.25	15.28	3.90	0.57	0.30	0.27	0.48	0.36		
17	2.16	0.68	14.24	49.50	38.05	15.60	4.35	0.57	0.30	0.27	0.45	0.36		
18	2.20	0.60	20.50	53.50	39.80	16.64	11.28	0.54	0.30	0.24	0.36	0.27		
19	2.16	0.57	21.40	56.50	37.35	17.07	14.48	0.57	0.33	0.24	0.33	0.21		
20	2.36	0.54	20.35	56.50	33.85	21.55	11.44	0.57	0.30	0.24	0.30	0.48		
21	1.80	1.36	18.74	53.50	28.25	18.87	8.56	0.54	0.30	0.27	0.30	0.54		
22	1.64	3.70	18.61	48.10	19.15	17.61	7.52	0.51	0.30	1.24	0.33	0.45		
23	1.40	4.05	16.89	46.30	11.36	24.80	6.74	0.45	0.30	1.28	0.36	0.54		
24	1.20	6.14	15.04	45.40	7.94	29.25	4.76	0.45	0.30	1.16	0.57	0.51		
25	1.08	14.96	17.83	43.70	7.22	30.00	3.80	0.45	0.27	1.04	0.54	0.45		
26	1.08	8.00	17.96	42.50	6.86	31.10	3.45	0.45	0.27	0.88	0.39	0.33		
27	1.32	8.72	16.80	41.70	5.18	36.65	3.08	0.45	0.24	0.60	0.30	0.30		
28	1.24	6.02	14.96	40.15	4.82	44.95	2.80	0.45	0.24	0.51	0.30	0.33		
29	0.88	5.12	12.24	38.75	4.58	51.00	2.48	0.45	0.64	0.51		0.42		
30	0.76	7.64	13.76	38.05	4.52	54.00	2.16	0.45	0.60	0.45		0.54		
31		13.44		38.05	5.78		2.04		0.45	0.42		0.51		
Total	42.47	86.55	407.74	1055.92	589.62	523.71	440.41	20.51	11.14	14.54	17.36	11.70	3221.67	CMSDAY
Mean	1.42	2.79	13.59	34.06	19.02	17.46	14.21	0.68	0.36	0.47	0.62	0.38	8.83	CMS
Max	2.36	14.96	33.20	56.50	39.80	54.00	53.50	1.60	0.64	1.28	2.16	1.00	56.50	CMS
Min	0.54	0.24	0.76	14.96	4.10	4.70	2.04	0.45	0.24	0.24	0.30	0.03	0.03	CMS
Runoff	3.67	7.48	35.23	91.23	50.94	45.25	38.05	1.77	0.96	1.26	1.50	1.01	278.35	MCM
Momentary Peak	56.50 CMS. at 171.05 m. (MSL.) at 09.00 Hours , on Jul 19 , 2009													
Runoff Yield	7.15 Liters/Second/Square KM.			Momentary Peak Yield				45,749 Liters/Second/Square KM.						

WATER YEAR : 2009

KHONG RIVER BASIN

Huai Puan at Ban Pa Noi , Loei (Kh.105)

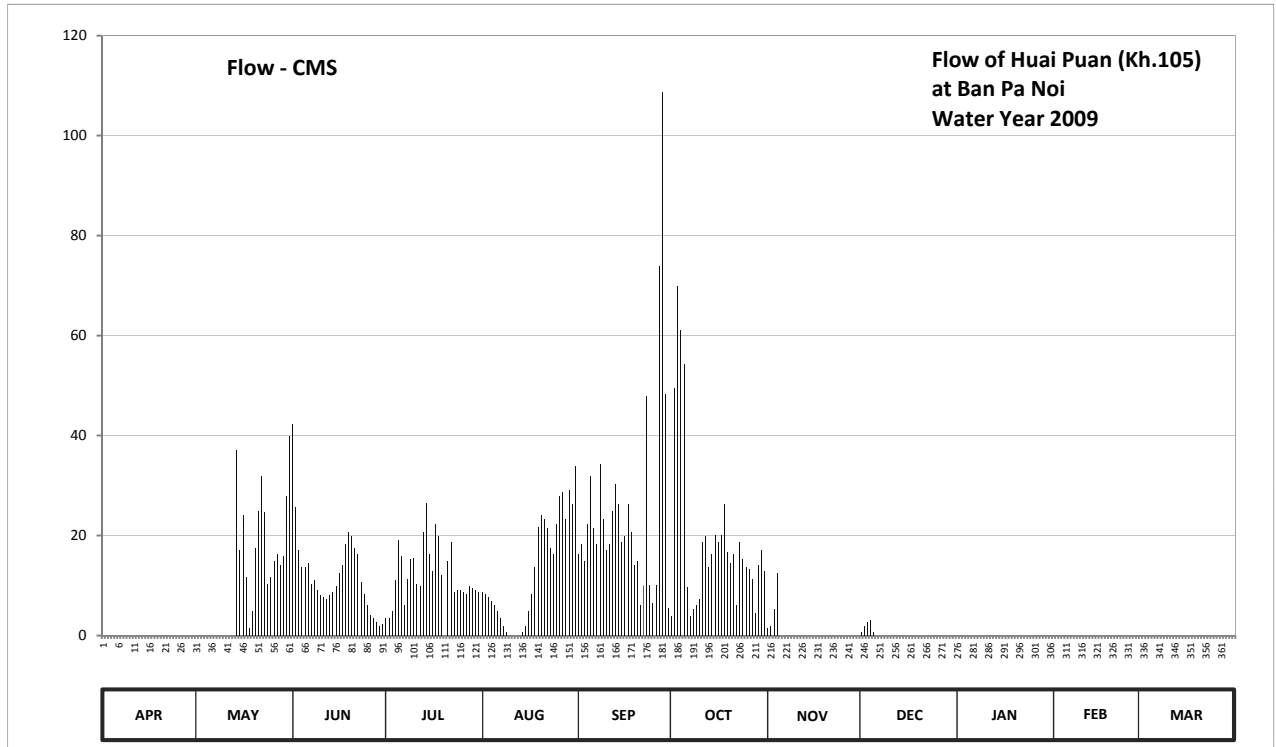
Lat 17 - 21 - 43 N Long 101 - 49 - 46 E

Location : on right bank at the bridge on highway.

	Ban	Pa Noi	Amphoe	Wang Saphung	Changwat	Loei
Drainage Area	948	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+247.500 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+258.341 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	250.28	250.62	252.08	251.09	251.23	251.43	251.46	251.04	251.02	250.45	250.35	249.74	
2	250.29	250.64	251.67	251.09	251.22	251.48	252.26	251.05	251.05	250.42	250.35	249.73	
3	250.29	250.65	251.45	251.13	251.20	251.39	252.77	251.14	251.07	250.38	250.35	249.73	
4	250.29	250.66	251.36	251.29	251.18	251.58	252.55	251.33	251.08	250.34	250.34	249.72	
5	250.42	250.66	251.36	251.50	251.16	251.82	252.38	250.87	251.02	250.29	250.33	249.72	
6	250.67	250.66	251.38	251.42	251.13	251.56	251.74	250.57	250.96	250.24	250.31	249.71	
7	250.47	250.65	251.27	251.16	251.09	251.48	251.46	250.45	250.89	250.23	250.29	249.71	
8	250.48	250.65	251.29	251.30	251.05	251.88	251.55	250.62	250.85	250.23	250.23	249.70	
9	250.30	250.65	251.24	251.40	251.02	251.61	251.16	250.81	250.79	250.24	250.18	249.70	
10	250.28	250.66	251.21	251.41	250.99	251.45	251.19	250.81	250.72	250.25	250.15	249.71	
11	250.40	250.68	251.20	251.27	250.96	251.48	251.49	250.84	250.66	250.25	250.10	249.71	
12	250.79	250.70	251.19	251.26	250.94	251.65	251.52	250.71	250.61	250.25	250.04	249.71	
13	250.74	250.88	251.21	251.54	250.97	251.78	251.36	250.67	250.57	250.24	249.98	249.70	
14	250.71	251.95	251.23	251.69	251.02	251.68	251.43	250.55	250.54	250.23	249.93	249.70	
15	250.65	251.45	251.26	251.43	251.05	251.49	251.53	250.38	250.52	250.23	249.89	249.70	
16	250.50	251.63	251.33	251.34	251.13	251.52	251.49	250.28	250.50	250.22	249.87	249.70	
17	250.23	251.31	251.37	251.58	251.22	251.68	251.53	250.22	250.50	250.22	249.85	249.70	
18	250.05	251.04	251.48	251.52	251.36	251.54	251.68	250.38	250.50	250.20	249.83	249.69	
19	250.21	251.13	251.54	251.32	251.57	251.37	251.44	250.57	250.50	250.18	249.81	249.69	
20	250.35	251.46	251.52	250.85	251.63	251.39	251.38	250.73	250.49	250.15	249.80	249.69	
21	250.41	251.65	251.46	251.39	251.61	251.60	251.43	250.75	250.48	250.14	249.80	249.68	
22	250.44	251.82	251.43	251.49	251.56	251.75	251.16	250.64	250.48	250.15	249.79	249.68	
23	250.44	251.64	251.28	251.23	251.46	252.22	251.49	250.72	250.48	250.18	249.78	249.67	
24	250.45	251.27	251.22	251.24	251.43	251.75	251.40	250.80	250.48	250.24	249.78	249.67	
25	250.44	251.31	251.16	251.24	251.58	251.62	251.36	250.85	250.48	250.27	249.77	249.67	
26	250.43	251.39	251.11	251.23	251.72	251.75	251.35	250.80	250.48	250.29	249.77	249.67	
27	250.45	251.43	251.09	251.22	251.74	252.87	251.30	250.80	250.47	250.30	249.76	249.66	
28	250.49	251.37	251.07	251.26	251.61	253.73	251.12	250.81	250.47	250.33	249.75	249.66	
29	250.54	251.42	251.05	251.25	251.75	252.23	251.37	250.89	250.47	250.34		249.65	
30	250.59	251.72	251.06	251.24	251.68	251.57	251.45	250.97	250.46	250.34		249.65	
31		252.02		251.23	251.87		251.34		250.46	250.35		249.65	
Mean	250.44	251.15	251.32	251.31	251.33	251.75	251.55	250.74	250.65	250.26	250.01	249.69	
Max	250.79	252.02	252.08	251.69	251.87	253.73	252.77	251.33	251.08	250.45	250.35	249.74	253.73
Min	250.05	250.62	251.05	250.85	250.94	251.37	251.12	250.22	250.46	250.14	249.75	249.65	249.65
Annual Max Momentary Gage Height		253.96	m. (MSL.) ,				at 08.00 Hours , on Sep 28 , 2009						
Zero Gage at Bottom Elevation		247.50	m. (MSL.) ,			River Bed	247.51	m. (MSL)					
Left Bank Elevation		258.31	m. (MSL.) ,										
Right Bank Elevation		258.28	m. (MSL.) ,			Drainage Area	948	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	42.20	3.42	8.74	16.34	3.90	1.52	0.76	0.00	0.00	0.00	
2	0.00	0.00	25.80	3.42	8.36	18.24	49.40	1.90	1.90	0.00	0.00	0.00	
3	0.00	0.00	17.10	4.94	7.60	14.82	69.80	5.32	2.66	0.00	0.00	0.00	
4	0.00	0.00	13.68	11.02	6.84	22.20	61.00	12.54	3.04	0.00	0.00	0.00	
5	0.00	0.00	13.68	19.00	6.08	31.80	54.20	0.00	0.76	0.00	0.00	0.00	
6	0.00	0.00	14.44	15.96	4.94	21.40	9.60	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	10.26	6.08	3.42	18.24	3.90	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	11.02	11.40	1.90	34.20	5.25	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	9.12	15.20	0.76	23.40	6.08	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	7.98	15.58	0.00	17.10	7.22	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	7.60	10.26	0.00	18.24	18.62	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	7.22	9.88	0.00	25.00	19.80	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	7.98	20.60	0.00	30.20	13.68	0.00	0.00	0.00	0.00	0.00	
14	0.00	37.00	8.74	26.60	0.76	26.20	16.34	0.00	0.00	0.00	0.00	0.00	
15	0.00	17.10	9.88	16.34	1.90	18.62	20.20	0.00	0.00	0.00	0.00	0.00	
16	0.00	24.20	12.54	12.92	4.94	19.80	18.62	0.00	0.00	0.00	0.00	0.00	
17	0.00	11.78	14.06	22.20	8.36	26.20	20.20	0.00	0.00	0.00	0.00	0.00	
18	0.00	1.52	18.24	19.80	13.68	20.60	26.20	0.00	0.00	0.00	0.00	0.00	
19	0.00	4.94	20.60	12.16	21.80	14.06	16.72	0.00	0.00	0.00	0.00	0.00	
20	0.00	17.48	19.80	0.00	24.20	14.82	14.44	0.00	0.00	0.00	0.00	0.00	
21	0.00	25.00	17.48	14.82	23.40	6.00	16.34	0.00	0.00	0.00	0.00	0.00	
22	0.00	31.80	16.34	18.62	21.40	10.00	6.08	0.00	0.00	0.00	0.00	0.00	
23	0.00	24.60	10.64	8.74	17.48	47.80	18.62	0.00	0.00	0.00	0.00	0.00	
24	0.00	10.26	8.36	9.12	16.34	10.00	15.20	0.00	0.00	0.00	0.00	0.00	
25	0.00	11.78	6.08	9.12	22.20	6.40	13.68	0.00	0.00	0.00	0.00	0.00	
26	0.00	14.82	4.18	8.74	27.80	10.00	13.30	0.00	0.00	0.00	0.00	0.00	
27	0.00	16.34	3.42	8.36	28.60	73.80	11.40	0.00	0.00	0.00	0.00	0.00	
28	0.00	14.06	2.66	9.88	23.40	108.66	4.56	0.00	0.00	0.00	0.00	0.00	
29	0.00	15.96	1.90	9.50	29.00	48.20	14.06	0.00	0.00	0.00	0.00	0.00	
30	0.00	27.80	2.28	9.12	26.20	5.55	17.10	0.00	0.00	0.00	0.00	0.00	
31	0.00	39.80	8.74	33.80	12.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	346.24	365.28	371.54	393.90	757.89	598.43	21.28	9.12	0.00	0.00	0.00	2863.68 CMSDAY
Mean	0.00	11.17	12.18	11.99	12.71	25.26	19.30	0.71	0.29	0.00	0.00	0.00	7.85 CMS
Max	0.00	39.80	42.20	26.60	33.80	108.66	69.80	12.54	3.04	0.00	0.00	0.00	108.66 CMS
Min	0.00	0.00	1.90	0.00	0.00	5.55	3.90	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	29.92	31.56	32.10	34.03	65.48	51.70	1.84	0.79	0.00	0.00	0.00	247.42 MCM
Momentary Peak	118.32 CMS. at 253.96 m. (MSL.) at 08.00 Hours , on Sep 28 , 2009												
Runoff Yield	8.28 Liters/Second/Square KM.			Momentary Peak Yield			124.810 Liters/Second/Square KM.						

WATER YEAR : 2009

NAM MAE ING RIVER BASIN

Nam Waen at Ban Nam Waen , Phayao (1.6)

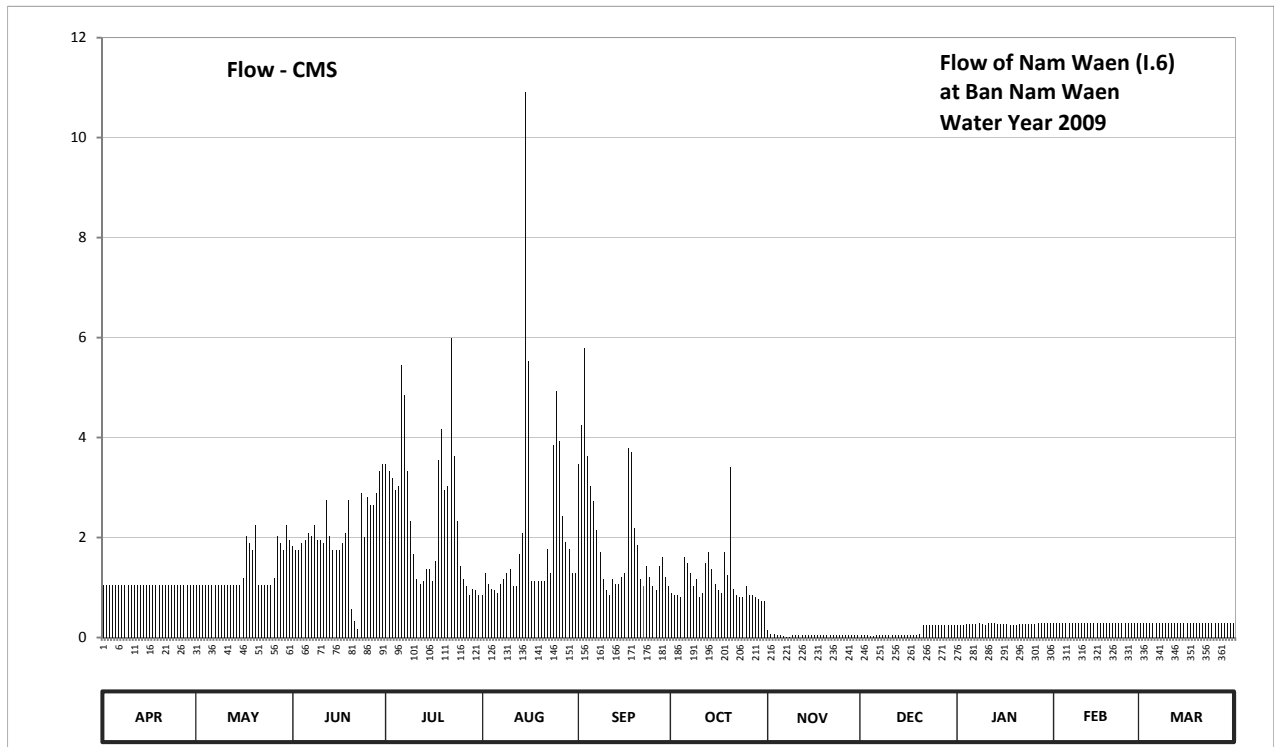
Lat 19 - 29 - 21 N Long 100 - 16 - 33 E

Location : on left bank at the bridge of Amphoe Chum - Amphoe Chiang Kham Highway.

	Ban Nam Waen	Amphoe Chiang Kham	Changwat Phayao
Drainage Area	151 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+389.745 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank in the vicinity of gage observer's house.	Elevation	+397.867 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Flot	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Flow effected by Nam Waen reservoir about 4 - 5 kilometers above gage site. Stage-discharge relation defined by 30 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	391.05	391.05	391.16	390.93	390.50	390.93	390.51	390.23	390.18	390.71	390.75	390.75	
2	391.05	391.05	391.15	390.91	390.60	391.03	390.50	390.15	390.19	390.71	390.75	390.75	
3	391.05	391.05	391.15	390.89	390.55	391.21	390.50	390.12	390.14	390.71	390.75	390.75	
4	391.05	391.05	391.17	390.86	390.53	390.95	390.49	390.11	390.12	390.73	390.75	390.75	
5	391.05	391.05	391.18	390.87	390.52	390.87	390.65	390.07	390.13	390.73	390.75	390.75	
6	391.05	391.05	391.20	391.17	390.51	390.83	390.63	390.05	390.20	390.73	390.75	390.75	
7	391.05	391.05	391.19	391.10	390.55	390.74	390.60	390.02	390.19	390.73	390.75	390.75	
8	391.05	391.05	391.21	390.91	390.57	390.67	390.54	390.02	390.18	390.75	390.75	390.75	
9	391.05	391.05	391.18	390.77	390.60	390.57	390.57	390.20	390.19	390.73	390.75	390.75	
10	391.05	391.05	391.18	390.66	390.61	390.52	390.49	390.20	390.19	390.70	390.75	390.75	
11	391.05	391.05	391.17	390.57	390.54	390.50	390.51	390.20	390.19	390.75	390.75	390.75	
12	391.05	391.05	391.24	390.55	390.54	390.57	390.63	390.19	390.19	390.75	390.75	390.75	
13	391.05	391.05	391.19	390.56	390.66	390.55	390.67	390.18	390.19	390.75	390.75	390.75	
14	391.05	391.05	391.15	390.61	390.73	390.55	390.61	390.18	390.19	390.73	390.75	390.75	
15	391.05	391.05	391.15	390.61	391.71	390.58	390.55	390.16	390.18	390.73	390.75	390.75	
16	391.05	391.07	391.15	390.56	391.18	390.60	390.52	390.16	390.17	390.73	390.75	390.75	
17	391.05	391.19	391.17	390.64	390.56	390.97	390.51	390.16	390.17	390.73	390.75	390.75	
18	391.05	391.17	391.20	390.94	390.56	390.96	390.67	390.16	390.18	390.72	390.75	390.75	
19	391.05	391.15	391.24	391.02	390.56	390.75	390.59	390.16	390.20	390.72	390.75	390.75	
20	391.05	391.21	390.96	390.86	390.56	390.69	390.92	390.15	390.26	390.72	390.75	390.75	
21	391.05	391.05	390.84	390.87	390.56	390.57	390.53	390.15	390.70	390.73	390.75	390.75	
22	391.05	391.05	390.53	391.23	390.68	390.54	390.50	390.15	390.72	390.73	390.75	390.75	
23	391.05	391.05	390.85	390.95	390.60	390.62	390.49	390.15	390.72	390.73	390.75	390.75	
24	391.05	391.05	390.72	390.77	390.98	390.58	390.49	390.18	390.72	390.73	390.75	390.75	
25	391.05	391.05	390.84	390.62	391.11	390.54	390.54	390.20	390.72	390.73	390.75	390.75	
26	391.05	391.07	390.82	390.57	390.99	390.52	390.50	390.20	390.72	390.73	390.75	390.75	
27	391.05	391.19	390.82	390.54	390.79	390.62	390.50	390.20	390.72	390.75	390.75	390.75	
28	391.05	391.17	390.85	390.50	390.70	390.65	390.49	390.20	390.71	390.75	390.75	390.75	
29	391.05	391.15	390.91	390.53	390.68	390.58	390.48	390.20	390.71	390.75	390.75	390.75	
30	391.05	391.21	390.93	390.52	390.60	390.54	390.47	390.20	390.71	390.75	390.75	390.75	
31	391.05	391.18	390.50	390.60	390.60	390.60	390.47	390.20	390.71	390.75	390.75	390.75	
Mean	391.05	391.09	391.05	390.76	390.69	390.69	390.55	390.16	390.37	390.73	390.75	390.75	
Max	391.05	391.21	391.24	391.23	391.71	391.21	390.92	390.23	390.72	390.75	390.75	390.75	391.71
Min	391.05	391.05	390.53	390.50	390.50	390.50	390.47	390.02	390.12	390.70	390.75	390.75	390.02
Annual Max Momentary Gage Height		392.03	m. (MSL.) ,										at 18.00 Hours , on Aug 15 , 2009
Zero Gage at Bottom Elevation		389.74	m. (MSL.) ,			River Bed	389.73	m. (MSL)					
Left Bank Elevation		398.52	m. (MSL.) ,										
Right Bank Elevation		398.55	m. (MSL.) ,			Drainage Area	151	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	1.05	1.82	3.47	0.85	3.47	0.90	0.15	0.04	0.26	0.28	0.28	
2	1.05	1.05	1.75	3.33	1.30	4.25	0.85	0.07	0.05	0.26	0.28	0.28	
3	1.05	1.05	1.75	3.18	1.07	5.79	0.85	0.06	0.04	0.26	0.28	0.28	
4	1.05	1.05	1.89	2.95	0.98	3.63	0.80	0.05	0.03	0.27	0.28	0.28	
5	1.05	1.05	1.96	3.03	0.94	3.03	1.60	0.04	0.03	0.27	0.28	0.28	
6	1.05	1.05	2.10	5.45	0.90	2.72	1.48	0.02	0.05	0.27	0.28	0.28	
7	1.05	1.05	2.03	4.85	1.07	2.14	1.30	0.01	0.05	0.27	0.28	0.28	
8	1.05	1.05	2.26	3.33	1.17	1.72	1.03	0.01	0.04	0.28	0.28	0.28	
9	1.05	1.05	1.96	2.32	1.30	1.17	1.17	0.05	0.05	0.27	0.28	0.28	
10	1.05	1.05	1.96	1.66	1.36	0.94	0.80	0.05	0.05	0.25	0.28	0.28	
11	1.05	1.05	1.89	1.17	1.03	0.85	0.90	0.05	0.05	0.28	0.28	0.28	
12	1.05	1.05	2.76	1.07	1.03	1.17	1.48	0.05	0.05	0.28	0.28	0.28	
13	1.05	1.05	2.03	1.12	1.66	1.07	1.72	0.04	0.05	0.28	0.28	0.28	
14	1.05	1.05	1.75	1.36	2.08	1.07	1.36	0.04	0.05	0.27	0.28	0.28	
15	1.05	1.05	1.75	1.36	10.92	1.21	1.07	0.04	0.04	0.27	0.28	0.28	
16	1.05	1.19	1.75	1.12	5.53	1.30	0.94	0.04	0.04	0.27	0.28	0.28	
17	1.05	2.03	1.89	1.54	1.12	3.78	0.90	0.04	0.04	0.27	0.28	0.28	
18	1.05	1.89	2.10	3.55	1.12	3.70	1.72	0.04	0.04	0.26	0.28	0.28	
19	1.05	1.75	2.76	4.17	1.12	2.20	1.25	0.04	0.05	0.26	0.28	0.28	
20	1.05	2.26	0.58	2.95	1.12	1.84	3.40	0.04	0.07	0.26	0.28	0.28	
21	1.05	1.05	0.34	3.03	1.12	1.17	0.98	0.04	0.25	0.27	0.28	0.28	
22	1.05	1.05	0.17	5.99	1.78	1.03	0.85	0.04	0.26	0.27	0.28	0.28	
23	1.05	1.05	2.88	3.63	1.30	1.42	0.80	0.04	0.26	0.27	0.28	0.28	
24	1.05	1.05	2.02	2.32	3.85	1.21	0.80	0.04	0.26	0.27	0.28	0.28	
25	1.05	1.05	2.80	1.42	4.93	1.03	1.03	0.05	0.26	0.27	0.28	0.28	
26	1.05	1.19	2.65	1.17	3.92	0.94	0.85	0.05	0.26	0.27	0.28	0.28	
27	1.05	2.03	2.65	1.03	2.44	1.42	0.85	0.05	0.26	0.28	0.28	0.28	
28	1.05	1.89	2.88	0.85	1.90	1.60	0.80	0.05	0.26	0.28	0.28	0.28	
29	1.05	1.75	3.33	0.98	1.78	1.21	0.76	0.05	0.26	0.28		0.28	
30	1.05	2.26	3.47	0.94	1.30	1.03	0.72	0.05	0.26	0.28		0.28	
31		1.96		0.85	1.30		0.72		0.26	0.28		0.28	
Total	31.50	41.20	61.93	75.19	63.29	59.11	34.68	1.39	3.76	8.38	7.84	8.68	396.95 CMSDAY
Mean	1.05	1.33	2.06	2.43	2.04	1.97	1.12	0.05	0.12	0.27	0.28	0.28	1.09 CMS
Max	1.05	2.26	3.47	5.99	10.92	5.79	3.40	0.15	0.26	0.28	0.28	0.28	10.92 CMS
Min	1.05	1.05	0.17	0.85	0.85	0.85	0.72	0.01	0.03	0.25	0.28	0.28	0.01 CMS
Runoff	2.72	3.56	5.35	6.50	5.47	5.11	3.00	0.12	0.33	0.72	0.68	0.75	34.30 MCM
Momentary Peak	14.82 CMS. at 392.03 m. (MSL.) at 18.00 Hours , on Aug 15 , 2009												
Runoff Yield	7.20 Liters/Second/Square KM.			Momentary Peak Yield			98.146 Liters/Second/Square KM.						

WATER YEAR : 2009

NAM MAE ING RIVER BASIN

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

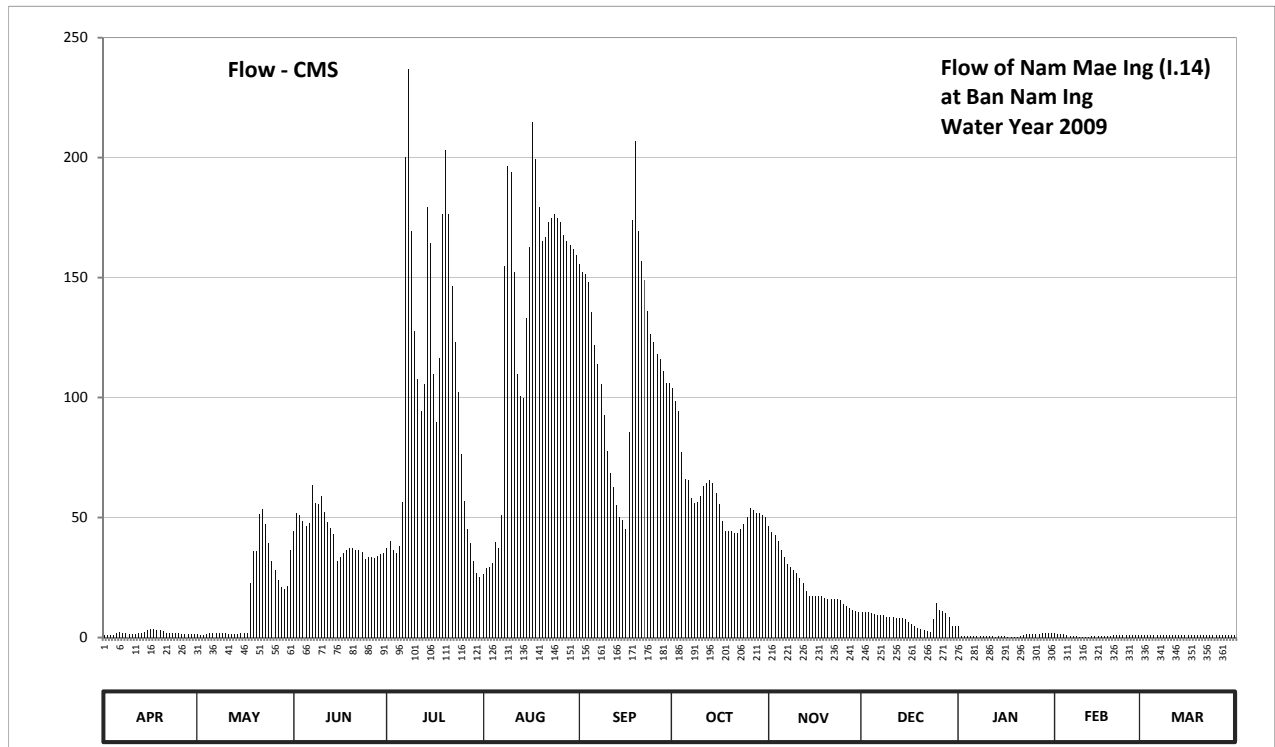
Lat 19 - 49 - 56 N Long 100 - 12 - 15 E

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

	Ban Nam Ing	Amphoe Khun Tan	Changwat Chiang Rai
Drainage Area	6,266 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+351.430 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank downstream side at the approach of the bridge.	Elevation	+361.805 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow		
General Description	Records fair. Flow effected by the local weir about 100 meters downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	352.53	352.71	353.71	353.53	353.26	355.48	354.80	353.76	352.73	352.43	352.98	352.63	
2	352.51	352.68	353.88	353.61	353.32	355.44	354.71	353.70	352.73	352.33	352.86	352.62	
3	352.56	352.60	353.86	353.51	353.33	355.43	354.64	353.67	352.73	352.33	352.84	352.62	
4	352.68	352.82	353.81	353.48	353.38	355.39	354.35	353.61	352.71	352.33	352.78	352.63	
5	353.03	352.93	353.76	353.55	353.59	355.23	354.16	353.51	352.69	352.33	352.68	352.65	
6	353.27	352.94	353.79	353.97	353.53	355.05	354.15	353.44	352.67	352.33	352.50	352.66	
7	353.11	352.96	354.11	355.99	353.86	354.94	354.00	353.37	352.67	352.33	352.41	352.66	
8	353.00	352.95	353.96	356.35	355.47	354.82	353.96	353.33	352.67	352.33	352.34	352.65	
9	352.90	352.94	353.95	355.65	355.95	354.61	353.97	353.30	352.63	352.33	352.25	352.65	
10	352.80	352.92	354.02	355.13	355.92	354.36	354.02	353.27	352.62	352.33	352.23	352.63	
11	352.75	352.90	353.89	354.85	355.44	354.21	354.10	353.22	352.62	352.33	352.23	352.61	
12	353.02	352.87	353.80	354.64	354.88	354.09	354.13	353.16	352.61	352.31	352.23	352.61	
13	353.13	352.81	353.74	354.82	354.74	353.94	354.15	353.05	352.61	352.24	352.34	352.61	
14	353.18	352.78	353.68	355.76	354.73	353.84	354.13	352.98	352.61	352.30	352.38	352.62	
15	353.51	352.91	353.40	355.59	355.20	353.82	354.04	352.97	352.58	352.32	352.36	352.62	
16	353.63	352.98	353.44	354.88	355.57	353.73	353.95	352.97	352.52	352.28	352.33	352.62	
17	353.63	352.93	353.48	354.56	356.14	354.49	353.81	352.97	352.48	352.26	352.40	352.63	
18	353.58	353.15	353.51	354.98	355.98	355.70	353.71	352.97	352.44	352.22	352.38	352.62	
19	353.53	353.50	353.53	355.73	355.76	356.06	353.71	352.95	352.39	352.23	352.48	352.61	
20	353.40	353.50	353.53	356.02	355.60	355.65	353.71	352.93	352.34	352.23	352.61	352.61	
21	353.04	353.87	353.51	355.73	355.62	355.50	353.69	352.93	352.30	352.41	352.63	352.61	
22	352.99	353.91	353.51	355.37	355.69	355.40	353.69	352.93	352.26	352.65	352.63	352.61	
23	352.94	353.78	353.49	355.07	355.71	355.24	353.73	352.93	352.24	352.74	352.63	352.61	
24	352.92	353.58	353.42	354.77	355.73	355.11	353.78	352.92	352.59	352.82	352.63	352.61	
25	352.92	353.40	353.44	354.34	355.71	355.07	353.84	352.87	352.88	352.83	352.63	352.61	
26	352.90	353.30	353.44	353.98	355.69	355.00	353.92	352.83	352.78	352.83	352.64	352.61	
27	352.88	353.20	353.43	353.73	355.63	354.97	353.90	352.81	352.75	352.87	352.64	352.61	
28	352.88	353.10	353.45	353.58	355.60	354.90	353.88	352.78	352.72	352.94	352.64	352.61	
29	352.88	353.07	353.47	353.40	355.58	354.83	353.88	352.76	352.63	353.01		352.62	
30	352.87	353.12	353.48	353.27	355.56	354.83	353.86	352.73	352.44	353.06		352.62	
31		353.51		353.23	355.53		353.84		352.43	353.08		352.62	
Mean	353.03	353.12	353.65	354.62	355.09	354.90	354.01	353.12	352.58	352.50	352.52	352.62	
Max	353.63	353.91	354.11	356.35	356.14	356.06	354.80	353.76	352.88	353.08	352.98	352.66	356.35
Min	352.51	352.60	353.40	353.23	353.26	353.73	353.69	352.73	352.24	352.22	352.23	352.61	352.22
Annual Max Momentary Gage Height		356.48	m. (MSL.) ,			at 06.00 Hours , on Jul 8 , 2009							
Zero Gage at Bottom Elevation		351.43	m. (MSL.) ,			River Bed	350.93	m. (MSL)					
Left Bank Elevation		362.03	m. (MSL.) ,										
Right Bank Elevation		362.03	m. (MSL.) ,			Drainage Area	6266	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	1.22	44.40	37.20	26.40	155.40	104.00	46.40	10.60	4.60	1.76	1.06	
2	0.82	1.16	52.00	40.40	28.80	152.20	98.60	44.00	10.60	0.49	1.52	1.04	
3	0.92	1.00	51.00	36.40	29.20	151.40	94.40	42.80	10.60	0.49	1.48	1.04	
4	1.16	1.44	48.50	35.20	31.20	148.20	77.00	40.40	10.20	0.49	1.36	1.06	
5	1.86	1.66	46.40	38.00	39.60	135.40	66.00	36.40	9.80	0.49	1.16	1.10	
6	2.34	1.68	47.60	56.50	37.20	121.75	65.50	33.60	9.40	0.49	0.80	1.12	
7	2.02	1.72	63.50	200.10	51.00	113.80	58.00	30.80	9.40	0.49	0.62	1.12	
8	1.80	1.70	56.00	236.75	154.60	105.40	56.00	29.20	9.40	0.49	0.51	1.10	
9	1.60	1.68	55.50	169.50	196.50	92.60	56.50	28.00	8.60	0.49	0.38	1.10	
10	1.40	1.64	59.00	127.75	193.80	77.60	59.00	26.80	8.40	0.49	0.35	1.06	
11	1.30	1.60	52.50	107.50	152.20	68.60	63.00	24.80	8.40	0.49	0.35	1.02	
12	1.84	1.54	48.00	94.40	109.60	62.50	64.50	22.80	8.20	0.47	0.35	1.02	
13	2.06	1.42	45.60	105.40	100.40	55.00	65.50	19.50	8.20	0.36	0.51	1.02	
14	2.16	1.36	43.20	179.40	99.80	50.00	64.50	17.40	8.20	0.45	0.57	1.04	
15	2.93	1.62	32.00	164.20	133.00	49.00	60.00	17.10	7.60	0.48	0.54	1.04	
16	3.29	1.76	33.60	109.60	162.60	45.20	55.50	17.10	6.40	0.42	0.49	1.04	
17	3.29	1.66	35.20	89.60	215.00	85.40	48.50	17.10	5.60	0.39	0.60	1.06	
18	3.14	22.50	36.40	116.60	199.20	174.00	44.40	17.10	4.80	0.33	0.57	1.04	
19	2.99	36.00	37.20	176.70	179.40	207.00	44.40	16.50	3.90	0.35	0.76	1.02	
20	2.60	36.00	37.20	203.00	165.00	169.50	44.40	15.90	3.40	0.35	1.02	1.02	
21	1.88	51.50	36.40	176.70	166.80	157.00	43.60	15.90	3.00	0.62	1.06	1.02	
22	1.78	53.50	36.40	146.60	173.10	149.00	43.60	15.90	2.60	1.10	1.06	1.02	
23	1.68	47.20	35.60	123.25	174.90	136.20	45.20	15.90	2.40	1.28	1.06	1.02	
24	1.64	39.20	32.80	102.20	176.70	126.25	47.20	15.60	7.80	1.44	1.06	1.02	
25	1.64	32.00	33.60	76.40	174.90	123.25	50.00	14.10	14.40	1.46	1.06	1.02	
26	1.60	28.00	33.60	57.00	173.10	118.00	54.00	12.90	11.60	1.46	1.08	1.02	
27	1.56	24.00	33.20	45.20	167.70	115.90	53.00	12.30	11.00	1.54	1.08	1.02	
28	1.56	21.00	34.00	39.20	165.00	111.00	52.00	11.60	10.40	1.68	1.08	1.02	
29	1.56	20.10	34.80	32.00	163.40	106.10	52.00	11.20	8.60	1.82		1.04	
30	1.54	21.60	35.20	26.80	161.80	106.10	51.00	10.60	4.80	1.92		1.04	
31		36.40		25.20	159.40		50.00		4.60	1.96		1.04	
Total	56.82	494.86	1270.40	3174.75	4161.30	3468.75	1831.30	679.70	242.90	29.38	24.24	32.40	15466.80 CMSDAY
Mean	1.89	15.96	42.35	102.41	134.24	115.63	59.07	22.66	7.84	0.95	0.87	1.05	42.37 CMS
Max	3.29	53.50	63.50	236.75	215.00	207.00	104.00	46.40	14.40	4.60	1.76	1.12	236.75 CMS
Min	0.82	1.00	32.00	25.20	26.40	45.20	43.60	10.60	2.40	0.33	0.35	1.02	0.33 CMS
Runoff	4.91	42.76	109.76	274.30	359.54	299.70	158.22	58.73	20.99	2.54	2.09	2.80	1336.33 MCM
Momentary Peak	246.80 CMS. at 356.48 m. (MSL.) at 06.00 Hours , on Jul 8 , 2009												
Runoff Yield	6.76 Liters/Second/Square KM.			Momentary Peak Yield				39.387 Liters/Second/Square KM.					

WATER YEAR : 2009

NAM MAE ING RIVER BASIN

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

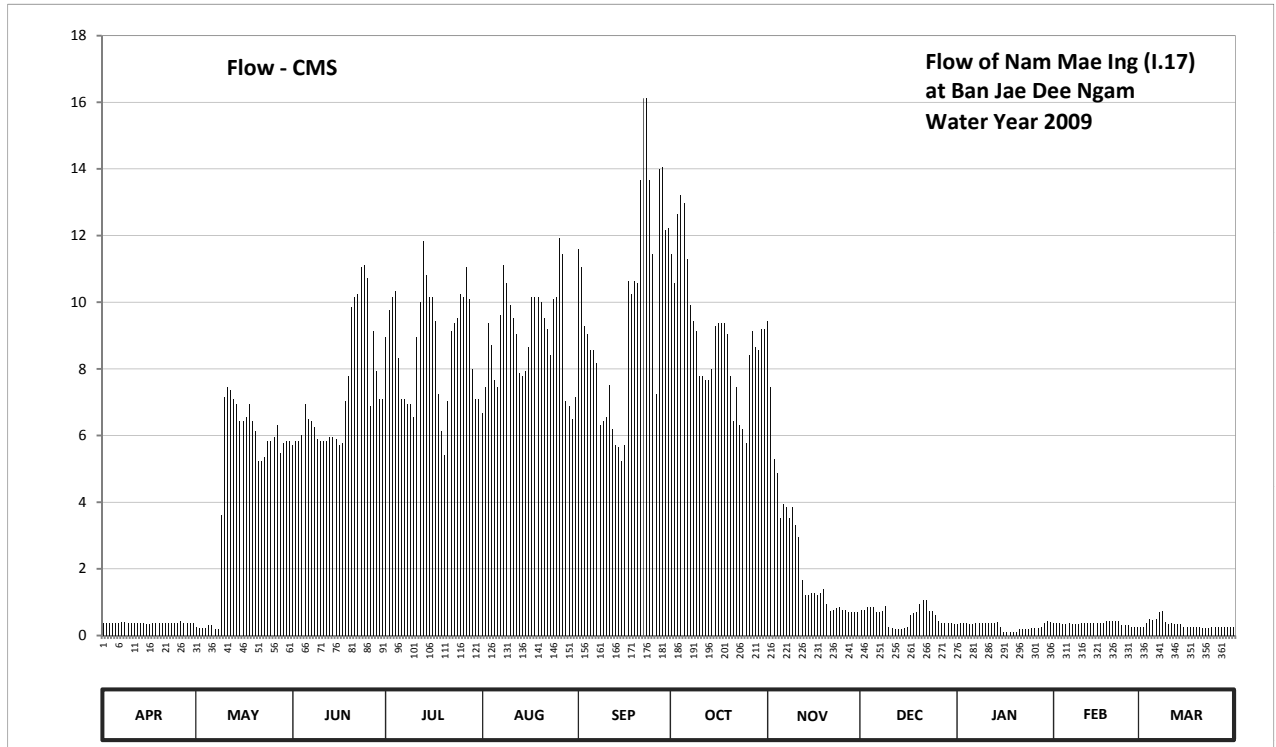
Lat 19 - 10 - 11 N Long 99 - 56 - 13 E

Location : on left bank at Ban Jae Dee Ngam.

	Ban Jae Dee Ngam	Amphoe Mueang	Changwat Phayao
Drainage Area	1,167 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+386.266 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.	Elevation	+390.573 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.97	386.74	387.05	387.52	387.21	387.85	387.83	387.58	386.05	386.89	386.97	386.69	
2	386.97	386.65	387.07	387.62	387.32	387.78	387.72	387.32	386.05	386.97	386.93	386.70	
3	386.97	386.63	387.07	387.67	387.57	387.56	387.98	386.98	386.07	386.97	386.92	386.99	
4	386.97	386.63	387.10	387.69	387.49	387.53	388.05	386.91	386.07	386.96	386.87	387.17	
5	386.99	386.82	387.25	387.44	387.35	387.47	388.02	386.68	386.07	386.89	386.86	387.14	
6	386.99	386.81	387.18	387.27	387.32	387.47	387.81	386.75	386.03	386.88	386.92	387.19	
7	387.01	386.61	387.17	387.27	387.60	387.42	387.64	386.74	386.03	386.93	386.87	387.28	
8	387.01	386.61	387.14	387.25	387.79	387.15	387.58	386.68	386.04	386.93	386.87	387.30	
9	386.99	386.69	387.08	387.25	387.72	387.17	387.54	386.74	386.08	386.93	386.87	387.03	
10	386.97	387.28	387.07	387.19	387.64	387.19	387.37	386.64	386.73	386.97	386.95	386.91	
11	386.97	387.32	387.07	387.52	387.59	387.33	387.37	386.57	386.63	386.97	386.95	386.93	
12	386.97	387.31	387.07	387.65	387.53	387.13	387.35	386.29	386.61	386.97	386.96	386.88	
13	386.95	387.27	387.09	387.88	387.38	387.05	387.35	386.17	386.57	386.98	386.97	386.87	
14	386.95	387.25	387.09	387.75	387.37	387.04	387.40	386.18	386.58	387.02	386.97	386.85	
15	386.90	387.17	387.08	387.67	387.39	386.97	387.56	386.19	386.62	386.72	386.97	386.71	
16	386.86	387.17	387.05	387.67	387.48	387.05	387.57	386.19	386.67	386.34	386.97	386.70	
17	386.96	387.19	387.06	387.58	387.67	387.73	387.57	386.18	387.25	386.33	386.97	386.67	
18	386.97	387.25	387.26	387.29	387.67	387.68	387.57	386.19	387.27	386.33	387.05	386.67	
19	386.98	387.17	387.37	387.12	387.67	387.73	387.53	386.22	387.28	386.33	387.09	386.67	
20	386.96	387.12	387.63	387.00	387.65	387.72	387.37	386.10	387.38	386.43	387.09	386.67	
21	386.99	386.97	387.67	387.26	387.59	388.10	387.17	386.04	387.41	386.57	387.09	386.65	
22	386.99	386.97	387.68	387.54	387.55	388.39	387.32	386.05	387.41	386.57	387.05	386.65	
23	386.97	386.99	387.78	387.57	387.45	388.39	387.15	386.06	387.30	386.57	386.79	386.66	
24	386.97	387.07	387.79	387.59	387.66	388.10	387.13	386.07	387.29	386.59	386.79	386.69	
25	386.98	387.07	387.74	387.68	387.67	387.83	387.06	386.05	387.25	386.65	386.79	386.67	
26	387.04	387.09	387.24	387.67	387.89	387.29	387.45	386.05	387.08	386.65	386.75	386.67	
27	386.99	387.15	387.54	387.78	387.83	388.14	387.54	386.03	386.97	386.65	386.73	386.67	
28	386.97	387.01	387.39	387.66	387.26	388.15	387.48	386.03	386.97	386.72	386.69	386.68	
29	386.97	387.06	387.27	387.40	387.24	387.92	387.47	386.03	386.97	386.99		386.71	
30	386.95	387.07	387.27	387.27	387.18	387.93	387.55	386.03	386.95	387.05		386.71	
31		387.07		387.27	387.28		387.55		386.87	387.03		386.73	
Mean	386.97	387.01	387.28	387.48	387.52	387.61	387.52	386.39	386.73	386.77	386.92	386.82	
Max	387.04	387.32	387.79	387.88	387.89	388.39	388.05	387.58	387.41	387.05	387.09	387.30	388.39
Min	386.86	386.61	387.05	387.00	387.18	386.97	387.06	386.03	386.03	386.33	386.69	386.65	386.03
Annual Max Momentary Gage Height		388.67		m. (MSL.) ,				at 18.00 Hours , on Sep 27, 2009					
Zero Gage at Bottom Elevation		386.27		m. (MSL.) ,		River Bed	384.49		m. (MSL)				
Left Bank Elevation		390.57		m. (MSL.) ,									
Right Bank Elevation		390.58		m. (MSL.) ,		Drainage Area	1167		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.27	5.70	8.96	6.67	11.60	11.44	9.44	0.77	0.35	0.38	0.25	
2	0.38	0.22	5.82	9.76	7.44	11.04	10.56	7.44	0.77	0.38	0.36	0.25	
3	0.38	0.22	5.82	10.16	9.36	9.28	12.64	5.28	0.85	0.38	0.36	0.39	
4	0.38	0.22	6.00	10.32	8.72	9.04	13.22	4.86	0.85	0.38	0.33	0.49	
5	0.39	0.31	6.95	8.32	7.65	8.56	12.97	3.54	0.85	0.35	0.33	0.47	
6	0.39	0.30	6.48	7.09	7.44	8.56	11.28	3.93	0.70	0.34	0.36	0.49	
7	0.41	0.20	6.42	7.09	9.60	8.16	9.92	3.87	0.70	0.36	0.33	0.70	
8	0.41	0.20	6.24	6.95	11.12	6.30	9.44	3.54	0.74	0.36	0.33	0.75	
9	0.39	3.60	5.88	6.95	10.56	6.42	9.12	3.87	0.88	0.36	0.33	0.41	
10	0.38	7.16	5.82	6.54	9.92	6.54	7.79	3.32	0.27	0.38	0.38	0.35	
11	0.38	7.44	5.82	8.96	9.52	7.51	7.79	2.95	0.22	0.38	0.38	0.36	
12	0.38	7.37	5.82	10.00	9.04	6.18	7.65	1.66	0.20	0.38	0.38	0.34	
13	0.38	7.09	5.94	11.84	7.86	5.70	7.65	1.20	0.19	0.39	0.38	0.33	
14	0.38	6.95	5.94	10.80	7.79	5.64	8.00	1.23	0.19	0.41	0.38	0.33	
15	0.35	6.42	5.88	10.16	7.93	5.22	9.28	1.26	0.21	0.26	0.38	0.25	
16	0.33	6.42	5.70	10.16	8.64	5.70	9.36	1.26	0.24	0.09	0.38	0.25	
17	0.38	6.54	5.76	9.44	10.16	10.64	9.36	1.23	0.62	0.09	0.38	0.24	
18	0.38	6.95	7.02	7.23	10.16	10.24	9.36	1.26	0.67	0.09	0.42	0.24	
19	0.39	6.42	7.79	6.12	10.16	10.64	9.04	1.38	0.70	0.09	0.44	0.24	
20	0.38	6.12	9.84	5.40	10.00	10.56	7.79	0.95	0.95	0.11	0.44	0.24	
21	0.39	5.22	10.16	7.02	9.52	13.65	6.42	0.74	1.07	0.19	0.44	0.22	
22	0.39	5.22	10.24	9.12	9.20	16.12	7.44	0.77	1.07	0.19	0.42	0.22	
23	0.38	5.34	11.04	9.36	8.40	16.12	6.30	0.81	0.75	0.19	0.30	0.23	
24	0.38	5.82	11.12	9.52	10.08	13.65	6.18	0.85	0.73	0.19	0.30	0.25	
25	0.39	5.82	10.72	10.24	10.16	11.44	5.76	0.77	0.62	0.22	0.30	0.24	
26	0.42	5.94	6.88	10.16	11.92	7.23	8.40	0.77	0.44	0.22	0.27	0.24	
27	0.39	6.30	9.12	11.04	11.44	13.99	9.12	0.70	0.38	0.22	0.27	0.24	
28	0.38	5.46	7.93	10.08	7.02	14.07	8.64	0.70	0.38	0.26	0.25	0.24	
29	0.38	5.76	7.09	8.00	6.88	12.16	8.56	0.70	0.38	0.39		0.25	
30	0.38	5.82	7.09	7.09	6.48	12.24	9.20	0.70	0.38	0.42		0.25	
31		5.82		7.09	7.16		9.20		0.33	0.41		0.27	
Total	11.50	142.94	218.03	270.97	278.00	294.20	278.88	70.98	18.10	8.83	10.00	10.02	1612.45 CMSDAY
Mean	0.38	4.61	7.27	8.74	8.97	9.81	9.00	2.37	0.58	0.28	0.36	0.32	4.42 CMS
Max	0.42	7.44	11.12	11.84	11.92	16.12	13.22	9.44	1.07	0.42	0.44	0.75	16.12 CMS
Min	0.33	0.20	5.70	5.40	6.48	5.22	5.76	0.70	0.19	0.09	0.25	0.22	0.09 CMS
Runoff	0.99	12.35	18.84	23.41	24.02	25.42	24.10	6.13	1.56	0.76	0.86	0.87	139.32 MCM
Momentary Peak	18.70 CMS. at 388.67 m. (MSL.) at 18.00 Hours , on Sep 27 , 2009												
Runoff Yield	3.79 Liters/Second/Square KM.			Momentary Peak Yield			16.024 Liters/Second/Square KM.						

WATER YEAR : 2009

NAM MAE KOK RIVER BASIN

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

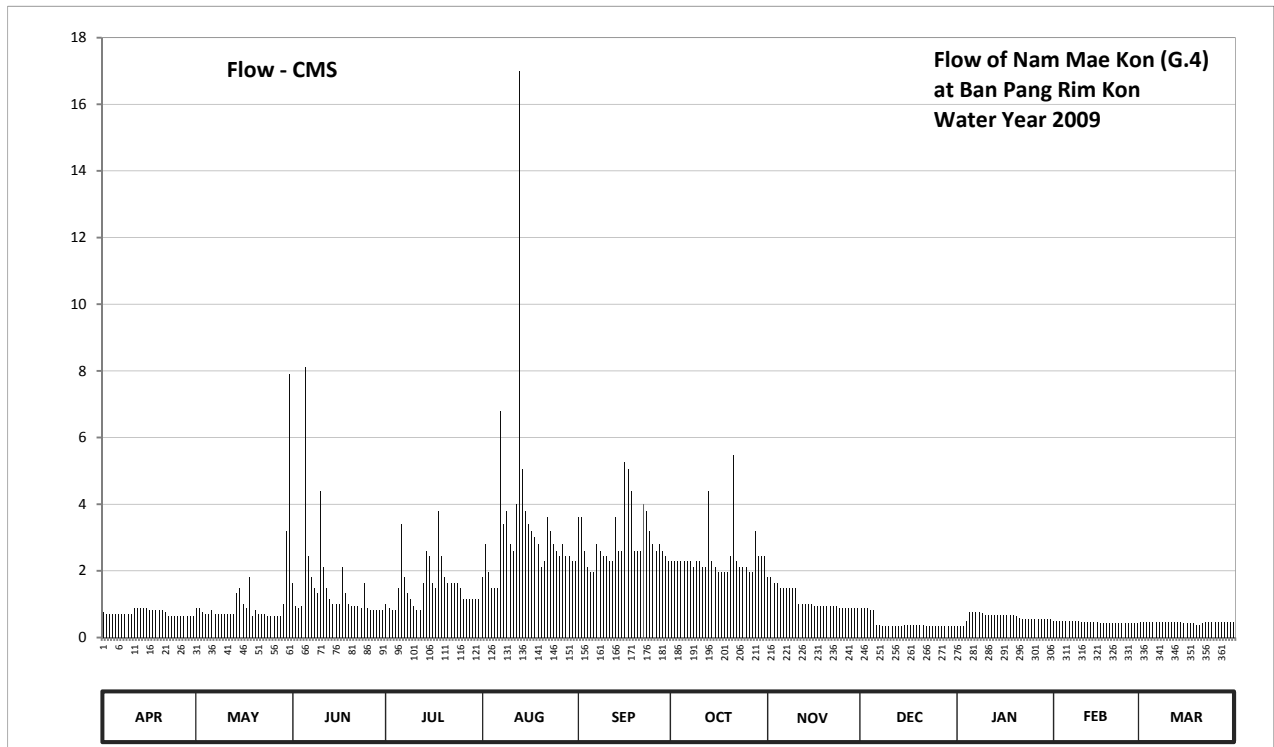
Lat 19 - 50 - 23 N Long 99 - 40 - 27 E

Location : on left bank at Ban Pang Rim Kon.

	Ban	Pang Rim Kon	Amphoe	Mueang	Changwat	Chiang Rai
Drainage Area	49	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+461.700 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 66.50 meters from the top staff gage.				Elevation	+465.100 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.26	462.28	462.34	462.30	462.35	462.45	462.38	462.35	462.28	462.31	462.37	462.35	
2	462.25	462.28	462.29	462.28	462.41	462.45	462.38	462.35	462.28	462.31	462.36	462.35	
3	462.25	462.26	462.28	462.27	462.36	462.40	462.38	462.34	462.28	462.31	462.36	462.35	
4	462.25	462.25	462.29	462.27	462.33	462.37	462.38	462.34	462.27	462.37	462.36	462.35	
5	462.25	462.25	462.66	462.33	462.33	462.36	462.38	462.33	462.27	462.44	462.36	462.35	
6	462.25	462.27	462.39	462.44	462.33	462.36	462.38	462.33	462.32	462.44	462.36	462.35	
7	462.25	462.25	462.35	462.35	462.60	462.41	462.38	462.33	462.33	462.44	462.36	462.35	
8	462.25	462.25	462.33	462.32	462.44	462.40	462.37	462.33	462.31	462.44	462.36	462.35	
9	462.25	462.25	462.32	462.31	462.46	462.39	462.38	462.33	462.31	462.43	462.36	462.35	
10	462.25	462.25	462.49	462.29	462.41	462.39	462.38	462.33	462.31	462.42	462.35	462.35	
11	462.28	462.25	462.37	462.27	462.40	462.38	462.37	462.30	462.31	462.42	462.35	462.35	
12	462.28	462.25	462.33	462.27	462.47	462.38	462.37	462.30	462.31	462.42	462.35	462.35	
13	462.28	462.25	462.31	462.34	463.00	462.45	462.49	462.30	462.31	462.42	462.35	462.35	
14	462.28	462.32	462.30	462.40	462.52	462.40	462.38	462.30	462.31	462.42	462.35	462.35	
15	462.28	462.33	462.30	462.39	462.46	462.40	462.37	462.30	462.32	462.42	462.35	462.34	
16	462.27	462.30	462.30	462.34	462.44	462.53	462.36	462.29	462.32	462.42	462.34	462.34	
17	462.27	462.28	462.37	462.33	462.43	462.52	462.36	462.29	462.32	462.42	462.34	462.34	
18	462.27	462.35	462.32	462.46	462.42	462.49	462.36	462.29	462.32	462.42	462.34	462.34	
19	462.27	462.24	462.30	462.39	462.41	462.40	462.36	462.29	462.32	462.42	462.34	462.33	
20	462.27	462.27	462.29	462.35	462.37	462.40	462.39	462.29	462.32	462.41	462.34	462.33	
21	462.26	462.25	462.29	462.34	462.38	462.40	462.54	462.29	462.32	462.39	462.34	462.34	
22	462.24	462.25	462.29	462.34	462.45	462.47	462.38	462.29	462.31	462.38	462.34	462.35	
23	462.24	462.25	462.28	462.34	462.43	462.46	462.37	462.29	462.31	462.38	462.34	462.35	
24	462.24	462.24	462.34	462.34	462.41	462.43	462.37	462.28	462.31	462.38	462.34	462.35	
25	462.24	462.24	462.28	462.33	462.40	462.41	462.37	462.28	462.31	462.38	462.34	462.35	
26	462.24	462.24	462.27	462.31	462.39	462.40	462.36	462.28	462.31	462.38	462.34	462.35	
27	462.24	462.24	462.27	462.31	462.41	462.41	462.36	462.28	462.31	462.38	462.34	462.35	
28	462.24	462.24	462.27	462.31	462.39	462.40	462.43	462.28	462.31	462.38	462.34	462.35	
29	462.24	462.30	462.27	462.31	462.39	462.39	462.39	462.28	462.31	462.38	462.34	462.35	
30	462.24	462.43	462.27	462.31	462.38	462.38	462.39	462.28	462.31	462.38	462.34	462.35	
31		462.65		462.31	462.38		462.39		462.31	462.38		462.35	
Mean	462.26	462.28	462.33	462.33	462.43	462.42	462.39	462.30	462.31	462.40	462.35	462.35	
Max	462.28	462.65	462.66	462.46	463.00	462.53	462.54	462.35	462.33	462.44	462.37	462.35	463.00
Min	462.24	462.24	462.27	462.27	462.33	462.36	462.36	462.28	462.27	462.31	462.34	462.33	462.24
Annual Max Momentary Gage Height	464.00	m. (MSL.) ,		at 13.00 Hours , on Aug 13 , 2009									
Zero Gage at Bottom Elevation	461.70	m. (MSL.) ,		River Bed	461.85	m. (MSL)							
Left Bank Elevation	465.76	m. (MSL.) ,											
Right Bank Elevation	465.76	m. (MSL.) ,		Drainage Area	49	Square Kilometers							



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	0.88	1.64	1.00	1.80	3.60	2.28	1.80	0.88	0.33	0.51	0.45	
2	0.70	0.88	0.94	0.88	2.80	3.60	2.28	1.80	0.88	0.33	0.48	0.45	
3	0.70	0.76	0.88	0.82	1.96	2.60	2.28	1.64	0.88	0.33	0.48	0.45	
4	0.70	0.70	0.94	0.82	1.48	2.12	2.28	1.64	0.82	0.51	0.48	0.45	
5	0.70	0.70	8.12	1.48	1.48	1.96	2.28	1.48	0.82	0.76	0.48	0.45	
6	0.70	0.82	2.44	3.40	1.48	1.96	2.28	1.48	0.36	0.76	0.48	0.45	
7	0.70	0.70	1.80	1.80	6.80	2.80	2.28	1.48	0.39	0.76	0.48	0.45	
8	0.70	0.70	1.48	1.32	3.40	2.60	2.12	1.48	0.33	0.76	0.48	0.45	
9	0.70	0.70	1.32	1.16	3.80	2.44	2.28	1.48	0.33	0.72	0.48	0.45	
10	0.70	0.70	4.40	0.94	2.80	2.44	2.28	1.48	0.33	0.68	0.45	0.45	
11	0.88	0.70	2.12	0.82	2.60	2.28	2.12	1.00	0.33	0.68	0.45	0.45	
12	0.88	0.70	1.48	0.82	4.00	2.28	2.12	1.00	0.33	0.68	0.45	0.45	
13	0.88	0.70	1.16	1.64	17.00	3.60	4.40	1.00	0.33	0.68	0.45	0.45	
14	0.88	1.32	1.00	2.60	5.04	2.60	2.28	1.00	0.33	0.68	0.45	0.45	
15	0.88	1.48	1.00	2.44	3.80	2.60	2.12	1.00	0.36	0.68	0.45	0.42	
16	0.82	1.00	1.00	1.64	3.40	5.26	1.96	0.94	0.36	0.68	0.42	0.42	
17	0.82	0.88	2.12	1.48	3.20	5.04	1.96	0.94	0.36	0.68	0.42	0.42	
18	0.82	1.80	1.32	3.80	3.00	4.40	1.96	0.94	0.36	0.68	0.42	0.42	
19	0.82	0.64	1.00	2.44	2.80	2.60	1.96	0.94	0.36	0.68	0.42	0.39	
20	0.82	0.82	0.94	1.80	2.12	2.60	2.44	0.94	0.36	0.64	0.42	0.39	
21	0.76	0.70	0.94	1.64	2.28	2.60	5.48	0.94	0.36	0.57	0.42	0.42	
22	0.64	0.70	0.94	1.64	3.60	4.00	2.28	0.94	0.33	0.54	0.42	0.45	
23	0.64	0.70	0.88	1.64	3.20	3.80	2.12	0.94	0.33	0.54	0.42	0.45	
24	0.64	0.64	1.64	1.64	2.80	3.20	2.12	0.88	0.33	0.54	0.42	0.45	
25	0.64	0.64	0.88	1.48	2.60	2.80	2.12	0.88	0.33	0.54	0.42	0.45	
26	0.64	0.64	0.82	1.16	2.44	2.60	1.96	0.88	0.33	0.54	0.42	0.45	
27	0.64	0.64	0.82	1.16	2.80	2.80	1.96	0.88	0.33	0.54	0.42	0.45	
28	0.64	0.64	0.82	1.16	2.44	2.60	3.20	0.88	0.33	0.54	0.42	0.45	
29	0.64	1.00	0.82	1.16	2.44	2.44	2.44	0.88	0.33	0.54		0.45	
30	0.64	3.20	0.82	1.16	2.28	2.28	2.44	0.88	0.33	0.54		0.45	
31		7.90		1.16	2.28		2.44		0.33	0.54		0.45	
Total	22.08	34.98	46.48	48.10	103.92	88.50	74.52	34.44	13.16	18.67	12.51	13.68	511.04 CMSDAY
Mean	0.74	1.13	1.55	1.55	3.35	2.95	2.40	1.15	0.42	0.60	0.45	0.44	1.40 CMS
Max	0.88	7.90	8.12	3.80	17.00	5.26	5.48	1.80	0.88	0.76	0.51	0.45	17.00 CMS
Min	0.64	0.64	0.82	0.82	1.48	1.96	1.96	0.88	0.33	0.33	0.42	0.39	0.33 CMS
Runoff	1.91	3.02	4.02	4.16	8.98	7.65	6.44	2.98	1.14	1.61	1.08	1.18	44.15 MCM
Momentary Peak	53.80 CMS. at 464.00 m. (MSL.) at 13.00 Hours , on Aug 13 , 2009												
Runoff Yield	28.57 Liters/Second/Square KM.			Momentary Peak Yield			1097.959 Liters/Second/Square KM.						

WATER YEAR : 2009

NAM MAE KOK RIVER BASIN

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

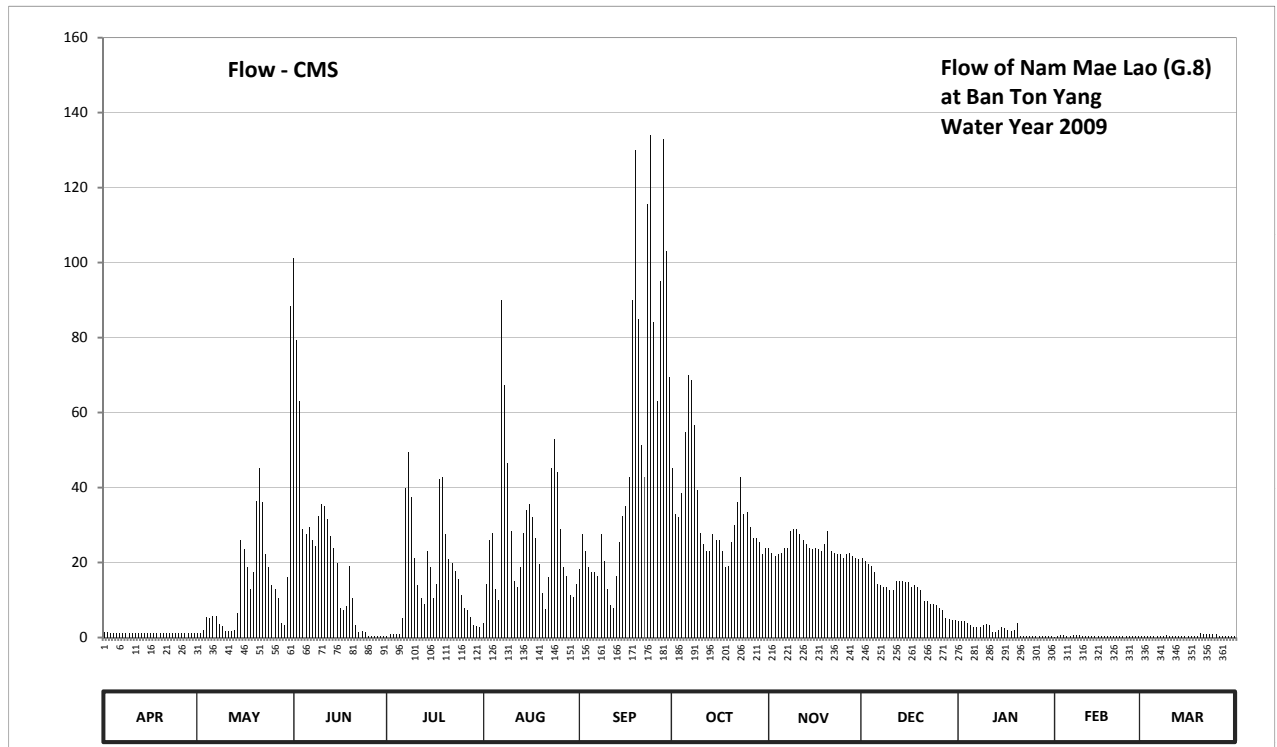
Lat 19 - 47 - 32 N Long 99 - 45 - 11 E

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

	Ban Ton Yang	Amphoe Mae Lao	Changwat Chiang Rai
Drainage Area	2,909 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+405.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 8 meters from the top staff gage.	Elevation	+410.832 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Mae Lao weir situated about 10 kilometers above gage site. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	405.09	405.08	406.87	404.99	405.20	405.59	406.12	405.72	405.66	405.22	404.91	404.95	
2	405.09	405.08	406.61	405.04	405.50	405.79	405.90	405.69	405.64	405.22	405.00	404.96	
3	405.08	405.12	406.40	405.05	405.76	405.70	405.88	405.67	405.62	405.22	405.01	405.00	
4	405.08	405.26	405.82	405.05	405.80	405.60	406.01	405.68	405.61	405.20	405.01	404.99	
5	405.07	405.25	405.79	405.04	405.47	405.57	406.28	405.69	405.57	405.17	405.00	404.95	
6	405.07	405.27	405.83	405.25	405.40	405.57	406.50	405.72	405.50	405.15	405.00	404.94	
7	405.07	405.27	405.76	406.03	406.74	405.55	406.48	405.72	405.49	405.15	405.02	404.95	
8	405.08	405.19	405.73	406.19	406.46	405.79	406.31	405.81	405.48	405.15	405.02	404.99	
9	405.08	405.16	405.89	405.99	406.14	405.64	406.02	405.82	405.48	405.17	405.01	405.01	
10	405.08	405.11	405.95	405.66	405.81	405.47	405.80	405.82	405.46	405.19	405.00	405.00	
11	405.07	405.11	405.94	405.49	405.52	405.36	405.74	405.79	405.46	405.18	405.00	404.98	
12	405.07	405.11	405.87	405.41	405.48	405.34	405.70	405.76	405.52	405.10	405.00	404.95	
13	405.07	405.12	405.78	405.37	405.60	405.55	405.70	405.74	405.52	405.10	404.99	404.95	
14	405.07	405.30	405.72	405.70	405.80	405.75	405.79	405.72	405.52	405.12	404.96	404.94	
15	405.07	405.76	405.63	405.60	405.92	405.89	405.76	405.71	405.51	405.15	404.96	404.94	
16	405.07	405.71	405.34	405.41	405.95	405.94	405.76	405.72	405.51	405.14	404.96	404.95	
17	405.07	405.60	405.32	405.50	405.88	406.08	405.70	405.71	405.48	405.12	404.98	404.95	
18	405.07	405.47	405.35	406.07	405.77	406.74	405.60	405.70	405.49	405.11	404.97	404.94	
19	405.06	405.57	405.61	406.08	405.62	407.19	405.61	405.74	405.48	405.12	404.97	404.95	
20	405.06	405.97	405.41	405.79	405.44	406.68	405.75	405.81	405.46	405.20	404.97	405.07	
21	405.06	406.12	405.17	405.65	405.33	406.22	405.84	405.70	405.39	404.99	404.96	405.05	
22	405.06	405.96	405.10	405.63	405.54	406.08	405.96	405.69	405.39	404.96	404.95	405.05	
23	405.07	405.68	405.11	405.58	406.12	407.03	406.08	405.68	405.37	404.95	404.96	405.04	
24	405.07	405.60	405.09	405.53	406.25	407.23	405.90	405.68	405.37	404.94	404.95	405.05	
25	405.07	405.49	404.99	405.43	406.10	406.67	405.91	405.66	405.36	404.96	404.97	405.04	
26	405.07	405.47	404.98	405.34	405.82	406.40	405.83	405.68	405.34	404.96	404.95	404.95	
27	405.07	405.41	404.96	405.32	405.60	406.80	405.77	405.69	405.32	404.95	404.96	404.95	
28	405.07	405.20	404.95	405.26	405.55	407.22	405.77	405.67	405.25	404.97	404.96	404.95	
29	405.08	405.17	404.94	405.17	405.43	406.89	405.75	405.66	405.24	404.96		404.96	
30	405.08	405.54	404.95	405.16	405.42	406.49	405.68	405.65	405.23	404.97		404.98	
31		406.72		405.15	405.50		405.72		405.23	404.95		404.98	
Mean	405.07	405.45	405.56	405.48	405.74	406.13	405.89	405.72	405.45	405.09	404.98	404.98	
Max	405.09	406.72	406.87	406.19	406.74	407.23	406.50	405.82	405.66	405.22	405.02	405.07	407.23
Min	405.06	405.08	404.94	404.99	405.20	405.34	405.60	405.65	405.23	404.94	404.91	404.94	404.91
Annual Max Momentary Gage Height		407.45	m. (MSL.) ,			at 03.00 Hours , on Sep 24 , 2009							
Zero Gage at Bottom Elevation		405.10	m. (MSL.) ,			River Bed	404.74	m. (MSL)					
Left Bank Elevation		410.59	m. (MSL.) ,										
Right Bank Elevation		410.59	m. (MSL.) ,			Drainage Area	2909	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	1.30	101.30	0.47	3.90	18.23	45.20	24.00	21.27	4.42	0.23	0.35	
2	1.40	1.30	79.17	0.90	14.33	27.50	33.00	22.57	20.40	4.42	0.50	0.38	
3	1.30	1.98	63.00	1.00	26.00	23.00	32.00	21.70	19.53	4.42	0.60	0.50	
4	1.30	5.46	29.00	1.00	28.00	18.67	38.60	22.13	19.10	3.90	0.60	0.47	
5	1.20	5.20	27.50	0.90	13.03	17.37	54.80	22.57	17.37	3.18	0.50	0.35	
6	1.20	5.72	29.50	5.20	10.00	17.37	70.00	24.00	14.33	2.70	0.50	0.32	
7	1.20	5.72	26.00	39.80	90.00	16.50	68.60	24.00	13.90	2.70	0.70	0.35	
8	1.30	3.66	24.50	49.40	67.20	27.50	56.70	28.50	13.47	2.70	0.70	0.47	
9	1.30	2.94	32.50	37.50	46.40	20.40	39.20	29.00	13.47	3.18	0.60	0.60	
10	1.30	1.74	35.50	21.27	28.50	13.03	28.00	29.00	12.60	3.66	0.50	0.50	
11	1.20	1.74	35.00	13.90	15.20	8.60	25.00	27.50	12.60	3.42	0.50	0.44	
12	1.20	1.74	31.50	10.43	13.47	7.90	23.00	26.00	15.20	1.50	0.50	0.35	
13	1.20	1.98	27.00	8.95	18.67	16.50	23.00	25.00	15.20	1.50	0.47	0.35	
14	1.20	6.50	24.00	23.00	28.00	25.50	27.50	24.00	15.20	1.98	0.38	0.32	
15	1.20	26.00	19.97	18.67	34.00	32.50	26.00	23.50	14.77	2.70	0.38	0.32	
16	1.20	23.50	7.90	10.43	35.50	35.00	26.00	24.00	14.77	2.46	0.38	0.35	
17	1.20	18.67	7.20	14.33	32.00	42.80	23.00	23.50	13.47	1.98	0.44	0.35	
18	1.20	13.03	8.25	42.20	26.50	90.00	18.67	23.00	13.90	1.74	0.41	0.32	
19	1.10	17.37	19.10	42.80	19.53	130.10	19.10	25.00	13.47	1.98	0.41	0.35	
20	1.10	36.50	10.43	27.50	11.73	85.00	25.50	28.50	12.60	3.90	0.41	1.20	
21	1.10	45.20	3.18	20.83	7.55	51.20	30.00	23.00	9.65	0.47	0.38	1.00	
22	1.10	36.00	1.50	19.97	16.07	42.80	36.00	22.57	9.65	0.38	0.35	1.00	
23	1.20	22.13	1.74	17.80	45.20	115.70	42.80	22.13	8.95	0.35	0.38	0.90	
24	1.20	18.67	1.40	15.63	53.00	134.00	33.00	22.13	8.95	0.32	0.35	1.00	
25	1.20	13.90	0.47	11.30	44.00	84.17	33.50	21.27	8.60	0.38	0.41	0.90	
26	1.20	13.03	0.44	7.90	29.00	63.00	29.50	22.13	7.90	0.38	0.35	0.35	
27	1.20	10.43	0.38	7.20	18.67	95.00	26.50	22.57	7.20	0.35	0.38	0.35	
28	1.20	3.90	0.35	5.46	16.50	133.00	26.50	21.70	5.20	0.41	0.38	0.35	
29	1.30	3.18	0.32	3.18	11.30	103.10	25.50	21.27	4.94	0.38		0.38	
30	1.30	16.07	0.35	2.94	10.87	69.30	22.13	20.83	4.68	0.41		0.44	
31		88.33		2.70	14.33		24.00		4.68	0.35		0.44	
Total	36.70	452.89	648.45	484.56	828.45	1564.74	1032.30	717.07	387.02	62.62	12.69	15.75	6243.24 CMSDAY
Mean	1.22	14.61	21.61	15.63	26.72	52.16	33.30	23.90	12.48	2.02	0.45	0.51	17.10 CMS
Max	1.40	88.33	101.30	49.40	90.00	134.00	70.00	29.00	21.27	4.42	0.70	1.20	134.00 CMS
Min	1.10	1.30	0.32	0.47	3.90	7.90	18.67	20.83	4.68	0.32	0.23	0.32	0.23 CMS
Runoff	3.17	39.13	56.03	41.87	71.58	135.19	89.19	61.96	33.44	5.41	1.10	1.36	539.42 MCM
Momentary Peak	156.00 CMS. at 407.45 m. (MSL.) at 03.00 Hours , on Sep 24 , 2009												
Runoff Yield	5.88 Liters/Second/Square KM.			Momentary Peak Yield				53.627 Liters/Second/Square KM.					

WATER YEAR : 2009

NAM MAE KOK RIVER BASIN

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

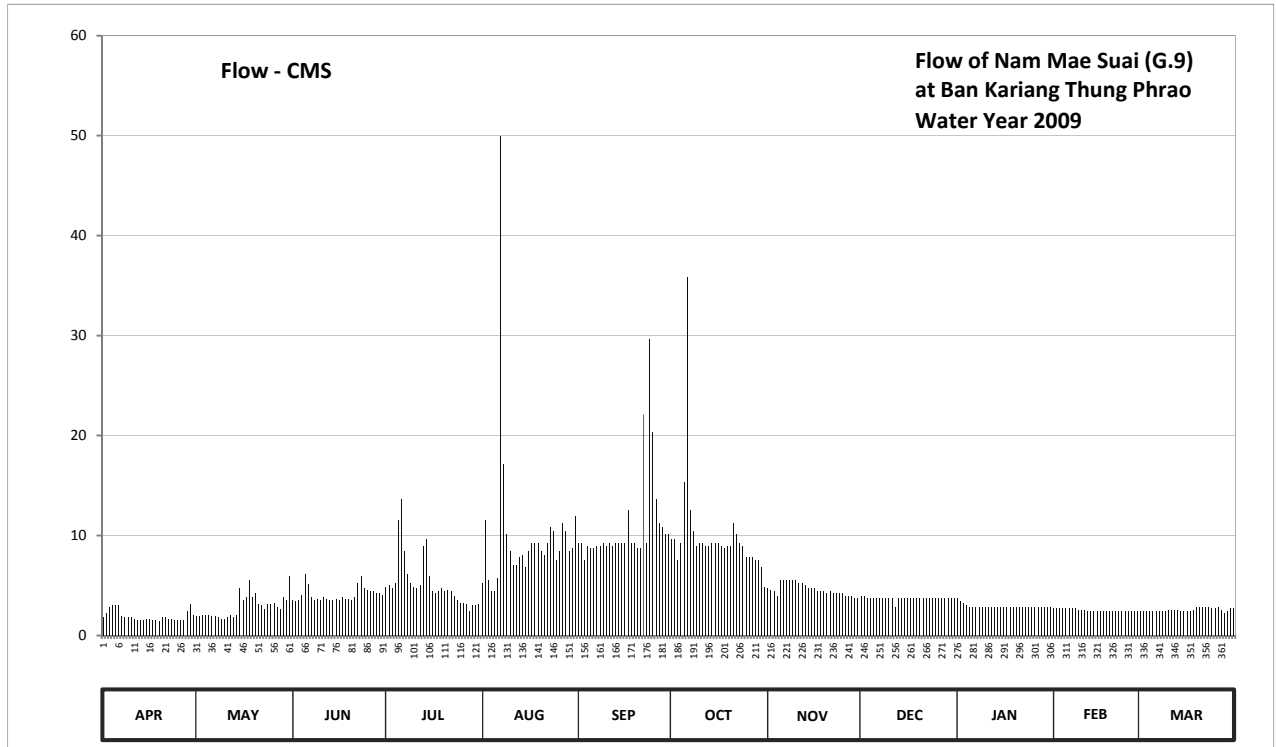
Lat 19 - 44 - 51 N Long 99 - 30 - 27 E

Location : on right bank at the bridge on road.

	Ban	Kariang Thung Phrao	Amphoe	Mae Suai	Changwat	Chiang Rai
Drainage Area	386	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+514.656 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+522.091 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1998 to date					
Rating Operation						
Period of Rating	1998 to date					
Rated by Flot	-					
Rated by Current Meter	1998 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	515.43	515.44	515.58	515.67	515.70	515.86	515.87	515.66	515.73	515.72	515.67	515.65	
2	515.47	515.44	515.57	515.68	515.93	515.86	515.87	515.65	515.73	515.71	515.67	515.65	
3	515.53	515.45	515.58	515.66	515.71	515.80	515.80	515.64	515.72	515.70	515.67	515.65	
4	515.54	515.46	515.62	515.70	515.64	515.85	515.86	515.73	515.72	515.69	515.67	515.65	
5	515.54	515.46	515.74	515.93	515.64	515.84	516.03	515.79	515.72	515.68	515.67	515.65	
6	515.54	515.44	515.69	515.99	515.72	515.84	516.43	515.79	515.72	515.68	515.67	515.65	
7	515.44	515.44	515.60	515.83	516.64	515.85	515.96	515.79	515.72	515.68	515.67	515.65	
8	515.43	515.43	515.58	515.74	516.07	515.85	515.90	515.79	515.72	515.68	515.67	515.65	
9	515.43	515.42	515.59	515.70	515.89	515.86	515.85	515.79	515.72	515.68	515.66	515.65	
10	515.43	515.41	515.58	515.67	515.83	515.85	515.86	515.79	515.72	515.68	515.66	515.66	
11	515.42	515.43	515.60	515.66	515.78	515.86	515.86	515.78	515.72	515.68	515.66	515.66	
12	515.40	515.45	515.59	515.68	515.78	515.85	515.85	515.78	515.68	515.68	515.65	515.66	
13	515.40	515.43	515.58	515.85	515.81	515.86	515.85	515.77	515.72	515.68	515.65	515.66	
14	515.40	515.45	515.58	515.87	515.82	515.86	515.86	515.76	515.72	515.68	515.65	515.65	
15	515.41	515.66	515.59	515.73	515.77	515.86	515.86	515.76	515.72	515.68	515.65	515.65	
16	515.41	515.58	515.58	515.64	515.83	515.86	515.86	515.76	515.72	515.68	515.65	515.65	
17	515.40	515.60	515.60	515.63	515.86	515.96	515.85	515.75	515.72	515.68	515.65	515.65	
18	515.40	515.71	515.59	515.64	515.86	515.86	515.84	515.75	515.72	515.68	515.65	515.66	
19	515.39	515.60	515.59	515.66	515.86	515.86	515.85	515.75	515.72	515.68	515.65	515.68	
20	515.43	515.63	515.58	515.64	515.83	515.84	515.85	515.74	515.72	515.68	515.65	515.68	
21	515.43	515.55	515.60	515.65	515.82	515.84	515.92	515.75	515.72	515.68	515.65	515.68	
22	515.42	515.54	515.70	515.64	515.86	516.18	515.89	515.74	515.72	515.68	515.65	515.68	
23	515.42	515.51	515.73	515.61	515.91	515.86	515.86	515.74	515.72	515.68	515.65	515.68	
24	515.40	515.55	515.66	515.58	515.90	516.32	515.85	515.74	515.72	515.68	515.65	515.67	
25	515.40	515.55	515.65	515.56	515.80	516.14	515.81	515.74	515.72	515.68	515.65	515.67	
26	515.40	515.56	515.64	515.56	515.83	515.99	515.81	515.73	515.72	515.68	515.65	515.68	
27	515.40	515.53	515.64	515.55	515.92	515.92	515.81	515.73	515.72	515.68	515.65	515.66	
28	515.50	515.51	515.63	515.50	515.90	515.91	515.80	515.73	515.72	515.68	515.65	515.64	
29	515.55	515.60	515.63	515.54	515.83	515.89	515.80	515.72	515.72	515.68		515.65	
30	515.45	515.58	515.62	515.54	515.84	515.89	515.77	515.72	515.72	515.68		515.67	
31		515.73		515.55	515.94		515.67		515.72	515.68		515.67	
Mean	515.44	515.52	515.62	515.67	515.86	515.90	515.87	515.75	515.72	515.68	515.66	515.66	
Max	515.55	515.73	515.74	515.99	516.64	516.32	516.43	515.79	515.73	515.72	515.67	515.68	516.64
Min	515.39	515.41	515.57	515.50	515.64	515.80	515.67	515.64	515.68	515.68	515.65	515.64	515.39
Annual Max Momentary Gage Height		517.11		m. (MSL.) ,									at 06.00 Hours , on Aug 7 , 2009
Zero Gage at Bottom Elevation		514.66		m. (MSL.) ,		River Bed	514.84		m. (MSL)				
Left Bank Elevation		521.60		m. (MSL.) ,									
Right Bank Elevation		521.60		m. (MSL.) ,		Drainage Area	386		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	1.90	3.54	4.85	5.30	9.30	9.60	4.70	3.98	3.72	2.72	2.40	
2	2.20	1.90	3.41	5.00	11.55	9.30	9.60	4.55	3.98	3.46	2.72	2.40	
3	2.89	2.00	3.54	4.70	5.52	7.50	7.50	4.40	3.72	3.20	2.72	2.40	
4	3.02	2.10	4.10	5.30	4.40	9.00	9.30	3.98	3.72	3.04	2.72	2.40	
5	3.02	2.10	6.18	11.55	4.40	8.70	15.35	5.54	3.72	2.88	2.72	2.40	
6	3.02	1.90	5.15	13.65	5.74	8.70	35.80	5.54	3.72	2.88	2.72	2.40	
7	1.90	1.90	3.80	8.40	50.00	9.00	12.60	5.54	3.72	2.88	2.72	2.40	
8	1.80	1.80	3.54	6.18	17.15	9.00	10.50	5.54	3.72	2.88	2.72	2.40	
9	1.80	1.70	3.67	5.30	10.20	9.30	9.00	5.54	3.72	2.88	2.56	2.40	
10	1.80	1.60	3.54	4.85	8.40	9.00	9.30	5.54	3.72	2.88	2.56	2.56	
11	1.70	1.80	3.80	4.70	7.06	9.30	9.30	5.28	3.72	2.88	2.56	2.56	
12	1.50	2.00	3.67	5.00	7.06	9.00	9.00	5.28	2.88	2.88	2.40	2.56	
13	1.50	1.80	3.54	9.00	7.80	9.30	9.00	5.02	3.72	2.88	2.40	2.56	
14	1.50	2.00	3.54	9.60	8.10	9.30	9.30	4.76	3.72	2.88	2.40	2.40	
15	1.60	4.70	3.67	5.96	6.84	9.30	9.30	4.76	3.72	2.88	2.40	2.40	
16	1.60	3.54	3.54	4.40	8.40	9.30	9.30	4.76	3.72	2.88	2.40	2.40	
17	1.50	3.80	3.80	4.25	9.30	12.60	9.00	4.50	3.72	2.88	2.40	2.40	
18	1.50	5.52	3.67	4.40	9.30	9.30	8.70	4.50	3.72	2.88	2.40	2.56	
19	1.41	3.80	3.67	4.70	9.30	9.30	9.00	4.50	3.72	2.88	2.40	2.88	
20	1.80	4.25	3.54	4.40	8.40	8.70	9.00	4.24	3.72	2.88	2.40	2.88	
21	1.80	3.15	3.80	4.55	8.10	8.70	11.20	4.50	3.72	2.88	2.40	2.88	
22	1.70	3.02	5.30	4.40	9.30	22.10	10.20	4.24	3.72	2.88	2.40	2.88	
23	1.70	2.63	5.96	3.95	10.85	9.30	9.30	4.24	3.72	2.88	2.40	2.88	
24	1.50	3.15	4.70	3.54	10.50	29.60	9.00	4.24	3.72	2.88	2.40	2.72	
25	1.50	3.15	4.55	3.28	7.50	20.30	7.80	4.24	3.72	2.88	2.40	2.72	
26	1.50	3.28	4.40	3.28	8.40	13.65	7.80	3.98	3.72	2.88	2.40	2.88	
27	1.50	2.89	4.40	3.15	11.20	11.20	7.80	3.98	3.72	2.88	2.40	2.56	
28	2.50	2.63	4.25	2.50	10.50	10.85	7.50	3.98	3.72	2.88	2.40	2.24	
29	3.15	3.80	4.25	3.02	8.40	10.20	7.50	3.72	3.72	2.88		2.40	
30	2.00	3.54	4.10	3.02	8.70	10.20	6.84	3.72	3.72	2.88		2.72	
31		5.96		3.15	11.90		4.85		3.72	2.88		2.72	
Total	57.71	89.31	122.62	164.03	309.57	330.30	309.24	139.31	115.00	91.18	70.24	79.36	1877.87 CMSDAY
Mean	1.92	2.88	4.09	5.29	9.99	11.01	9.98	4.64	3.71	2.94	2.51	2.56	5.14 CMS
Max	3.15	5.96	6.18	13.65	50.00	29.60	35.80	5.54	3.98	3.72	2.72	2.88	50.00 CMS
Min	1.41	1.60	3.41	2.50	4.40	7.50	4.85	3.72	2.88	2.88	2.40	2.24	1.41 CMS
Runoff	4.99	7.72	10.59	14.17	26.75	28.54	26.72	12.04	9.94	7.88	6.07	6.86	162.25 MCM
Momentary Peak	88.90 CMS. at 517.11 m. (MSL.) at 06.00 Hours , on Aug 7 , 2009												
Runoff Yield	13.33 Liters/Second/Square KM.			Momentary Peak Yield				230.311 Liters/Second/Square KM.					

WATER YEAR : 2009

NAM MAE KOK RIVER BASIN

Nam Mae Lao at Ban Pong Phu Phuang , Chiang Rai (G.10)

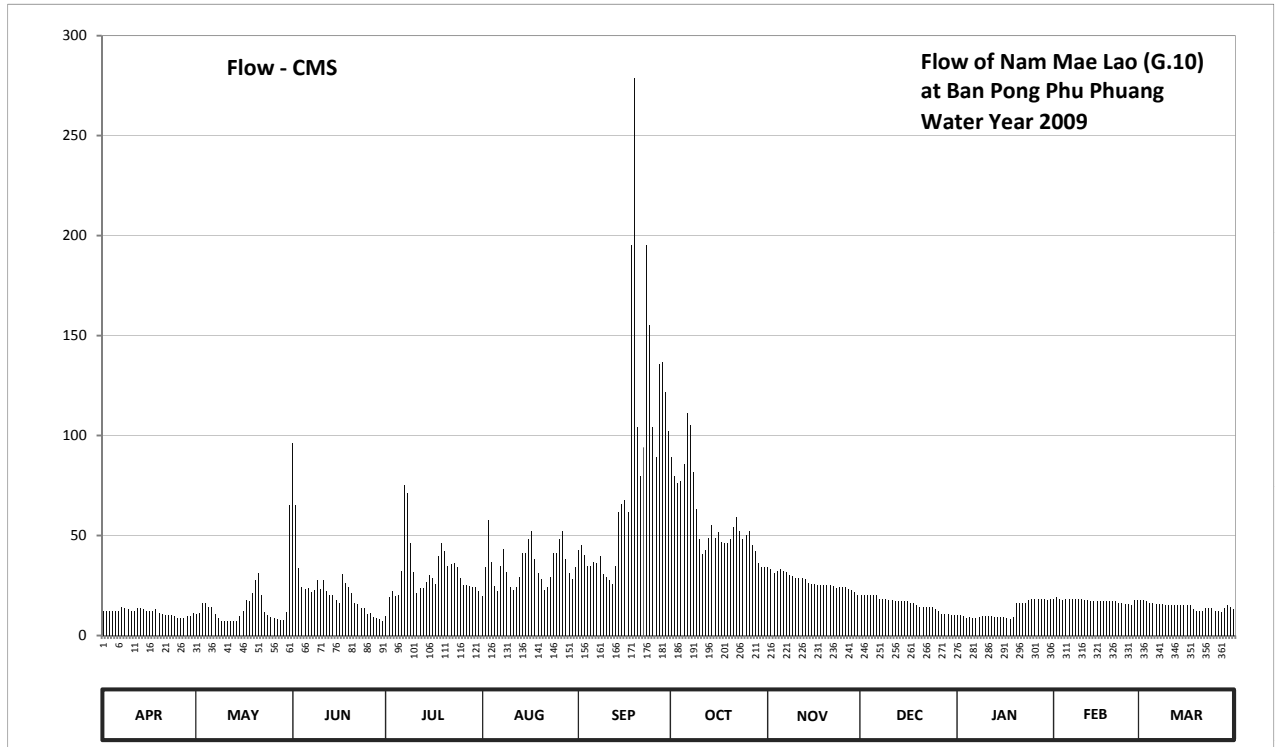
Lat 19 - 39 - 21 N Long 99 - 32 - 50 E

Location : on right bank at Ban Pong Phu Phuang.

	Ban	Pong Phu Phuang	Amphoe	Mae Suai	Changwat	Chiang Rai
Drainage Area	2,614	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+433.473 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+439.133 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	433.81	433.77	435.00	433.74	433.95	434.35	434.93	434.22	433.97	433.75	433.93	433.91	
2	433.81	433.78	434.66	433.94	434.22	434.39	434.83	434.20	433.97	433.75	433.94	433.91	
3	433.81	433.89	434.21	434.00	434.57	434.31	434.79	434.17	433.97	433.73	433.92	433.90	
4	433.81	433.88	434.04	433.95	434.26	434.23	434.80	434.19	433.96	433.71	433.91	433.89	
5	433.81	433.85	434.02	433.96	434.05	434.23	434.89	434.20	433.96	433.72	433.92	433.88	
6	433.80	433.84	434.03	434.19	434.00	434.26	435.15	434.19	433.96	433.71	433.93	433.87	
7	433.84	433.76	433.99	434.78	434.23	434.25	435.09	434.18	433.93	433.71	433.92	433.87	
8	433.83	433.71	434.01	434.73	434.36	434.30	434.85	434.15	433.93	433.72	433.92	433.87	
9	433.82	433.67	434.10	434.40	434.18	434.16	434.64	434.14	433.92	433.74	433.92	433.86	
10	433.81	433.67	434.02	434.18	434.04	434.13	434.43	434.12	433.91	433.73	433.92	433.86	
11	433.81	433.67	434.10	433.98	434.01	434.10	434.32	434.12	433.91	433.73	433.91	433.86	
12	433.83	433.67	434.00	434.03	434.04	434.07	434.35	434.12	433.90	433.73	433.91	433.86	
13	433.83	433.67	433.96	434.03	434.13	434.23	434.44	434.11	433.90	433.72	433.90	433.86	
14	433.82	433.67	433.96	434.09	434.33	434.62	434.53	434.08	433.90	433.72	433.90	433.86	
15	433.81	433.73	433.91	434.15	434.33	434.67	434.44	434.07	433.90	433.72	433.90	433.86	
16	433.81	433.81	433.88	434.12	434.43	434.69	434.48	434.07	433.90	433.72	433.90	433.86	
17	433.81	433.91	434.16	434.07	434.49	434.62	434.41	434.06	433.89	433.71	433.90	433.86	
18	433.82	433.90	434.08	434.30	434.28	435.83	434.40	434.06	433.88	433.70	433.90	433.82	
19	433.78	433.98	434.04	434.40	434.17	436.38	434.40	434.06	433.86	433.72	433.90	433.81	
20	433.77	434.10	433.98	434.34	434.11	435.08	434.43	434.06	433.85	433.88	433.90	433.80	
21	433.75	434.17	433.89	434.23	434.01	434.83	434.52	434.06	433.85	433.89	433.90	433.81	
22	433.75	433.97	433.87	434.24	434.04	434.98	434.59	434.05	433.85	433.89	433.89	433.83	
23	433.75	433.79	433.83	434.25	434.13	435.83	434.49	434.03	433.84	433.89	433.88	433.83	
24	433.73	433.75	433.83	434.22	434.33	435.53	434.43	434.04	433.84	433.91	433.87	433.83	
25	433.71	433.72	433.77	434.12	434.33	435.08	434.46	434.04	433.82	433.92	433.87	433.81	
26	433.71	433.71	433.78	434.06	434.43	434.93	434.49	434.04	433.80	433.92	433.86	433.80	
27	433.71	433.70	433.72	434.06	434.49	435.37	434.39	434.02	433.77	433.93	433.91	433.79	
28	433.73	433.68	433.71	434.05	434.28	435.38	434.34	434.01	433.77	433.92	433.91	433.83	
29	433.74	433.68	433.70	434.04	434.17	435.25	434.25	433.99	433.76	433.92		433.86	
30	433.78	433.79	433.67	434.04	434.11	435.06	434.22	433.97	433.75	433.91		433.85	
31		434.66		434.00	434.22		434.22		433.75	433.92		433.82	
Mean	433.79	433.82	434.00	434.15	434.22	434.77	434.55	434.09	433.88	433.79	433.91	433.85	
Max	433.84	434.66	435.00	434.78	434.57	436.38	435.15	434.22	433.97	433.93	433.94	433.91	436.38
Min	433.71	433.67	433.67	433.74	433.95	434.07	434.22	433.97	433.75	433.70	433.86	433.79	433.67
Annual Max Momentary Gage Height		436.75		m. (MSL.) ,				at 06.00 Hours , on Sep 19 , 2009					
Zero Gage at Bottom Elevation		433.47		m. (MSL.) ,		River Bed	432.52	M (MSL)					
Left Bank Elevation				438.96		m. (MSL.) ,							
Right Bank Elevation			438.92		m. (MSL.) ,		Drainage Area	2614	Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.50	10.95	96.00	9.90	19.50	42.75	89.35	34.30	20.50	10.25	18.50	17.50	
2	12.50	11.30	65.10	19.00	34.30	45.35	79.85	33.00	20.50	10.25	19.00	17.50	
3	12.50	16.50	33.65	22.00	57.90	40.15	76.15	31.35	20.50	9.55	18.00	17.00	
4	12.50	16.00	24.20	19.50	36.90	34.95	77.00	32.45	20.00	8.85	17.50	16.50	
5	12.50	14.50	23.10	20.00	24.75	34.95	85.55	33.00	20.00	9.20	18.00	16.00	
6	12.00	14.00	23.65	32.45	22.00	36.90	111.00	32.45	20.00	8.85	18.50	15.50	
7	14.00	10.60	21.50	75.30	34.95	36.25	105.00	31.90	18.50	8.85	18.00	15.50	
8	13.50	8.85	22.55	71.05	43.40	39.50	81.75	30.25	18.50	9.20	18.00	15.50	
9	13.00	7.45	27.50	46.00	31.90	30.80	63.40	29.70	18.00	9.90	18.00	15.00	
10	12.50	7.45	23.10	31.90	24.20	29.15	48.10	28.60	17.50	9.55	18.00	15.00	
11	12.50	7.45	27.50	21.00	22.55	27.50	40.80	28.60	17.50	9.55	17.50	15.00	
12	13.50	7.45	22.00	23.65	24.20	25.85	42.75	28.60	17.00	9.55	17.50	15.00	
13	13.50	7.45	20.00	23.65	29.15	34.95	48.80	28.05	17.00	9.20	17.00	15.00	
14	13.00	7.45	20.00	26.95	41.45	61.70	55.10	26.40	17.00	9.20	17.00	15.00	
15	12.50	9.55	17.50	30.25	41.45	65.95	48.80	25.85	17.00	9.20	17.00	15.00	
16	12.50	12.50	16.00	28.60	48.10	67.65	51.60	25.85	17.00	9.20	17.00	15.00	
17	12.50	17.50	30.80	25.85	52.30	61.70	46.70	25.30	16.50	8.85	17.00	15.00	
18	13.00	17.00	26.40	39.50	38.20	195.35	46.00	25.30	16.00	8.50	17.00	13.00	
19	11.30	21.00	24.20	46.00	31.35	278.90	46.00	25.30	15.00	9.20	17.00	12.50	
20	10.95	27.50	21.00	42.10	28.05	104.00	48.10	25.30	14.50	16.00	17.00	12.00	
21	10.25	31.35	16.50	34.95	22.55	79.85	54.40	25.30	14.50	16.50	17.00	12.50	
22	10.25	20.50	15.50	35.60	24.20	94.10	59.30	24.75	14.50	16.50	16.50	13.50	
23	10.25	11.65	13.50	36.25	29.15	195.35	52.30	23.65	14.00	16.50	16.00	13.50	
24	9.55	10.25	13.50	34.30	41.45	155.25	48.10	24.20	14.00	17.50	15.50	13.50	
25	8.85	9.20	10.95	28.60	41.45	104.00	50.20	24.20	13.00	18.00	15.50	12.50	
26	8.85	8.85	11.30	25.30	48.10	89.35	52.30	24.20	12.00	18.00	15.00	12.00	
27	8.85	8.50	9.20	25.30	52.30	135.55	45.35	23.10	10.95	18.50	17.50	11.65	
28	9.55	7.80	8.85	24.75	38.20	136.70	42.10	22.55	10.95	18.00	17.50	13.50	
29	9.90	7.80	8.50	24.20	31.35	121.75	36.25	21.50	10.60	18.00		15.00	
30	11.30	11.65	7.45	24.20	28.05	102.00	34.30	20.50	10.25	17.50		14.50	
31		65.10		22.00	34.30		34.30		10.25	18.00		13.00	
Total	350.35	445.10	701.00	970.10	1077.70	2508.20	1800.70	815.50	493.50	385.90	483.00	448.65	10479.70 CMSDAY
Mean	11.68	14.36	23.37	31.29	34.76	83.61	58.09	27.18	15.92	12.45	17.25	14.47	28.71 CMS
Max	14.00	65.10	96.00	75.30	57.90	278.90	111.00	34.30	20.50	18.50	19.00	17.50	278.90 CMS
Min	8.85	7.45	7.45	9.90	19.50	25.85	34.30	20.50	10.25	8.50	15.00	11.65	7.45 CMS
Runoff	30.27	38.46	60.57	83.82	93.11	216.71	155.58	70.46	42.64	33.34	41.73	38.76	905.45 MCM
Momentary Peak	339.25 CMS. at 436.75 m. (MSL.) at 06.00 Hours , on Sep 19 , 2009												
Runoff Yield	10.98 Liters/Second/Square KM.			Momentary Peak Yield				129.782 Liters/Second/Square KM.					

WATER YEAR : 2009

NAM MAE KOK RIVER BASIN

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

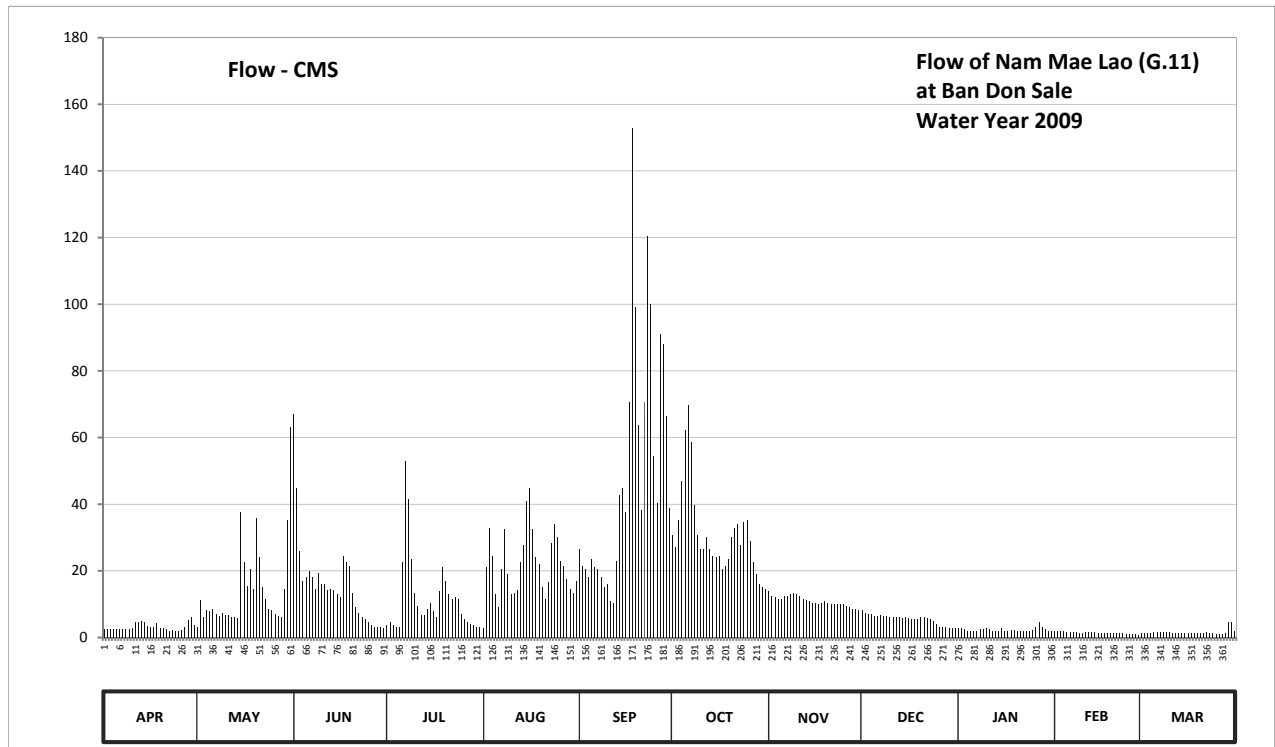
Lat 19 - 37 - 14 N Long 99 - 28 - 50 E

Location : on left bank at Ban Sale.

	Ban Don Sale	Amphoe Mae Suai	Changwat Chiang Rai
Drainage Area	1,918 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+462.835 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+468.695 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	463.42	463.45	464.63	463.47	463.43	464.02	464.09	463.76	463.63	463.43	463.40	463.33	
2	463.42	463.70	464.32	463.51	463.91	463.92	464.03	463.73	463.61	463.43	463.38	463.35	
3	463.42	463.56	464.01	463.47	464.13	463.90	464.17	463.72	463.60	463.42	463.38	463.35	
4	463.42	463.63	463.83	463.44	463.98	463.85	464.35	463.71	463.60	463.40	463.38	463.34	
5	463.42	463.62	463.85	463.45	463.74	463.96	464.57	463.71	463.58	463.40	463.37	463.37	
6	463.42	463.64	463.89	463.94	463.65	463.91	464.66	463.73	463.58	463.40	463.37	463.37	
7	463.42	463.60	463.85	464.44	463.90	463.90	464.52	463.73	463.59	463.40	463.36	463.37	
8	463.42	463.58	463.78	464.27	464.12	463.85	464.24	463.74	463.58	463.42	463.36	463.37	
9	463.42	463.61	463.88	463.96	463.87	463.79	464.09	463.75	463.58	463.42	463.35	463.37	
10	463.43	463.59	463.81	463.75	463.74	463.81	464.02	463.74	463.57	463.43	463.35	463.36	
11	463.51	463.59	463.81	463.66	463.75	463.69	464.02	463.73	463.57	463.42	463.36	463.34	
12	463.50	463.57	463.77	463.59	463.77	463.68	464.08	463.71	463.56	463.40	463.36	463.34	
13	463.52	463.56	463.78	463.59	463.94	463.95	464.02	463.70	463.56	463.39	463.36	463.34	
14	463.50	463.55	463.77	463.64	464.04	464.29	463.98	463.69	463.55	463.38	463.36	463.34	
15	463.46	464.21	463.74	463.68	464.26	464.32	463.97	463.68	463.56	463.43	463.35	463.34	
16	463.45	463.94	463.72	463.62	464.32	464.21	463.98	463.68	463.55	463.40	463.35	463.34	
17	463.45	463.80	463.98	463.56	464.12	464.67	463.90	463.67	463.54	463.39	463.35	463.34	
18	463.49	463.90	463.94	463.76	463.97	465.42	463.92	463.68	463.54	463.41	463.34	463.33	
19	463.43	463.78	463.92	463.91	463.93	464.97	463.96	463.69	463.54	463.41	463.33	463.33	
20	463.43	464.18	463.75	463.83	463.79	464.59	464.08	463.68	463.56	463.40	463.32	463.33	
21	463.42	463.97	463.65	463.74	463.71	464.22	464.13	463.67	463.56	463.39	463.32	463.35	
22	463.40	463.79	463.61	463.71	463.82	464.67	464.15	463.67	463.55	463.38	463.32	463.36	
23	463.41	463.71	463.56	463.72	464.05	465.16	464.04	463.67	463.54	463.39	463.32	463.35	
24	463.38	463.64	463.54	463.71	464.15	464.98	464.16	463.67	463.52	463.39	463.31	463.32	
25	463.38	463.63	463.51	463.60	464.08	464.46	464.17	463.67	463.48	463.41	463.30	463.29	
26	463.41	463.60	463.47	463.54	463.95	464.25	464.06	463.66	463.44	463.44	463.30	463.29	
27	463.44	463.58	463.44	463.51	463.92	464.89	463.94	463.65	463.44	463.51	463.29	463.29	
28	463.53	463.56	463.44	463.48	463.84	464.86	463.87	463.64	463.44	463.45	463.28	463.35	
29	463.57	463.78	463.44	463.47	463.78	464.62	463.81	463.64	463.43	463.42		463.51	
30	463.47	464.17	463.43	463.45	463.75	464.23	463.79	463.63	463.43	463.40		463.51	
31		464.58		463.44	463.83		463.78		463.43	463.40		463.40	
Mean	463.45	463.74	463.77	463.67	463.91	464.30	464.08	463.69	463.54	463.41	463.34	463.35	
Max	463.57	464.58	464.63	464.44	464.32	465.42	464.66	463.76	463.63	463.51	463.40	463.51	465.42
Min	463.38	463.45	463.43	463.44	463.43	463.68	463.78	463.63	463.43	463.38	463.28	463.29	463.28
Annual Max Momentary Gage Height	465.59		m. (MSL.) ,			at 11.00 Hours , on Sep 18 , 2009							
Zero Gage at Bottom Elevation	462.83		m. (MSL.) ,			River Bed	462.97		m. (MSL)				
Left Bank Elevation	468.83		m. (MSL.) ,										
Right Bank Elevation	468.89		m. (MSL.) ,			Drainage Area	1918		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	3.25	67.13	3.75	2.75	26.65	30.67	13.80	8.28	2.75	2.00	1.30	
2	2.50	11.25	44.80	4.75	21.00	21.50	27.22	12.53	7.42	2.75	1.80	1.50	
3	2.50	6.00	26.08	3.75	32.97	20.50	35.28	12.10	7.00	2.50	1.80	1.50	
4	2.50	8.28	17.00	3.00	24.50	18.00	46.75	11.67	7.00	2.00	1.80	1.40	
5	2.50	7.85	18.00	3.25	12.95	23.50	62.33	11.67	6.50	2.00	1.70	1.70	
6	2.50	8.70	20.00	22.50	9.12	21.00	69.75	12.53	6.50	2.00	1.70	1.70	
7	2.50	7.00	18.00	52.90	20.50	20.50	58.70	12.53	6.75	2.00	1.60	1.70	
8	2.50	6.50	14.65	41.55	32.40	18.00	39.60	12.95	6.50	2.50	1.60	1.70	
9	2.50	7.42	19.50	23.50	19.00	15.08	30.67	13.38	6.50	2.50	1.50	1.70	
10	2.75	6.75	16.00	13.38	12.95	16.00	26.65	12.95	6.25	2.75	1.50	1.60	
11	4.75	6.75	16.00	9.55	13.38	10.83	26.65	12.53	6.25	2.50	1.60	1.40	
12	4.50	6.25	14.22	6.75	14.22	10.40	30.10	11.67	6.00	2.00	1.60	1.40	
13	5.00	6.00	14.65	6.75	22.50	23.00	26.65	11.25	6.00	1.90	1.60	1.40	
14	4.50	5.75	14.22	8.70	27.80	42.85	24.50	10.83	5.75	1.80	1.60	1.40	
15	3.50	37.65	12.95	10.40	40.90	44.80	24.00	10.40	6.00	2.75	1.50	1.40	
16	3.25	22.50	12.10	7.85	44.80	37.65	24.50	10.40	5.75	2.00	1.50	1.40	
17	3.25	15.50	24.50	6.00	32.40	70.63	20.50	9.98	5.50	1.90	1.50	1.40	
18	4.25	20.50	22.50	13.80	24.00	153.00	21.50	10.40	5.50	2.25	1.40	1.30	
19	2.75	14.65	21.50	21.00	22.00	99.00	23.50	10.83	5.50	2.25	1.30	1.30	
20	2.75	35.85	13.38	17.00	15.08	63.77	30.10	10.40	6.00	2.00	1.20	1.30	
21	2.50	24.00	9.12	12.95	11.67	38.30	32.97	9.98	6.00	1.90	1.20	1.50	
22	2.00	15.08	7.42	11.67	16.50	70.63	34.12	9.98	5.75	1.80	1.20	1.60	
23	2.25	11.67	6.00	12.10	28.37	120.40	27.80	9.98	5.50	1.90	1.20	1.50	
24	1.80	8.70	5.50	11.67	34.12	100.00	34.70	9.98	5.00	1.90	1.10	1.20	
25	1.80	8.28	4.75	7.00	30.10	54.35	35.28	9.98	4.00	2.25	1.00	0.90	
26	2.25	7.00	3.75	5.50	23.00	40.25	28.95	9.55	3.00	3.00	1.00	0.90	
27	3.00	6.50	3.00	4.75	21.50	91.00	22.50	9.12	3.00	4.75	0.90	0.90	
28	5.25	6.00	3.00	4.00	17.50	88.00	19.00	8.70	3.00	3.25	0.80	1.50	
29	6.25	14.65	3.00	3.75	14.65	66.25	16.00	8.70	2.75	2.50		4.75	
30	3.75	35.28	2.75	3.25	13.38	38.95	15.08	8.28	2.75	2.00		4.75	
31		63.05		3.00	17.00		14.65		2.75	2.00		2.00	
Total	94.60	444.61	475.47	359.77	673.01	1464.79	960.67	329.05	170.45	72.35	40.20	51.00	5135.97 CMSDAY
Mean	3.15	14.34	15.85	11.61	21.71	48.83	30.99	10.97	5.50	2.33	1.44	1.65	14.07 CMS
Max	6.25	63.05	67.13	52.90	44.80	153.00	69.75	13.80	8.28	4.75	2.00	4.75	153.00 CMS
Min	1.80	3.25	2.75	3.00	2.75	10.40	14.65	8.28	2.75	1.80	0.80	0.90	0.80 CMS
Runoff	8.17	38.41	41.08	31.08	58.15	126.56	83.00	28.43	14.73	6.25	3.47	4.41	443.75 MCM
Momentary Peak	178.50 CMS. at 465.59 m. (MSL.) at 11.00 Hours , on Sep 18 , 2009												
Runoff Yield	7.34 Liters/Second/Square KM.			Momentary Peak Yield			93.066 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

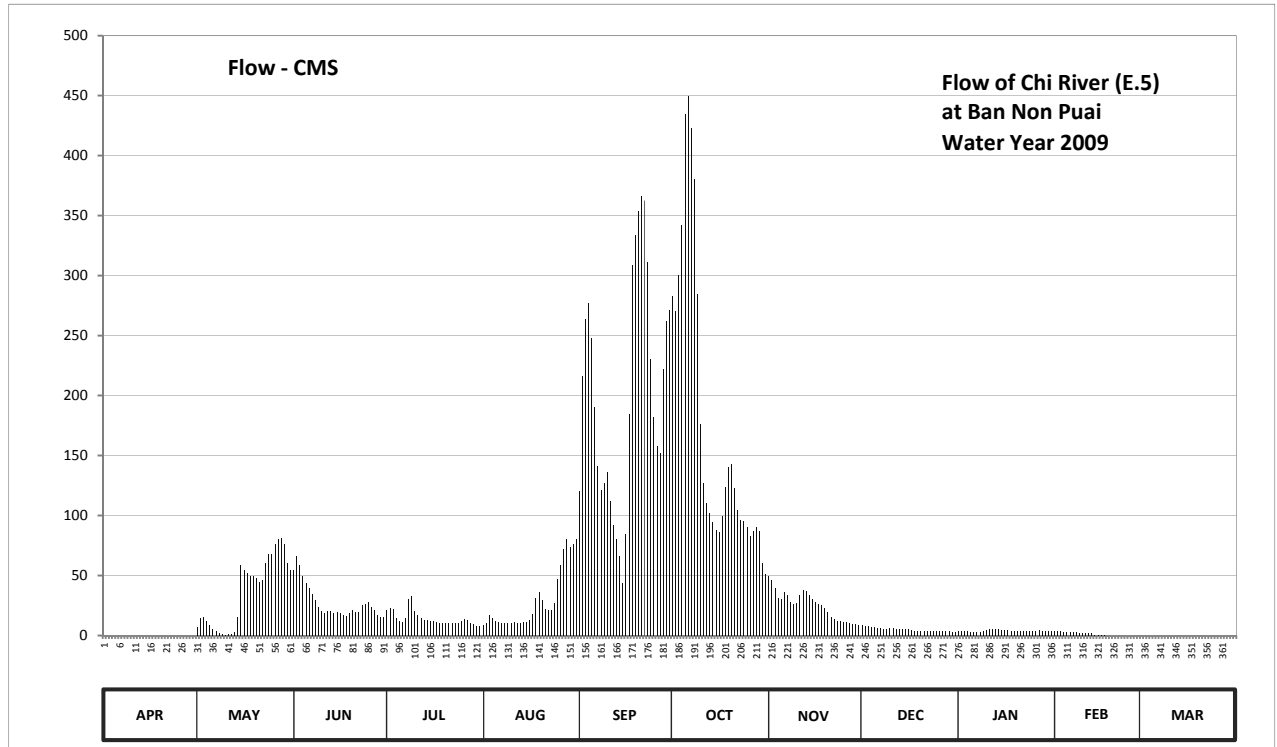
Lat 15 - 46 - 08 N Long 101 - 49 - 01 E

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

	Ban Non Puaï	Amphoe Ban Khwao	Changwat Chaiyaphum
Drainage Area	4,207 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+186.070 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of the station office.	Elevation	+199.956 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1958 to date		
Rating Operation			
Period of Rating	1967 - 1971 , 1973, 1979, 1982 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1971 , 1973, 1979, 1982 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +197.260 m.(MSL.), records are channel flow only.		
General Description	Records good. The local weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.14	190.47	191.06	190.76	190.52	192.41	195.72	191.02	190.52	190.37	190.38	190.06	
2	190.14	190.67	191.13	190.78	190.57	194.48	195.51	190.99	190.50	190.37	190.38	190.05	
3	190.14	190.69	191.09	190.77	190.71	195.39	196.01	190.93	190.50	190.37	190.37	190.05	
4	190.14	190.61	191.02	190.67	190.66	195.62	196.62	190.86	190.48	190.37	190.36	190.05	
5	190.14	190.52	190.97	190.61	190.61	195.11	197.26	190.85	190.47	190.36	190.34	190.04	
6	190.14	190.43	190.93	190.59	190.59	193.96	197.33	190.90	190.46	190.36	190.33	190.02	
7	190.14	190.37	190.89	190.66	190.56	192.93	197.20	190.88	190.45	190.35	190.33	190.00	
8	190.14	190.32	190.84	190.85	190.55	192.44	196.95	190.83	190.44	190.35	190.33	189.97	
9	190.14	190.27	190.79	190.87	190.55	192.58	195.74	190.81	190.43	190.38	190.31	189.95	
10	190.14	190.24	190.75	190.75	190.56	192.80	193.69	190.82	190.46	190.42	190.31	189.92	
11	190.14	190.25	190.73	190.71	190.59	192.21	192.57	190.88	190.45	190.43	190.31	189.90	
12	190.14	190.28	190.75	190.66	190.56	191.59	192.15	190.92	190.44	190.43	190.30	189.88	
13	190.14	190.35	190.75	190.62	190.55	191.22	191.93	190.91	190.43	190.44	190.30	189.86	
14	190.14	190.68	190.73	190.63	190.58	191.13	191.68	190.88	190.44	190.43	190.24	189.84	
15	190.14	191.09	190.74	190.61	190.59	190.97	191.47	190.85	190.43	190.42	190.22	189.81	
16	190.14	191.06	190.73	190.60	190.63	191.36	191.40	190.83	190.43	190.41	190.21	189.79	
17	190.14	191.04	190.71	190.59	190.72	193.85	191.85	190.81	190.41	190.41	190.21	189.78	
18	190.14	191.02	190.70	190.57	190.86	196.14	192.49	190.80	190.40	190.40	190.19	189.78	
19	190.14	191.02	190.73	190.55	190.90	196.54	192.90	190.78	190.40	190.39	190.16	189.78	
20	190.14	191.01	190.76	190.55	190.84	196.74	192.96	190.74	190.39	190.38	190.13	189.78	
21	190.14	190.98	190.74	190.56	190.77	196.85	192.47	190.69	190.38	190.38	190.12	189.78	
22	190.14	190.99	190.74	190.55	190.76	196.82	192.01	190.65	190.37	190.38	190.15	189.77	
23	190.14	191.10	190.80	190.55	190.76	196.18	191.74	190.61	190.37	190.38	190.15	189.77	
24	190.14	191.14	190.81	190.57	190.82	194.77	191.71	190.60	190.39	190.38	190.14	189.77	
25	190.14	191.14	190.83	190.60	191.00	193.80	191.55	190.59	190.38	190.38	190.12	189.79	
26	190.14	191.18	190.79	190.64	191.09	193.31	191.30	190.58	190.38	190.40	190.10	189.79	
27	190.14	191.22	190.76	190.62	191.16	193.19	191.44	190.56	190.37	190.41	190.08	189.78	
28	190.14	191.25	190.71	190.56	191.21	194.60	191.56	190.54	190.37	190.38	190.06	189.77	
29	190.14	191.18	190.68	190.54	191.17	195.36	191.45	190.53	190.37	190.37		189.75	
30	190.20	191.10	190.69	190.50	191.18	195.52	191.10	190.52	190.36	190.38		189.74	
31		191.06		190.50	191.20		191.03		190.36	190.38		189.72	
Mean	190.14	190.80	190.81	190.63	190.77	194.00	193.25	190.77	190.42	190.39	190.24	189.86	
Max	190.20	191.25	191.13	190.87	191.21	196.85	197.33	191.02	190.52	190.44	190.38	190.06	197.33
Min	190.14	190.24	190.68	190.50	190.52	190.97	191.03	190.52	190.36	190.35	190.06	189.72	189.72
Annual Max Momentary Gage Height		197.35	m. (MSL.) ,				at 19.00 Hours, on Oct 5, 2009						
Zero Gage at Bottom Elevation		186.07	m. (MSL.) ,			River Bed	186.11	m. (MSL)					
Left Bank Elevation			197.26	m. (MSL.) ,									
Right Bank Elevation		197.98	m. (MSL.) ,			Drainage Area	4207	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	6.80	54.80	21.40	8.80	120.40	283.20	49.60	8.80	3.40	3.60	0.00	
2	0.00	14.80	66.00	23.20	10.80	216.00	270.60	45.90	8.00	3.40	3.60	0.00	
3	0.00	15.60	58.70	22.30	16.90	263.40	300.60	39.30	8.00	3.40	3.40	0.00	
4	0.00	12.40	49.60	14.80	14.40	277.20	342.00	31.60	7.20	3.40	3.20	0.00	
5	0.00	8.80	43.70	12.40	12.40	247.50	435.00	30.50	6.80	3.20	2.80	0.00	
6	0.00	5.20	39.30	11.60	11.60	190.00	449.60	36.00	6.40	3.20	2.60	0.00	
7	0.00	3.40	34.90	14.40	10.40	141.20	423.00	33.80	6.00	3.00	2.60	0.00	
8	0.00	2.40	29.40	30.50	10.00	121.60	380.50	28.30	5.60	3.00	2.60	0.00	
9	0.00	1.40	24.10	32.70	10.00	127.20	284.40	26.10	5.20	3.60	2.20	0.00	
10	0.00	0.80	20.50	20.50	10.40	136.00	176.50	27.20	6.40	4.80	2.20	0.00	
11	0.00	1.00	18.70	16.90	11.60	112.40	126.80	33.80	6.00	5.20	2.20	0.00	
12	0.00	1.60	20.50	14.40	10.40	91.70	110.00	38.20	5.60	5.20	2.00	0.00	
13	0.00	3.00	20.50	12.80	10.00	80.60	101.90	37.10	5.20	5.60	2.00	0.00	
14	0.00	15.20	18.70	13.20	11.20	66.00	94.40	33.80	5.60	5.20	0.80	0.00	
15	0.00	58.70	19.60	12.40	11.60	43.70	88.10	30.50	5.20	4.80	0.40	0.00	
16	0.00	54.80	18.70	12.00	13.20	84.80	86.00	28.30	5.20	4.40	0.20	0.00	
17	0.00	52.20	16.90	11.60	17.80	184.50	99.50	26.10	4.40	4.40	0.20	0.00	
18	0.00	49.60	16.00	10.80	31.60	308.40	123.60	25.00	4.00	4.00	0.00	0.00	
19	0.00	49.60	18.70	10.00	36.00	334.00	140.00	23.20	4.00	3.80	0.00	0.00	
20	0.00	48.30	21.40	10.00	29.40	354.00	142.40	19.60	3.80	3.60	0.00	0.00	
21	0.00	44.80	19.60	10.40	22.30	366.50	122.80	15.60	3.60	3.60	0.00	0.00	
22	0.00	45.90	19.60	10.00	21.40	362.60	104.40	14.00	3.40	3.60	0.00	0.00	
23	0.00	60.00	25.00	10.00	21.40	310.80	96.20	12.40	3.40	3.60	0.00	0.00	
24	0.00	68.00	26.10	10.80	27.20	230.50	95.30	12.00	3.80	3.60	0.00	0.00	
25	0.00	68.00	28.30	12.00	47.00	182.00	90.50	11.60	3.60	3.60	0.00	0.00	
26	0.00	76.00	24.10	13.60	58.70	157.50	83.00	11.20	3.60	4.00	0.00	0.00	
27	0.00	80.60	21.40	12.80	72.00	151.60	87.20	10.40	3.40	4.40	0.00	0.00	
28	0.00	81.50	16.90	10.40	80.30	222.00	90.80	9.60	3.40	3.60	0.00	0.00	
29	0.00	76.00	15.20	9.60	74.00	261.60	87.50	9.20	3.40	3.40	0.00	0.00	
30	0.00	60.00	15.60	8.00	76.00	271.20	60.00	8.80	3.20	3.60	0.00	0.00	
31	0.00	54.80	8.00	80.00	80.00	50.90	50.90	3.20	3.60	0.00	0.00	0.00	
Total	0.00	1121.20	822.50	443.50	878.80	6016.90	5426.70	758.70	155.40	121.20	36.60	0.00	15781.50 CMSDAY
Mean	0.00	36.17	27.42	14.31	28.35	200.56	175.05	25.29	5.01	3.91	1.31	0.00	43.24 CMS
Max	0.00	81.50	66.00	32.70	80.30	366.50	449.60	49.60	8.80	5.60	3.60	0.00	449.60 CMS
Min	0.00	0.80	15.20	8.00	8.80	43.70	50.90	8.80	3.20	3.00	0.00	0.00	0.00 CMS
Runoff	0.00	96.87	71.06	38.32	75.93	519.86	468.87	65.55	13.43	10.47	3.16	0.00	1363.52 MCM
Momentary Peak		454.00 CMS, at 197.35 m. (MSL), at 19.00 Hours, on Oct 5, 2009											
Runoff Yield		10.28 Liters/Second/Square KM.				Momentary Peak Yield	107.915 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

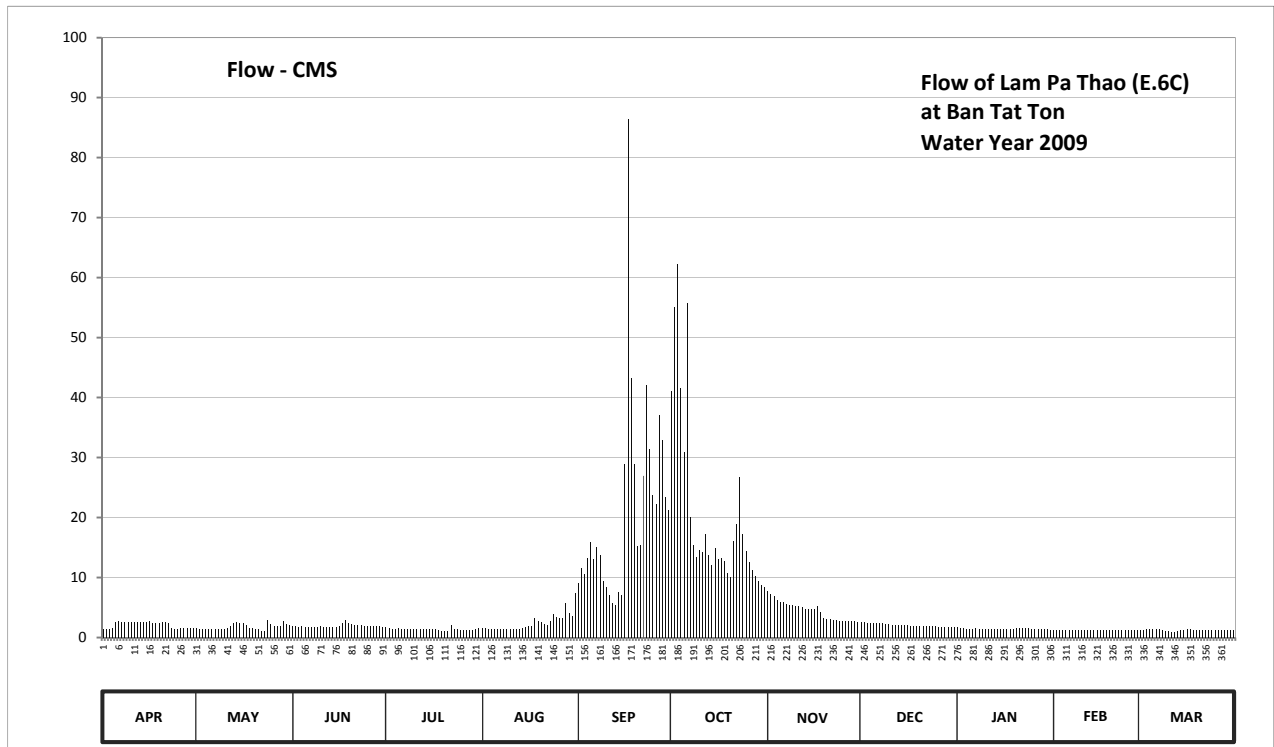
Lat 15 - 57 - 43 N Long 102 - 02 - 00 E

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

	Ban	Tat Ton	Amphoe	Mueang	Changwat	Chaiyaphum
Drainage Area	378	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+192.700 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	About 2 meters from the sling pole.				Elevation	+199.546 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1973 to date					
Rated by Flot	-					
Rated by Current Meter	1973 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +197.380 m.(MSL.), records are channel flow only.					
General Description	Records good. Lam Pa Thao Dam situated about 2 kilometers upstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.91	192.94	193.02	192.96	192.93	194.56	197.28	194.38	193.25	192.96	192.88	192.88	
2	192.90	192.92	193.00	192.93	192.93	194.88	197.78	194.31	193.22	192.94	192.87	192.88	
3	192.92	192.90	192.98	192.92	192.92	194.76	197.99	194.25	193.20	192.93	192.87	192.89	
4	192.95	192.90	192.99	192.92	192.92	195.10	197.30	194.14	193.18	192.92	192.87	192.89	
5	193.25	192.91	192.98	192.95	192.90	195.42	196.75	194.08	193.16	192.92	192.87	192.89	
6	193.29	192.90	192.97	192.92	192.89	195.07	197.80	194.08	193.16	192.92	192.87	192.89	
7	193.25	192.90	192.97	192.91	192.89	195.32	195.91	194.03	193.16	192.93	192.87	192.89	
8	193.24	192.90	192.98	192.91	192.90	195.15	195.36	193.99	193.16	192.92	192.87	192.87	
9	193.24	192.91	192.98	192.91	192.90	194.61	195.11	193.97	193.15	192.92	192.87	192.83	
10	193.24	192.91	192.99	192.91	192.90	194.47	195.26	193.94	193.15	192.92	192.87	192.82	
11	193.25	192.94	192.97	192.90	192.90	194.28	195.21	193.94	193.08	192.92	192.87	192.81	
12	193.27	192.99	192.96	192.90	192.89	194.05	195.60	193.91	193.07	192.92	192.87	192.81	
13	193.26	193.16	192.98	192.90	192.90	193.99	195.16	193.85	193.05	192.92	192.87	192.82	
14	193.26	193.26	192.98	192.91	192.93	194.36	194.94	193.83	193.05	192.92	192.87	192.86	
15	193.26	193.20	192.98	192.90	192.97	194.28	195.30	193.83	193.05	192.92	192.87	192.88	
16	193.28	193.17	193.00	192.90	192.99	196.63	195.08	193.86	193.04	192.92	192.87	192.89	
17	193.21	193.05	193.20	192.90	193.02	198.55	195.10	193.95	193.03	192.92	192.87	192.89	
18	193.21	192.95	193.39	192.88	193.52	197.37	195.04	193.74	193.03	192.92	192.87	192.88	
19	193.21	192.93	193.16	192.84	193.34	196.64	194.79	193.52	193.02	192.92	192.87	192.88	
20	193.23	192.91	193.13	192.82	193.23	195.34	194.70	193.46	193.02	192.93	192.87	192.88	
21	193.22	192.90	193.09	192.84	193.14	195.37	195.45	193.42	193.01	192.93	192.87	192.88	
22	193.17	192.85	193.06	193.05	193.09	196.51	195.79	193.37	193.01	192.93	192.87	192.88	
23	192.93	192.82	193.04	192.92	193.28	197.32	196.49	193.36	193.01	192.93	192.87	192.88	
24	192.90	193.36	193.03	192.91	193.69	196.78	195.60	193.35	193.00	192.93	192.87	192.88	
25	192.91	193.10	193.00	192.88	193.56	196.27	195.24	193.33	192.99	192.92	192.87	192.88	
26	192.94	193.01	193.00	192.88	193.50	196.13	195.00	193.31	192.96	192.92	192.87	192.87	
27	192.94	193.00	193.00	192.88	193.53	197.09	194.85	193.30	192.96	192.92	192.87	192.87	
28	192.94	192.99	192.99	192.88	194.05	196.87	194.72	193.29	192.96	192.91	192.87	192.87	
29	192.95	193.31	192.99	192.88	193.73	196.24	194.61	193.28	192.96	192.91		192.87	
30	192.94	193.10	192.98	192.90	193.61	196.03	194.52	193.26	192.96	192.91		192.88	
31		193.04		192.95	194.34		194.47		192.96	192.88		192.88	
Mean	193.12	193.00	193.03	192.91	193.20	195.65	195.62	193.74	193.06	192.92	192.87	192.87	
Max	193.29	193.36	193.39	193.05	194.34	198.55	197.99	194.38	193.25	192.96	192.88	192.89	198.55
Min	192.90	192.82	192.96	192.82	192.89	193.99	194.47	193.26	192.96	192.88	192.87	192.81	192.81
Annual Max Momentary Gage Height	198.78		m. (MSL.) ,				at 07.00 Hours, on Sep 17, 2009						
Zero Gage at Bottom Elevation	192.70		m. (MSL.) ,			River Bed	190.75	m. (MSL)					
Left Bank Elevation		197.46		m. (MSL.) ,									
Right Bank Elevation		197.38		m. (MSL.) ,		Drainage Area	378	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.45	1.60	1.95	1.70	1.55	9.02	41.06	7.76	2.57	1.70	1.30	1.30	
2	1.40	1.50	1.90	1.55	1.55	11.54	55.06	7.27	2.49	1.60	1.25	1.30	
3	1.50	1.40	1.80	1.50	1.50	10.58	62.15	6.85	2.43	1.55	1.25	1.35	
4	1.65	1.40	1.85	1.50	1.50	13.30	41.50	6.20	2.38	1.50	1.25	1.35	
5	2.57	1.45	1.80	1.65	1.40	15.86	30.85	5.90	2.33	1.50	1.25	1.35	
6	2.67	1.40	1.75	1.50	1.35	13.06	55.70	5.90	2.33	1.50	1.25	1.35	
7	2.57	1.40	1.75	1.45	1.35	15.06	20.10	5.65	2.33	1.55	1.25	1.35	
8	2.54	1.40	1.80	1.45	1.40	13.70	15.38	5.45	2.33	1.50	1.25	1.25	
9	2.54	1.45	1.80	1.45	1.40	9.38	13.38	5.35	2.30	1.50	1.25	1.05	
10	2.54	1.45	1.85	1.45	1.40	8.39	14.58	5.20	2.30	1.50	1.25	1.00	
11	2.57	1.60	1.75	1.40	1.40	7.06	14.18	5.20	2.11	1.50	1.25	0.95	
12	2.62	1.85	1.70	1.40	1.35	5.75	17.30	5.05	2.09	1.50	1.25	0.95	
13	2.59	2.33	1.80	1.40	1.40	5.45	13.78	4.75	2.03	1.50	1.25	1.00	
14	2.59	2.59	1.80	1.45	1.55	7.62	12.02	4.65	2.03	1.50	1.25	1.20	
15	2.59	2.43	1.80	1.40	1.75	7.06	14.90	4.65	2.03	1.50	1.25	1.30	
16	2.65	2.35	1.90	1.40	1.85	28.81	13.14	4.80	2.01	1.50	1.25	1.35	
17	2.46	2.03	2.43	1.40	1.95	86.50	13.30	5.25	1.98	1.50	1.25	1.35	
18	2.46	1.65	2.94	1.30	3.29	43.18	12.82	4.20	1.98	1.50	1.25	1.30	
19	2.46	1.55	2.33	1.10	2.81	28.98	10.82	3.29	1.95	1.50	1.25	1.30	
20	2.51	1.45	2.25	1.00	2.51	15.22	10.10	3.13	1.95	1.55	1.25	1.30	
21	2.49	1.40	2.14	1.10	2.27	15.46	16.10	3.02	1.93	1.55	1.25	1.30	
22	2.35	1.15	2.06	2.03	2.14	26.95	18.91	2.89	1.93	1.55	1.25	1.30	
23	1.55	1.00	2.01	1.50	2.65	41.98	26.65	2.86	1.93	1.55	1.25	1.30	
24	1.40	2.86	1.98	1.45	3.95	31.36	17.30	2.83	1.90	1.55	1.25	1.30	
25	1.45	2.17	1.90	1.30	3.39	23.70	14.42	2.78	1.85	1.50	1.25	1.30	
26	1.60	1.93	1.90	1.30	3.23	22.30	12.50	2.73	1.70	1.50	1.25	1.25	
27	1.60	1.90	1.90	1.30	3.31	37.10	11.30	2.70	1.70	1.50	1.25	1.25	
28	1.60	1.85	1.85	1.30	5.75	32.96	10.26	2.67	1.70	1.45	1.25	1.25	
29	1.65	2.73	1.85	1.30	4.15	23.40	9.38	2.65	1.70	1.45		1.25	
30	1.60	2.17	1.80	1.40	3.55	21.30	8.74	2.59	1.70	1.45		1.30	
31		2.01		1.65	7.48		8.39		1.70	1.30		1.30	
Total	64.22	55.45	58.34	44.08	76.13	632.03	636.07	134.22	63.69	46.80	35.05	38.75	1884.83 CMSDAY
Mean	2.14	1.79	1.94	1.42	2.46	21.07	20.52	4.47	2.05	1.51	1.25	1.25	5.16 CMS
Max	2.67	2.86	2.94	2.03	7.48	86.50	62.15	7.76	2.57	1.70	1.30	1.35	86.50 CMS
Min	1.40	1.00	1.70	1.00	1.35	5.45	8.39	2.59	1.70	1.30	1.25	0.95	0.95 CMS
Runoff	5.55	4.79	5.04	3.81	6.58	54.61	54.96	11.60	5.50	4.04	3.03	3.35	162.85 MCM
Momentary Peak	102.55 CMS, at 198.78 m. (MSL), at 07.00 Hours, on Sep 17, 2009												
Runoff Yield	13.66 Liters/Second/Square KM.			Momentary Peak Yield			271.296 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Chi River at Ban Chot , Khon Kaen (E.9)

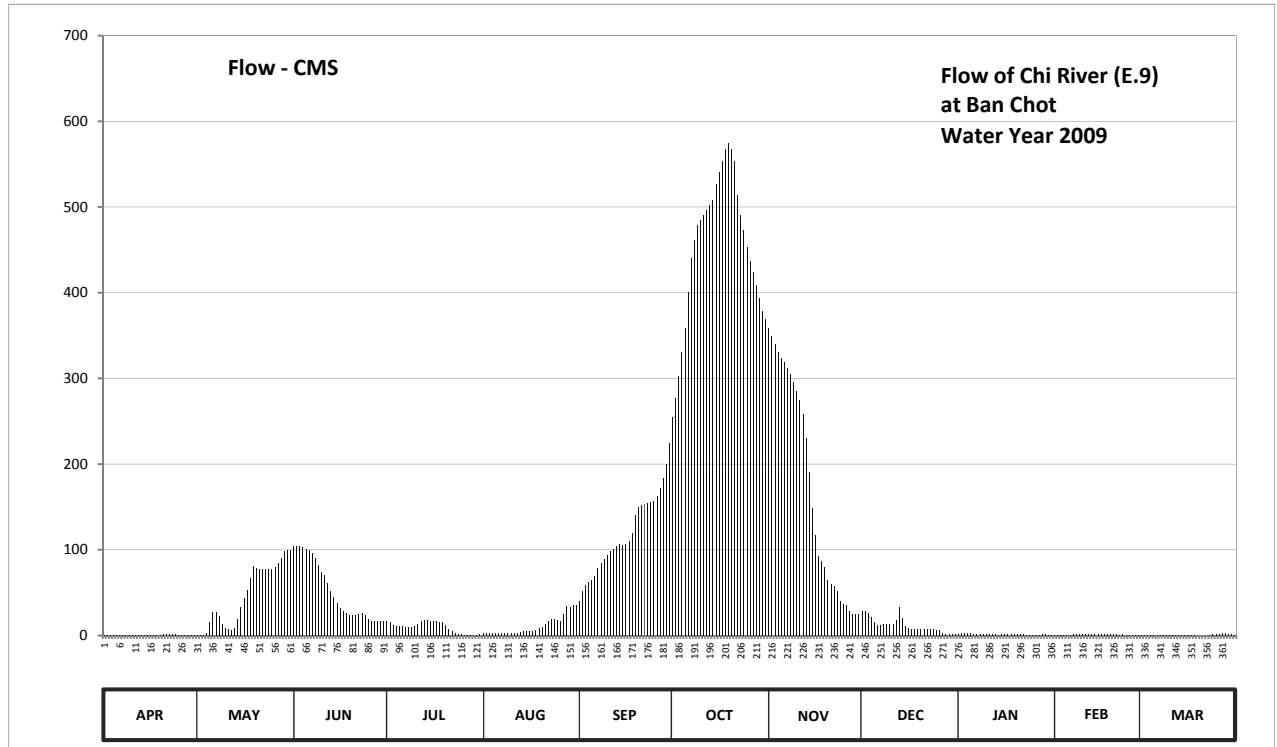
Lat 16 - 05 - 44 N Long 102 - 34 - 25 E

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

	Ban Chot	Amphoe Manchakhiri	Changwat Khon Kaen
Drainage Area	10,878 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+151.113 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank about 25 meters from the top staff gage.	Elevation	+167.014 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1958 to date		
Rating Operation			
Period of Rating	1967 - 1973, 1986 - 1987, 1992 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1980, 1983 - 1987, 1992 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The barrage situated above gage site. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.51	152.52	158.70	154.28	152.79	155.79	161.16	161.73	155.09	152.68	152.51	152.49	
2	152.53	152.53	158.71	154.15	152.82	156.47	161.31	161.70	155.11	152.81	152.49	152.44	
3	152.47	152.53	158.69	153.82	152.84	156.79	161.47	161.66	154.98	152.93	152.47	152.35	
4	152.44	152.88	158.66	153.76	152.84	156.99	161.62	161.62	154.65	152.92	152.46	152.43	
5	152.42	154.20	158.59	153.76	152.83	157.10	161.73	161.59	154.15	152.77	152.49	152.49	
6	152.38	155.02	158.55	153.74	152.83	157.28	161.85	161.56	153.88	152.68	152.53	152.50	
7	152.37	155.06	158.41	153.67	152.82	157.68	161.95	161.52	153.83	152.68	152.55	152.50	
8	152.37	154.67	158.19	153.61	152.84	157.93	162.00	161.48	153.96	152.68	152.56	152.50	
9	152.39	153.96	157.82	153.61	152.87	158.13	162.03	161.43	153.99	152.68	152.58	152.50	
10	152.43	153.55	157.48	153.79	152.86	158.31	162.04	161.37	153.98	152.68	152.59	152.50	
11	152.48	153.35	157.32	154.00	152.87	158.49	162.05	161.30	153.97	152.68	152.57	152.47	
12	152.49	153.31	156.94	154.28	152.97	158.57	162.06	161.19	154.37	152.68	152.58	152.43	
13	152.49	153.49	156.47	154.32	153.07	158.73	162.07	160.96	155.38	152.61	152.57	152.44	
14	152.47	154.41	156.06	154.31	153.12	158.79	162.08	160.57	154.51	152.46	152.57	152.44	
15	152.46	155.43	155.64	154.29	153.11	158.76	162.11	159.96	153.73	152.56	152.56	152.46	
16	152.44	156.04	155.30	154.27	153.11	158.79	162.13	159.19	153.48	152.68	152.56	152.45	
17	152.43	156.48	155.11	154.26	153.12	158.92	162.15	158.24	153.41	152.68	152.56	152.45	
18	152.44	157.18	154.99	154.21	153.30	159.24	162.17	158.04	153.38	152.68	152.56	152.40	
19	152.49	157.79	154.77	154.13	153.46	159.80	162.18	157.72	153.37	152.63	152.56	152.30	
20	152.56	157.71	154.76	153.90	153.62	159.97	162.17	157.10	153.36	152.54	152.62	152.28	
21	152.59	157.64	154.81	153.40	153.94	160.03	162.15	156.84	153.35	152.55	152.59	152.20	
22	152.62	157.67	154.93	153.16	154.22	160.05	162.09	156.72	153.35	152.54	152.53	152.27	
23	152.59	157.67	154.98	152.91	154.44	160.06	162.05	156.45	153.35	152.50	152.54	152.44	
24	152.54	157.65	154.82	152.75	154.44	160.09	162.02	155.83	153.35	152.48	152.49	152.56	
25	152.50	157.66	154.45	152.64	154.37	160.11	161.98	155.63	153.34	152.46	152.44	152.60	
26	152.49	157.72	154.29	152.53	154.27	160.20	161.94	155.50	153.25	152.48	152.44	152.64	
27	152.45	157.94	154.29	152.47	154.89	160.33	161.91	155.09	152.88	152.51	152.32	152.76	
28	152.46	158.19	154.29	152.44	155.44	160.48	161.87	154.92	152.69	152.54	152.37	152.80	
29	152.50	158.46	154.29	152.42	155.36	160.68	161.83	154.85	152.65	152.54		152.74	
30	152.52	158.51	154.29	152.38	155.51	160.91	161.79	154.91	152.68	152.53		152.57	
31		158.52		152.57	155.54		161.76		152.68	152.52		152.47	
Mean	152.48	155.80	156.22	153.54	153.63	158.85	161.93	158.89	153.75	152.62	152.52	152.48	
Max	152.62	158.52	158.71	154.32	155.54	160.91	162.18	161.73	155.38	152.93	152.62	152.80	162.18
Min	152.37	152.52	154.29	152.38	152.79	155.79	161.16	154.85	152.65	152.46	152.32	152.20	152.20
Annual Max Momentary Gage Height	162.18		m. (MSL.) ,				at 01.00 Hours, on Oct 19, 2009						
Zero Gage at Bottom Elevation	151.11		m. (MSL.) ,			River Bed	150.06	m. (MSL)					
Left Bank Elevation	164.23		m. (MSL.) ,										
Right Bank Elevation	162.61		m. (MSL.) ,			Drainage Area	10878	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	1.10	104.20	17.14	2.45	39.93	254.40	358.90	28.03	1.90	1.05	0.95	
2	1.15	1.15	104.46	15.45	2.60	52.43	276.50	349.00	28.37	2.55	0.95	0.70	
3	0.85	1.15	103.94	11.70	2.70	58.80	302.60	339.80	26.24	3.15	0.85	0.25	
4	0.70	2.90	103.16	11.10	2.70	62.80	330.60	330.60	21.95	3.10	0.80	0.65	
5	0.60	16.10	101.34	11.10	2.65	65.20	358.90	324.20	15.45	2.35	0.95	0.95	
6	0.40	26.84	100.30	10.90	2.65	69.16	401.00	318.80	12.30	1.90	1.15	1.00	
7	0.35	27.52	96.66	10.20	2.60	78.32	440.50	311.60	11.80	1.90	1.25	1.00	
8	0.35	22.21	90.94	9.60	2.70	84.32	461.00	304.40	13.10	1.90	1.30	1.00	
9	0.45	13.10	81.68	9.60	2.85	89.38	478.70	295.40	13.40	1.90	1.40	1.00	
10	0.65	9.00	73.56	11.40	2.80	94.06	484.59	285.50	13.30	1.90	1.45	1.00	
11	0.90	7.00	70.04	13.50	2.85	98.74	490.50	275.00	13.20	1.90	1.35	0.85	
12	0.95	6.60	61.80	17.14	3.35	100.82	496.40	258.60	18.31	1.90	1.40	0.65	
13	0.95	8.40	52.43	17.66	4.20	104.98	502.30	229.60	32.96	1.55	1.35	0.70	
14	0.85	18.83	44.64	17.53	4.70	106.54	508.20	190.60	20.13	0.80	1.35	0.70	
15	0.80	33.81	37.38	17.27	4.60	105.76	526.80	149.00	10.80	1.30	1.30	0.80	
16	0.70	44.26	31.60	17.01	4.60	106.54	540.40	117.70	8.30	1.90	1.30	0.75	
17	0.65	52.62	28.37	16.88	4.70	109.92	553.99	92.24	7.60	1.90	1.30	0.75	
18	0.70	66.96	26.37	16.23	6.50	119.20	567.60	87.04	7.30	1.90	1.30	0.50	
19	0.95	80.96	23.51	15.19	8.10	141.00	574.40	79.28	7.20	1.65	1.30	0.00	
20	1.30	79.04	23.38	12.50	9.70	149.50	567.60	65.20	7.10	1.20	1.60	0.00	
21	1.45	77.36	24.03	7.50	12.90	152.50	553.99	59.80	7.00	1.25	1.45	0.00	
22	1.60	78.08	25.59	5.10	16.36	153.50	514.09	57.40	7.00	1.20	1.15	0.00	
23	1.45	78.08	26.24	3.05	19.22	154.00	490.50	52.05	7.00	1.00	1.20	0.70	
24	1.20	77.60	24.16	2.25	19.22	155.50	472.80	40.61	7.00	0.90	0.95	1.30	
25	1.00	77.84	19.35	1.70	18.31	156.70	452.80	37.21	6.90	0.80	0.70	1.50	
26	0.95	79.28	17.27	1.15	17.01	163.00	436.40	35.00	6.00	0.90	0.70	1.70	
27	0.75	84.56	17.27	0.85	25.07	172.10	424.10	28.03	2.90	1.05	0.10	2.30	
28	0.80	90.94	17.27	0.70	33.98	183.40	408.60	25.46	1.95	1.20	0.35	2.50	
29	1.00	97.96	17.27	0.60	32.62	200.20	393.40	24.55	1.75	1.20		2.20	
30	1.10	99.26	17.27	0.40	35.17	224.10	378.70	25.33	1.90	1.15		1.35	
31		99.52		1.35	35.68		368.80		1.90	1.10		0.85	
Total	26.60	1460.03	1565.48	303.75	345.54	3552.40	14011.16	5147.90	368.14	50.30	31.30	28.60	26891.20 CMSDAY
Mean	0.89	47.10	52.18	9.80	11.15	118.41	451.97	171.60	11.88	1.62	1.12	0.92	73.67 CMS
Max	1.60	99.52	104.46	17.66	35.68	224.10	574.40	358.90	32.96	3.15	1.60	2.50	574.40 CMS
Min	0.35	1.10	17.27	0.40	2.45	39.93	254.40	24.55	1.75	0.80	0.10	0.00	0.00 CMS
Runoff	2.30	126.15	135.26	26.24	29.86	306.93	1210.56	444.78	31.81	4.35	2.70	2.47	2323.40 MCM
Momentary Peak	574.40 CMS, at 162.18 m. (MSL), at 01.00 Hours, on Oct 19, 2009												
Runoff Yield	6.77 Liters/Second/Square KM.			Momentary Peak Yield			52.804 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

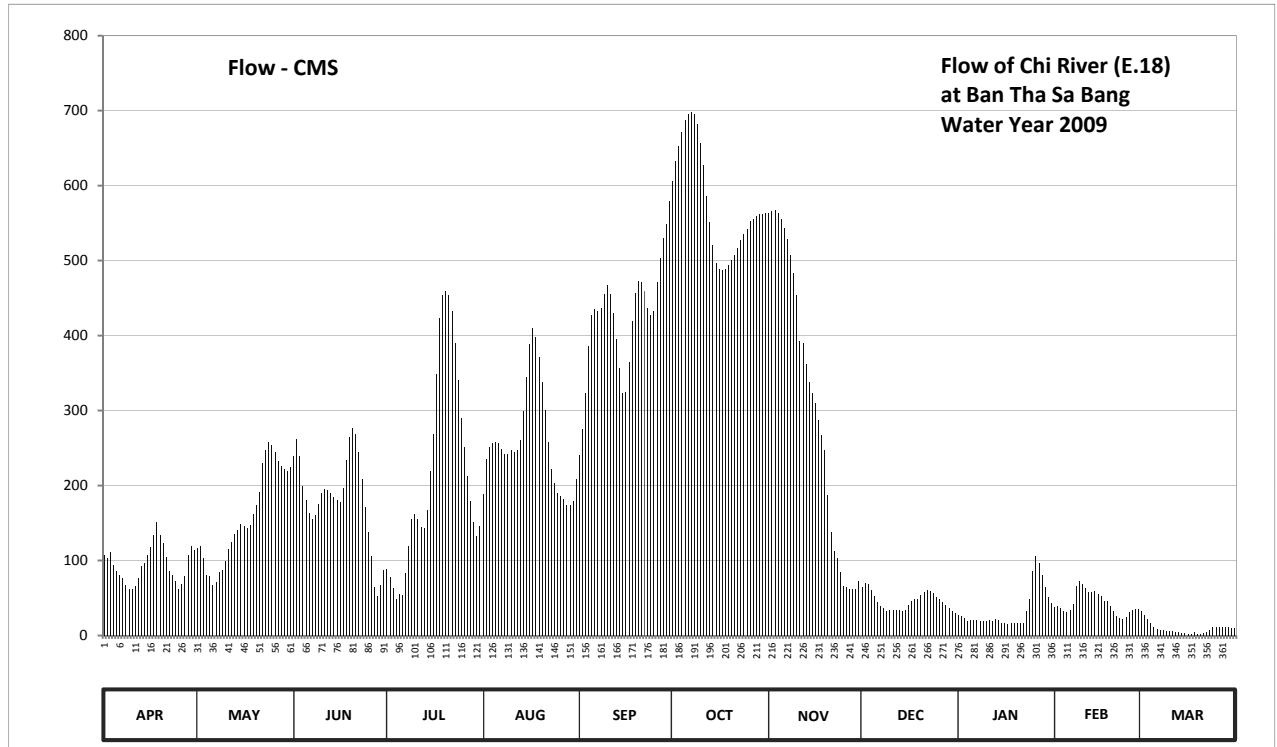
Lat 16 - 01 - 59 N Long 103 - 54 - 41 E

Location : on right bank at Ban Tha Sa Bang.

	Ban	Tha Sa Bang	Amphoe	Thung Khao Luang	Changwat	Roi Et
Drainage Area	41,187	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+122.240 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+132.496 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1974 to date					
Rated by Flot	-					
Rated by Current Meter	1974 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 117 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.97	125.09	126.44	124.74	125.90	126.45	129.65	129.36	124.43	123.82	124.05	123.93	
2	124.92	125.13	126.68	124.61	126.40	126.82	129.82	129.38	124.49	123.78	124.07	123.82	
3	125.02	124.92	126.44	124.41	126.57	127.32	129.95	129.39	124.48	123.72	124.02	123.69	
4	124.80	124.63	126.01	124.20	126.62	127.94	130.06	129.36	124.37	123.65	123.95	123.57	
5	124.70	124.62	125.81	124.29	126.64	128.29	130.15	129.30	124.25	123.66	123.91	123.46	
6	124.63	124.47	125.63	124.28	126.62	128.36	130.19	129.22	124.14	123.68	123.97	123.35	
7	124.59	124.52	125.54	124.67	126.54	128.34	130.21	129.11	124.07	123.66	124.10	123.30	
8	124.47	124.68	125.60	125.12	126.46	128.37	130.19	128.96	124.02	123.65	124.44	123.29	
9	124.39	124.72	125.76	125.55	126.47	128.53	130.12	128.76	123.95	123.63	124.54	123.25	
10	124.39	124.88	125.91	125.62	126.52	128.63	129.98	128.51	123.99	123.63	124.48	123.22	
11	124.44	125.08	125.97	125.55	126.50	128.53	129.79	128.01	123.99	123.67	124.41	123.20	
12	124.58	125.19	125.95	125.43	126.53	128.31	129.52	127.98	123.98	123.65	124.33	123.18	
13	124.79	125.32	125.92	125.41	126.67	128.03	129.27	127.72	123.97	123.69	124.32	123.15	
14	124.85	125.38	125.86	125.68	127.07	127.67	129.05	127.47	123.93	123.68	124.34	123.13	
15	124.97	125.47	125.82	126.22	127.55	127.33	128.87	127.32	123.98	123.58	124.29	123.11	
16	125.11	125.44	125.79	126.75	127.97	127.34	128.81	127.18	124.08	123.59	124.25	123.09	
17	125.29	125.41	125.98	127.59	128.15	127.74	128.79	126.95	124.16	123.56	124.16	123.09	
18	125.51	125.46	126.38	128.26	128.05	128.23	128.81	126.73	124.19	123.58	124.15	123.16	
19	125.29	125.62	126.71	128.51	127.81	128.54	128.85	126.52	124.20	123.58	124.06	123.10	
20	125.17	125.74	126.84	128.56	127.48	128.67	128.90	125.88	124.27	123.59	123.95	123.08	
21	124.95	125.93	126.75	128.51	127.09	128.66	128.96	125.35	124.33	123.57	123.79	123.12	
22	124.71	126.34	126.50	128.34	126.64	128.56	129.03	125.04	124.36	123.59	123.73	123.19	
23	124.64	126.52	126.11	127.98	126.25	128.37	129.10	124.92	124.34	123.95	123.69	123.30	
24	124.53	126.63	125.71	127.50	126.06	128.29	129.16	124.69	124.30	124.20	123.75	123.45	
25	124.38	126.60	125.35	126.98	125.92	128.34	129.21	124.45	124.24	124.70	123.92	123.44	
26	124.48	126.50	124.96	126.56	125.87	128.66	129.28	124.42	124.20	124.96	123.97	123.43	
27	124.62	126.37	124.42	126.16	125.83	128.92	129.30	124.39	124.13	124.85	124.00	123.44	
28	124.98	126.29	124.25	125.80	125.75	129.12	129.33	124.38	124.08	124.63	124.01	123.42	
29	125.13	126.25	124.47	125.50	125.74	129.26	129.35	124.39	124.02	124.42		123.41	
30	125.06	126.23	124.73	125.28	125.80	129.47	129.35	124.54	123.95	124.23		123.38	
31		126.28		125.44	126.11		129.36		123.88	124.11		123.40	
Mean	124.81	125.54	125.81	126.11	126.63	128.24	129.43	126.99	124.15	123.88	124.09	123.33	
Max	125.51	126.63	126.84	128.56	128.15	129.47	130.21	129.39	124.49	124.96	124.54	123.93	130.21
Min	124.38	124.47	124.25	124.20	125.74	126.45	128.79	124.38	123.88	123.56	123.69	123.08	123.08
Annual Max Momentary Gage Height	130.21		m. (MSL.) ,				at 03.00 Hours, on Oct 7, 2009						
Zero Gage at Bottom Elevation	122.24		m. (MSL.) ,			River Bed	120.09	m. (MSL)					
Left Bank Elevation	133.31		m. (MSL.) ,										
Right Bank Elevation	132.65		m. (MSL.) ,			Drainage Area	41187	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	106.66	116.56	239.36	88.72	188.60	240.30	606.10	563.40	65.10	27.08	38.50	31.92		
2	102.76	119.92	261.92	78.58	235.60	275.08	632.28	566.20	69.30	25.32	39.90	27.08		
3	110.68	102.76	239.36	63.70	251.58	322.72	652.30	567.60	68.60	22.68	36.40	21.36		
4	93.40	80.14	198.94	49.00	256.28	385.40	671.04	563.40	60.90	19.60	32.80	16.08		
5	85.60	79.36	180.14	55.30	258.16	426.80	687.60	555.00	52.50	20.04	31.04	11.96		
6	80.14	67.90	163.22	54.60	256.28	435.20	694.96	543.80	44.80	20.92	33.68	9.10		
7	77.02	71.56	154.76	83.26	248.76	432.80	698.64	528.40	39.90	20.04	42.00	7.80		
8	67.90	84.04	160.40	119.08	241.24	436.40	694.96	507.80	36.40	19.60	65.80	7.54		
9	62.30	87.16	175.44	155.70	242.18	455.60	682.08	483.20	32.80	18.72	73.12	6.50		
10	62.30	99.64	189.54	162.28	246.88	467.60	656.92	453.20	34.56	18.72	68.60	5.72		
11	65.80	115.72	195.18	155.70	245.00	455.60	627.66	393.20	34.56	20.48	63.70	5.20		
12	76.24	124.96	193.30	145.12	247.82	429.20	586.08	389.80	34.12	19.60	58.10	4.68		
13	92.62	135.88	190.48	143.44	260.98	395.60	550.80	362.00	33.68	21.36	57.40	3.90		
14	97.30	140.92	184.84	167.92	298.72	357.00	520.00	337.12	31.92	20.92	58.80	3.38		
15	106.66	148.48	181.08	218.68	345.00	323.68	496.40	322.72	34.12	16.52	55.30	2.86		
16	118.24	145.96	178.26	268.50	388.70	324.64	489.20	309.28	40.60	16.96	52.50	2.34		
17	133.36	143.44	196.12	349.00	410.00	364.00	486.80	287.30	46.20	15.64	46.20	2.34		
18	151.94	147.64	233.72	423.20	398.00	419.60	489.20	266.62	48.30	16.52	45.50	4.16		
19	133.36	162.28	264.74	453.20	371.10	456.80	494.00	246.88	49.00	16.52	39.20	2.60		
20	123.28	173.56	276.96	459.20	338.08	472.40	500.00	186.72	53.90	16.96	32.80	2.08		
21	105.10	191.42	268.50	453.20	300.64	471.20	507.80	138.40	58.10	16.08	25.76	3.12		
22	86.38	229.96	245.00	432.80	258.16	459.20	517.20	112.36	60.20	16.96	23.12	4.94		
23	80.92	246.88	208.34	389.80	221.50	436.40	527.00	102.76	58.80	32.80	21.36	7.80		
24	72.34	257.22	170.74	340.00	203.64	426.80	535.40	84.82	56.00	49.00	24.00	11.70		
25	61.60	254.40	138.40	290.12	190.48	432.80	542.40	66.50	51.80	85.60	31.48	11.44		
26	68.60	245.00	105.88	250.64	185.78	471.20	552.20	64.40	49.00	105.88	33.68	11.18		
27	79.36	232.78	64.40	213.04	182.02	502.60	555.00	62.30	44.10	97.30	35.00	11.44		
28	107.44	225.26	52.50	179.20	174.50	529.80	559.20	61.60	40.60	80.14	35.70	10.92		
29	119.92	221.50	67.90	151.00	173.56	549.40	562.00	62.30	36.40	64.40		10.66		
30	114.04	219.62	87.94	132.52	179.20	578.80	562.00	73.12	32.80	51.10		9.88		
31		224.32		145.96	208.34		563.40		29.72	42.70		10.40		
Total	2843.26	4896.24	5467.36	6672.46	8006.78	12734.62	17900.62	9262.20	1428.78	1036.16	1201.44	282.08	71732.00	CMSDAY
Mean	94.78	157.94	182.25	215.24	258.28	424.49	577.44	308.74	46.09	33.42	42.91	9.10	196.53	CMS
Max	151.94	257.22	276.96	459.20	410.00	578.80	698.64	567.60	69.30	105.88	73.12	31.92	698.64	CMS
Min	61.60	67.90	52.50	49.00	173.56	240.30	486.80	61.60	29.72	15.64	21.36	2.08	2.08	CMS
Runoff	245.66	423.04	472.38	576.50	691.79	1100.27	1546.61	800.25	123.45	89.52	103.80	24.37	6197.65	MCM
Momentary Peak	698.64 CMS, at 130.21 m. (MSL), at 03.00 Hours, on Oct 7, 2009													
Runoff Yield	4.77 Liters/Second/Square KM.			Momentary Peak Yield				16,963 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Chi River at Maha Chana Chai , Yasothon (E.20A)

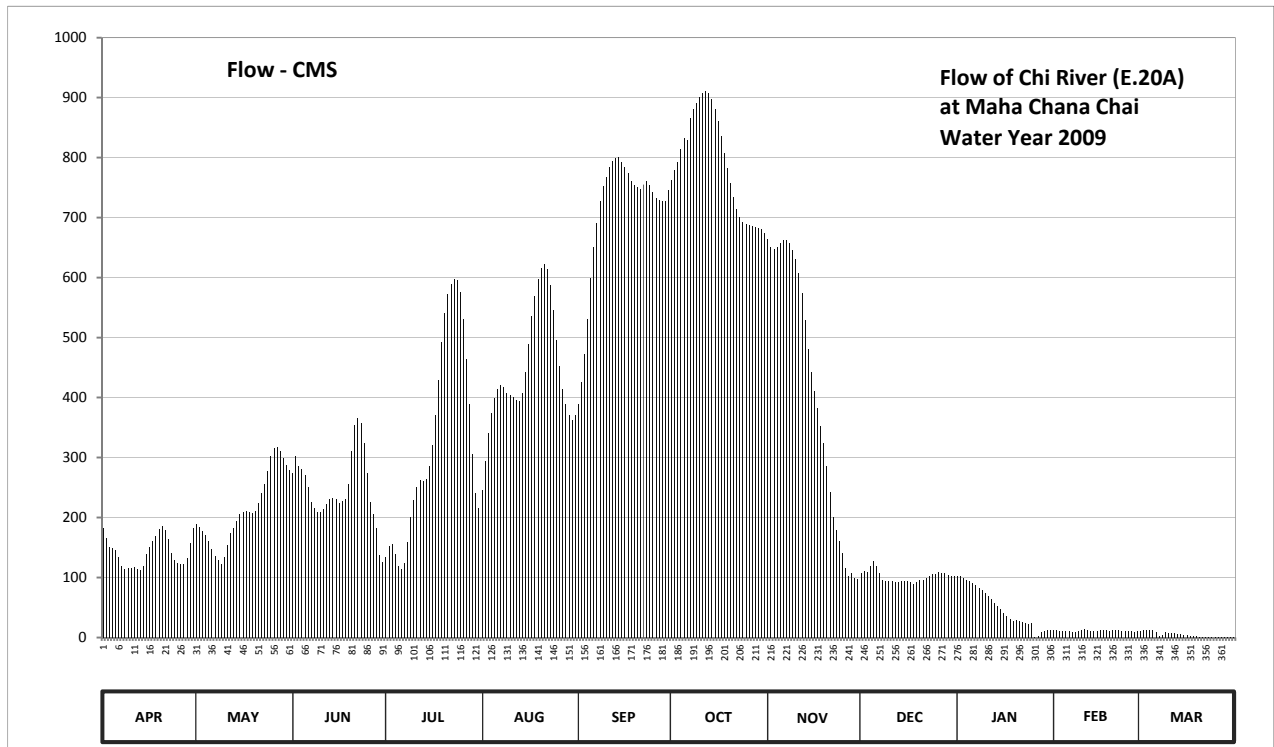
Lat 15 - 31 - 22 N Long 104 - 15 - 13 E

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

	Ban Maha Chana Chai	Amphoe Maha Chana Chai	Changwat Yasothon
Drainage Area	47,800 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+112.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+126.610 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1974 to date		
Rated by Flot	-		
Rated by Current Meter	1974 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	Overbank flow starts at elevation +119.260 m.(MSL.), records are channel flow only.		
General Description	Records fair. Tat Noi barrage situated downstream from the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.37	116.47	117.46	116.00	117.21	118.38	120.76	120.20	115.65	115.60	115.85	115.77	
2	116.22	116.40	117.70	116.13	117.63	118.66	120.85	120.12	115.69	115.59	115.83	115.83	
3	116.11	116.30	117.55	116.15	118.00	119.01	120.93	120.10	115.68	115.56	115.82	115.85	
4	116.10	116.26	117.51	116.03	118.26	119.38	121.04	120.12	115.80	115.52	115.82	115.84	
5	116.08	116.18	117.43	115.80	118.45	119.81	121.13	120.16	115.90	115.48	115.80	115.83	
6	115.98	116.09	117.25	115.75	118.57	120.12	121.12	120.19	115.81	115.44	115.75	115.61	
7	115.81	116.01	117.01	115.86	118.62	120.36	121.30	120.19	115.65	115.39	115.71	115.16	
8	115.75	115.93	116.86	116.17	118.59	120.57	121.38	120.16	115.51	115.32	115.69	115.29	
9	115.77	115.84	116.77	116.66	118.52	120.71	121.43	120.09	115.48	115.27	115.73	115.64	
10	115.77	115.98	116.77	117.05	118.49	120.79	121.48	120.00	115.48	115.20	115.87	115.59	
11	115.78	116.14	116.85	117.26	118.46	120.88	121.51	119.86	115.48	115.13	115.96	115.51	
12	115.74	116.28	116.97	117.36	118.43	120.94	121.53	119.65	115.47	115.06	115.88	115.50	
13	115.71	116.39	117.06	117.35	118.41	120.96	121.51	119.37	115.47	114.97	115.78	115.43	
14	115.81	116.55	117.08	117.37	118.52	120.97	121.46	119.07	115.49	114.89	115.75	115.38	
15	116.03	116.72	117.06	117.56	118.79	120.93	121.38	118.79	115.50	114.80	115.82	115.32	
16	116.11	116.78	116.98	117.84	119.12	120.88	121.28	118.54	115.49	114.72	115.87	115.25	
17	116.19	116.79	117.02	118.24	119.41	120.83	121.15	118.33	115.47	114.64	115.87	115.19	
18	116.25	116.76	117.06	118.69	119.62	120.75	121.01	118.10	115.42	114.56	115.84	115.15	
19	116.36	116.74	117.30	119.14	119.79	120.72	120.87	117.87	115.46	114.52	115.82	115.09	
20	116.42	116.80	117.77	119.44	119.91	120.70	120.73	117.56	115.51	114.53	115.84	115.01	
21	116.34	116.99	118.11	119.64	119.95	120.68	120.61	117.17	115.52	114.50	115.85	115.00	
22	116.21	117.15	118.20	119.74	119.90	120.72	120.50	116.65	115.56	114.48	115.83	114.93	
23	116.04	117.30	118.13	119.79	119.73	120.75	120.42	116.34	115.60	114.44	115.77	114.87	
24	115.92	117.48	117.88	119.78	119.47	120.72	120.37	116.19	115.63	114.43	115.75	114.78	
25	115.86	117.70	117.45	119.66	119.16	120.65	120.35	116.04	115.64	114.44	115.73	114.70	
26	115.84	117.80	117.01	119.38	118.86	120.60	120.34	115.76	115.67	114.61	115.72	114.62	
27	115.85	117.82	116.71	118.95	118.57	120.58	120.33	115.60	115.65	115.16	115.71	114.58	
28	115.97	117.76	116.37	118.37	118.37	120.57	120.32	115.65	115.65	115.63	115.75	114.59	
29	116.16	117.66	116.02	117.72	118.23	120.57	120.31	115.56	115.62	115.76		114.66	
30	116.38	117.57	115.89	117.16	118.17	120.67	120.30	115.53	115.60	115.88		114.70	
31		117.50		116.87	118.23		120.26		115.59	115.89		114.74	
Mean	116.03	116.78	117.17	117.71	118.76	120.43	120.90	118.30	115.59	115.08	115.80	115.21	
Max	116.42	117.82	118.20	119.79	119.95	120.97	121.53	120.20	115.90	115.89	115.96	115.85	121.53
Min	115.71	115.84	115.89	115.75	117.21	118.38	120.26	115.53	115.42	114.43	115.69	114.58	114.43
Annual Max Momentary Gage Height		121.53		m. (MSL.) ,				at 01.00 Hours, on Oct 12, 2009					
Zero Gage at Bottom Elevation		112.00		m. (MSL.) ,		River Bed	111.31	m. (MSL)					
Left Bank Elevation			119.26		m. (MSL.) ,								
Right Bank Elevation		121.76			m. (MSL.) ,	Drainage Area	47800	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.80	188.70	274.20	135.00	246.00	389.40	762.30	664.00	107.00	103.00	11.90	10.80	
2	165.80	183.90	303.00	153.20	294.60	425.80	778.70	650.40	110.20	102.20	11.60	11.60	
3	150.40	177.00	285.00	156.00	340.00	471.60	793.30	647.00	109.40	99.80	11.50	11.90	
4	149.00	171.40	280.20	139.20	373.80	530.80	813.90	650.40	119.00	96.60	11.50	11.80	
5	146.20	160.20	270.60	119.00	398.50	599.60	831.70	657.20	127.00	93.60	11.20	11.60	
6	133.40	147.60	250.00	115.00	414.10	650.40	829.80	662.30	119.80	90.80	10.50	8.50	
7	119.80	136.40	226.00	123.80	420.60	691.20	865.40	662.30	107.00	87.30	9.90	2.60	
8	115.00	129.40	215.40	158.80	416.70	727.70	881.20	657.20	95.80	82.40	9.70	4.30	
9	116.60	122.20	209.20	201.70	407.60	753.20	891.10	645.30	93.60	78.90	10.20	9.00	
10	116.60	133.40	209.20	230.00	403.70	767.80	901.00	630.00	93.60	74.00	12.20	8.30	
11	117.40	154.60	214.70	251.00	399.80	784.20	907.00	607.60	93.60	69.10	13.40	7.10	
12	114.20	174.20	222.90	262.20	395.90	795.10	911.00	574.00	92.90	64.20	12.30	7.00	
13	111.80	183.20	231.00	261.00	393.30	798.70	907.00	529.20	92.90	57.90	10.90	6.10	
14	119.80	194.10	233.00	263.40	407.60	800.50	897.10	481.20	94.30	52.30	10.50	5.40	
15	139.20	205.80	231.00	286.20	442.70	793.30	881.20	442.70	95.00	46.50	11.50	4.70	
16	150.40	209.90	223.60	319.80	489.20	784.20	861.40	410.20	94.30	41.30	12.20	3.70	
17	161.60	210.60	227.00	371.20	535.60	775.10	835.70	382.90	92.90	36.10	12.20	3.00	
18	170.00	208.50	231.00	429.70	569.20	760.50	808.00	353.00	89.40	30.90	11.80	2.50	
19	181.10	207.20	255.00	492.40	596.40	755.00	782.30	323.40	92.20	28.30	11.50	1.70	
20	185.20	211.30	311.40	540.40	615.60	751.40	756.90	286.20	95.80	28.90	11.80	0.60	
21	179.70	224.30	354.30	572.40	622.00	747.80	735.00	242.00	96.60	27.00	11.90	0.50	
22	164.40	240.00	366.00	588.40	614.00	755.00	715.00	201.00	99.80	25.80	11.60	0.40	
23	140.60	255.00	356.90	596.40	586.80	760.50	701.40	179.70	103.00	23.40	10.80	0.40	
24	128.60	276.60	324.60	594.80	545.20	755.00	692.90	161.60	105.40	22.80	10.50	0.30	
25	123.80	303.00	273.00	575.60	495.60	742.30	689.50	140.60	106.20	23.40	10.20	0.20	
26	122.20	315.00	226.00	530.80	451.80	733.20	687.80	115.80	108.60	0.10	10.10	0.10	
27	123.00	317.40	205.10	463.50	414.10	729.60	686.10	103.00	107.00	2.60	9.90	0.10	
28	132.60	310.20	181.80	388.10	388.10	727.70	684.40	107.00	107.00	8.80	10.50	0.10	
29	157.40	298.20	137.80	305.40	369.90	727.70	682.70	99.80	104.60	10.60		0.20	
30	182.50	287.40	126.20	241.00	362.10	745.90	681.00	97.40	103.00	12.30		0.20	
31		279.00		216.10	369.90		674.20		102.20	12.50		0.20	
Total	4300.10	6615.70	7455.10	10081.50	13780.40	21230.20	24526.00	12364.40	3159.10	1533.40	313.80	134.90	105494.60 CMSDAY
Mean	143.30	213.40	248.50	325.20	444.50	707.70	791.20	412.10	101.90	49.50	11.20	4.40	289.00 CMS
Max	185.20	317.40	366.00	596.40	622.00	800.50	911.00	664.00	127.00	103.00	13.40	11.90	911.00 CMS
Min	111.80	122.20	126.20	115.00	246.00	389.40	674.20	97.40	89.40	0.10	9.70	0.10	0.10 CMS
Runoff	371.53	571.60	644.12	871.04	1190.63	1834.29	2119.05	1068.28	272.95	132.49	27.11	11.66	9114.73 MCM
Momentary Peak	911.00 CMS, at 121.53 m. (MSL), at 01.00 Hours, on Oct 12, 2009												
Runoff Yield	6.05 Liters/Second/Square KM.			Momentary Peak Yield				19.059 Liters/Second/Square KM.					

WATER YEAR : 2009

CHI RIVER BASIN

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

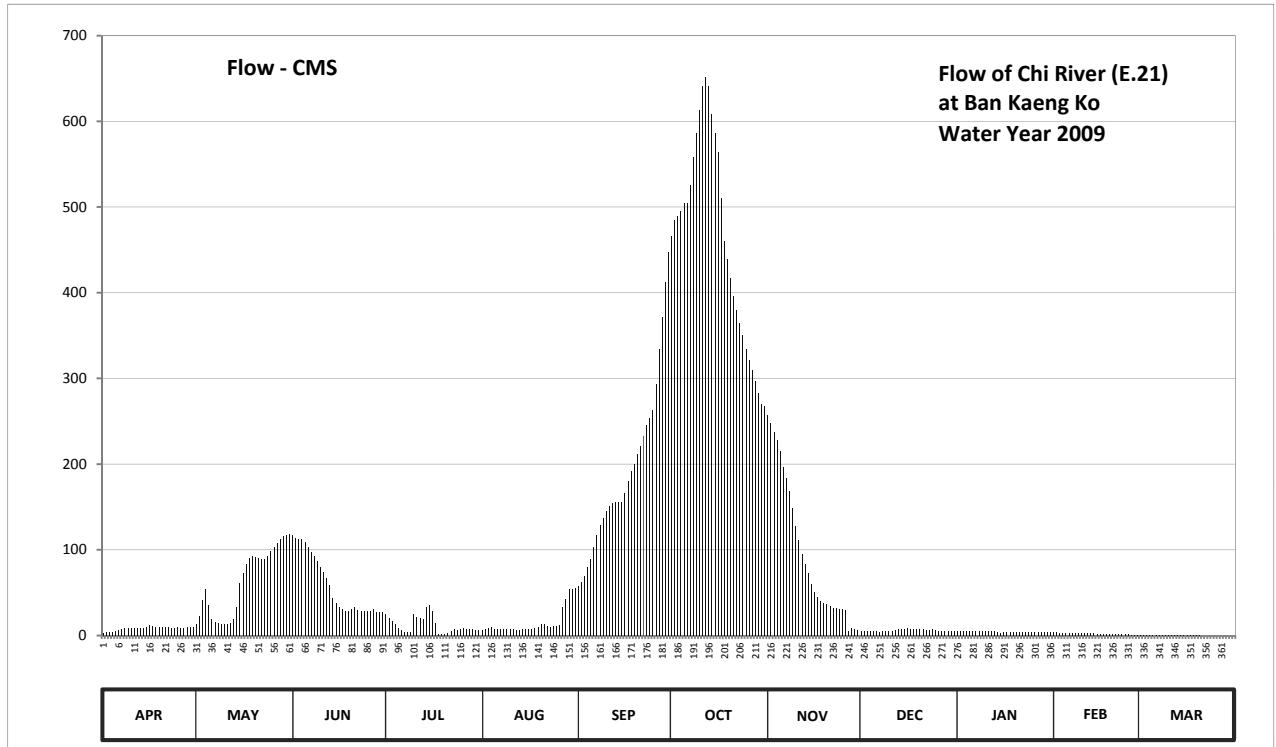
Lat 15 - 45 - 07 N Long 102 - 15 - 25 E

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

	Ban Kaeng Ko	Amphoe Mueang	Changwat Chaiyaphum
Drainage Area	8,777 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+164.980 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	In front of the automatic gage building.	Elevation	+177.385 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1955 - 1957 , 1967 to date		
Rating Operation			
Period of Rating	1968 - 1971 , 1973 - 1974 , 1982 to date		
Rated by Flot	-		
Rated by Current Meter	1968 - 1971 , 1973 - 1974 , 1982 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The rubber weir situated about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	167.06	167.74	169.91	167.98	167.49	168.22	173.98	172.89	167.40	167.38	167.14	166.27	
2	167.10	167.93	169.83	167.90	167.50	168.36	174.03	172.75	167.38	167.38	167.11	166.23	
3	167.20	168.17	169.80	167.83	167.56	168.56	174.04	172.60	167.42	167.38	167.08	166.20	
4	167.27	168.25	169.78	167.72	167.62	168.86	174.05	172.45	167.38	167.38	167.05	166.17	
5	167.37	168.11	169.70	167.59	167.55	169.15	174.07	172.26	167.35	167.38	167.02	166.15	
6	167.47	167.89	169.54	167.47	167.54	169.53	174.07	171.96	167.35	167.38	166.99	166.13	
7	167.51	167.79	169.38	167.25	167.51	169.93	174.11	171.64	167.27	167.38	166.95	166.11	
8	167.58	167.76	169.24	167.17	167.55	170.22	174.17	171.25	167.40	167.36	166.92	166.08	
9	167.59	167.74	169.08	167.12	167.51	170.44	174.22	170.77	167.39	167.35	166.89	166.08	
10	167.59	167.73	168.88	167.09	167.54	170.66	174.27	170.21	167.40	167.33	166.87	166.14	
11	167.60	167.74	168.69	167.00	167.51	170.82	174.32	169.76	167.40	167.33	166.84	166.17	
12	167.60	167.77	168.49	166.94	167.49	170.91	174.34	169.32	167.47	167.33	166.81	166.18	
13	167.60	167.89	168.26	166.85	167.49	170.93	174.32	168.99	167.50	167.35	166.79	166.18	
14	167.60	168.09	168.20	167.39	167.51	170.95	174.26	168.66	167.52	167.10	166.77	166.18	
15	167.64	168.33	168.14	167.47	167.51	170.95	174.22	168.31	167.50	167.06	166.76	166.16	
16	167.70	168.68	168.08	167.25	167.52	171.20	174.18	168.02	167.56	167.09	166.72	166.13	
17	167.68	168.99	168.06	166.65	167.54	171.54	174.08	167.80	167.55	167.14	166.68	166.09	
18	167.65	169.18	168.03	166.71	167.60	171.85	173.95	167.66	167.53	167.19	166.66	166.06	
19	167.63	169.24	168.02	166.68	167.65	172.03	173.85	167.58	167.52	167.20	166.63	166.04	
20	167.63	169.20	168.06	166.66	167.74	172.20	173.74	167.51	167.52	167.19	166.59	166.03	
21	167.62	169.18	168.09	166.80	167.74	172.35	173.64	167.44	167.51	167.17	166.56	166.01	
22	167.61	169.16	168.04	167.36	167.68	172.53	173.56	167.37	167.49	167.16	166.49	165.98	
23	167.60	169.15	168.03	167.54	167.65	172.72	173.49	167.35	167.46	167.18	166.45	165.96	
24	167.60	169.25	168.03	167.47	167.66	172.84	173.42	167.33	167.50	167.20	166.43	165.95	
25	167.61	169.41	168.02	167.50	167.68	172.98	173.34	167.31	167.49	167.22	166.40	165.93	
26	167.60	169.54	168.02	167.57	167.70	173.14	173.28	167.29	167.36	167.23	166.38	165.92	
27	167.58	169.68	168.05	167.51	168.09	173.34	173.22	167.36	167.38	167.22	166.34	165.87	
28	167.62	169.78	168.01	167.53	168.18	173.52	173.16	167.60	167.38	167.21	166.31	165.80	
29	167.63	169.88	168.00	167.50	168.14	173.72	173.09	167.51	167.38	167.20	166.27	165.76	
30	167.64	169.94	168.00	167.48	168.12	173.89	173.03	167.47	167.38	167.18	166.23	165.75	
31	167.64	169.96	168.00	167.49	168.16	174.06	173.02	167.47	167.38	167.16	166.19	165.75	
Mean	167.54	168.68	168.58	167.31	167.67	171.28	173.82	169.21	167.44	167.25	166.74	166.05	
Max	167.70	169.96	169.91	167.98	168.18	173.89	174.34	172.89	167.56	167.38	167.14	166.27	174.34
Min	167.06	167.73	168.00	166.65	167.49	168.22	173.02	167.29	167.27	167.06	166.31	165.75	165.75
Annual Max Momentary Gage Height	174.35		m. (MSL.) ,			at 24.00 Hours, on Oct 11, 2009							
Zero Gage at Bottom Elevation	164.98		m. (MSL.) ,			River Bed	163.49	m. (MSL)					
Left Bank Elevation	176.10		m. (MSL.) ,										
Right Bank Elevation	175.64		m. (MSL.) ,			Drainage Area	8777	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	13.60	116.76	25.60	6.80	57.48	465.88	256.74	5.00	4.90	3.70	0.81	
2	3.50	22.10	113.88	20.00	7.00	62.24	485.00	247.50	4.90	4.90	3.55	0.69	
3	4.00	41.00	112.80	17.20	8.20	69.04	490.00	237.60	5.40	4.90	3.40	0.60	
4	4.35	54.33	112.08	12.80	9.60	79.24	495.00	227.70	4.90	4.90	3.25	0.51	
5	4.85	35.00	109.20	8.80	8.00	89.40	505.00	215.16	4.75	4.90	3.10	0.45	
6	6.40	19.60	103.44	6.40	7.80	103.08	505.00	196.40	4.75	4.90	2.97	0.39	
7	7.20	15.60	97.68	4.25	7.20	117.48	525.50	183.60	4.35	4.90	2.85	0.33	
8	8.60	14.40	92.64	3.85	8.00	128.36	558.50	168.00	5.00	4.80	2.76	0.24	
9	8.80	13.60	86.88	3.60	7.20	136.72	586.00	149.26	4.95	4.75	2.67	0.24	
10	8.80	13.20	79.92	24.52	7.80	145.08	613.50	127.98	5.00	4.65	2.61	0.42	
11	9.00	13.60	73.46	22.00	7.20	151.16	641.01	111.36	5.00	4.65	2.52	0.51	
12	9.00	14.80	66.66	20.68	6.80	154.58	652.00	95.52	6.40	4.65	2.43	0.54	
13	9.00	19.60	58.84	18.70	6.80	155.34	641.01	83.66	7.00	4.75	2.37	0.54	
14	9.00	33.30	44.00	32.92	7.20	156.10	608.00	72.44	7.40	3.50	2.31	0.54	
15	10.20	61.22	38.00	35.16	7.20	156.10	586.00	60.54	7.00	3.30	2.28	0.48	
16	12.00	73.12	32.60	29.00	7.40	166.00	563.99	50.68	8.20	3.45	2.16	0.39	
17	11.40	83.66	31.20	14.30	7.80	179.60	510.00	44.40	8.00	3.70	2.04	0.27	
18	10.50	90.48	29.10	2.13	9.00	192.00	459.70	40.48	7.60	3.95	1.98	0.18	
19	9.90	92.64	28.40	2.04	10.50	199.98	439.10	38.24	7.40	4.00	1.89	0.12	
20	9.90	91.20	31.20	1.98	13.60	211.20	416.44	36.28	7.40	3.95	1.77	0.09	
21	9.60	90.48	33.30	2.40	13.60	221.10	395.84	34.32	7.20	3.85	1.68	0.03	
22	9.30	89.76	29.80	4.80	11.40	232.98	379.36	32.36	6.80	3.80	1.47	0.00	
23	9.00	89.40	29.10	7.80	10.50	245.52	364.94	31.80	6.20	3.90	1.35	0.00	
24	9.00	93.00	29.10	6.40	10.80	253.44	350.52	31.24	7.00	4.00	1.29	0.00	
25	9.30	98.76	28.40	7.00	11.40	262.68	334.04	30.68	6.80	4.10	1.20	0.00	
26	9.00	103.44	28.40	8.40	12.00	292.84	321.68	30.12	4.80	4.15	1.14	0.00	
27	8.60	108.48	30.50	7.20	33.30	334.04	309.32	4.80	4.90	4.10	1.02	0.00	
28	9.60	112.08	27.70	7.60	42.00	371.12	296.96	9.00	4.90	4.05	0.93	0.00	
29	9.90	115.68	27.00	7.00	54.76	412.32	282.54	7.20	4.90	4.00	0.00	0.00	
30	10.20	117.84	27.00	6.60	54.08	447.34	270.18	6.40	4.90	3.90	0.00	0.00	
31		118.56		6.80	55.44		268.12		4.90	3.80		0.00	
Total	253.20	1953.53	1749.04	377.93	470.38	5783.56	14320.13	2861.46	183.70	132.05	62.69	8.37	28156.04 CMSDAY
Mean	8.44	63.02	58.30	12.19	15.17	192.79	461.94	95.38	5.93	4.26	2.24	0.27	77.14 CMS
Max	12.00	118.56	116.76	35.16	55.44	447.34	652.00	256.74	8.20	4.90	3.70	0.81	652.00 CMS
Min	3.30	13.20	27.00	1.98	6.80	57.48	268.12	4.80	4.35	3.30	0.93	0.00	0.00 CMS
Runoff	21.88	168.79	151.12	32.65	40.64	499.70	1237.26	247.23	15.87	11.41	5.42	0.72	2432.68 MCM
Momentary Peak	657.51 CMS, at 174.35 m. (MSL), at 24.00 Hours, on Oct 11, 2009												
Runoff Yield	8.79 Liters/Second/Square KM.			Momentary Peak Yield				74.913 Liters/Second/Square KM.					

WATER YEAR : 2009

CHI RIVER BASIN

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

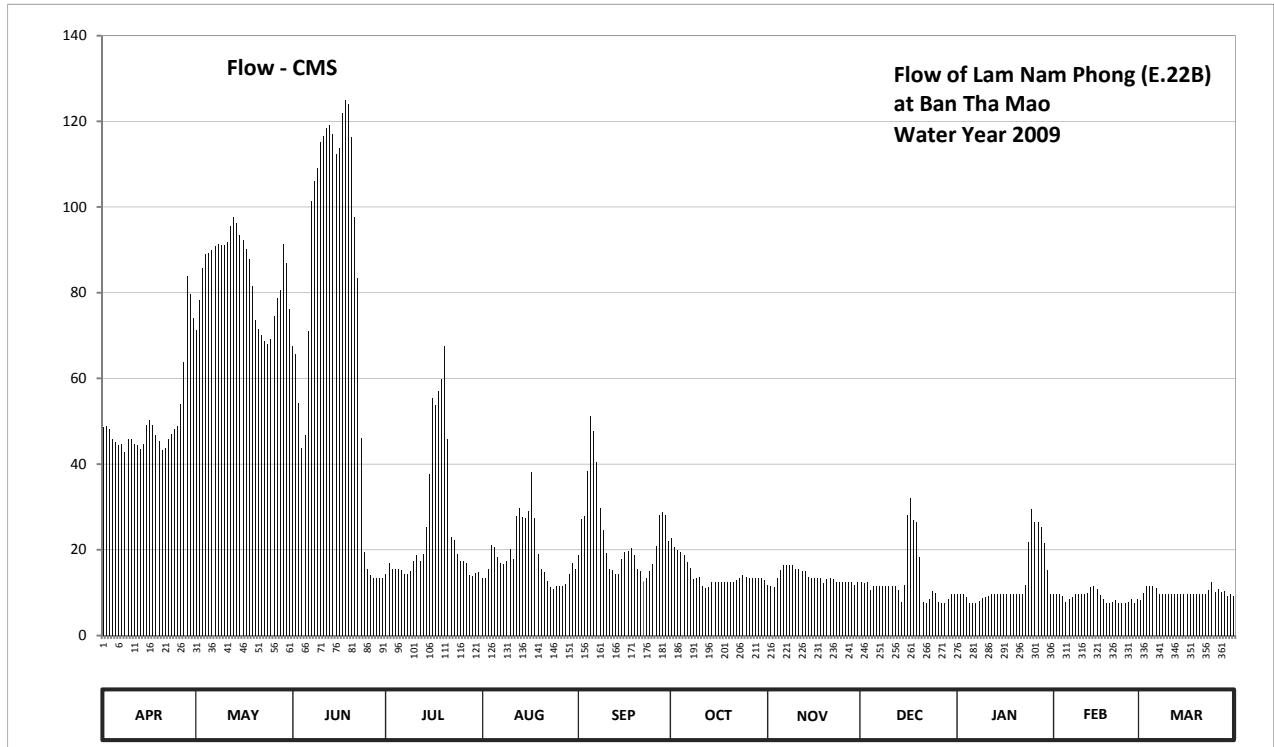
Lat 16 - 39 - 13 N Long 102 - 49 - 39 E

Location : on right bank at Ban Tha Mao.

	Ban	Tha Mao	Amphoe	Nam Phong	Changwat	Khon Kaen
Drainage Area	13,638	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+150.920 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+163.911 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1965 to date					
Rating Operation						
Period of Rating	1966 - 1972 , 1982 - 1987 , 1992 to date					
Rated by Flot	-					
Rated by Current Meter	1966 - 1972 , 1982 - 1987 , 1992 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	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 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.28	154.11	153.98	151.77	151.72	151.99	152.19	151.63	151.67	151.52	151.52	151.45	
2	153.29	154.34	153.92	151.89	151.72	152.41	152.08	151.62	151.66	151.52	151.52	151.54	
3	153.27	154.59	153.51	151.82	151.83	152.44	152.05	151.61	151.67	151.52	151.52	151.62	
4	153.17	154.70	153.09	151.82	152.11	152.87	152.02	151.72	151.57	151.49	151.50	151.62	
5	153.14	154.71	153.21	151.82	152.08	153.39	151.99	151.81	151.62	151.42	151.43	151.62	
6	153.12	154.73	154.10	151.81	151.96	153.25	151.91	151.87	151.62	151.42	151.47	151.60	
7	153.13	154.76	155.11	151.77	151.90	152.96	151.84	151.87	151.62	151.42	151.49	151.52	
8	153.05	154.78	155.27	151.77	151.88	152.53	151.71	151.87	151.62	151.44	151.52	151.52	
9	153.17	154.77	155.37	151.80	151.92	152.28	151.72	151.87	151.62	151.48	151.52	151.52	
10	153.17	154.77	155.56	151.92	152.06	152.01	151.73	151.82	151.62	151.49	151.52	151.52	
11	153.13	154.79	155.60	151.99	151.94	151.82	151.62	151.82	151.62	151.50	151.52	151.52	
12	153.12	154.92	155.65	151.92	152.44	151.81	151.60	151.80	151.62	151.52	151.54	151.52	
13	153.08	154.99	155.67	152.00	152.53	151.77	151.61	151.80	151.57	151.52	151.61	151.52	
14	153.13	154.94	155.61	152.31	152.43	151.77	151.67	151.73	151.43	151.52	151.62	151.52	
15	153.30	154.85	155.48	152.85	152.42	151.94	151.67	151.72	151.63	151.52	151.59	151.52	
16	153.35	154.81	155.52	153.56	152.50	152.02	151.67	151.72	152.46	151.52	151.51	151.52	
17	153.30	154.74	155.75	153.49	152.86	152.03	151.67	151.72	152.62	151.52	151.46	151.52	
18	153.21	154.66	155.83	153.62	152.42	152.07	151.67	151.72	152.40	151.52	151.42	151.52	
19	153.15	154.45	155.81	153.73	152.00	151.99	151.67	151.66	152.37	151.52	151.42	151.52	
20	153.07	154.19	155.59	153.98	151.83	151.83	151.67	151.71	151.96	151.52	151.43	151.52	
21	153.09	154.12	154.99	153.17	151.79	151.80	151.67	151.72	151.43	151.52	151.45	151.52	
22	153.17	154.07	154.51	152.20	151.69	151.68	151.70	151.71	151.42	151.52	151.42	151.52	
23	153.22	154.02	153.18	152.16	151.61	151.72	151.72	151.67	151.46	151.64	151.42	151.58	
24	153.27	154.00	152.02	152.00	151.59	151.80	151.75	151.67	151.56	152.14	151.42	151.67	
25	153.29	154.04	151.82	151.92	151.62	151.88	151.73	151.67	151.54	152.52	151.43	151.55	
26	153.50	154.22	151.76	151.92	151.62	152.10	151.72	151.67	151.43	152.38	151.46	151.59	
27	153.86	154.36	151.72	151.89	151.62	152.46	151.72	151.67	151.42	152.37	151.42	151.55	
28	154.53	154.42	151.72	151.76	151.65	152.49	151.72	151.67	151.42	152.32	151.46	151.56	
29	154.39	154.78	151.72	151.74	151.77	152.45	151.72	151.63	151.46	152.13		151.50	
30	154.20	154.63	151.72	151.78	151.89	152.15	151.72	151.67	151.52	151.81		151.52	
31		154.27		151.79	151.82		151.70		151.52	151.53		151.50	
Mean	153.34	154.53	154.16	152.26	151.97	152.19	151.76	151.73	151.68	151.67	151.49	151.54	
Max	154.53	154.99	155.83	153.98	152.86	153.39	152.19	151.87	152.62	152.52	151.62	151.67	155.83
Min	153.05	154.00	151.72	151.74	151.59	151.68	151.60	151.61	151.42	151.42	151.42	151.45	151.42
Annual Max Momentary Gage Height	155.84		m. (MSL.) ,				at 15.00 Hours, on Jun 18, 2009						
Zero Gage at Bottom Elevation	150.92		m. (MSL.) ,			River Bed	150.67		m. (MSL)				
Left Bank Elevation	162.12		m. (MSL.) ,										
Right Bank Elevation	163.63		m. (MSL.) ,			Drainage Area	13638		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.50	71.30	67.40	14.40	13.40	18.80	22.80	11.67	12.43	9.58	9.58	8.25	
2	48.75	78.20	65.60	16.80	13.40	27.20	20.60	11.48	12.24	9.58	9.58	9.96	
3	48.25	85.70	54.25	15.40	15.60	27.80	20.00	11.29	12.43	9.58	9.58	11.48	
4	45.75	89.00	43.75	15.40	21.20	38.25	19.40	13.40	10.53	9.01	9.20	11.48	
5	45.00	89.30	46.75	15.40	20.60	51.25	18.80	15.20	11.48	7.68	7.87	11.48	
6	44.50	89.90	71.00	15.20	18.20	47.75	17.20	16.40	11.48	7.68	8.63	11.10	
7	44.75	90.80	101.30	14.40	17.00	40.50	15.80	16.40	11.48	7.68	9.01	9.58	
8	42.75	91.40	106.10	14.40	16.60	29.75	13.20	16.40	11.48	8.06	9.58	9.58	
9	45.75	91.10	109.10	15.00	17.40	24.60	13.40	16.40	11.48	8.82	9.58	9.58	
10	45.75	91.10	115.16	17.40	20.20	19.20	13.60	15.40	11.48	9.01	9.58	9.58	
11	44.75	91.70	116.60	18.80	17.80	15.40	11.48	15.40	11.48	9.20	9.58	9.58	
12	44.50	95.60	118.40	17.40	27.80	15.20	11.10	15.00	11.48	9.58	9.96	9.58	
13	43.50	97.70	119.12	19.00	29.75	14.40	11.29	15.00	10.53	9.58	11.29	9.58	
14	44.75	96.20	116.96	25.20	27.60	14.40	12.43	13.60	7.87	9.58	11.48	9.58	
15	49.00	93.50	112.40	37.75	27.40	17.80	12.43	13.40	11.67	9.58	10.91	9.58	
16	50.25	92.30	113.72	55.50	29.00	19.40	12.43	13.40	28.20	9.58	9.39	9.58	
17	49.00	90.20	122.00	53.75	38.00	19.60	12.43	13.40	32.00	9.58	8.44	9.58	
18	46.75	87.80	124.88	57.00	27.40	20.40	12.43	13.40	27.00	9.58	7.68	9.58	
19	45.25	81.50	124.16	59.90	19.00	18.80	12.43	12.24	26.40	9.58	7.68	9.58	
20	43.25	73.70	116.24	67.40	15.60	15.60	12.43	13.20	18.20	9.58	7.87	9.58	
21	43.75	71.60	97.70	45.75	14.80	15.00	12.43	13.40	7.87	9.58	8.25	9.58	
22	45.75	70.10	83.30	23.00	12.81	12.62	13.00	13.20	7.68	9.58	7.68	9.58	
23	47.00	68.60	46.00	22.20	11.29	13.40	13.40	12.43	8.44	11.86	7.68	10.72	
24	48.25	68.00	19.40	19.00	10.91	15.00	14.00	12.43	10.34	21.80	7.68	12.43	
25	48.75	69.20	15.40	17.40	11.48	16.60	13.60	12.43	9.96	29.50	7.87	10.15	
26	54.00	74.60	14.20	17.40	11.48	21.00	13.40	12.43	7.87	26.60	8.44	10.91	
27	63.80	78.80	13.40	16.80	11.48	28.20	13.40	12.43	7.68	26.40	7.68	10.15	
28	83.90	80.60	13.40	14.20	12.05	28.80	13.40	12.43	7.68	25.40	8.44	10.34	
29	79.70	91.40	13.40	13.80	14.40	28.00	13.40	11.67	8.44	21.60		9.20	
30	74.00	86.90	13.40	14.60	16.80	22.00	13.40	12.43	9.58	15.20		9.58	
31		76.10		14.80	15.40		13.00		9.58	9.77		9.20	
Total	1509.65	2603.90	2294.49	784.45	575.85	696.72	442.11	407.36	396.46	389.39	250.19	309.71	10660.28 CMSDAY
Mean	50.32	84.00	76.48	25.30	18.58	23.22	14.26	13.58	12.79	12.56	8.94	9.99	29.21 CMS
Max	83.90	97.70	124.88	67.40	38.00	51.25	22.80	16.40	32.00	29.50	11.48	12.43	124.88 CMS
Min	42.75	68.00	13.40	13.80	10.91	12.62	11.10	11.29	7.68	7.68	7.68	8.25	7.68 CMS
Runoff	130.43	224.98	198.24	67.78	49.75	60.20	38.20	35.20	34.25	33.64	21.62	26.76	921.05 MCM
Momentary Peak	125.24 CMS, at 155.84 m. (MSL), at 15.00 Hours, on Jun 18, 2009												
Runoff Yield	2.14 Liters/Second/Square KM.			Momentary Peak Yield			9.183 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

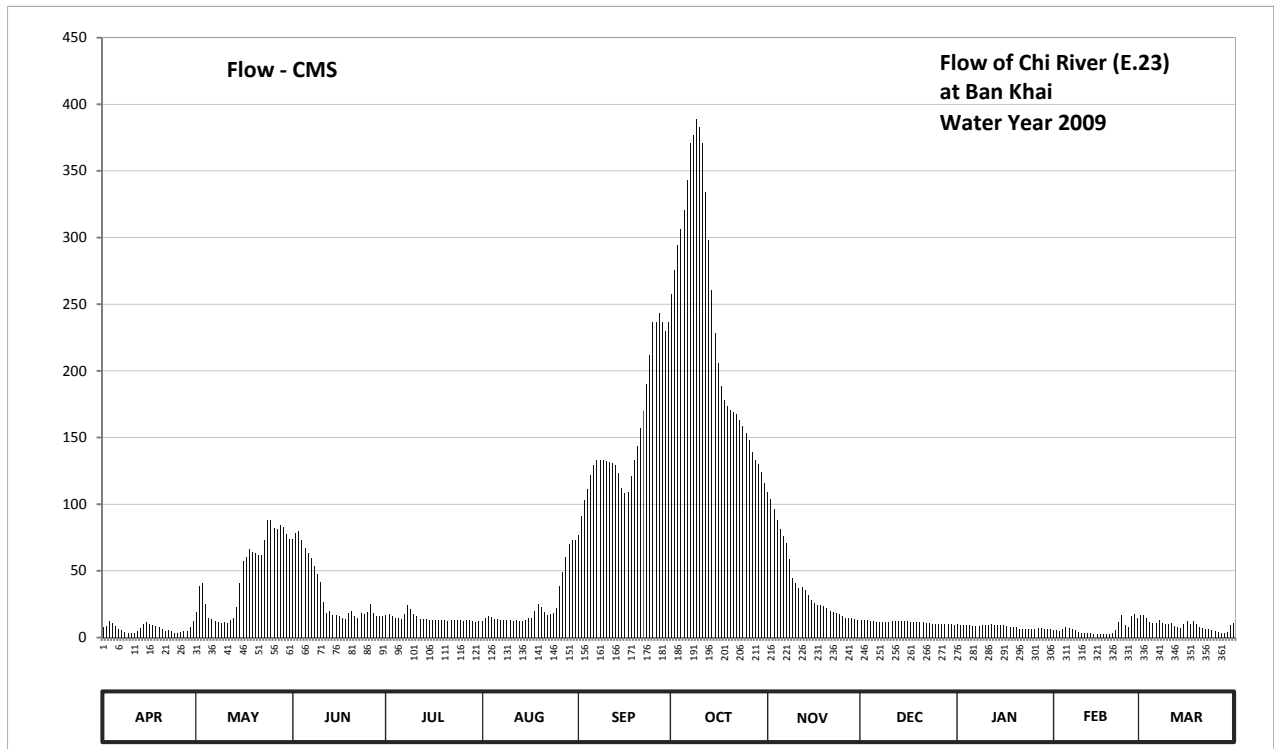
Lat 15 - 40 - 49 N Long 102 - 00 - 46 E

Location : on left bank at the bridge on highway.

	Ban Khai	Amphoe Mueang	Changwat Chaiyaphum
Drainage Area	6,282 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+174.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank about 20 meters from the automatic gage building.	Elevation	+183.370 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1954 - 1956 , 1967 to date		
Rating Operation			
Period of Rating	1968 - 1974 , 1982 to date		
Rated by Flot	-		
Rated by Current Meter	1968 - 1974 , 1982 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The local weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 23 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.22	177.96	180.14	177.82	177.53	180.24	182.68	181.28	177.58	177.36	177.11	177.80	
2	177.28	178.87	180.31	177.85	177.64	180.72	182.73	181.12	177.57	177.35	177.10	177.80	
3	177.50	178.95	180.35	177.76	177.76	181.09	182.78	180.88	177.56	177.33	177.06	177.64	
4	177.41	178.25	180.12	177.67	177.71	181.33	182.81	180.64	177.54	177.32	177.12	177.46	
5	177.27	177.68	179.89	177.64	177.63	181.53	182.84	180.42	177.51	177.31	177.24	177.42	
6	177.17	177.60	179.77	177.63	177.60	181.65	182.89	180.22	177.48	177.30	177.20	177.41	
7	177.09	177.54	179.64	177.84	177.57	181.72	182.94	180.03	177.48	177.30	177.15	177.58	
8	177.00	177.49	179.42	178.20	177.55	181.72	182.95	179.59	177.49	177.30	177.11	177.42	
9	176.92	177.44	179.21	178.06	177.56	181.71	182.97	179.09	177.49	177.32	177.01	177.37	
10	176.91	177.45	178.99	177.85	177.56	181.70	182.96	178.95	177.49	177.31	176.97	177.39	
11	176.91	177.44	178.33	177.77	177.54	181.69	182.94	178.81	177.50	177.34	176.94	177.44	
12	177.05	177.56	177.87	177.61	177.55	181.68	182.87	178.82	177.52	177.38	176.91	177.28	
13	177.19	177.68	177.98	177.62	177.52	181.65	182.79	178.74	177.52	177.35	176.90	177.23	
14	177.38	178.15	177.81	177.60	177.54	181.55	182.69	178.57	177.51	177.31	176.88	177.20	
15	177.45	178.94	177.80	177.58	177.58	181.35	182.59	178.41	177.51	177.33	176.87	177.39	
16	177.39	179.56	177.77	177.58	177.64	181.26	182.47	178.28	177.50	177.32	176.84	177.53	
17	177.31	179.65	177.68	177.58	177.68	181.27	182.34	178.22	177.49	177.30	176.83	177.38	
18	177.28	179.86	177.61	177.56	177.98	181.52	182.25	178.23	177.48	177.26	176.82	177.50	
19	177.23	179.78	177.92	177.55	178.24	181.72	182.21	178.19	177.47	177.26	176.86	177.37	
20	177.17	179.77	177.99	177.55	178.14	181.88	182.18	178.12	177.47	177.22	176.95	177.26	
21	177.06	179.72	177.76	177.54	177.93	182.03	182.17	178.00	177.45	177.17	177.10	177.20	
22	177.11	179.72	177.64	177.55	177.79	182.18	182.15	177.95	177.44	177.15	177.48	177.17	
23	177.04	180.12	177.92	177.56	177.83	182.35	182.10	177.91	177.42	177.14	177.78	177.15	
24	176.93	180.64	177.83	177.56	177.89	182.51	182.05	177.85	177.40	177.14	177.35	177.10	
25	176.90	180.62	177.94	177.57	178.11	182.62	181.99	177.74	177.37	177.13	177.26	177.07	
26	177.00	180.44	178.27	177.54	178.86	182.62	181.93	177.68	177.37	177.14	177.75	177.02	
27	177.05	180.40	177.87	177.58	179.25	182.64	181.82	177.66	177.36	177.18	177.86	176.96	
28	177.03	180.51	177.75	177.55	179.65	182.62	181.72	177.64	177.36	177.18	177.65	176.90	
29	177.22	180.46	177.75	177.52	180.00	182.60	181.66	177.62	177.36	177.14		176.98	
30	177.52	180.28	177.75	177.49	180.10	182.62	181.56	177.58	177.36	177.15		177.32	
31		180.15		177.51	180.11		181.43		177.35	177.16		177.41	
Mean	177.17	179.05	178.50	177.65	178.10	181.79	182.40	178.81	177.46	177.26	177.15	177.33	
Max	177.52	180.64	180.35	178.20	180.11	182.64	182.97	181.28	177.58	177.38	177.86	177.80	182.97
Min	176.90	177.44	177.61	177.49	177.52	180.24	181.43	177.58	177.35	177.13	176.82	176.90	176.82
Annual Max Momentary Gage Height		182.97	m. (MSL.) ,			at 11.00 Hours, on Oct 9, 2009							
Zero Gage at Bottom Elevation		174.00	m. (MSL.) ,			River Bed	175.23	m. (MSL)					
Left Bank Elevation		184.13	m. (MSL.) ,										
Right Bank Elevation		183.70	m. (MSL.) ,			Drainage Area	6282	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.52	19.36	73.92	17.12	12.48	76.72	257.20	109.30	13.28	9.76	5.76	16.80	
2	8.48	38.88	78.68	17.60	14.24	91.04	275.40	103.86	13.12	9.60	5.60	16.80	
3	12.00	40.80	79.80	16.16	16.16	102.88	294.40	96.16	12.96	9.28	4.96	14.24	
4	10.56	25.00	73.36	14.72	15.36	111.20	306.60	88.48	12.64	9.12	5.92	11.36	
5	8.32	14.88	66.92	14.24	14.08	121.80	320.40	81.76	12.16	8.96	7.84	10.72	
6	6.72	13.60	63.56	14.08	13.60	129.00	343.40	76.16	11.68	8.80	7.20	10.56	
7	5.44	12.64	59.92	17.44	13.12	133.20	371.20	70.84	11.68	8.80	6.40	13.28	
8	4.00	11.84	53.76	24.00	12.80	133.20	377.00	58.52	11.84	8.80	5.76	10.72	
9	3.20	11.04	47.88	21.20	12.96	132.60	388.60	44.52	11.84	9.12	4.16	9.92	
10	3.10	11.20	41.76	17.60	12.96	132.00	382.81	40.80	11.84	8.96	3.70	10.24	
11	3.10	11.04	26.60	16.32	12.64	131.40	371.20	37.44	12.00	9.44	3.40	11.04	
12	4.80	12.96	17.92	13.76	12.80	130.80	334.20	37.68	12.32	10.08	3.10	8.48	
13	7.04	14.88	19.68	13.92	12.32	129.00	298.20	35.76	12.32	9.60	3.00	7.68	
14	10.08	23.00	16.96	13.60	12.64	123.00	260.60	31.68	12.16	8.96	2.80	7.20	
15	11.20	40.56	16.80	13.28	13.28	112.00	228.00	28.20	12.16	9.28	2.70	10.24	
16	10.24	57.68	16.32	13.28	14.24	108.60	205.80	25.60	12.00	9.12	2.40	12.48	
17	8.96	60.20	14.88	13.28	14.88	108.95	188.80	24.40	11.84	8.80	2.30	10.08	
18	8.48	66.08	13.76	12.96	19.68	121.20	178.00	24.60	11.68	8.16	2.20	12.00	
19	7.68	63.84	18.72	12.80	24.80	133.20	173.20	23.80	11.52	8.16	2.60	9.92	
20	6.72	63.56	19.84	12.80	22.80	143.60	170.20	22.40	11.52	7.52	3.50	8.16	
21	4.96	62.16	16.16	12.64	18.88	156.70	169.30	20.00	11.20	6.72	5.60	7.20	
22	5.76	62.16	14.24	12.80	16.64	170.20	167.50	19.20	11.04	6.40	11.68	6.72	
23	4.64	73.36	18.72	12.96	17.28	190.00	163.00	18.56	10.72	6.24	16.48	6.40	
24	3.30	88.48	17.28	12.96	18.24	212.00	158.50	17.60	10.40	6.24	9.60	5.60	
25	3.00	87.84	19.04	13.12	22.20	236.80	153.10	15.84	9.92	6.08	8.16	5.12	
26	4.00	82.32	25.40	12.64	38.64	236.80	147.70	14.88	9.92	6.24	16.00	4.32	
27	4.80	81.20	17.92	13.28	49.00	243.60	139.40	14.56	9.76	6.88	17.76	3.60	
28	4.48	84.32	16.00	12.80	60.20	236.80	133.20	14.24	9.76	6.88	14.40	3.00	
29	7.52	82.88	16.00	12.32	70.00	230.00	129.60	13.92	9.76	6.24		3.80	
30	12.32	77.84	16.00	11.84	72.80	236.80	123.60	13.28	9.76	6.40		9.12	
31		74.20		12.16	73.08		115.80		9.60	6.56		10.56	
Total	202.42	1469.80	997.80	449.68	754.80	4555.09	7325.91	1224.04	354.40	251.20	184.98	287.36	18057.48 CMSDAY
Mean	6.75	47.41	33.26	14.51	24.35	151.84	236.32	40.80	11.43	8.10	6.61	9.27	49.47 CMS
Max	12.32	88.48	79.80	24.00	73.08	243.60	388.60	109.30	13.28	10.08	17.76	16.80	388.60 CMS
Min	3.00	11.04	13.76	11.84	12.32	76.72	115.80	13.28	9.60	6.08	2.20	3.00	2.20 CMS
Runoff	17.49	126.99	86.21	38.85	65.22	393.56	632.96	105.76	30.62	21.70	15.98	24.83	1560.17 MCM
Momentary Peak	388.60 CMS, at 182.97 m. (MSL), at 11.00 Hours, on Oct 9, 2009												
Runoff Yield	7.88 Liters/Second/Square KM.			Momentary Peak Yield			61.859 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

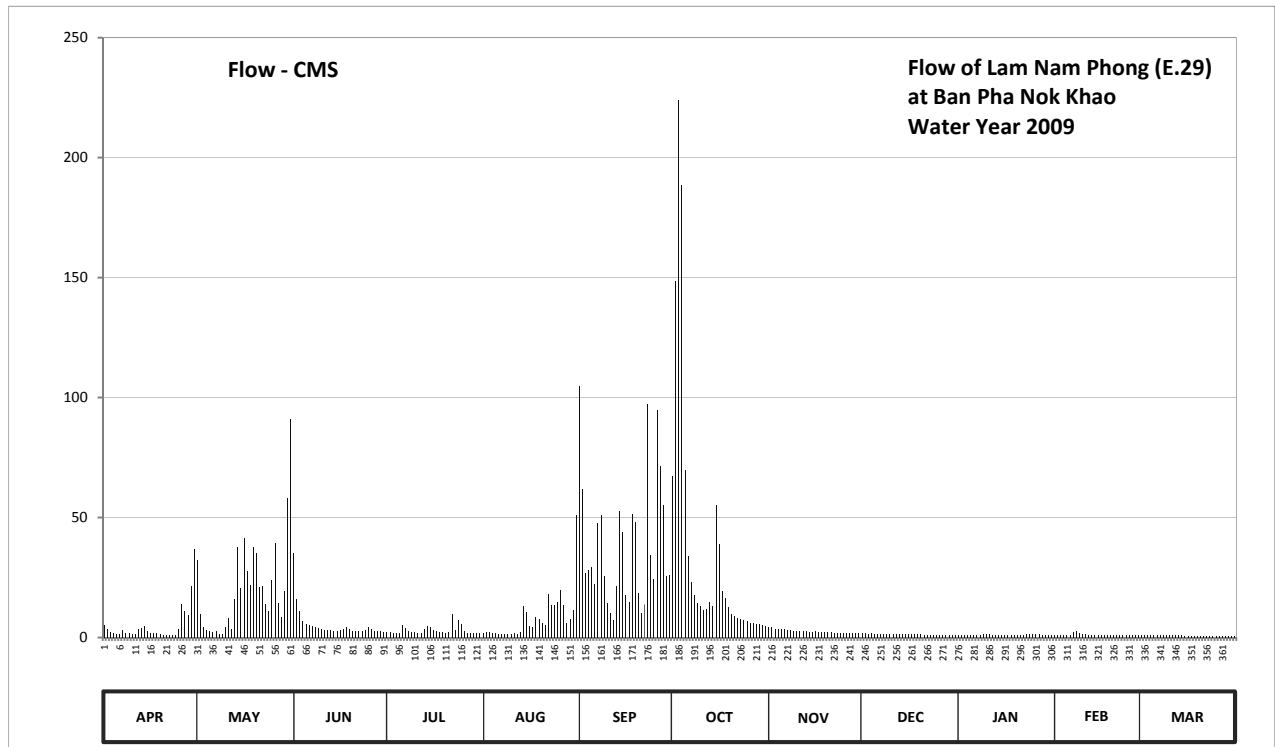
Lat 16 - 50 - 44 N Long 101 - 56 - 54 E

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

	Ban	Pha Nok Khao	Amphoe	Phu Kradung	Changwat	Loei
Drainage Area	949	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+225.000 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	In front of the automatic gage building.				Elevation	+236.945 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1956 - 1958 , 1967 to date					
Rating Operation						
Period of Rating	1978 to date					
Rated by Flot	-					
Rated by Current Meter	1978 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +233.190 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Ubonrat Dam. Stage-discharge relation defined by 96 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	226.82	229.12	229.25	226.22	226.17	232.38	230.86	226.67	226.09	225.98	225.95	225.88	
2	226.44	227.39	227.99	226.20	226.24	230.60	233.94	226.62	226.09	225.98	225.94	225.88	
3	226.20	226.62	227.50	226.17	226.19	228.77	236.34	226.53	226.08	225.98	225.93	225.88	
4	226.10	226.42	227.10	226.15	226.14	228.86	235.28	226.49	226.09	225.99	225.93	225.86	
5	226.05	226.29	226.94	226.16	226.10	228.96	230.98	226.45	226.06	225.97	225.94	225.86	
6	226.03	226.19	226.82	226.79	226.08	228.45	229.19	226.44	226.06	225.96	225.98	225.86	
7	226.37	226.27	226.74	226.57	226.06	229.88	228.52	226.41	226.05	225.97	226.23	225.86	
8	226.18	226.08	226.66	226.33	226.05	230.06	228.12	226.38	226.04	225.99	226.35	225.85	
9	226.11	226.03	226.61	226.23	226.05	228.70	227.85	226.35	226.04	226.01	226.17	225.87	
10	226.03	226.69	226.51	226.20	226.06	227.85	227.71	226.34	226.04	226.02	226.05	225.86	
11	226.01	227.19	226.42	226.15	226.09	227.41	227.53	226.34	226.04	226.03	226.04	225.87	
12	226.44	226.47	226.40	226.14	226.08	227.14	227.58	226.34	226.03	226.00	225.97	225.87	
13	226.60	228.00	226.37	226.48	226.23	228.39	227.86	226.30	226.02	225.97	225.95	225.88	
14	226.75	229.39	226.35	226.78	227.69	230.13	227.71	226.25	226.02	225.97	225.94	225.85	
15	226.35	228.33	226.34	226.64	227.45	229.69	230.26	226.26	226.02	225.96	225.92	225.84	
16	226.18	229.58	226.38	226.40	226.71	228.12	229.45	226.28	226.02	225.95	225.91	225.83	
17	226.16	228.84	226.52	226.28	226.66	227.89	228.23	226.26	226.01	225.94	225.91	225.82	
18	226.18	228.43	226.65	226.25	227.23	230.08	228.02	226.24	226.01	225.95	225.90	225.83	
19	226.03	229.39	226.50	226.21	227.17	229.90	227.67	226.23	226.01	225.93	225.90	225.83	
20	226.00	229.26	226.34	226.18	226.99	228.18	227.36	226.22	226.01	225.93	225.90	225.82	
21	225.98	228.37	226.29	226.23	226.85	227.40	227.28	226.20	226.00	225.95	225.92	225.83	
22	225.97	228.40	226.27	227.37	228.14	227.78	227.20	226.18	226.00	225.98	225.93	225.82	
23	226.00	227.79	226.27	226.39	227.77	232.12	227.17	226.15	226.00	226.02	225.92	225.83	
24	226.00	227.52	226.43	227.11	227.76	229.21	227.14	226.14	226.00	226.02	225.92	225.83	
25	226.45	228.57	226.65	226.92	227.88	228.59	227.07	226.15	225.99	226.01	225.92	225.83	
26	227.78	229.47	226.44	226.32	228.28	232.02	226.98	226.14	225.99	226.05	225.92	225.83	
27	227.49	227.85	226.31	226.18	227.73	231.06	226.99	226.13	225.99	226.04	225.90	225.83	
28	227.34	227.26	226.31	226.13	226.99	230.26	226.94	226.12	225.99	226.00	225.89	225.82	
29	228.39	228.24	226.28	226.10	227.17	228.68	226.88	226.11	225.98	226.00		225.83	
30	229.34	230.40	226.25	226.11	227.55	228.73	226.81	226.10	225.98	225.98		225.81	
31		231.87		226.15	230.06		226.71		225.98	225.96		225.81	
Mean	226.53	227.99	226.66	226.37	226.96	229.24	228.63	226.29	226.02	225.98	225.97	225.84	
Max	229.34	231.87	229.25	227.37	230.06	232.38	236.34	226.67	226.09	226.05	226.35	225.88	236.34
Min	225.97	226.03	226.25	226.10	226.05	227.14	226.71	226.10	225.98	225.93	225.89	225.81	225.81
Annual Max Momentary Gage Height		236.66	m. (MSL.) ,				at 16.00 Hours, on Oct 3, 2009						
Zero Gage at Bottom Elevation		225.00	m. (MSL.) ,			River Bed	223.29	m. (MSL)					
Left Bank Elevation		235.26	m. (MSL.) ,										
Right Bank Elevation		233.19	m. (MSL.) ,			Drainage Area	949	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.14	32.40	35.00	2.26	2.02	104.64	67.20	4.42	1.63	1.15	1.07	0.90	
2	3.31	9.90	15.90	2.16	2.35	62.00	148.32	4.18	1.63	1.15	1.05	0.90	
3	2.16	4.18	11.00	2.02	2.11	26.78	224.00	3.74	1.58	1.15	1.02	0.90	
4	1.68	3.22	7.00	1.92	1.87	28.04	188.40	3.55	1.63	1.18	1.02	0.85	
5	1.44	2.59	5.71	1.97	1.68	29.44	69.60	3.36	1.49	1.13	1.05	0.85	
6	1.34	2.11	5.14	4.99	1.58	22.30	33.80	3.31	1.49	1.10	1.15	0.85	
7	2.98	2.50	4.75	3.94	1.49	47.60	23.28	3.17	1.44	1.13	2.30	0.85	
8	2.06	1.58	4.37	2.78	1.44	51.20	17.68	3.02	1.39	1.18	2.88	0.83	
9	1.73	1.34	4.13	2.30	1.44	25.80	14.50	2.88	1.39	1.25	2.02	0.87	
10	1.34	4.51	3.65	2.16	1.49	14.50	13.10	2.83	1.39	1.30	1.44	0.85	
11	1.25	7.90	3.22	1.92	1.63	10.10	11.30	2.83	1.39	1.34	1.39	0.87	
12	3.31	3.46	3.12	1.87	1.58	7.40	11.80	2.83	1.34	1.20	1.13	0.87	
13	4.08	16.00	2.98	3.50	2.30	21.46	14.60	2.64	1.30	1.13	1.07	0.90	
14	4.80	37.80	2.88	4.94	12.90	52.60	13.10	2.40	1.30	1.13	1.05	0.83	
15	2.88	20.62	2.83	4.27	10.50	43.80	55.20	2.45	1.30	1.10	1.00	0.80	
16	2.06	41.60	3.02	3.12	4.61	17.68	39.00	2.54	1.30	1.07	0.98	0.77	
17	1.97	27.76	3.70	2.54	4.37	14.90	19.22	2.45	1.25	1.05	0.98	0.75	
18	2.06	22.02	4.32	2.40	8.30	51.60	16.28	2.35	1.25	1.07	0.95	0.77	
19	1.34	37.80	3.60	2.21	7.70	48.00	12.70	2.30	1.25	1.02	0.95	0.77	
20	1.20	35.20	2.83	2.06	5.95	18.52	9.60	2.26	1.25	1.02	0.95	0.75	
21	1.15	21.18	2.59	2.30	5.28	10.00	8.80	2.16	1.20	1.07	1.00	0.77	
22	1.13	21.60	2.50	9.70	17.96	13.80	8.00	2.06	1.20	1.15	1.02	0.75	
23	1.20	13.90	2.50	3.07	13.70	97.36	7.70	1.92	1.20	1.30	1.00	0.77	
24	1.20	11.20	3.26	7.10	13.60	34.20	7.40	1.87	1.20	1.30	1.00	0.77	
25	3.36	23.98	4.32	5.62	14.80	24.26	6.70	1.92	1.18	1.25	1.00	0.77	
26	13.80	39.40	3.31	2.74	19.92	94.56	5.90	1.87	1.18	1.44	1.00	0.77	
27	10.90	14.50	2.69	2.06	13.30	71.44	5.95	1.82	1.18	1.39	0.95	0.77	
28	9.40	8.60	2.69	1.82	5.95	55.20	5.71	1.78	1.18	1.20	0.92	0.75	
29	21.46	19.36	2.54	1.68	7.70	25.52	5.42	1.73	1.15	1.20		0.77	
30	36.80	58.00	2.40	1.73	11.50	26.22	5.09	1.68	1.15	1.15		0.72	
31		90.88		1.92	51.20		4.61		1.15	1.10		0.72	
Total	148.53	637.09	157.95	95.07	252.22	1150.92	1073.96	78.32	40.96	36.40	33.34	25.06	3729.82 CMSDAY
Mean	4.95	20.55	5.26	3.07	8.14	38.36	34.64	2.61	1.32	1.17	1.19	0.81	10.22 CMS
Max	36.80	90.88	35.00	9.70	51.20	104.64	224.00	4.42	1.63	1.44	2.88	0.90	224.00 CMS
Min	1.13	1.34	2.40	1.68	1.44	7.40	4.61	1.68	1.15	1.02	0.92	0.72	0.72 CMS
Runoff	12.83	55.05	13.65	8.21	21.79	99.44	92.79	6.77	3.54	3.15	2.88	2.17	322.26 MCM
Momentary Peak	241.60 CMS, at 236.66 m. (MSL), at 16.00 Hours, on Oct 3, 2009												
Runoff Yield	10.77 Liters/Second/Square KM.			Momentary Peak Yield			254.584 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Chi River at Ban Nong O , Chaiphaphum (E.32A)

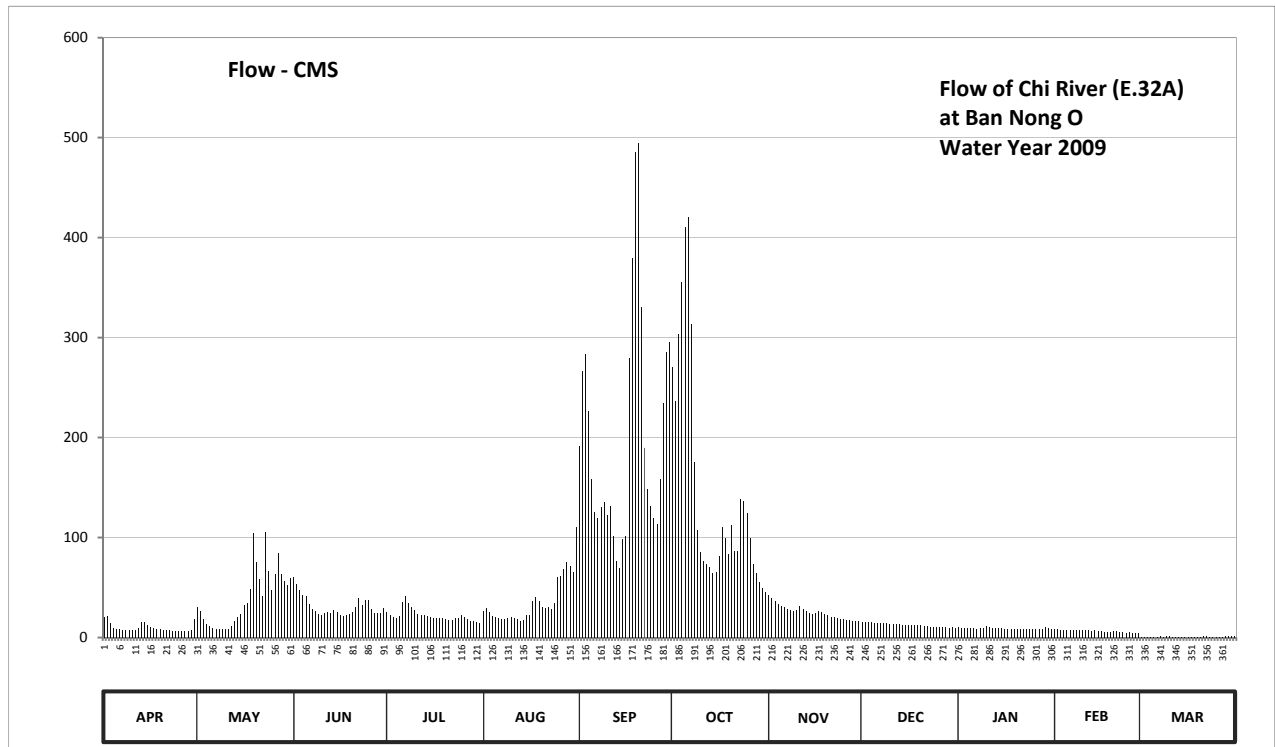
Lat 15 - 54 - 41 N Long 101 - 42 - 42 E

Location : on right bank about 500 meters north of Ban Nong O from about 600 meters upstream from E.32 gaging station.

	Ban Nong O	Amphoe Ban Khwao	Changwat	Chaiphaphum
Drainage Area	2,867	sq.km.		
Type of Gage	Water - stage recorder			
Zero Gage at Bottom	+198.000 m. (MSL.)			
Bench Mark	B.M.- H.D.			
Location BM	On right bank at the measuring line.		Elevation	+210.661 m. (MSL.)
Gage Reading Frequency	Recording			
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings			
Period of Available Gage Records	1966 to date			
Rating Operation				
Period of Rating	1968 to date			
Rated by Flot	-			
Rated by Current Meter	1968 to date			
Stability of Channel Regimes	Stable.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2009.			

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	199.51	200.04	201.35	199.77	199.84	205.90	207.26	200.56	199.29	199.01	198.84	198.57	
2	199.57	199.83	201.08	199.60	199.97	207.21	206.79	200.42	199.28	198.99	198.79	198.73	
3	199.22	199.42	200.79	199.52	199.76	207.42	207.67	200.27	199.27	198.98	198.78	199.18	
4	198.99	199.17	200.55	199.45	199.58	206.63	208.25	200.17	199.25	198.97	198.77	199.16	
5	198.89	199.05	200.52	199.59	199.51	204.94	208.81	200.08	199.24	198.94	198.77	199.15	
6	198.82	198.95	200.16	200.23	199.45	203.85	208.91	200.01	199.24	198.91	198.75	199.16	
7	198.76	198.88	199.90	200.53	199.41	203.64	207.79	199.93	199.22	198.90	198.75	199.21	
8	198.75	198.83	199.84	200.21	199.40	204.02	205.48	199.86	199.22	198.91	198.75	199.16	
9	198.78	198.81	199.69	200.04	199.45	204.19	203.18	199.82	199.20	198.97	198.74	199.20	
10	198.78	198.80	199.61	199.86	199.50	203.73	202.37	199.85	199.19	199.05	198.71	199.23	
11	198.78	198.84	199.74	199.68	199.48	204.04	202.02	200.06	199.18	199.02	198.71	199.19	
12	198.99	199.06	199.79	199.64	199.40	203.00	201.89	199.90	199.17	198.97	198.71	199.17	
13	199.25	199.31	199.71	199.60	199.35	202.00	201.76	199.80	199.16	198.96	198.68	199.09	
14	199.29	199.52	199.85	199.57	199.39	201.73	201.50	199.71	199.15	198.94	198.71	199.02	
15	199.12	199.67	199.77	199.52	199.64	202.88	201.58	199.69	199.13	198.93	198.68	199.15	
16	199.04	200.13	199.60	199.48	199.61	202.99	202.20	199.73	199.12	198.89	198.65	199.18	
17	198.96	200.22	199.57	199.46	200.31	207.37	203.31	199.82	199.12	198.89	198.64	199.18	
18	198.87	200.84	199.60	199.47	200.47	208.49	202.89	199.79	199.11	198.88	198.63	199.16	
19	198.82	203.09	199.67	199.45	200.28	209.38	202.29	199.69	199.10	198.84	198.64	199.15	
20	198.75	201.98	199.77	199.42	200.04	209.44	203.38	199.62	199.10	198.83	198.65	199.18	
21	198.73	201.27	200.00	199.37	199.96	208.00	202.41	199.55	199.07	198.83	198.66	199.20	
22	198.71	200.54	200.44	199.38	200.02	205.86	202.39	199.50	199.05	198.85	198.63	199.20	
23	198.69	203.12	200.12	199.46	199.94	204.62	204.29	199.47	199.03	198.87	198.61	199.18	
24	198.68	201.60	200.35	199.48	200.22	204.05	204.21	199.44	199.03	198.87	198.58	199.17	
25	198.67	200.81	200.35	199.64	201.34	203.63	203.81	199.42	199.03	198.90	198.59	199.15	
26	198.67	201.46	199.91	199.54	201.39	203.40	202.91	199.39	199.03	198.88	198.58	199.14	
27	198.66	202.32	199.74	199.41	201.67	204.93	201.91	199.37	199.02	198.85	198.57	199.17	
28	198.66	201.47	199.75	199.34	201.97	206.76	201.54	199.35	199.01	198.87	198.57	199.22	
29	198.78	201.18	199.75	199.31	201.80	207.44	201.13	199.33	198.99	199.00		199.20	
30	199.42	201.04	199.99	199.26	201.57	207.57	200.87	199.31	199.01	198.91		199.22	
31		201.31		199.21	203.32		200.69		198.99	198.86		199.20	
Mean	198.92	200.34	200.03	199.60	200.23	205.30	203.73	199.76	199.13	198.92	198.68	199.14	
Max	199.57	203.12	201.35	200.53	203.32	209.44	208.91	200.56	199.29	199.05	198.84	199.23	209.44
Min	198.66	198.80	199.57	199.21	199.35	201.73	200.69	199.31	198.99	198.83	198.57	198.57	198.57
Annual Max Momentary Gage Height		209.64		m. (MSL.) ,			at 03.00 Hours, on Sep 20, 2009						
Zero Gage at Bottom Elevation		198.00		m. (MSL.) ,		River Bed	196.14		m. (MSL)				
Left Bank Elevation			210.28		m. (MSL.) ,								
Right Bank Elevation			211.17		m. (MSL.) ,	Drainage Area	2867		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.20	30.88	60.40	25.40	26.80	191.20	270.80	42.32	15.80	10.20	8.40	0.27	
2	21.40	26.60	53.92	22.00	29.40	266.80	236.56	39.24	15.60	9.90	7.90	0.43	
3	14.40	18.40	47.38	20.40	25.20	283.60	303.60	35.94	15.40	9.80	7.80	0.96	
4	9.90	13.40	42.10	19.00	21.60	226.32	355.00	33.74	15.00	9.70	7.70	0.92	
5	8.90	11.00	41.44	21.80	20.20	158.20	411.00	31.76	14.80	9.40	7.70	0.90	
6	8.20	9.50	33.52	35.06	19.00	125.80	421.00	30.22	14.80	9.10	7.50	0.92	
7	7.60	8.80	28.00	41.66	18.20	119.92	313.20	28.60	14.40	9.00	7.50	1.10	
8	7.50	8.30	26.80	34.62	18.00	130.60	175.36	27.20	14.40	9.10	7.50	0.92	
9	7.80	8.10	23.80	30.88	19.00	135.70	107.04	26.40	14.00	9.70	7.40	1.00	
10	7.80	8.00	22.20	27.20	20.00	122.44	85.62	27.00	13.80	11.00	7.10	1.30	
11	7.80	8.40	24.80	23.60	19.60	131.20	76.52	31.32	13.60	10.40	7.10	0.98	
12	9.90	11.20	25.80	22.80	18.00	102.00	73.36	28.00	13.40	9.70	7.10	0.94	
13	15.00	16.20	24.20	22.00	17.00	76.00	70.24	26.00	13.20	9.60	6.65	0.79	
14	15.80	20.40	27.00	21.40	17.80	69.52	64.00	24.20	13.00	9.40	7.10	0.72	
15	12.40	23.40	25.40	20.40	22.80	98.88	65.92	23.80	12.60	9.30	6.65	0.90	
16	10.80	32.86	22.00	19.60	22.20	101.74	81.20	24.60	12.40	8.90	6.12	0.96	
17	9.60	34.84	21.40	19.20	36.82	279.60	110.68	26.40	12.40	8.90	5.95	0.96	
18	8.70	48.48	22.00	19.40	40.34	379.00	99.14	25.80	12.20	8.80	5.78	0.92	
19	8.20	104.52	23.40	19.00	36.16	485.48	83.54	23.80	12.00	8.40	5.95	0.90	
20	7.50	75.52	25.40	18.40	30.88	494.24	112.64	22.40	12.00	8.30	6.12	0.96	
21	7.30	58.48	30.00	17.40	29.20	330.00	86.66	21.00	11.40	8.30	6.30	1.00	
22	7.10	41.88	39.68	17.60	30.44	189.68	86.14	20.00	11.00	8.50	5.78	1.00	
23	6.83	105.36	32.64	19.20	28.80	148.60	138.70	19.40	10.60	8.70	5.43	0.96	
24	6.65	66.40	37.70	19.60	34.84	131.50	136.30	18.80	10.60	8.70	4.90	0.94	
25	6.48	47.82	37.70	22.80	60.16	119.64	124.68	18.40	10.60	9.00	5.07	0.90	
26	6.48	63.04	28.20	20.80	61.36	113.20	99.66	17.80	10.60	8.80	4.90	0.88	
27	6.30	84.32	24.80	18.20	68.08	157.90	73.84	17.40	10.40	8.50	4.73	0.94	
28	6.30	63.28	25.00	16.80	75.28	234.64	64.96	17.00	10.20	8.70	4.73	1.20	
29	7.80	56.32	25.00	16.20	71.20	285.20	55.12	16.60	9.90	10.00		1.00	
30	18.40	52.96	29.80	15.20	65.68	295.60	49.14	16.20	10.20	9.10		1.20	
31		59.44		14.20	110.96		45.18		9.90	8.60		1.00	
Total	299.04	1218.10	931.48	681.82	1115.00	5984.20	4476.80	761.34	390.20	285.50	182.86	28.77	16355.11 CMSDAY
Mean	9.97	39.29	31.05	21.99	35.97	199.47	144.41	25.38	12.59	9.21	6.53	0.93	44.81 CMS
Max	21.40	105.36	60.40	41.66	110.96	494.24	421.00	42.32	15.80	11.00	8.40	1.30	494.24 CMS
Min	6.30	8.00	21.40	14.20	17.00	69.52	45.18	16.20	9.90	8.30	4.73	0.27	0.27 CMS
Runoff	25.84	105.24	80.48	58.91	96.34	517.04	386.80	65.78	33.71	24.67	15.80	2.49	1413.08 MCM
Momentary Peak	532.96 CMS, at 209.64 m. (MSL), at 03.00 Hours, on Sep 20, 2009												
Runoff Yield	15.63 Liters/Second/Square KM.			Momentary Peak Yield			185,895 Liters/Second/Square KM.						

WATER YEAR : 2009**CHI RIVER BASIN**

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

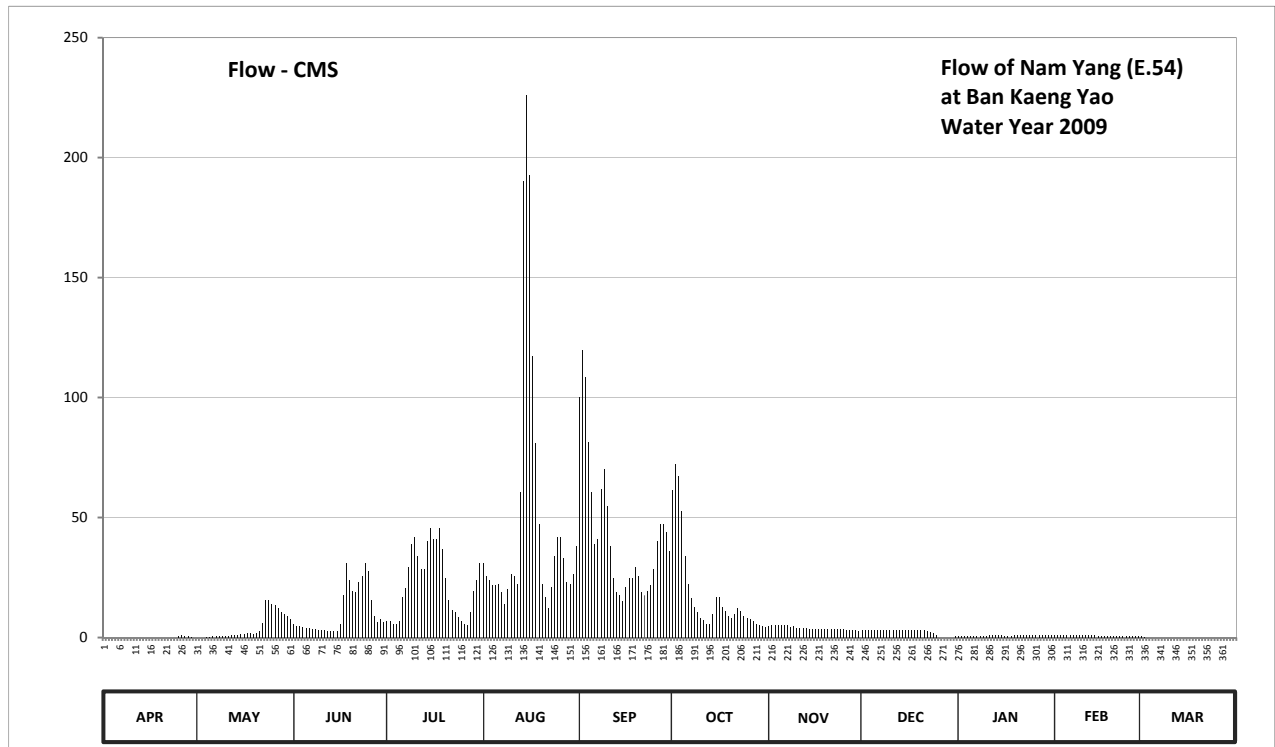
Lat 16 - 26 - 28 N Long 104 - 02 - 05 E

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

	Ban Kaeng Yao	Amphoe Kuchinarai	Changwat Kalasin
Drainage Area	1,548 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+138.340 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+149.988 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1969 to date		
Rating Operation			
Period of Rating	1969 - 1977 , 1983 to date		
Rated by Flot	-		
Rated by Current Meter	1969 - 1977 , 1983 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.47	140.19	140.45	140.50	140.89	141.80	141.13	140.43	140.36	140.24	140.26	140.24	
2	139.74	140.20	140.43	140.49	140.83	142.10	141.33	140.44	140.36	140.24	140.26	140.22	
3	140.04	140.20	140.42	140.46	140.81	141.94	141.24	140.44	140.36	140.24	140.26	140.20	
4	140.08	140.21	140.41	140.46	140.78	141.49	141.06	140.44	140.36	140.24	140.26	140.19	
5	140.09	140.22	140.40	140.50	140.78	141.11	140.92	140.44	140.36	140.24	140.26	140.17	
6	140.10	140.23	140.39	140.70	140.79	140.97	140.79	140.44	140.36	140.24	140.26	140.15	
7	140.10	140.23	140.38	140.76	140.73	140.99	140.69	140.44	140.36	140.24	140.26	140.13	
8	140.11	140.24	140.37	140.87	140.65	141.14	140.63	140.41	140.36	140.24	140.26	140.08	
9	140.11	140.24	140.36	140.97	140.75	141.29	140.59	140.42	140.36	140.24	140.26	139.96	
10	140.12	140.24	140.35	141.00	140.84	141.07	140.53	140.40	140.36	140.24	140.26	139.88	
11	140.13	140.24	140.35	140.92	140.83	140.96	140.51	140.40	140.35	140.25	140.26	139.83	
12	140.13	140.25	140.34	140.86	140.79	140.82	140.46	140.40	140.35	140.26	140.26	139.80	
13	140.13	140.26	140.33	140.86	141.11	140.73	140.45	140.40	140.35	140.26	140.26	139.78	
14	140.14	140.26	140.33	140.98	143.03	140.71	140.57	140.38	140.35	140.26	140.26	139.73	
15	140.14	140.27	140.33	141.02	143.47	140.67	140.70	140.38	140.35	140.25	140.24	139.61	
16	140.14	140.28	140.46	140.99	143.06	140.77	140.70	140.38	140.35	140.24	140.24	139.51	
17	140.15	140.29	140.71	140.99	142.07	140.82	140.63	140.38	140.35	140.24	140.24	139.35	
18	140.14	140.29	140.89	141.02	141.48	140.82	140.60	140.38	140.35	140.24	140.24	139.34	
19	140.14	140.28	140.81	140.95	141.03	140.87	140.55	140.38	140.35	140.25	140.24	139.33	
20	140.13	140.30	140.74	140.82	140.79	140.83	140.53	140.38	140.35	140.25	140.24	139.30	
21	140.10	140.34	140.73	140.68	140.70	140.73	140.57	140.38	140.36	140.26	140.23	139.29	
22	140.08	140.47	140.80	140.61	140.62	140.71	140.62	140.38	140.34	140.26	140.23	139.15	
23	140.15	140.68	140.83	140.59	140.77	140.74	140.60	140.38	140.32	140.26	140.23	139.03	
24	140.20	140.68	140.89	140.54	140.92	140.78	140.55	140.38	140.30	140.25	140.24	138.83	
25	140.23	140.65	140.85	140.50	141.00	140.86	140.53	140.38	140.26	140.26	140.24	138.75	
26	140.25	140.64	140.68	140.46	141.00	140.98	140.52	140.36	140.20	140.26	140.24	138.71	
27	140.24	140.62	140.55	140.44	140.91	141.03	140.49	140.36	140.16	140.26	140.24	138.68	
28	140.23	140.59	140.48	140.59	140.80	141.03	140.46	140.35	140.14	140.26	140.24	138.67	
29	140.21	140.57	140.52	140.74	140.79	141.01	140.44	140.35	140.15	140.26		138.65	
30	140.19	140.55	140.48	140.81	140.84	140.94	140.42	140.34	140.19	140.26		138.62	
31		140.52		140.89	140.96		140.41		140.23	140.26		138.60	
Mean	140.11	140.36	140.54	140.74	141.12	141.02	140.65	140.39	140.31	140.25	140.25	139.48	
Max	140.25	140.68	140.89	141.02	143.47	142.10	141.33	140.44	140.36	140.26	140.26	140.24	143.47
Min	139.47	140.19	140.33	140.44	140.62	140.67	140.41	140.34	140.14	140.24	140.23	138.60	138.60
Annual Max Momentary Gage Height	143.54		m. (MSL.) ,			at 06.00 Hours, on Aug 15, 2009							
Zero Gage at Bottom Elevation	138.34		m. (MSL.) ,			River Bed	138.02		m. (MSL)				
Left Bank Elevation		146.70		m. (MSL.) ,									
Right Bank Elevation		146.86		m. (MSL.) ,		Drainage Area	1548		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	5.50	7.00	31.10	100.00	61.50	4.90	3.20	0.80	1.20	0.80	
2	0.00	0.00	4.90	6.70	25.70	119.60	72.37	5.20	3.20	0.80	1.20	0.40	
3	0.00	0.00	4.60	5.80	23.90	108.40	67.27	5.20	3.20	0.80	1.20	0.00	
4	0.00	0.20	4.30	5.80	21.80	81.43	52.80	5.20	3.20	0.80	1.20	0.00	
5	0.00	0.40	4.00	7.00	21.80	60.50	34.00	5.20	3.20	0.80	1.20	0.00	
6	0.00	0.60	3.80	17.00	22.40	39.00	22.40	5.20	3.20	0.80	1.20	0.00	
7	0.00	0.60	3.60	20.60	18.80	41.00	16.40	5.20	3.20	0.80	1.20	0.00	
8	0.00	0.80	3.40	29.30	14.00	62.00	12.80	4.30	3.20	0.80	1.20	0.00	
9	0.00	0.80	3.20	39.00	20.00	70.10	10.60	4.60	3.20	0.80	1.20	0.00	
10	0.00	0.80	3.00	42.00	26.60	54.60	8.20	4.00	3.20	0.80	1.20	0.00	
11	0.00	0.80	3.00	34.00	25.70	38.00	7.40	4.00	3.00	1.00	1.20	0.00	
12	0.00	1.00	2.80	28.40	22.40	24.80	5.80	4.00	3.00	1.20	1.20	0.00	
13	0.00	1.20	2.60	28.40	60.50	18.80	5.50	4.00	3.00	1.20	1.20	0.00	
14	0.00	1.20	2.60	40.00	190.43	17.60	9.80	3.60	3.00	1.20	1.20	0.00	
15	0.00	1.40	2.60	45.60	226.07	15.20	17.00	3.60	3.00	1.00	0.80	0.00	
16	0.00	1.60	5.80	41.00	192.86	21.20	17.00	3.60	3.00	0.80	0.80	0.00	
17	0.00	1.80	17.60	41.00	117.32	24.80	12.80	3.60	3.00	0.80	0.80	0.00	
18	0.00	1.80	31.10	45.60	80.87	24.80	11.00	3.60	3.00	0.80	0.80	0.00	
19	0.00	1.60	23.90	37.00	47.40	29.30	9.00	3.60	3.00	1.00	0.80	0.00	
20	0.00	2.00	19.40	24.80	22.40	25.70	8.20	3.60	3.00	1.00	0.80	0.00	
21	0.00	2.80	18.80	15.80	17.00	18.80	9.80	3.60	3.20	1.20	0.60	0.00	
22	0.00	6.10	23.00	11.60	12.20	17.60	12.20	3.60	2.80	1.20	0.60	0.00	
23	0.00	15.80	25.70	10.60	21.20	19.40	11.00	3.60	2.40	1.20	0.60	0.00	
24	0.00	15.80	31.10	8.60	34.00	21.80	9.00	3.60	2.00	1.00	0.80	0.00	
25	0.60	14.00	27.50	7.00	42.00	28.40	8.20	3.60	1.20	1.20	0.80	0.00	
26	1.00	13.40	15.80	5.80	42.00	40.00	7.80	3.20	0.00	1.20	0.80	0.00	
27	0.80	12.20	9.00	5.20	33.00	47.40	6.70	3.20	0.00	1.20	0.80	0.00	
28	0.60	10.60	6.40	10.60	23.00	47.40	5.80	3.00	0.00	1.20	0.80	0.00	
29	0.20	9.80	7.80	19.40	22.40	43.80	5.20	3.00	0.00	1.20		0.00	
30	0.00	9.00	6.40	23.90	26.60	36.00	4.60	2.80	0.00	1.20		0.00	
31		7.80		31.10	38.00		4.30		0.60	1.20		0.00	
Total	3.20	135.90	323.20	695.60	1523.45	1297.43	546.44	119.40	74.20	31.00	27.40	1.20	4778.42 CMSDAY
Mean	0.11	4.38	10.77	22.44	49.14	43.25	17.63	3.98	2.39	1.00	0.98	0.04	13.09 CMS
Max	1.00	15.80	31.10	45.60	226.07	119.60	72.37	5.20	3.20	1.20	1.20	0.80	226.07 CMS
Min	0.00	0.00	2.60	5.20	12.20	15.20	4.30	2.80	0.00	0.80	0.60	0.00	0.00 CMS
Runoff	0.28	11.74	27.92	60.10	131.63	112.10	47.21	10.32	6.41	2.68	2.37	0.10	412.86 MCM
Momentary Peak	231.74 CMS, at 143.54 m. (MSL), at 06.00 Hours, on Aug 15, 2009												
Runoff Yield	8.46 Liters/Second/Square KM.			Momentary Peak Yield			149,703 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Nam Yang at Ban Kut Chim Khum Yai , Kalasin (E.57)

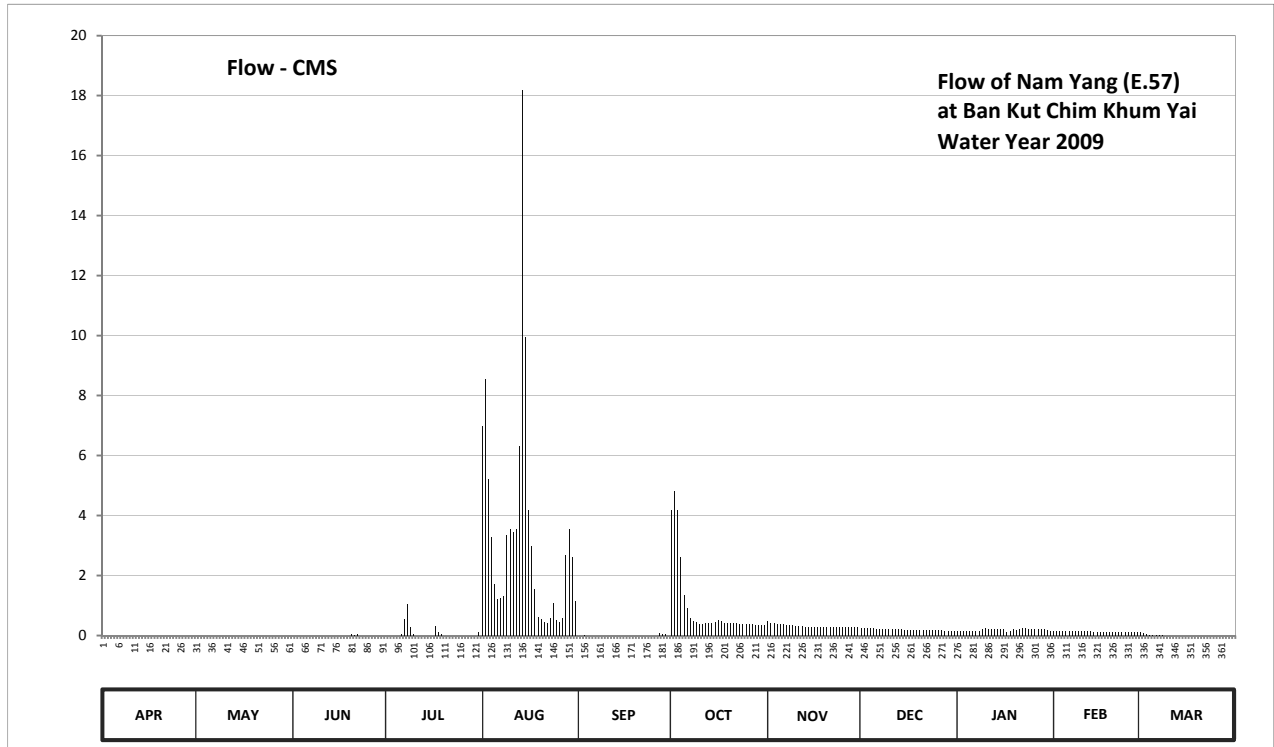
Lat 16 - 41 - 02 N Long 104 - 05 - 06 E

Location : on right bank at the bridge on highway Ban Kut Chim Khum Yai.

	Ban	Kut Chim Khum Yai	Amphoe	Khao Wong	Changwat	Kalasin
Drainage Area	103	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+170.100 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+177.855 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1969 - 1971 , 1983 to date					
Rating Operation						
Period of Rating	1969 - 1970 , 1984 to date					
Rated by Flot	-					
Rated by Current Meter	1969 - 1970 , 1984 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. The local weir situated about 100 meters from the gage site. Stage-discharge relation defined by 18 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	169.94	169.94	169.32	169.53	171.39	169.73	171.13	170.47	170.26	170.16	170.16	170.10	
2	169.94	169.93	169.28	169.51	171.51	169.93	171.20	170.43	170.26	170.16	170.15	170.08	
3	169.94	169.92	169.26	169.59	171.24	170.02	171.13	170.40	170.25	170.16	170.15	170.05	
4	169.94	169.91	169.24	169.67	171.03	169.86	170.95	170.39	170.24	170.16	170.15	170.03	
5	169.94	169.90	169.24	169.88	170.84	169.74	170.79	170.38	170.24	170.15	170.14	170.02	
6	169.94	169.89	169.24	170.06	170.76	169.90	170.70	170.37	170.22	170.15	170.14	170.02	
7	169.94	169.89	169.23	170.53	170.77	169.95	170.59	170.36	170.21	170.15	170.14	170.01	
8	169.94	169.91	169.23	170.73	170.78	169.92	170.48	170.35	170.21	170.15	170.14	170.01	
9	169.94	169.92	169.22	170.29	171.04	169.77	170.44	170.34	170.20	170.22	170.13	170.00	
10	169.94	169.91	169.22	170.06	171.06	169.61	170.39	170.33	170.20	170.24	170.13	170.00	
11	169.94	169.89	169.22	169.87	171.05	169.61	170.37	170.32	170.20	170.23	170.13	169.98	
12	169.94	169.88	169.21	169.80	171.06	169.59	170.40	170.31	170.20	170.22	170.13	169.95	
13	169.94	169.87	169.21	169.74	171.34	169.55	170.40	170.30	170.20	170.21	170.13	169.93	
14	169.94	169.86	169.20	169.71	172.07	169.49	170.40	170.30	170.20	170.21	170.12	169.92	
15	169.94	169.85	169.20	169.77	171.61	169.44	170.46	170.30	170.19	170.21	170.12	169.91	
16	169.94	169.85	169.23	169.82	171.13	169.41	170.51	170.29	170.19	170.21	170.12	169.90	
17	169.94	169.83	169.39	170.32	171.00	169.40	170.49	170.29	170.19	170.11	170.12	169.87	
18	169.94	169.83	169.48	170.10	170.82	169.41	170.41	170.29	170.18	170.15	170.12	169.86	
19	169.94	169.81	169.69	170.04	170.61	169.40	170.41	170.29	170.18	170.20	170.11	169.84	
20	169.94	169.80	170.06	169.91	170.53	169.39	170.40	170.28	170.18	170.19	170.11	169.83	
21	169.94	169.75	170.01	169.76	170.46	169.39	170.40	170.28	170.18	170.21	170.11	169.83	
22	169.94	169.59	170.05	169.70	170.42	169.60	170.40	170.28	170.17	170.25	170.11	169.83	
23	169.94	169.54	169.87	169.73	170.59	169.68	170.39	170.28	170.17	170.24	170.10	169.83	
24	169.94	169.45	169.69	169.74	170.74	169.84	170.39	170.27	170.17	170.23	170.10	169.83	
25	169.94	169.34	169.60	169.66	170.52	169.81	170.39	170.29	170.17	170.23	170.10	169.82	
26	169.94	169.31	169.50	169.57	170.45	169.86	170.38	170.29	170.17	170.23	170.10	169.82	
27	169.94	169.30	169.50	169.49	170.59	170.07	170.38	170.28	170.17	170.23	170.10	169.81	
28	169.94	169.30	169.51	169.42	170.96	170.06	170.36	170.28	170.16	170.22	170.10	169.81	
29	169.94	169.30	169.52	169.35	171.06	170.05	170.36	170.28	170.16	170.21		169.80	
30	169.94	169.30	169.55	169.50	170.95	169.92	170.36	170.27	170.16	170.17		169.80	
31	169.94	169.30	170.12	170.75	170.75		170.35		170.16	170.16		169.80	
Mean	169.94	169.71	169.44	169.84	170.94	169.71	170.52	170.32	170.19	170.19	170.12	169.91	
Max	169.94	169.94	170.06	170.73	172.07	170.07	171.20	170.47	170.26	170.25	170.16	170.10	172.07
Min	169.94	169.30	169.20	169.35	170.42	169.39	170.35	170.27	170.16	170.11	170.10	169.80	169.20
Annual Max Momentary Gage Height		172.15		m. (MSL.) ,			at 06.00 Hours, on Aug 14, 2009						
Zero Gage at Bottom Elevation		170.10		m. (MSL.) ,		River Bed	169.58		m. (MSL)				
Left Bank Elevation			177.36		m. (MSL.) ,								
Right Bank Elevation		177.02		m. (MSL.) ,		Drainage Area	103		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	6.97	0.00	4.17	0.47	0.26	0.16	0.16	0.10	
2	0.00	0.00	0.00	0.00	8.54	0.00	4.80	0.43	0.26	0.16	0.15	0.08	
3	0.00	0.00	0.00	0.00	5.20	0.02	4.17	0.40	0.25	0.16	0.15	0.05	
4	0.00	0.00	0.00	0.00	3.27	0.00	2.60	0.39	0.24	0.16	0.15	0.03	
5	0.00	0.00	0.00	0.00	1.72	0.00	1.35	0.38	0.24	0.15	0.14	0.02	
6	0.00	0.00	0.00	0.06	1.20	0.00	0.90	0.37	0.22	0.15	0.14	0.02	
7	0.00	0.00	0.00	0.53	1.25	0.00	0.59	0.36	0.21	0.15	0.14	0.01	
8	0.00	0.00	0.00	1.05	1.30	0.00	0.48	0.35	0.21	0.15	0.14	0.01	
9	0.00	0.00	0.00	0.29	3.36	0.00	0.44	0.34	0.20	0.22	0.13	0.00	
10	0.00	0.00	0.00	0.06	3.54	0.00	0.39	0.33	0.20	0.24	0.13	0.00	
11	0.00	0.00	0.00	0.00	3.45	0.00	0.37	0.32	0.20	0.23	0.13	0.00	
12	0.00	0.00	0.00	0.00	3.54	0.00	0.40	0.31	0.20	0.22	0.13	0.00	
13	0.00	0.00	0.00	0.00	6.32	0.00	0.40	0.30	0.20	0.21	0.13	0.00	
14	0.00	0.00	0.00	0.00	18.20	0.00	0.40	0.30	0.20	0.21	0.12	0.00	
15	0.00	0.00	0.00	0.00	9.94	0.00	0.46	0.30	0.19	0.21	0.12	0.00	
16	0.00	0.00	0.00	0.00	4.17	0.00	0.51	0.29	0.19	0.21	0.12	0.00	
17	0.00	0.00	0.00	0.32	3.00	0.00	0.49	0.29	0.19	0.11	0.12	0.00	
18	0.00	0.00	0.00	0.10	1.56	0.00	0.41	0.29	0.18	0.15	0.12	0.00	
19	0.00	0.00	0.00	0.04	0.63	0.00	0.41	0.29	0.18	0.20	0.11	0.00	
20	0.00	0.00	0.06	0.00	0.53	0.00	0.40	0.28	0.18	0.19	0.11	0.00	
21	0.00	0.00	0.01	0.00	0.46	0.00	0.40	0.28	0.18	0.21	0.11	0.00	
22	0.00	0.00	0.05	0.00	0.42	0.00	0.40	0.28	0.17	0.25	0.11	0.00	
23	0.00	0.00	0.00	0.00	0.59	0.00	0.39	0.28	0.17	0.24	0.10	0.00	
24	0.00	0.00	0.00	0.00	1.10	0.00	0.39	0.27	0.17	0.23	0.10	0.00	
25	0.00	0.00	0.00	0.00	0.52	0.00	0.39	0.29	0.17	0.23	0.10	0.00	
26	0.00	0.00	0.00	0.00	0.45	0.00	0.38	0.29	0.17	0.23	0.10	0.00	
27	0.00	0.00	0.00	0.00	0.59	0.07	0.38	0.28	0.17	0.23	0.10	0.00	
28	0.00	0.00	0.00	0.00	2.68	0.06	0.36	0.28	0.16	0.22	0.10	0.00	
29	0.00	0.00	0.00	0.00	3.54	0.05	0.36	0.28	0.16	0.21	0.10	0.00	
30	0.00	0.00	0.00	0.00	2.60	0.00	0.36	0.27	0.16	0.17	0.10	0.00	
31	0.00	0.00	0.00	0.12	1.15	0.00	0.35	0.27	0.16	0.16	0.10	0.00	
Total	0.00	0.00	0.12	2.57	101.79	0.20	28.30	9.59	6.04	6.02	3.46	0.32	158.41 CMSDAY
Mean	0.00	0.00	0.00	0.08	3.28	0.01	0.91	0.32	0.19	0.19	0.12	0.01	0.43 CMS
Max	0.00	0.00	0.06	1.05	18.20	0.07	4.80	0.47	0.26	0.25	0.16	0.10	18.20 CMS
Min	0.00	0.00	0.00	0.00	0.42	0.00	0.35	0.27	0.16	0.11	0.10	0.00	0.00 CMS
Runoff	0.00	0.00	0.01	0.22	8.80	0.02	2.45	0.83	0.52	0.52	0.30	0.03	13.69 MCM
Momentary Peak	19.90 CMS, at 172.15 m. (MSL), at 06.00 Hours, on Aug 14, 2009												
Runoff Yield	4.21 Liters/Second/Square KM.			Momentary Peak Yield			193,204 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Lam Phaniang at Ban Na Klang , Nong Bua Lamphu (E.64)

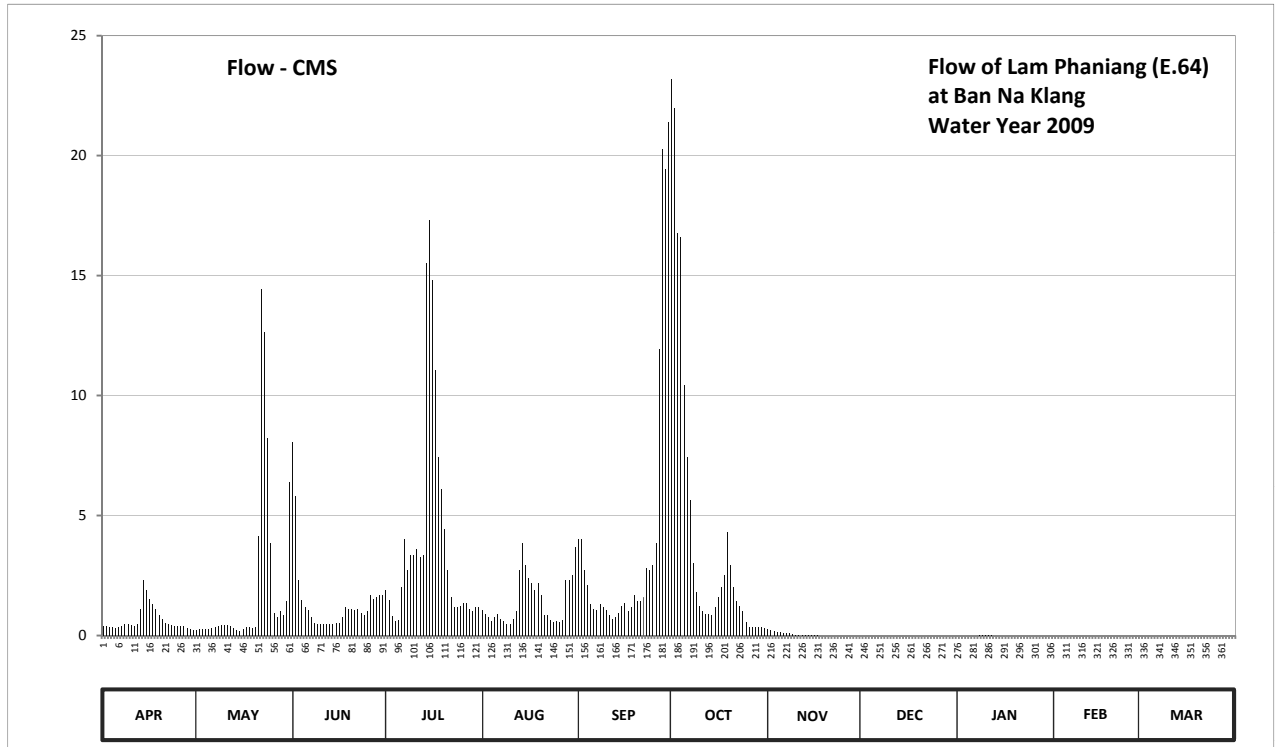
Lat 17 - 19 - 16 N Long 102 - 05 - 32 E

Location : on right bank at the bridge of Udon Thani - Loei Highway.

	Ban	Na Klang	Amphoe	Na Wang	Changwat	Nong Bua Lamphu
Drainage Area	362	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+254.473 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank downstream side at the footpath of the bridge.				Elevation	+261.680 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1979 - 1980 , 1997 to date					
Rated by Flot	-					
Rated by Current Meter	1979 - 1980 , 1997 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +258.390 m.(MSL.) , records are channel flow only.					
General Description	Records good. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.39	257.24	258.19	257.73	257.61	257.92	258.99	257.28	256.87	256.80	256.81	256.76	
2	257.40	257.27	258.04	257.68	257.58	257.92	258.95	257.24	256.87	256.80	256.81	256.75	
3	257.36	257.28	257.77	257.56	257.55	257.81	258.71	257.17	256.88	256.83	256.81	256.75	
4	257.33	257.26	257.68	257.52	257.52	257.75	258.70	257.14	256.87	256.88	256.81	256.75	
5	257.31	257.25	257.63	257.53	257.55	257.65	258.35	257.13	256.86	256.92	256.81	256.74	
6	257.35	257.29	257.61	257.74	257.58	257.62	258.15	257.12	256.85	256.96	256.80	256.74	
7	257.41	257.33	257.55	257.92	257.54	257.61	258.03	257.11	256.84	256.98	256.80	256.73	
8	257.47	257.39	257.50	257.81	257.52	257.65	257.84	257.10	256.83	257.01	256.80	256.73	
9	257.48	257.42	257.48	257.87	257.48	257.63	257.72	257.07	256.82	257.03	256.80	256.73	
10	257.43	257.44	257.47	257.87	257.48	257.61	257.64	257.03	256.82	257.01	256.80	256.72	
11	257.39	257.43	257.47	257.89	257.54	257.57	257.60	257.01	256.82	257.01	256.79	256.72	
12	257.46	257.38	257.46	257.86	257.60	257.54	257.58	257.02	256.82	257.01	256.79	256.72	
13	257.62	257.31	257.48	257.87	257.81	257.55	257.58	257.01	256.82	256.97	256.79	256.72	
14	257.77	257.24	257.49	258.64	257.91	257.59	257.57	257.01	256.82	256.92	256.79	256.72	
15	257.73	257.20	257.50	258.74	257.83	257.64	257.63	257.02	256.82	256.89	256.79	256.72	
16	257.69	257.26	257.50	258.60	257.78	257.66	257.70	257.02	256.82	256.87	256.79	256.71	
17	257.65	257.36	257.55	258.39	257.76	257.60	257.74	257.01	256.82	256.85	256.79	256.71	
18	257.62	257.37	257.63	258.15	257.73	257.63	257.79	257.00	256.82	256.83	256.78	256.71	
19	257.57	257.29	257.62	258.06	257.76	257.71	257.94	257.00	256.82	256.82	256.78	256.71	
20	257.54	257.35	257.62	257.95	257.71	257.67	257.83	256.99	256.82	256.82	256.77	256.71	
21	257.50	257.93	257.61	257.81	257.57	257.67	257.74	256.94	256.82	256.82	256.77	256.72	
22	257.47	258.58	257.62	257.70	257.57	257.70	257.67	256.91	256.82	256.82	256.77	256.73	
23	257.45	258.48	257.59	257.63	257.53	257.82	257.64	256.90	256.81	256.83	256.77	256.74	
24	257.41	258.20	257.57	257.63	257.51	257.81	257.60	256.89	256.81	256.83	256.77	256.75	
25	257.40	257.91	257.60	257.64	257.52	257.83	257.51	256.89	256.81	256.83	256.76	256.77	
26	257.38	257.59	257.71	257.66	257.51	257.91	257.36	256.88	256.81	256.83	256.76	256.77	
27	257.38	257.55	257.69	257.66	257.53	258.44	257.33	256.88	256.81	256.82	256.76	256.78	
28	257.30	257.60	257.70	257.62	257.77	258.89	257.35	256.87	256.80	256.82	256.76	256.78	
29	257.25	257.57	257.71	257.60	257.77	258.85	257.35	256.87	256.80	256.82	256.79	256.79	
30	257.23	257.67	257.71	257.63	257.79	258.93	257.34	256.86	256.80	256.82	256.79	256.79	
31		258.08		257.63	257.90		257.32		256.80	256.81		256.80	
Mean	257.46	257.53	257.63	257.86	257.64	257.84	257.81	257.01	256.83	256.88	256.79	256.74	
Max	257.77	258.58	258.19	258.74	257.91	258.93	258.99	257.28	256.88	257.03	256.81	256.80	258.99
Min	257.23	257.20	257.46	257.52	257.48	257.54	257.32	256.86	256.80	256.80	256.76	256.71	256.71
Annual Max Momentary Gage Height	259.07		m. (MSL.) ,				at 06.00 Hours, on Oct 2, 2009						
Zero Gage at Bottom Elevation	254.47		m. (MSL.) ,			River Bed	254.67		m. (MSL)				
Left Bank Elevation		258.38		m. (MSL.) ,									
Right Bank Elevation		258.64		m. (MSL.) ,		Drainage Area	362		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.39	0.24	8.05	1.90	1.06	4.00	23.20	0.28	0.00	0.00	0.00	0.00	
2	0.40	0.27	5.80	1.48	0.90	4.00	22.00	0.24	0.00	0.00	0.00	0.00	
3	0.36	0.28	2.30	0.80	0.75	2.71	16.78	0.17	0.00	0.00	0.00	0.00	
4	0.33	0.26	1.48	0.60	0.60	2.10	16.60	0.14	0.00	0.00	0.00	0.00	
5	0.31	0.25	1.18	0.65	0.75	1.30	10.45	0.13	0.00	0.00	0.00	0.00	
6	0.35	0.29	1.06	2.00	0.90	1.12	7.45	0.12	0.00	0.00	0.00	0.00	
7	0.41	0.33	0.75	4.00	0.70	1.06	5.65	0.11	0.00	0.00	0.00	0.00	
8	0.47	0.39	0.50	2.71	0.60	1.30	3.04	0.10	0.00	0.01	0.00	0.00	
9	0.48	0.42	0.48	3.37	0.48	1.18	1.80	0.07	0.00	0.03	0.00	0.00	
10	0.43	0.44	0.47	3.37	0.48	1.06	1.24	0.03	0.00	0.01	0.00	0.00	
11	0.39	0.43	0.47	3.59	0.70	0.85	1.00	0.01	0.00	0.01	0.00	0.00	
12	0.46	0.38	0.46	3.26	1.00	0.70	0.90	0.02	0.00	0.01	0.00	0.00	
13	1.12	0.31	0.48	3.37	2.71	0.75	0.90	0.01	0.00	0.00	0.00	0.00	
14	2.30	0.24	0.49	15.52	3.85	0.95	0.85	0.01	0.00	0.00	0.00	0.00	
15	1.90	0.20	0.50	17.32	2.93	1.24	1.18	0.02	0.00	0.00	0.00	0.00	
16	1.54	0.26	0.50	14.80	2.40	1.36	1.60	0.02	0.00	0.00	0.00	0.00	
17	1.30	0.36	0.75	11.05	2.20	1.00	2.00	0.01	0.00	0.00	0.00	0.00	
18	1.12	0.37	1.18	7.45	1.90	1.18	2.50	0.00	0.00	0.00	0.00	0.00	
19	0.85	0.29	1.12	6.10	2.20	1.70	4.30	0.00	0.00	0.00	0.00	0.00	
20	0.70	0.35	1.12	4.45	1.70	1.42	2.93	0.00	0.00	0.00	0.00	0.00	
21	0.50	4.15	1.06	2.71	0.85	1.42	2.00	0.00	0.00	0.00	0.00	0.00	
22	0.47	14.44	1.12	1.60	0.85	1.60	1.42	0.00	0.00	0.00	0.00	0.00	
23	0.45	12.64	0.95	1.18	0.65	2.82	1.24	0.00	0.00	0.00	0.00	0.00	
24	0.41	8.20	0.85	1.18	0.55	2.71	1.00	0.00	0.00	0.00	0.00	0.00	
25	0.40	3.85	1.00	1.24	0.60	2.93	0.55	0.00	0.00	0.00	0.00	0.00	
26	0.38	0.95	1.70	1.36	0.55	3.85	0.36	0.00	0.00	0.00	0.00	0.00	
27	0.38	0.75	1.54	1.36	0.65	11.92	0.33	0.00	0.00	0.00	0.00	0.00	
28	0.30	1.00	1.60	1.12	2.30	20.29	0.35	0.00	0.00	0.00	0.00	0.00	
29	0.25	0.85	1.70	1.00	2.30	19.45	0.35	0.00	0.00	0.00	0.00	0.00	
30	0.23	1.42	1.70	1.18	2.50	21.40	0.34	0.00	0.00	0.00	0.00	0.00	
31		6.40		1.18	3.70		0.32		0.00	0.00		0.00	
Total	19.38	61.01	42.36	122.90	44.31	119.37	134.63	1.49	0.00	0.07	0.00	0.00	545.52 CMSDAY
Mean	0.65	1.97	1.41	3.96	1.43	3.98	4.34	0.05	0.00	0.00	0.00	0.00	1.49 CMS
Max	2.30	14.44	8.05	17.32	3.85	21.40	23.20	0.28	0.00	0.03	0.00	0.00	23.20 CMS
Min	0.23	0.20	0.46	0.60	0.48	0.70	0.32	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.67	5.27	3.66	10.62	3.83	10.31	11.63	0.13	0.00	0.01	0.00	0.00	47.13 MCM
Momentary Peak	25.74 CMS, at 259.07 m. (MSL), at 06.00 Hours, on Oct 2, 2009												
Runoff Yield	4.13 Liters/Second/Square KM.			Momentary Peak Yield			71.105 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

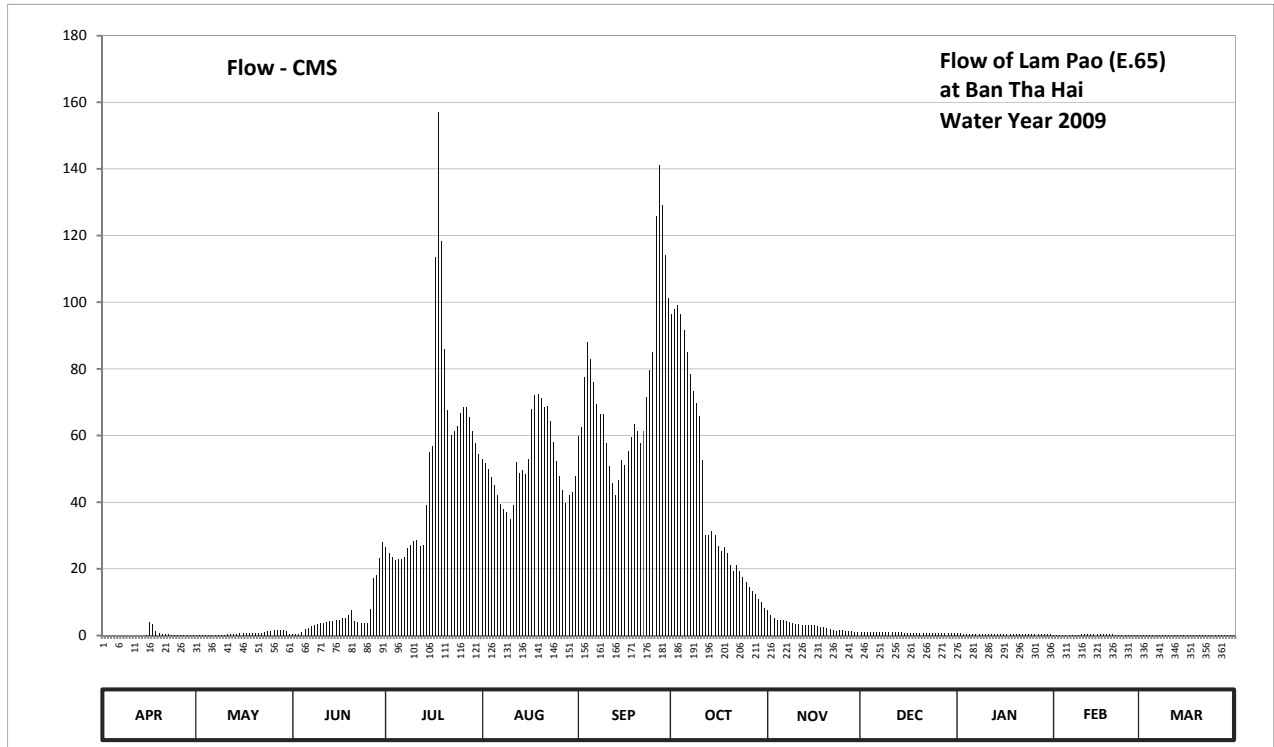
Lat 16 - 57 - 02 N Long 103 - 10 - 16 E

Location : on left bank at the bridge on highway.

	Ban Tha Hai	Amphoe Si That	Changwat Udon Thani
Drainage Area	2,149 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+158.990 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the abutment of the bridge.		Elevation +169.686 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1983 to date		
Rated by Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Lam Pao Dam. Stage-discharge relation defined by 62 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.00	160.67	160.83	162.60	163.50	163.68	164.53	162.96	162.65	162.32	161.97	161.84	
2	160.00	160.67	160.82	162.53	163.46	163.75	164.56	162.92	162.64	162.30	161.94	161.83	
3	160.00	160.68	160.96	162.48	163.40	164.14	164.58	162.89	162.63	162.27	161.92	161.80	
4	160.00	160.69	161.11	162.44	163.33	164.36	164.53	162.87	162.62	162.25	161.92	161.79	
5	160.00	160.69	161.19	162.45	163.25	164.26	164.43	162.86	162.62	162.23	161.91	161.77	
6	160.00	160.73	161.23	162.45	163.16	164.10	164.30	162.86	162.61	162.21	161.92	161.75	
7	160.00	160.76	161.28	162.48	163.08	163.93	164.16	162.85	162.61	162.20	161.92	161.74	
8	160.00	160.76	161.31	162.59	163.03	163.85	164.03	162.84	162.60	162.17	161.93	161.71	
9	160.00	160.77	161.34	162.62	163.00	163.85	163.94	162.83	162.59	162.17	161.95	161.68	
10	160.00	160.78	161.37	162.67	162.92	163.62	163.84	162.82	162.59	162.16	162.02	161.65	
11	160.00	160.81	161.39	162.68	163.07	163.43	163.49	162.82	162.59	162.14	162.03	161.62	
12	160.00	160.89	161.40	162.61	163.47	163.27	163.40	162.81	162.58	162.12	162.04	161.61	
13	160.00	160.97	161.42	162.62	163.37	163.16	163.40	162.81	162.58	162.11	162.04	161.59	
14	160.00	161.00	161.44	163.07	163.39	163.30	163.42	162.81	162.58	162.09	162.04	161.57	
15	160.52	161.02	161.45	163.55	163.36	163.49	163.40	162.80	162.57	162.08	162.04	161.55	
16	161.40	161.03	161.47	163.60	163.50	163.44	163.35	162.80	162.57	162.07	162.03	161.52	
17	161.35	161.05	161.51	164.82	163.89	163.56	163.32	162.79	162.56	162.06	162.02	161.50	
18	161.15	161.05	161.52	165.35	164.00	163.67	163.34	162.77	162.55	162.05	162.01	161.48	
19	161.02	161.04	161.58	164.89	164.01	163.77	163.31	162.77	162.54	162.04	162.00	161.46	
20	160.94	161.06	161.67	164.32	163.98	163.72	163.24	162.76	162.52	162.04	161.98	161.44	
21	160.88	161.07	161.44	163.88	163.91	163.62	163.21	162.74	162.51	162.04	161.96	161.42	
22	160.81	161.07	161.41	163.69	163.92	163.72	163.24	162.73	162.51	162.06	161.94	161.39	
23	160.78	161.09	161.39	163.72	163.80	163.99	163.21	162.72	162.49	162.11	161.94	161.37	
24	160.76	161.12	161.38	163.76	163.63	164.19	163.17	162.73	162.47	162.17	161.92	161.36	
25	160.74	161.14	161.37	163.86	163.48	164.30	163.14	162.73	162.45	162.21	161.91	161.34	
26	160.72	161.16	161.70	163.91	163.34	165.00	163.11	162.72	162.43	162.22	161.90	161.32	
27	160.71	161.16	162.19	163.91	163.21	165.18	163.09	162.72	162.42	162.23	161.88	161.30	
28	160.70	161.16	162.24	163.83	163.09	165.04	163.07	162.72	162.40	162.18	161.86	161.29	
29	160.69	161.16	162.46	163.72	163.16	164.83	163.04	162.70	162.37	162.08		161.29	
30	160.67	161.12	162.66	163.62	163.19	164.62	163.02	162.67	162.34	162.04		161.29	
31		160.91		163.54	163.34		162.98		162.34	162.00		161.30	
Mean	160.46	160.94	161.48	163.36	163.43	163.96	163.58	162.79	162.53	162.14	161.96	161.53	
Max	161.40	161.16	162.66	165.35	164.01	165.18	164.58	162.96	162.65	162.32	162.04	161.84	165.35
Min	160.00	160.67	160.82	162.44	162.92	163.16	162.98	162.67	162.34	162.00	161.86	161.29	160.00
Annual Max Momentary Gage Height	165.45		m. (MSL.) ,				at 02.00 Hours, on Jul 18, 2009						
Zero Gage at Bottom Elevation	158.99		m. (MSL.) ,			River Bed	159.91	m. (MSL)					
Left Bank Elevation		165.96		m. (MSL.) ,									
Right Bank Elevation		165.88		m. (MSL.) ,		Drainage Area	2149	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.17	0.33	26.60	53.00	59.84	96.50	7.60	0.95	0.62	0.29	0.27	
2	0.00	0.17	0.32	24.78	51.72	62.50	98.00	6.20	0.94	0.60	0.29	0.27	
3	0.00	0.18	0.46	23.56	49.80	77.60	99.00	5.25	0.93	0.57	0.28	0.26	
4	0.00	0.19	1.10	22.68	47.56	88.00	96.50	4.75	0.92	0.55	0.28	0.26	
5	0.00	0.19	1.90	22.90	45.00	83.00	91.50	4.50	0.92	0.53	0.28	0.25	
6	0.00	0.23	2.30	22.90	42.12	76.00	85.00	4.50	0.91	0.51	0.28	0.25	
7	0.00	0.26	2.80	23.56	39.56	69.34	78.40	4.25	0.91	0.50	0.28	0.25	
8	0.00	0.26	3.10	26.34	37.96	66.30	73.20	4.00	0.90	0.47	0.29	0.24	
9	0.00	0.27	3.40	27.12	37.00	66.30	69.72	3.75	0.89	0.47	0.29	0.24	
10	0.00	0.28	3.70	28.42	34.92	57.56	65.92	3.50	0.89	0.46	0.32	0.23	
11	0.00	0.31	3.90	28.68	39.24	50.76	52.68	3.50	0.89	0.44	0.33	0.22	
12	0.00	0.39	4.00	26.86	52.04	45.64	30.00	3.25	0.88	0.42	0.34	0.22	
13	0.00	0.47	4.20	27.12	48.84	42.12	30.00	3.25	0.88	0.41	0.34	0.22	
14	0.00	0.50	4.40	39.24	49.48	46.60	31.20	3.25	0.88	0.39	0.34	0.21	
15	0.08	0.60	4.50	54.90	48.52	52.68	30.00	3.00	0.87	0.38	0.34	0.21	
16	4.00	0.65	4.70	56.80	53.00	51.08	27.00	3.00	0.87	0.37	0.33	0.20	
17	3.50	0.75	5.15	113.40	67.82	55.28	25.20	2.80	0.86	0.36	0.32	0.20	
18	1.50	0.75	5.30	157.00	72.00	59.46	26.40	2.40	0.85	0.35	0.31	0.20	
19	0.60	0.70	6.20	118.30	72.40	63.26	24.60	2.40	0.84	0.34	0.30	0.19	
20	0.44	0.80	7.55	86.00	71.24	61.36	21.00	2.20	0.82	0.34	0.30	0.19	
21	0.38	0.85	4.40	67.44	68.58	57.56	19.50	1.80	0.81	0.34	0.29	0.18	
22	0.31	0.85	4.10	60.22	68.96	61.36	21.00	1.60	0.81	0.36	0.29	0.18	
23	0.28	0.95	3.90	61.36	64.40	71.62	19.50	1.40	0.79	0.41	0.29	0.17	
24	0.26	1.20	3.80	62.88	57.94	79.60	17.50	1.60	0.77	0.47	0.28	0.17	
25	0.24	1.40	3.70	66.68	52.36	85.00	16.00	1.60	0.75	0.51	0.28	0.17	
26	0.22	1.60	8.00	68.58	47.88	126.00	14.50	1.40	0.73	0.52	0.28	0.16	
27	0.21	1.60	17.18	68.58	43.72	141.20	13.50	1.40	0.72	0.53	0.28	0.16	
28	0.20	1.60	18.28	65.54	39.88	129.20	12.50	1.40	0.70	0.48	0.27	0.16	
29	0.19	1.60	23.12	61.36	42.12	114.10	11.00	1.00	0.67	0.38		0.16	
30	0.17	1.20	28.16	57.56	43.08	101.20	10.00	0.97	0.64	0.34		0.16	
31		0.41		54.52	47.88		8.30		0.64	0.30		0.16	
Total	12.58	21.38	183.95	1651.88	1590.02	2201.52	1315.12	91.52	25.83	13.72	8.39	6.41	7122.32 CMSDAY
Mean	0.42	0.69	6.13	53.29	51.29	73.38	42.42	3.05	0.83	0.44	0.30	0.21	19.51 CMS
Max	4.00	1.60	28.16	157.00	72.40	141.20	99.00	7.60	0.95	0.62	0.34	0.27	157.00 CMS
Min	0.00	0.17	0.32	22.68	34.92	42.12	8.30	0.97	0.64	0.30	0.27	0.16	0.00 CMS
Runoff	1.09	1.85	15.89	142.72	137.38	190.21	113.63	7.91	2.23	1.19	0.73	0.55	615.37 MCM
Momentary Peak	168.00 CMS, at 165.45 m. (MSL), at 02.00 Hours, on Jul 18, 2009												
Runoff Yield	9.08 Liters/Second/Square KM.			Momentary Peak Yield			78.176 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

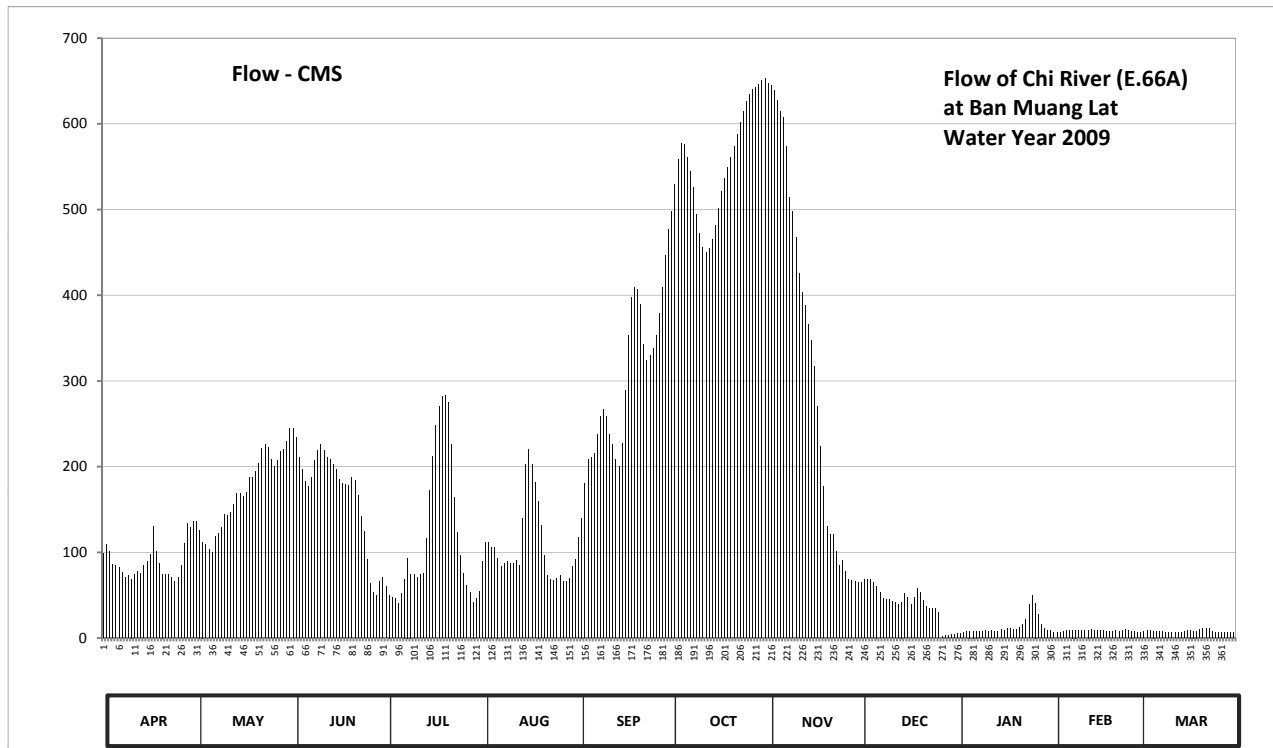
Lat 16 - 12 - 08 N Long 103 - 31 - 41 E

Location : on right bank at the bridge.

	Ban Muang Lat	Amphoe Chang Han	Changwat Roi Et
Drainage Area	31,879 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+126.900 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+143.406 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.30	131.87	133.26	130.59	131.15	131.59	135.70	136.93	130.68	130.29	130.39	130.38	
2	131.46	131.72	133.15	130.38	131.50	131.94	135.96	136.91	130.75	130.30	130.37	130.41	
3	131.33	131.50	132.88	130.32	131.49	132.49	136.21	136.87	130.75	130.36	130.39	130.47	
4	131.09	131.45	132.69	130.29	131.41	132.85	136.36	136.77	130.76	130.41	130.43	130.47	
5	131.07	131.37	132.51	130.18	131.40	132.88	136.35	136.67	130.69	130.44	130.45	130.44	
6	131.03	131.31	132.43	130.41	131.21	132.94	136.23	136.61	130.60	130.44	130.45	130.41	
7	130.92	131.61	132.57	130.77	131.06	133.19	136.09	136.33	130.44	130.44	130.48	130.41	
8	130.80	131.66	132.83	131.21	131.11	133.40	135.93	135.84	130.29	130.41	130.48	130.41	
9	130.86	131.77	132.99	130.89	131.14	133.49	135.67	135.70	130.28	130.43	130.46	130.40	
10	130.77	132.00	133.06	130.87	131.11	133.41	135.49	135.45	130.27	130.45	130.47	130.37	
11	130.88	131.99	132.99	130.81	131.11	133.19	135.35	135.08	130.22	130.42	130.47	130.36	
12	130.96	132.04	132.88	130.88	131.17	133.07	135.29	134.88	130.20	130.46	130.48	130.35	
13	130.91	132.15	132.85	130.91	131.08	132.85	135.33	134.72	130.15	130.43	130.49	130.36	
14	131.07	132.33	132.78	131.57	131.93	132.74	135.43	134.50	130.21	130.42	130.47	130.39	
15	131.14	132.32	132.69	132.38	132.77	133.08	135.57	134.32	130.41	130.49	130.47	130.41	
16	131.28	132.28	132.55	132.89	133.00	133.72	135.73	134.01	130.32	130.46	130.45	130.45	
17	131.79	132.35	132.48	133.29	132.77	134.37	135.90	133.53	130.16	130.55	130.47	130.48	
18	131.32	132.58	132.46	133.53	132.50	134.82	136.02	133.04	130.33	130.53	130.43	130.44	
19	131.11	132.57	132.45	133.65	132.21	134.94	136.13	132.44	130.53	130.50	130.41	130.44	
20	130.89	132.67	132.58	133.66	131.81	134.91	136.23	131.79	130.43	130.50	130.43	130.50	
21	130.88	132.79	132.53	133.57	131.25	134.73	136.33	131.64	130.24	130.58	130.45	130.54	
22	130.88	133.01	132.29	133.07	130.86	134.27	136.45	131.64	130.10	130.68	130.43	130.52	
23	130.80	133.06	131.96	132.26	130.76	134.08	136.57	131.32	130.04	130.80	130.46	130.55	
24	130.72	133.03	131.70	131.67	130.73	134.14	136.67	131.07	130.06	131.08	130.50	130.42	
25	130.81	132.85	131.19	131.26	130.78	134.22	136.76	131.16	130.05	131.19	130.45	130.37	
26	131.08	132.74	130.65	130.91	130.85	134.37	136.83	130.96	129.93	131.10	130.44	130.38	
27	131.48	132.84	130.44	130.62	130.70	134.63	136.88	130.75	130.11	130.91	130.43	130.36	
28	131.83	132.97	130.36	130.43	130.70	134.94	136.89	130.74	130.14	130.67	130.40	130.35	
29	131.76	133.00	130.70	130.21	130.78	135.27	136.92	130.71	130.17	130.55		130.35	
30	131.87	133.10	130.81	130.29	131.05	135.53	136.96	130.69	130.22	130.46		130.35	
31		133.26		130.46	131.18		136.98		130.27	130.46		130.35	
Mean	131.14	132.33	132.26	131.43	131.37	133.74	136.17	133.77	130.32	130.56	130.45	130.42	
Max	131.87	133.26	133.26	133.66	133.00	135.53	136.98	136.93	130.76	131.19	130.50	130.55	136.98
Min	130.72	131.31	130.36	130.18	130.70	131.59	135.29	130.69	129.93	130.29	130.37	130.35	129.93
Annual Max Momentary Gage Height		136.99	m. (MSL.) ,				at 18.00 Hours, on Oct 31, 2009						
Zero Gage at Bottom Elevation		126.90	m. (MSL.) ,			River Bed	127.59	m. (MSL)					
Left Bank Elevation			138.86	m. (MSL.) ,									
Right Bank Elevation		140.15	m. (MSL.) ,			Drainage Area	31879	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	99.20	135.68	244.96	60.32	89.60	117.76	498.00	647.32	64.64	4.85	6.80	6.60	
2	109.44	126.08	234.40	50.24	112.00	140.16	529.20	644.84	68.00	5.00	6.40	7.30	
3	101.12	112.00	210.88	47.36	111.36	181.24	559.20	639.88	68.00	6.20	6.80	9.10	
4	85.76	108.80	196.44	45.92	106.24	208.60	577.20	627.48	68.48	7.30	7.90	9.10	
5	84.48	103.68	182.76	40.64	105.60	210.88	576.00	615.08	65.12	8.20	8.50	8.20	
6	81.92	99.84	176.68	51.68	93.44	215.44	561.60	607.64	60.80	8.20	8.50	7.30	
7	76.16	119.04	187.32	68.96	83.84	238.24	544.80	573.60	53.12	8.20	9.40	7.30	
8	70.40	122.24	207.08	93.44	87.04	258.40	525.60	514.80	45.92	7.30	9.40	7.30	
9	73.28	129.28	219.24	74.72	88.96	267.04	494.40	498.00	45.44	7.90	8.80	7.00	
10	68.96	144.00	225.76	73.76	87.04	259.36	472.84	468.20	44.96	8.50	9.10	6.40	
11	74.24	143.36	219.24	70.88	87.04	238.24	456.60	425.28	42.56	7.60	9.10	6.20	
12	78.08	147.04	210.88	74.24	90.88	226.72	449.64	404.00	41.60	8.80	9.40	6.00	
13	75.68	155.40	208.60	75.68	85.12	208.60	454.28	388.00	39.20	7.90	9.70	6.20	
14	84.48	169.08	203.28	116.48	139.52	200.24	465.88	366.00	42.08	7.60	9.10	6.80	
15	88.96	168.32	196.44	172.88	202.52	227.68	482.40	348.00	51.68	9.70	9.10	7.30	
16	97.92	165.28	185.80	211.64	220.00	289.12	501.60	317.00	47.36	8.80	8.50	8.50	
17	130.56	170.60	180.48	247.84	202.52	353.00	522.00	270.88	39.68	11.50	9.10	9.40	
18	100.48	188.08	178.96	270.88	182.00	398.00	536.40	223.84	47.84	10.90	7.90	8.20	
19	87.04	187.32	178.20	282.40	159.96	410.00	549.60	177.44	57.44	10.00	7.30	8.20	
20	74.72	194.92	188.08	283.36	131.84	407.00	561.60	130.56	52.64	10.00	7.90	10.00	
21	74.24	204.04	184.28	274.72	96.00	389.00	573.60	120.96	43.52	12.40	8.50	11.20	
22	74.24	220.96	166.04	226.72	73.28	343.00	588.00	120.96	36.80	16.20	7.90	10.60	
23	70.40	225.76	141.44	163.76	68.48	324.00	602.68	100.48	33.92	22.00	8.80	11.50	
24	66.56	222.88	124.80	122.88	67.04	330.00	615.08	84.48	34.88	39.40	10.00	7.60	
25	70.88	208.60	92.16	96.64	69.44	338.00	626.24	90.24	34.40	49.10	8.50	6.40	
26	85.12	200.24	63.20	75.68	72.80	353.00	634.92	78.08	30.04	41.00	8.20	6.60	
27	110.72	207.84	53.12	61.76	65.60	379.00	641.12	68.00	2.15	27.60	7.90	6.20	
28	133.12	217.72	49.28	52.64	65.60	410.00	642.36	67.52	2.60	15.80	7.00	6.00	
29	128.64	220.00	65.60	42.08	69.44	447.32	646.08	66.08	3.05	11.50		6.00	
30	135.68	229.60	70.88	45.92	83.20	477.60	651.04	65.12	3.80	8.80		6.00	
31		244.96		54.08	91.52		653.52		4.55	8.80		6.00	
Total	2692.48	5292.64	5046.28	3630.20	3288.92	8846.64	17193.48	9749.76	1276.27	417.05	235.50	236.50	57905.72 CMSDAY
Mean	89.75	170.73	168.21	117.10	106.09	294.89	554.63	324.99	41.17	13.45	8.41	7.63	158.65 CMS
Max	135.68	244.96	244.96	283.36	220.00	477.60	653.52	647.32	68.48	49.10	10.00	11.50	653.52 CMS
Min	66.56	99.84	49.28	40.64	65.60	117.76	449.64	65.12	2.15	4.85	6.40	6.00	2.15 CMS
Runoff	232.63	457.28	436.00	313.65	284.16	764.35	1485.52	842.38	110.27	36.03	20.35	20.43	5003.06 MCM
Momentary Peak	654.76 CMS, at 136.99 m. (MSL), at 18.00 Hours, on Oct 31, 2009												
Runoff Yield	4.98 Liters/Second/Square KM.			Momentary Peak Yield			20.539 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

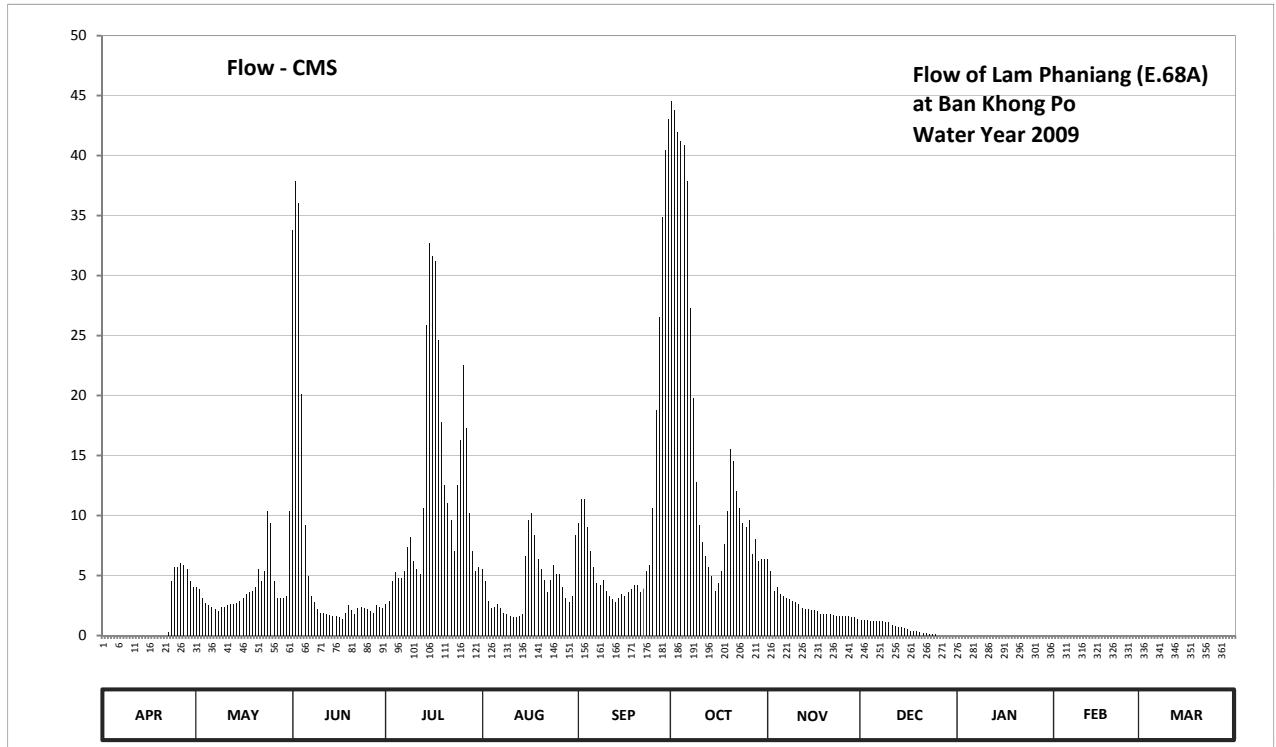
Lat 17 - 04 - 47 N Long 102 - 27 - 11 E

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

	Ban Khong Po	Amphoe Mueang	Changwat Nong Bua Lamphu
Drainage Area	1,364 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+194.730 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream site at the footpath of the bridge.	Elevation	+201.740 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 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. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 14 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	195.86	196.97	198.13	196.86	197.07	197.27	198.42	197.12	196.73	196.55	196.55	196.10	
2	195.82	196.96	198.24	196.89	197.00	197.37	198.40	197.06	196.73	196.54	196.54	196.09	
3	195.77	196.91	198.19	197.00	196.89	197.37	198.35	196.95	196.73	196.53	196.53	196.08	
4	195.74	196.87	197.72	197.05	196.83	197.25	198.33	196.97	196.72	196.51	196.52	196.04	
5	195.73	196.85	197.26	197.02	196.84	197.15	198.32	196.93	196.72	196.51	196.51	195.98	
6	195.72	196.84	197.03	197.02	196.86	197.08	198.24	196.92	196.72	196.49	196.50	195.90	
7	195.71	196.82	196.92	197.06	196.83	196.99	197.95	196.91	196.72	196.49	196.49	195.82	
8	195.70	196.80	196.88	197.17	196.79	196.98	197.71	196.90	196.72	196.48	196.48	195.78	
9	195.68	196.84	196.82	197.21	196.78	197.01	197.43	196.89	196.71	196.48	196.47	195.75	
10	195.65	196.84	196.79	197.11	196.76	196.95	197.26	196.88	196.71	196.47	196.47	195.73	
11	195.64	196.85	196.79	197.07	196.75	196.92	197.19	196.86	196.69	196.47	196.46	195.73	
12	195.68	196.86	196.78	197.04	196.75	196.90	197.13	196.83	196.68	196.47	196.46	195.72	
13	195.67	196.86	196.77	197.33	196.76	196.88	197.08	196.82	196.67	196.46	196.45	195.72	
14	195.66	196.87	196.76	197.91	196.78	196.91	197.03	196.82	196.67	196.46	196.44	195.72	
15	195.65	196.89	196.76	198.10	197.13	196.93	196.95	196.81	196.66	196.45	196.43	195.71	
16	195.64	196.91	196.75	198.07	197.28	196.92	196.99	196.81	196.65	196.43	196.43	195.71	
17	195.67	196.93	196.74	198.06	197.31	196.94	197.06	196.80	196.64	196.41	196.42	195.71	
18	195.85	196.94	196.79	197.87	197.22	196.96	197.18	196.78	196.64	196.41	196.41	195.70	
19	196.15	196.95	196.85	197.63	197.12	196.98	197.32	196.78	196.64	196.41	196.40	195.69	
20	196.19	196.97	196.81	197.42	197.07	196.98	197.54	196.78	196.63	196.41	196.39	195.69	
21	196.14	197.07	196.78	197.35	197.01	196.94	197.50	196.78	196.62	196.43	196.38	195.69	
22	196.63	197.00	196.83	197.28	196.94	196.96	197.40	196.77	196.62	196.44	196.37	195.69	
23	197.00	197.06	196.84	197.15	197.01	197.06	197.33	196.76	196.61	196.45	196.37	195.69	
24	197.08	197.32	196.83	197.42	197.09	197.09	197.27	196.76	196.61	196.53	196.35	195.68	
25	197.08	197.27	196.82	197.57	197.04	197.33	197.25	196.76	196.61	196.54	196.24	195.68	
26	197.10	197.00	196.80	197.80	197.04	197.67	197.28	196.76	196.60	196.55	196.20	195.68	
27	197.09	196.91	196.79	197.61	196.97	197.93	197.14	196.76	196.59	196.56	196.13	195.67	
28	197.07	196.91	196.85	197.31	196.91	198.16	197.20	196.75	196.59	196.57	196.12	195.66	
29	197.00	196.91	196.84	197.15	196.88	198.31	197.11	196.75	196.58	196.57		195.65	
30	196.97	196.92	196.83	197.06	196.92	198.38	197.12	196.74	196.57	196.56		195.64	
31		197.32		197.08	197.22		197.12		196.56	196.56		195.63	
Mean	196.14	196.95	197.00	197.34	196.96	197.22	197.47	196.84	196.66	196.49	196.41	195.77	
Max	197.10	197.32	198.24	198.10	197.31	198.38	198.42	197.12	196.73	196.57	196.55	196.10	198.42
Min	195.64	196.80	196.74	196.86	196.75	196.88	196.95	196.74	196.56	196.41	196.12	195.63	195.63
Annual Max Momentary Gage Height	198.42		m. (MSL.) ,				at 01.00 Hours, on Oct 1, 2009						
Zero Gage at Bottom Elevation	194.73		m. (MSL.) ,			River Bed	193.54		m. (MSL)				
Left Bank Elevation		198.48		m. (MSL.) ,									
Right Bank Elevation		199.21		m. (MSL.) ,		Drainage Area	1364		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	4.05	33.81	2.60	5.55	9.40	44.54	6.40	1.30	0.00	0.00	0.00	
2	0.00	3.90	37.88	2.90	4.50	11.40	43.80	5.40	1.30	0.00	0.00	0.00	
3	0.00	3.15	36.03	4.50	2.90	11.40	41.95	3.75	1.30	0.00	0.00	0.00	
4	0.00	2.70	20.10	5.25	2.30	9.00	41.21	4.05	1.20	0.00	0.00	0.00	
5	0.00	2.50	9.20	4.80	2.40	7.00	40.84	3.45	1.20	0.00	0.00	0.00	
6	0.00	2.40	4.95	4.80	2.60	5.70	37.88	3.30	1.20	0.00	0.00	0.00	
7	0.00	2.20	3.30	5.40	2.30	4.35	27.25	3.15	1.20	0.00	0.00	0.00	
8	0.00	2.00	2.80	7.40	1.90	4.20	19.80	3.00	1.20	0.00	0.00	0.00	
9	0.00	2.40	2.20	8.20	1.80	4.65	12.75	2.90	1.10	0.00	0.00	0.00	
10	0.00	2.40	1.90	6.20	1.60	3.75	9.20	2.80	1.10	0.00	0.00	0.00	
11	0.00	2.50	1.90	5.55	1.50	3.30	7.80	2.60	0.90	0.00	0.00	0.00	
12	0.00	2.60	1.80	5.10	1.50	3.00	6.60	2.30	0.80	0.00	0.00	0.00	
13	0.00	2.60	1.70	10.60	1.60	2.80	5.70	2.20	0.70	0.00	0.00	0.00	
14	0.00	2.70	1.60	25.85	1.80	3.15	4.95	2.20	0.70	0.00	0.00	0.00	
15	0.00	2.90	1.60	32.70	6.60	3.45	3.75	2.10	0.60	0.00	0.00	0.00	
16	0.00	3.15	1.50	31.59	9.60	3.30	4.35	2.10	0.50	0.00	0.00	0.00	
17	0.00	3.45	1.40	31.22	10.20	3.60	5.40	2.00	0.40	0.00	0.00	0.00	
18	0.00	3.60	1.90	24.60	8.40	3.90	7.60	1.80	0.40	0.00	0.00	0.00	
19	0.00	3.75	2.50	17.75	6.40	4.20	10.40	1.80	0.40	0.00	0.00	0.00	
20	0.00	4.05	2.10	12.50	5.55	4.20	15.50	1.80	0.30	0.00	0.00	0.00	
21	0.00	5.55	1.80	11.00	4.65	3.60	14.50	1.80	0.20	0.00	0.00	0.00	
22	0.30	4.50	2.30	9.60	3.60	3.90	12.00	1.70	0.20	0.00	0.00	0.00	
23	4.50	5.40	2.40	7.00	4.65	5.40	10.60	1.60	0.10	0.00	0.00	0.00	
24	5.70	10.40	2.30	12.50	5.85	5.85	9.40	1.60	0.10	0.00	0.00	0.00	
25	5.70	9.40	2.20	16.25	5.10	10.60	9.00	1.60	0.10	0.00	0.00	0.00	
26	6.00	4.50	2.00	22.50	5.10	18.75	9.60	1.60	0.00	0.00	0.00	0.00	
27	5.85	3.15	1.90	17.25	4.05	26.55	6.80	1.60	0.00	0.00	0.00	0.00	
28	5.55	3.15	2.50	10.20	3.15	34.92	8.00	1.50	0.00	0.00	0.00	0.00	
29	4.50	3.15	2.40	7.00	2.80	40.47	6.20	1.50	0.00	0.00	0.00	0.00	
30	4.05	3.30	2.30	5.40	3.30	43.06	6.40	1.40	0.00	0.00	0.00	0.00	
31		10.40		5.70	8.40		6.40		0.00	0.00		0.00	
Total	42.15	121.90	192.27	373.91	131.65	298.85	490.17	75.00	18.50	0.00	0.00	0.00	1744.40 CMSDAY
Mean	1.41	3.93	6.41	12.06	4.25	9.96	15.81	2.50	0.60	0.00	0.00	0.00	4.78 CMS
Max	6.00	10.40	37.88	32.70	10.20	43.06	44.54	6.40	1.30	0.00	0.00	0.00	44.54 CMS
Min	0.00	2.00	1.40	2.60	1.50	2.80	3.75	1.40	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.64	10.53	16.61	32.31	11.38	25.82	42.35	6.48	1.60	0.00	0.00	0.00	150.72 MCM
Momentary Peak	44.54 CMS, at 198.42 m. (MSL), at 01.00 Hours, on Oct 1, 2009												
Runoff Yield	3.50 Liters/Second/Square KM.			Momentary Peak Yield			32.654 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

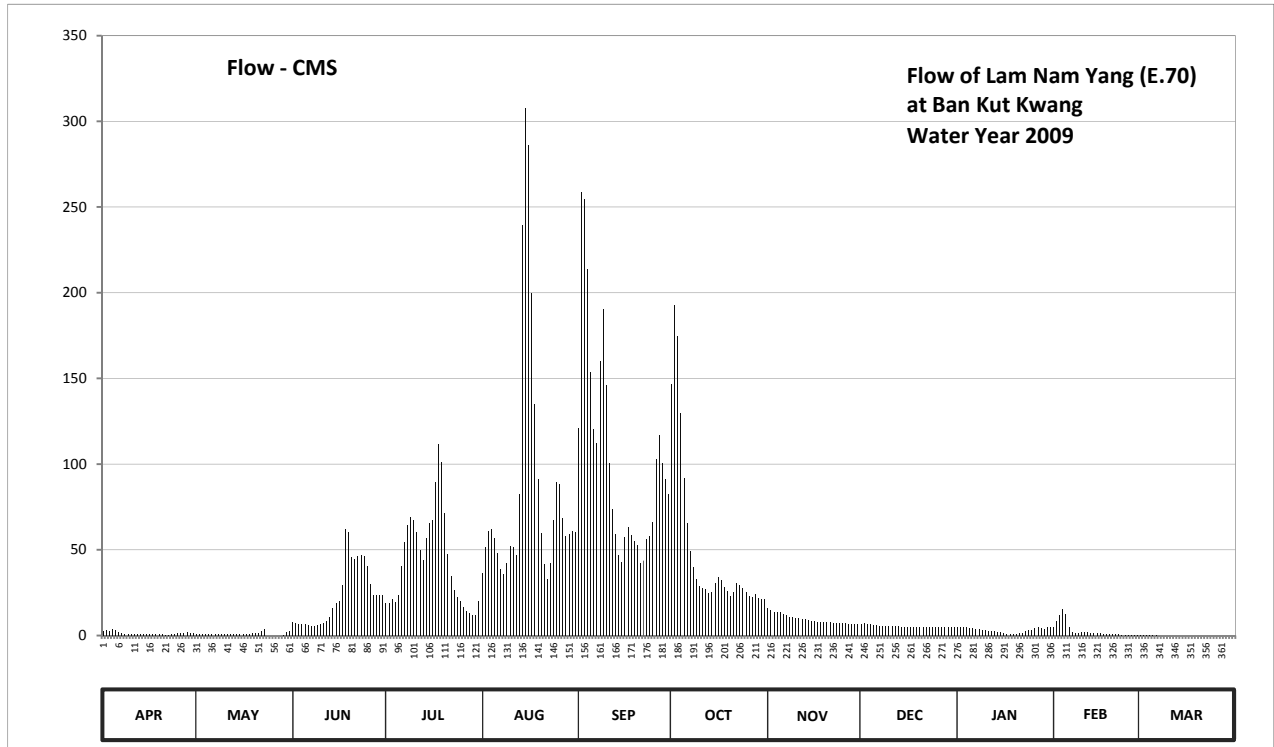
Lat 16 - 17 - 14 N Long 104 - 00 - 34 E

Location : on right bank at the bridge on highway.

	Ban	Kut Kwang	Amphoe	Phon Thong	Changwat	Roi Et
Drainage Area	2,647	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+132.120 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+144.037 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.79	131.69	132.13	132.65	133.34	135.56	136.03	132.51	132.08	131.96	131.96	131.66	
2	131.86	131.69	132.10	132.65	133.82	137.60	136.74	132.47	132.11	131.96	132.18	131.66	
3	131.81	131.70	132.08	132.76	134.08	137.55	136.48	132.41	132.08	131.96	132.33	131.66	
4	131.89	131.69	132.06	132.68	134.11	137.04	135.73	132.41	132.06	131.94	132.49	131.66	
5	131.86	131.70	132.06	132.87	133.97	136.14	134.91	132.41	132.04	131.92	132.35	131.66	
6	131.76	131.70	132.03	133.48	133.71	135.55	134.21	132.36	132.03	131.91	131.97	131.66	
7	131.71	131.69	132.01	133.90	133.42	135.38	133.75	132.32	132.02	131.89	131.76	131.65	
8	131.70	131.68	132.00	134.18	133.33	136.25	133.46	132.28	132.02	131.88	131.74	131.65	
9	131.70	131.69	132.04	134.32	133.52	136.71	133.23	132.27	132.01	131.86	131.74	131.65	
10	131.70	131.69	132.07	134.26	133.84	136.02	133.08	132.25	132.01	131.84	131.75	131.65	
11	131.69	131.70	132.11	134.07	133.81	135.13	133.02	132.25	132.00	131.82	131.76	131.65	
12	131.69	131.69	132.18	133.77	133.68	134.45	133.00	132.23	131.99	131.81	131.75	131.65	
13	131.69	131.69	132.28	133.58	134.67	134.03	132.91	132.22	131.99	131.79	131.74	131.64	
14	131.69	131.68	132.51	133.97	137.38	133.67	132.93	132.20	131.98	131.77	131.73	131.64	
15	131.68	131.68	132.64	134.22	138.14	133.54	133.15	132.18	131.98	131.75	131.72	131.64	
16	131.68	131.69	132.70	134.27	137.90	133.98	133.27	132.16	131.97	131.72	131.71	131.64	
17	131.68	131.70	133.10	134.84	136.84	134.16	133.20	132.14	131.97	131.70	131.70	131.63	
18	131.68	131.70	134.11	135.37	135.83	134.01	133.05	132.14	131.96	131.69	131.69	131.63	
19	131.68	131.71	134.07	135.14	134.89	133.92	132.95	132.13	131.95	131.68	131.68	131.62	
20	131.68	131.71	133.63	134.38	134.05	133.85	132.83	132.13	131.95	131.68	131.68	131.62	
21	131.67	131.71	133.60	133.69	133.50	133.53	132.94	132.13	131.96	131.71	131.68	131.62	
22	131.67	131.82	133.66	133.29	133.22	133.57	133.15	132.12	131.96	131.74	131.68	131.61	
23	131.69	131.87	133.68	132.99	133.53	133.96	133.09	132.12	131.96	131.80	131.67	131.61	
24	131.70	131.40	133.66	132.82	134.26	134.00	133.02	132.11	131.96	131.85	131.67	131.61	
25	131.71	131.38	133.48	132.70	134.85	134.24	132.93	132.11	131.96	131.85	131.67	131.61	
26	131.73	131.53	133.12	132.56	134.81	135.18	132.84	132.10	131.96	131.93	131.67	131.59	
27	131.74	131.39	132.87	132.44	134.30	135.48	132.82	132.09	131.96	131.95	131.67	131.59	
28	131.75	131.53	132.86	132.39	134.00	135.13	132.89	132.08	131.96	131.93	131.67	131.58	
29	131.74	131.66	132.87	132.32	134.03	134.89	132.79	132.08	131.96	131.88		131.57	
30	131.73	131.77	132.86	132.33	134.08	134.67	132.77	132.07	131.96	131.95		131.57	
31		131.81	132.70	134.07			132.75		131.96	131.95		131.57	
Mean	131.72	131.67	132.75	133.47	134.48	134.97	133.55	132.22	131.99	131.84	131.81	131.63	
Max	131.89	131.87	134.11	135.37	138.14	137.60	136.74	132.51	132.11	131.96	132.49	131.66	138.14
Min	131.67	131.38	132.00	132.32	133.22	133.53	132.75	132.07	131.95	131.68	131.67	131.57	131.38
Annual Max Momentary Gage Height	138.20		m. (MSL.) ,				at 13.00 Hours, on Aug 15, 2009						
Zero Gage at Bottom Elevation	132.12		m. (MSL.) ,			River Bed	129.81		m. (MSL)				
Left Bank Elevation		140.51		m. (MSL.) ,									
Right Bank Elevation		138.91		m. (MSL.) ,		Drainage Area	2647		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.35	0.80	7.60	18.90	36.28	121.00	146.80	15.82	6.70	4.90	4.90	0.20	
2	3.40	0.80	7.00	18.90	51.70	259.00	192.80	14.94	7.20	4.90	8.60	0.20	
3	2.65	1.00	6.70	21.32	60.80	254.50	174.70	13.62	6.70	4.90	11.86	0.20	
4	3.85	0.80	6.40	19.56	61.85	213.80	129.50	13.62	6.40	4.60	15.38	0.20	
5	3.40	1.00	6.40	23.74	56.95	153.40	91.89	13.62	6.10	4.30	12.30	0.20	
6	1.90	1.00	5.95	40.76	48.12	120.50	65.35	12.52	5.95	4.15	5.05	0.20	
7	1.15	0.80	5.65	54.50	38.84	112.06	49.40	11.64	5.80	3.85	1.90	0.00	
8	1.00	0.60	5.50	64.30	35.96	160.00	40.12	10.76	5.80	3.70	1.60	0.00	
9	1.00	0.80	6.10	69.20	42.04	190.70	33.04	10.54	5.65	3.40	1.60	0.00	
10	1.00	0.80	6.55	67.10	52.40	146.20	29.08	10.10	5.65	3.10	1.75	0.00	
11	0.80	1.00	7.20	60.45	51.35	100.65	27.52	10.10	5.50	2.80	1.90	0.00	
12	0.80	0.80	8.60	50.04	47.16	73.95	27.00	9.66	5.35	2.65	1.75	0.00	
13	0.80	0.80	10.76	43.96	82.53	59.05	24.66	9.44	5.35	2.35	1.60	0.00	
14	0.80	0.60	15.82	56.95	239.40	46.84	25.18	9.00	5.20	2.05	1.45	0.00	
15	0.60	0.60	18.68	65.70	307.60	42.68	30.90	8.60	5.20	1.75	1.30	0.00	
16	0.60	0.80	20.00	67.45	286.00	57.30	34.16	8.20	5.05	1.30	1.15	0.00	
17	0.60	1.00	29.60	89.16	199.80	63.60	32.20	7.80	5.05	1.00	1.00	0.00	
18	0.60	1.00	61.85	111.59	134.80	58.35	28.30	7.80	4.90	0.80	0.80	0.00	
19	0.60	1.15	60.45	101.10	91.11	55.20	25.70	7.60	4.75	0.60	0.60	0.00	
20	0.60	1.15	45.56	71.30	59.75	52.75	22.86	7.60	4.75	0.60	0.60	0.00	
21	0.40	1.15	44.60	47.48	41.40	42.36	25.44	7.60	4.90	1.15	0.60	0.00	
22	0.40	2.80	46.52	34.72	32.76	43.64	30.90	7.40	4.90	1.60	0.60	0.00	
23	0.80	3.55	47.16	26.74	42.36	56.60	29.34	7.40	4.90	2.50	0.40	0.00	
24	1.00	0.00	46.52	22.64	67.10	58.00	27.52	7.20	4.90	3.25	0.40	0.00	
25	1.15	0.00	40.76	20.00	89.55	66.40	25.18	7.20	4.90	3.25	0.40	0.00	
26	1.45	0.00	30.12	16.92	87.99	102.90	23.08	7.00	4.90	4.45	0.40	0.00	
27	1.60	0.00	23.74	14.28	68.50	117.00	22.64	6.85	4.90	4.75	0.40	0.00	
28	1.75	0.00	23.52	13.18	58.00	100.65	24.18	6.70	4.90	4.45	0.40	0.00	
29	1.60	0.20	23.74	11.64	59.05	91.11	21.98	6.70	4.90	3.70	0.00	0.00	
30	1.45	2.05	23.52	11.86	60.80	82.53	21.54	6.55	4.90	4.75	0.00	0.00	
31		2.65		20.00	60.45		21.10		4.90	4.75		0.00	
Total	40.10	29.70	692.57	1355.44	2652.40	3102.72	1504.06	283.58	166.95	96.30	80.69	1.20	10005.71 CMSDAY
Mean	1.34	0.96	23.09	43.72	85.56	103.42	48.52	9.45	5.39	3.11	2.88	0.04	27.41 CMS
Max	3.85	3.55	61.85	111.59	307.60	259.00	192.80	15.82	7.20	4.90	15.38	0.20	307.60 CMS
Min	0.40	0.00	5.50	11.64	32.76	42.36	21.10	6.55	4.75	0.60	0.40	0.00	0.00 CMS
Runoff	3.47	2.57	59.84	117.11	229.17	268.08	129.95	24.50	14.42	8.32	6.97	0.10	864.49 MCM
Momentary Peak	313.00 CMS, at 138.20 m. (MSL), at 13.00 Hours, on Aug 15, 2009												
Runoff Yield	10.36 Liters/Second/Square KM.			Momentary Peak Yield			118.247 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

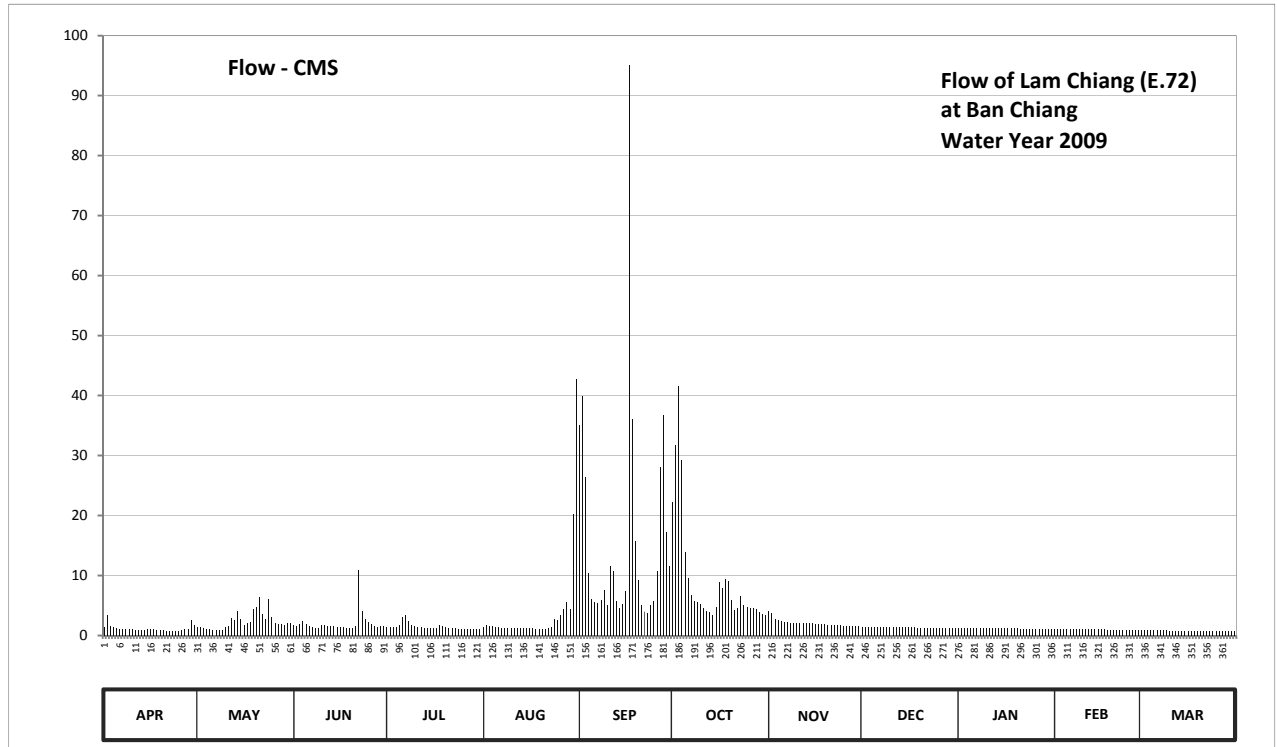
Lat 16 - 01 - 26 N Long 101 - 30 - 12 E

Location : on left bank at Ban Chiang School.

	Ban	Chiang	Amphoe	Phak Di Chumphon	Changwat	Chaiyaphum
Drainage Area	323	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+234.120 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On left bank downstream at the footpath of the bridge.				Elevation	+243.534 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow started at elevation +238.810 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.59	234.63	234.70	234.63	234.62	238.29	237.25	235.17	234.62	234.55	234.50	234.43	
2	235.07	234.60	234.67	234.63	234.70	238.61	238.05	235.12	234.62	234.55	234.50	234.42	
3	234.64	234.52	234.77	234.61	234.67	237.62	238.71	234.94	234.62	234.55	234.50	234.42	
4	234.58	234.48	234.89	234.61	234.64	236.05	237.85	234.92	234.62	234.55	234.49	234.42	
5	234.52	234.47	234.75	234.71	234.63	235.51	236.43	234.89	234.62	234.55	234.49	234.42	
6	234.49	234.46	234.65	235.01	234.60	235.42	235.95	234.86	234.61	234.55	234.50	234.42	
7	234.47	234.44	234.59	235.07	234.55	235.39	235.59	234.84	234.60	234.55	234.50	234.42	
8	234.47	234.43	234.55	234.87	234.56	235.48	235.47	234.83	234.60	234.55	234.50	234.42	
9	234.47	234.44	234.53	234.71	234.56	235.69	235.42	234.83	234.59	234.55	234.49	234.42	
10	234.47	234.63	234.72	234.68	234.56	235.34	235.36	234.83	234.59	234.56	234.49	234.41	
11	234.46	234.65	234.71	234.63	234.55	236.18	235.25	234.82	234.59	234.55	234.49	234.41	
12	234.46	234.99	234.68	234.58	234.54	236.09	235.18	234.82	234.59	234.55	234.49	234.41	
13	234.46	234.91	234.66	234.56	234.53	235.46	235.14	234.81	234.58	234.55	234.48	234.41	
14	234.46	235.18	234.64	234.54	234.52	235.25	235.08	234.80	234.58	234.55	234.48	234.41	
15	234.51	234.96	234.63	234.53	234.52	235.37	235.28	234.80	234.58	234.54	234.48	234.41	
16	234.50	234.70	234.62	234.52	234.53	235.68	235.87	234.79	234.58	234.54	234.47	234.41	
17	234.47	234.80	234.59	234.53	234.52	240.57	235.73	234.78	234.58	234.53	234.47	234.41	
18	234.46	234.86	234.57	234.72	234.51	238.36	235.92	234.78	234.58	234.53	234.46	234.41	
19	234.45	235.24	234.55	234.65	234.51	236.63	235.88	234.76	234.57	234.52	234.46	234.41	
20	234.43	235.30	234.53	234.60	234.51	235.90	235.49	234.72	234.57	234.52	234.46	234.41	
21	234.41	235.56	234.67	234.57	234.50	235.35	235.21	234.71	234.57	234.51	234.45	234.40	
22	234.40	235.11	236.10	234.53	234.52	235.16	235.25	234.71	234.57	234.51	234.44	234.40	
23	234.40	234.94	235.17	234.52	234.58	235.13	235.58	234.70	234.57	234.51	234.44	234.40	
24	234.39	235.52	234.96	234.51	234.93	235.34	235.34	234.69	234.57	234.51	234.44	234.40	
25	234.41	235.00	234.84	234.50	234.92	235.45	235.28	234.68	234.57	234.51	234.44	234.40	
26	234.46	234.82	234.79	234.50	235.07	236.09	235.27	234.68	234.57	234.51	234.44	234.40	
27	234.47	234.78	234.66	234.49	235.23	237.75	235.27	234.67	234.57	234.51	234.44	234.40	
28	234.47	234.75	234.62	234.49	235.44	238.41	235.24	234.67	234.57	234.51	234.44	234.40	
29	234.91	234.74	234.64	234.50	235.23	236.78	235.16	234.65	234.57	234.51		234.40	
30	234.73	234.82	234.65	234.51	237.07	236.17	235.10	234.65	234.57	234.51		234.40	
31		234.80		234.50	238.78		235.08		234.57	234.51		234.40	
Mean	234.52	234.82	234.74	234.61	234.89	236.35	235.76	234.80	234.59	234.53	234.47	234.41	
Max	235.07	235.56	236.10	235.07	238.78	240.57	238.71	235.17	234.62	234.56	234.50	234.43	240.57
Min	234.39	234.43	234.53	234.49	234.50	235.13	235.08	234.65	234.57	234.51	234.44	234.40	234.39
Annual Max Momentary Gage Height		241.26		m. (MSL.) ,									at 11.00 Hours, on Sep 17, 2009
Zero Gage at Bottom Elevation		234.12		m. (MSL.) ,		River Bed	233.62		m. (MSL)				
Left Bank Elevation			242.76		m. (MSL.) ,								
Right Bank Elevation			238.80		m. (MSL.) ,	Drainage Area	323		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.37	1.49	1.70	1.49	1.46	35.06	22.25	4.02	1.46	1.25	1.10	0.89		
2	3.42	1.40	1.61	1.49	1.70	39.87	31.70	3.72	1.46	1.25	1.10	0.86		
3	1.52	1.16	1.91	1.43	1.61	26.44	41.57	2.70	1.46	1.25	1.10	0.86		
4	1.34	1.04	2.45	1.43	1.52	10.45	29.20	2.60	1.46	1.25	1.07	0.86		
5	1.16	1.01	1.85	1.73	1.49	6.08	13.87	2.45	1.46	1.25	1.07	0.86		
6	1.07	0.98	1.55	3.06	1.40	5.52	9.60	2.30	1.43	1.25	1.10	0.86		
7	1.01	0.92	1.37	3.42	1.25	5.34	6.72	2.20	1.40	1.25	1.10	0.86		
8	1.01	0.89	1.25	2.35	1.28	5.88	5.82	2.15	1.40	1.25	1.10	0.86		
9	1.01	0.92	1.19	1.73	1.28	7.52	5.52	2.15	1.37	1.25	1.07	0.86		
10	1.01	1.49	1.76	1.64	1.28	5.04	5.16	2.15	1.37	1.28	1.07	0.83		
11	0.98	1.55	1.73	1.49	1.25	11.62	4.50	2.10	1.37	1.25	1.07	0.83		
12	0.98	2.95	1.64	1.34	1.22	10.81	4.08	2.10	1.37	1.25	1.07	0.83		
13	0.98	2.55	1.58	1.28	1.19	5.76	3.84	2.05	1.34	1.25	1.04	0.83		
14	0.98	4.08	1.52	1.22	1.16	4.50	3.48	2.00	1.34	1.25	1.04	0.83		
15	1.13	2.80	1.49	1.19	1.16	5.22	4.68	2.00	1.34	1.22	1.04	0.83		
16	1.10	1.70	1.46	1.16	1.19	7.44	8.96	1.97	1.34	1.22	1.01	0.83		
17	1.01	2.00	1.37	1.19	1.16	95.15	7.84	1.94	1.34	1.19	1.01	0.83		
18	0.98	2.30	1.31	1.76	1.13	36.04	9.36	1.94	1.34	1.19	0.98	0.83		
19	0.95	4.44	1.25	1.55	1.13	15.80	9.04	1.88	1.31	1.16	0.98	0.83		
20	0.89	4.80	1.19	1.40	1.13	9.20	5.94	1.76	1.31	1.16	0.98	0.83		
21	0.83	6.48	1.61	1.31	1.10	5.10	4.26	1.73	1.31	1.13	0.95	0.80		
22	0.80	3.66	10.90	1.19	1.16	3.96	4.50	1.73	1.31	1.13	0.92	0.80		
23	0.80	2.70	4.02	1.16	1.34	3.78	6.64	1.70	1.31	1.13	0.92	0.80		
24	0.77	6.16	2.80	1.13	2.65	5.04	5.04	1.67	1.31	1.13	0.92	0.80		
25	0.83	3.00	2.20	1.10	2.60	5.70	4.68	1.64	1.31	1.13	0.92	0.80		
26	0.98	2.10	1.97	1.10	3.42	10.81	4.62	1.64	1.31	1.13	0.92	0.80		
27	1.01	1.94	1.58	1.07	4.38	28.00	4.62	1.61	1.31	1.13	0.92	0.80		
28	1.01	1.85	1.46	1.07	5.64	36.74	4.44	1.61	1.31	1.13	0.92	0.80		
29	2.55	1.82	1.52	1.10	4.38	17.30	3.96	1.55	1.31	1.13		0.80		
30	1.79	2.10	1.55	1.13	20.27	11.53	3.60	1.55	1.31	1.13		0.80		
31		2.00		1.10	42.76		3.48		1.31	1.13		0.80		
Total	35.27	74.28	60.79	45.81	115.69	476.70	282.97	62.61	42.08	37.10	28.49	25.70	1287.49	CMSDAY
Mean	1.18	2.40	2.03	1.48	3.73	15.89	9.13	2.09	1.36	1.20	1.02	0.83	3.53	CMS
Max	3.42	6.48	10.90	3.42	42.76	95.15	41.57	4.02	1.46	1.28	1.10	0.89	95.15	CMS
Min	0.77	0.89	1.19	1.07	1.10	3.78	3.48	1.55	1.31	1.13	0.92	0.80	0.77	CMS
Runoff	3.05	6.42	5.25	3.96	10.00	41.19	24.45	5.41	3.64	3.21	2.46	2.22	111.24	MCM
Momentary Peak	131.10 CMS, at 241.26 m. (MSL), at 11.00 Hours, on Sep 17, 2009													
Runoff Yield	10.92 Liters/Second/Square KM.			Momentary Peak Yield			405,882 Liters/Second/Square KM.							

WATER YEAR : 2009

CHI RIVER BASIN

Lam Chao at Ban Wang Taku , Chaiyaphum (E.73)

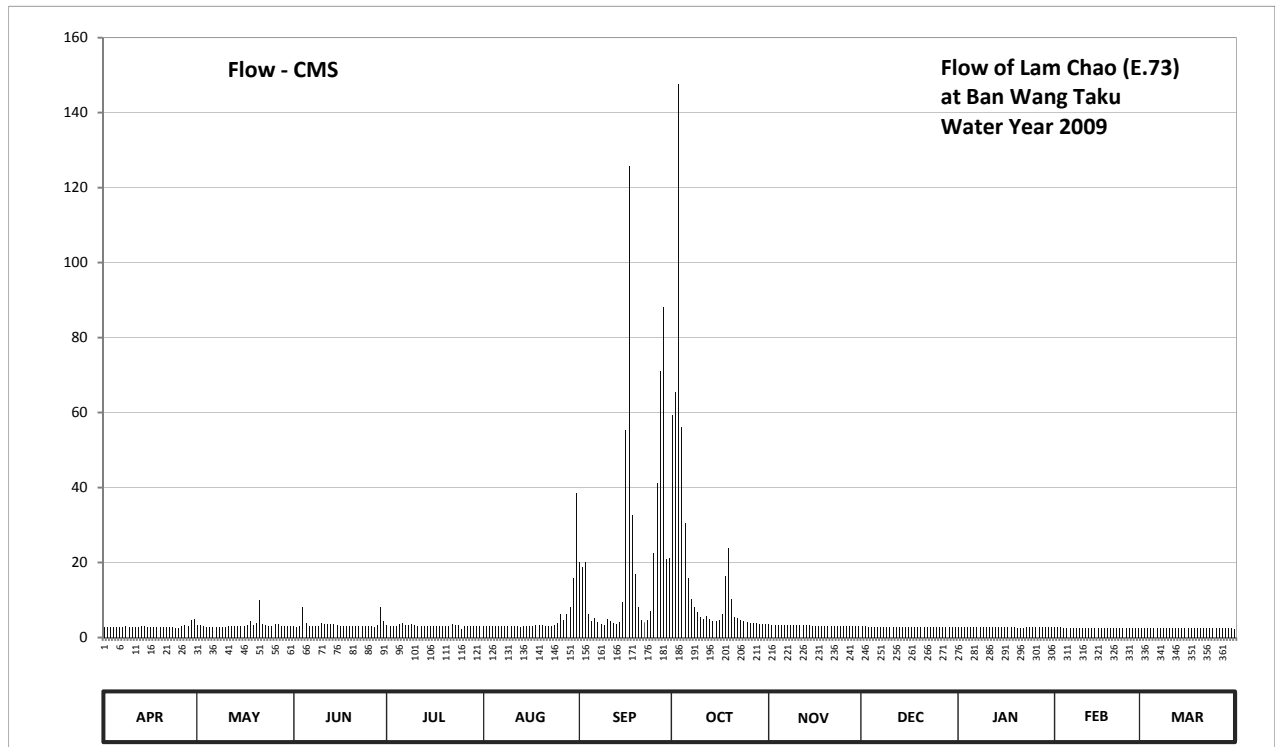
Lat 15 - 56 - 59 N Long 101 - 26 - 44 E

Location : on left bank at Ban Wang Taku, Tambon Ban Chiang.

	Ban	Wang Taku	Amphoe	Phak Di Chumphon	Changwat	Chaiyaphum
Drainage Area	251	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+247.240 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	On left bank about 2 meters from the top staff gage.				Elevation	+254.832 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow started at elevation +254.170 m.(MSL.), records are channel flow only.					
General Description	Records good. The local weir situated about 4 kilometers downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.65	249.75	249.68	249.75	249.70	250.80	252.38	249.76	249.69	249.63	249.63	249.61	
2	249.64	249.72	249.67	249.71	249.71	250.72	252.58	249.75	249.68	249.63	249.63	249.61	
3	249.64	249.68	249.71	249.71	249.70	250.80	255.07	249.74	249.66	249.63	249.63	249.61	
4	249.64	249.66	250.16	249.69	249.69	250.07	252.27	249.74	249.66	249.63	249.62	249.60	
5	249.64	249.65	249.82	249.79	249.68	249.91	251.27	249.74	249.65	249.63	249.62	249.60	
6	249.64	249.65	249.71	249.83	249.68	250.01	250.57	249.73	249.65	249.63	249.62	249.60	
7	249.64	249.64	249.69	249.75	249.68	249.85	250.28	249.73	249.65	249.63	249.62	249.60	
8	249.68	249.66	249.68	249.72	249.68	249.78	250.17	249.73	249.65	249.64	249.62	249.60	
9	249.66	249.66	249.69	249.76	249.69	249.75	250.10	249.73	249.65	249.65	249.62	249.60	
10	249.65	249.67	249.83	249.74	249.69	250.00	250.03	249.73	249.64	249.65	249.62	249.60	
11	249.65	249.71	249.76	249.71	249.69	249.90	249.99	249.73	249.64	249.64	249.61	249.60	
12	249.66	249.69	249.77	249.70	249.68	249.84	250.04	249.72	249.64	249.64	249.61	249.60	
13	249.69	249.70	249.79	249.69	249.67	249.78	249.97	249.72	249.64	249.64	249.61	249.60	
14	249.68	249.70	249.78	249.68	249.70	249.87	249.92	249.72	249.64	249.64	249.61	249.60	
15	249.66	249.69	249.73	249.68	249.70	250.23	249.90	249.71	249.64	249.64	249.61	249.60	
16	249.65	249.68	249.70	249.68	249.69	252.24	249.93	249.71	249.64	249.63	249.61	249.60	
17	249.64	249.75	249.70	249.68	249.69	254.45	250.06	249.71	249.64	249.63	249.61	249.60	
18	249.64	249.91	249.68	249.68	249.72	251.36	250.60	249.71	249.64	249.63	249.61	249.60	
19	249.64	249.74	249.68	249.68	249.73	250.63	250.99	249.71	249.64	249.63	249.61	249.60	
20	249.64	249.82	249.68	249.68	249.73	250.17	250.27	249.71	249.64	249.62	249.61	249.60	
21	249.64	250.26	249.68	249.68	249.71	249.95	250.03	249.71	249.63	249.62	249.61	249.60	
22	249.63	249.80	249.69	249.79	249.68	249.85	250.01	249.71	249.63	249.62	249.61	249.60	
23	249.63	249.73	249.68	249.72	249.69	249.96	249.95	249.70	249.63	249.63	249.61	249.60	
24	249.62	249.69	249.68	249.73	249.72	250.11	249.89	249.70	249.63	249.64	249.61	249.60	
25	249.60	249.70	249.68	249.54	249.81	250.93	249.87	249.70	249.63	249.64	249.61	249.60	
26	249.68	249.78	249.68	249.70	250.06	251.71	249.84	249.70	249.63	249.64	249.61	249.60	
27	249.73	249.78	249.67	249.69	249.96	252.77	249.83	249.70	249.63	249.64	249.61	249.60	
28	249.70	249.71	249.73	249.69	250.07	253.32	249.82	249.69	249.63	249.64	249.61	249.60	
29	249.94	249.69	250.16	249.68	250.16	250.84	249.79	249.69	249.63	249.64		249.60	
30	249.98	249.68	249.89	249.68	250.57	250.85	249.78	249.69	249.63	249.64		249.59	
31		249.68		249.70	251.60		249.77		249.63	249.63		249.58	
Mean	249.67	249.73	249.75	249.71	249.84	250.68	250.48	249.72	249.64	249.63	249.61	249.60	
Max	249.98	250.26	250.16	249.83	251.60	254.45	255.07	249.76	249.69	249.65	249.63	249.61	255.07
Min	249.60	249.64	249.67	249.54	249.67	249.75	249.77	249.69	249.63	249.62	249.61	249.58	249.54
Annual Max Momentary Gage Height		256.20		m. (MSL.) ,				at 18.00 Hours, on Oct 3, 2009					
Zero Gage at Bottom Elevation		247.24		m. (MSL.) ,		River Bed	247.61	m. (MSL)					
Left Bank Elevation		254.58		m. (MSL.) ,									
Right Bank Elevation		254.16		m. (MSL.) ,		Drainage Area	251	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.79	3.41	2.98	3.41	3.10	20.20	59.40	3.47	3.04	2.67	2.67	2.54	
2	2.73	3.22	2.91	3.16	3.16	18.68	65.40	3.41	2.98	2.67	2.67	2.54	
3	2.73	2.98	3.16	3.16	3.10	20.20	147.59	3.35	2.85	2.67	2.67	2.54	
4	2.73	2.85	8.04	3.04	3.04	6.33	56.10	3.35	2.85	2.67	2.60	2.48	
5	2.73	2.79	3.84	3.66	2.98	4.41	30.48	3.35	2.79	2.67	2.60	2.48	
6	2.73	2.79	3.16	3.91	2.98	5.19	15.83	3.29	2.79	2.67	2.60	2.48	
7	2.73	2.73	3.04	3.41	2.98	4.03	10.32	3.29	2.79	2.67	2.60	2.48	
8	2.98	2.85	2.98	3.22	2.98	3.60	8.23	3.29	2.79	2.73	2.60	2.48	
9	2.85	2.85	3.04	3.47	3.04	3.41	6.90	3.29	2.79	2.79	2.60	2.48	
10	2.79	2.91	3.91	3.35	3.04	5.00	5.57	3.29	2.73	2.79	2.60	2.48	
11	2.79	3.16	3.47	3.16	3.04	4.34	4.93	3.29	2.73	2.73	2.54	2.48	
12	2.85	3.04	3.53	3.10	2.98	3.97	5.76	3.22	2.73	2.73	2.54	2.48	
13	3.04	3.10	3.66	3.04	2.91	3.60	4.80	3.22	2.73	2.73	2.54	2.48	
14	2.98	3.10	3.60	2.98	3.10	4.15	4.47	3.22	2.73	2.73	2.54	2.48	
15	2.85	3.04	3.29	2.98	3.10	9.37	4.34	3.16	2.73	2.73	2.54	2.48	
16	2.79	2.98	3.10	2.98	3.04	55.20	4.54	3.16	2.73	2.67	2.54	2.48	
17	2.73	3.41	3.10	2.98	3.04	125.75	6.14	3.16	2.73	2.67	2.54	2.48	
18	2.73	4.41	2.98	2.98	3.22	32.64	16.40	3.16	2.73	2.67	2.54	2.48	
19	2.73	3.35	2.98	2.98	3.29	16.97	23.81	3.16	2.73	2.67	2.54	2.48	
20	2.73	3.84	2.98	2.98	3.29	8.23	10.13	3.16	2.73	2.60	2.54	2.48	
21	2.73	9.94	2.98	2.98	3.16	4.67	5.57	3.16	2.67	2.60	2.54	2.48	
22	2.67	3.72	3.04	3.66	2.98	4.03	5.19	3.16	2.67	2.60	2.54	2.48	
23	2.67	3.29	2.98	3.22	3.04	4.74	4.67	3.10	2.67	2.67	2.54	2.48	
24	2.60	3.04	2.98	3.29	3.22	7.09	4.28	3.10	2.67	2.73	2.54	2.48	
25	2.48	3.10	2.98	2.11	3.78	22.67	4.15	3.10	2.67	2.73	2.54	2.48	
26	2.98	3.60	2.98	3.10	6.14	41.04	3.97	3.10	2.67	2.73	2.54	2.48	
27	3.29	3.60	2.91	3.04	4.74	71.10	3.91	3.10	2.67	2.73	2.54	2.48	
28	3.10	3.16	3.29	3.04	6.33	88.24	3.84	3.04	2.67	2.73	2.54	2.48	
29	4.60	3.04	8.04	2.98	8.04	20.96	3.66	3.04	2.67	2.73		2.48	
30	4.87	2.98	4.28	2.98	15.83	21.15	3.60	3.04	2.67	2.73		2.42	
31		2.98		3.10	38.40		3.53		2.67	2.67		2.36	
Total	88.00	105.26	106.21	97.45	157.07	640.96	537.51	96.23	85.07	83.58	71.93	76.88	2146.15 CMSDAY
Mean	2.93	3.40	3.54	3.14	5.07	21.37	17.34	3.21	2.74	2.70	2.57	2.48	5.88 CMS
Max	4.87	9.94	8.04	3.91	38.40	125.75	147.59	3.47	3.04	2.79	2.67	2.54	147.59 CMS
Min	2.48	2.73	2.91	2.11	2.91	3.41	3.53	3.04	2.67	2.60	2.54	2.36	2.11 CMS
Runoff	7.60	9.09	9.18	8.42	13.57	55.38	46.44	8.31	7.35	7.22	6.22	6.64	185.43 MCM
Momentary Peak	190.00 CMS, at 256.20 m. (MSL), at 18.00 Hours, on Oct 3, 2009												
Runoff Yield	23.43 Liters/Second/Square KM.			Momentary Peak Yield			756,972 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

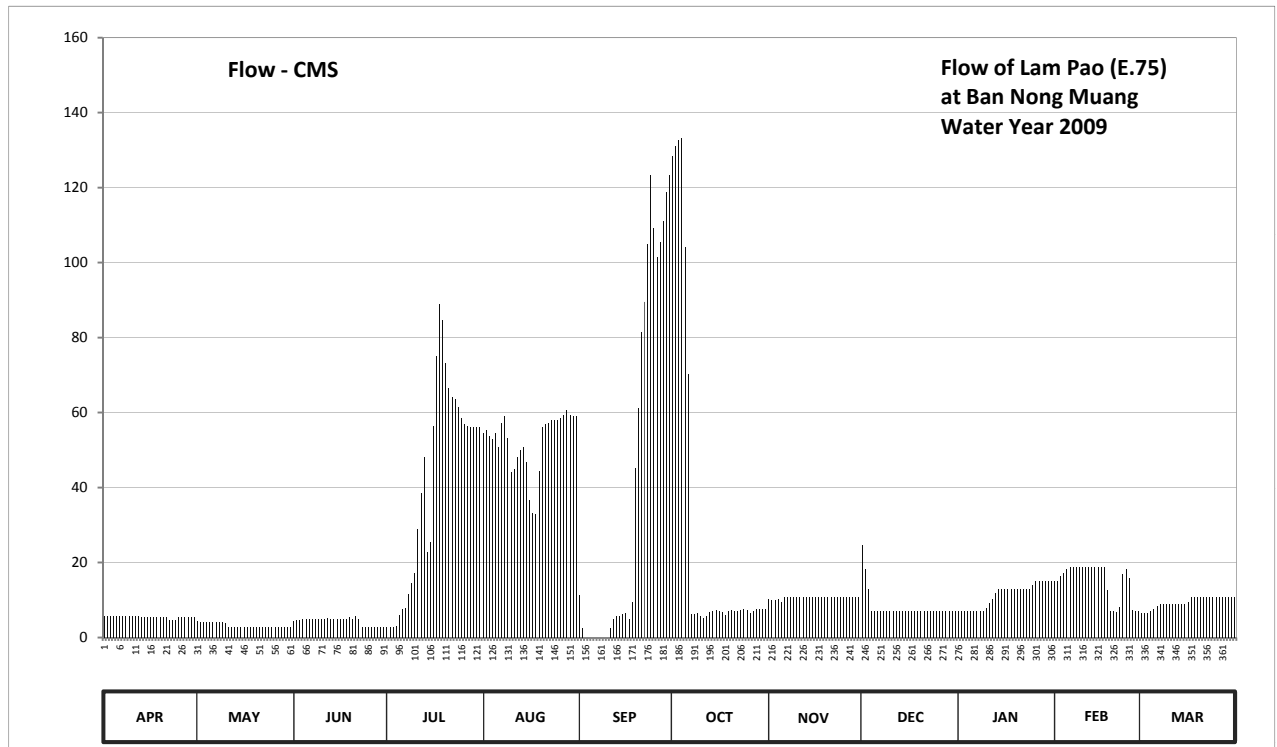
Lat 16 - 34 - 36 N Long 103 - 26 - 35 E

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

	Ban Nong Muang	Amphoe Mueang	Changwat Kalasin
Drainage Area	6,013 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+138.018 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank in front of gage observer's house.	Elevation	+149.762 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.82	137.69	137.71	137.57	139.46	138.15	140.97	138.10	138.67	137.92	138.32	137.88	
2	137.82	137.67	137.73	137.57	139.48	137.54	141.02	138.09	138.47	137.92	138.32	137.87	
3	137.82	137.67	137.73	137.57	139.44	137.34	141.05	138.09	138.22	137.92	138.38	137.87	
4	137.82	137.67	137.75	137.59	139.42	137.14	141.06	138.10	137.93	137.92	138.42	137.93	
5	137.82	137.67	137.75	137.83	139.46	137.12	140.54	138.07	137.92	137.92	138.46	137.97	
6	137.82	137.67	137.75	137.96	139.37	137.09	139.84	138.12	137.92	137.92	138.49	138.02	
7	137.82	137.67	137.75	137.98	139.53	137.22	137.85	138.12	137.92	137.92	138.49	138.04	
8	137.82	137.67	137.75	138.16	139.57	137.36	137.85	138.12	137.92	137.92	138.49	138.04	
9	137.82	137.67	137.75	138.30	139.43	137.30	137.87	138.12	137.92	137.92	138.49	138.04	
10	137.82	137.65	137.75	138.42	139.20	137.35	137.81	138.12	137.92	137.99	138.49	138.04	
11	137.82	137.57	137.75	138.79	139.22	137.55	137.77	138.12	137.92	138.05	138.49	138.04	
12	137.82	137.57	137.76	139.06	139.30	137.75	137.82	138.12	137.92	138.10	138.49	138.04	
13	137.80	137.57	137.75	139.30	139.35	137.82	137.90	138.12	137.92	138.17	138.49	138.04	
14	137.80	137.57	137.75	138.61	139.37	137.82	137.93	138.12	137.92	138.22	138.49	138.04	
15	137.80	137.57	137.75	138.69	139.27	137.85	137.95	138.12	137.92	138.22	138.49	138.04	
16	137.80	137.57	137.75	139.51	139.02	137.87	137.93	138.12	137.92	138.22	138.49	138.07	
17	137.80	137.57	137.75	139.95	138.92	137.74	137.89	138.12	137.92	138.22	138.49	138.12	
18	137.80	137.57	137.75	140.24	138.91	138.06	137.84	138.12	137.92	138.22	138.21	138.12	
19	137.80	137.57	137.80	140.15	139.21	139.23	137.92	138.12	137.92	138.22	137.92	138.12	
20	137.80	137.57	137.74	139.91	139.50	139.62	137.95	138.12	137.92	138.22	137.92	138.12	
21	137.79	137.57	137.82	139.75	139.52	140.09	137.92	138.12	137.92	138.22	137.89	138.12	
22	137.72	137.57	137.75	139.69	139.53	140.25	137.92	138.12	137.92	138.22	138.00	138.12	
23	137.72	137.57	137.57	139.68	139.55	140.55	137.94	138.12	137.92	138.22	138.40	138.12	
24	137.72	137.57	137.57	139.63	139.55	140.88	137.97	138.12	137.92	138.22	138.46	138.12	
25	137.78	137.57	137.57	139.56	139.55	140.63	137.95	138.12	137.92	138.27	138.36	138.12	
26	137.78	137.57	137.57	139.52	139.56	140.49	137.87	138.12	137.92	138.32	137.94	138.12	
27	137.79	137.57	137.57	139.51	139.58	140.56	137.93	138.12	137.92	138.32	137.92	138.12	
28	137.80	137.57	137.57	139.50	139.61	140.66	137.97	138.12	137.92	138.32	137.92	138.12	
29	137.80	137.57	137.57	139.50	139.58	140.80	137.97	138.12	137.92	138.32		138.12	
30	137.80	137.57	137.57	139.50	139.57	140.88	137.97	138.12	137.92	138.32		138.12	
31		137.57		139.50	139.57		137.97		137.92	138.32		138.12	
Mean	137.80	137.60	137.70	138.98	139.41	138.69	138.46	138.12	137.97	138.14	138.31	138.06	
Max	137.82	137.69	137.82	140.24	139.61	140.88	141.06	138.12	138.67	138.32	138.49	138.12	141.06
Min	137.72	137.57	137.57	137.57	138.91	137.09	137.77	138.07	137.92	137.92	137.89	137.87	137.09
Annual Max Momentary Gage Height	141.07		m. (MSL.) ,				at 12.00 Hours, on Oct 3, 2009						
Zero Gage at Bottom Elevation	138.02		m. (MSL.) ,			River Bed	137.62		m. (MSL)				
Left Bank Elevation	149.97		m. (MSL.) ,										
Right Bank Elevation	150.03		m. (MSL.) ,			Drainage Area	6013		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.84	4.28	4.52	2.84	54.40	11.30	128.32	10.20	24.78	7.04	15.04	6.56	
2	5.84	4.04	4.76	2.84	55.20	2.48	131.12	9.98	18.34	7.04	15.04	6.44	
3	5.84	4.04	4.76	2.84	53.60	0.00	132.80	9.98	12.84	7.04	16.36	6.44	
4	5.84	4.04	5.00	3.08	52.80	0.00	133.36	10.20	7.16	7.04	17.24	7.16	
5	5.84	4.04	5.00	5.96	54.40	0.00	104.24	9.54	7.04	7.04	18.12	7.64	
6	5.84	4.04	5.00	7.52	50.80	0.00	70.28	10.64	7.04	7.04	18.78	8.44	
7	5.84	4.04	5.00	7.76	57.26	0.00	6.20	10.64	7.04	7.04	18.78	8.88	
8	5.84	4.04	5.00	11.52	58.94	0.00	6.20	10.64	7.04	7.04	18.78	8.88	
9	5.84	4.04	5.00	14.60	53.20	0.00	6.44	10.64	7.04	7.04	18.78	8.88	
10	5.84	3.80	5.00	17.24	44.00	0.00	5.72	10.64	7.04	7.88	18.78	8.88	
11	5.84	2.84	5.00	28.86	44.80	2.60	5.24	10.64	7.04	9.10	18.78	8.88	
12	5.84	2.84	5.12	38.40	48.00	5.00	5.84	10.64	7.04	10.20	18.78	8.88	
13	5.60	2.84	5.00	48.00	50.00	5.84	6.80	10.64	7.04	11.74	18.78	8.88	
14	5.60	2.84	5.00	22.74	50.80	5.84	7.16	10.64	7.04	12.84	18.78	8.88	
15	5.60	2.84	5.00	25.46	46.80	6.20	7.40	10.64	7.04	12.84	18.78	8.88	
16	5.60	2.84	5.00	56.42	36.80	6.44	7.16	10.64	7.04	12.84	18.78	9.54	
17	5.60	2.84	5.00	74.90	33.28	4.88	6.68	10.64	7.04	12.84	18.78	10.64	
18	5.60	2.84	5.00	89.00	32.94	9.32	6.08	10.64	7.04	12.84	12.62	10.64	
19	5.60	2.84	5.60	84.50	44.40	45.20	7.04	10.64	7.04	12.84	7.04	10.64	
20	5.60	2.84	4.88	73.22	56.00	61.04	7.40	10.64	7.04	12.84	7.04	10.64	
21	5.48	2.84	5.84	66.50	56.84	81.50	7.04	10.64	7.04	12.84	6.68	10.64	
22	4.64	2.84	5.00	63.98	57.26	89.50	7.04	10.64	7.04	12.84	8.00	10.64	
23	4.64	2.84	2.84	63.56	58.10	104.80	7.28	10.64	7.04	12.84	16.80	10.64	
24	4.64	2.84	2.84	61.46	58.10	123.28	7.64	10.64	7.04	12.84	18.12	10.64	
25	5.36	2.84	2.84	58.52	58.10	109.28	7.40	10.64	7.04	13.94	15.92	10.64	
26	5.36	2.84	2.84	56.84	58.52	101.50	6.44	10.64	7.04	15.04	7.28	10.64	
27	5.48	2.84	2.84	56.42	59.36	105.36	7.16	10.64	7.04	15.04	7.04	10.64	
28	5.60	2.84	2.84	56.00	60.62	110.96	7.64	10.64	7.04	15.04	7.04	10.64	
29	5.60	2.84	2.84	56.00	59.36	118.80	7.64	10.64	7.04	15.04		10.64	
30	5.60	2.84	2.84	56.00	58.94	123.28	7.64	10.64	7.04	15.04		10.64	
31		2.84		56.00	58.94		7.64		7.04	15.04		10.64	
Total	167.28	100.04	133.20	1268.98	1622.56	1234.40	872.04	315.90	253.20	347.70	420.74	291.74	7027.78 CMSDAY
Mean	5.58	3.23	4.44	40.93	52.34	41.15	28.13	10.53	8.17	11.22	15.03	9.41	19.25 CMS
Max	5.84	4.28	5.84	89.00	60.62	123.28	133.36	10.64	24.78	15.04	18.78	10.64	133.36 CMS
Min	4.64	2.84	2.84	2.84	32.94	0.00	5.24	9.54	7.04	7.04	6.68	6.44	0.00 CMS
Runoff	14.45	8.64	11.51	109.64	140.19	106.65	75.34	27.29	21.88	30.04	36.35	25.21	607.20 MCM
Momentary Peak	133.92 CMS, at 141.07 m. (MSL), at 12.00 Hours, on Oct 3, 2009												
Runoff Yield	3.20 Liters/Second/Square KM.			Momentary Peak Yield			22.272 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

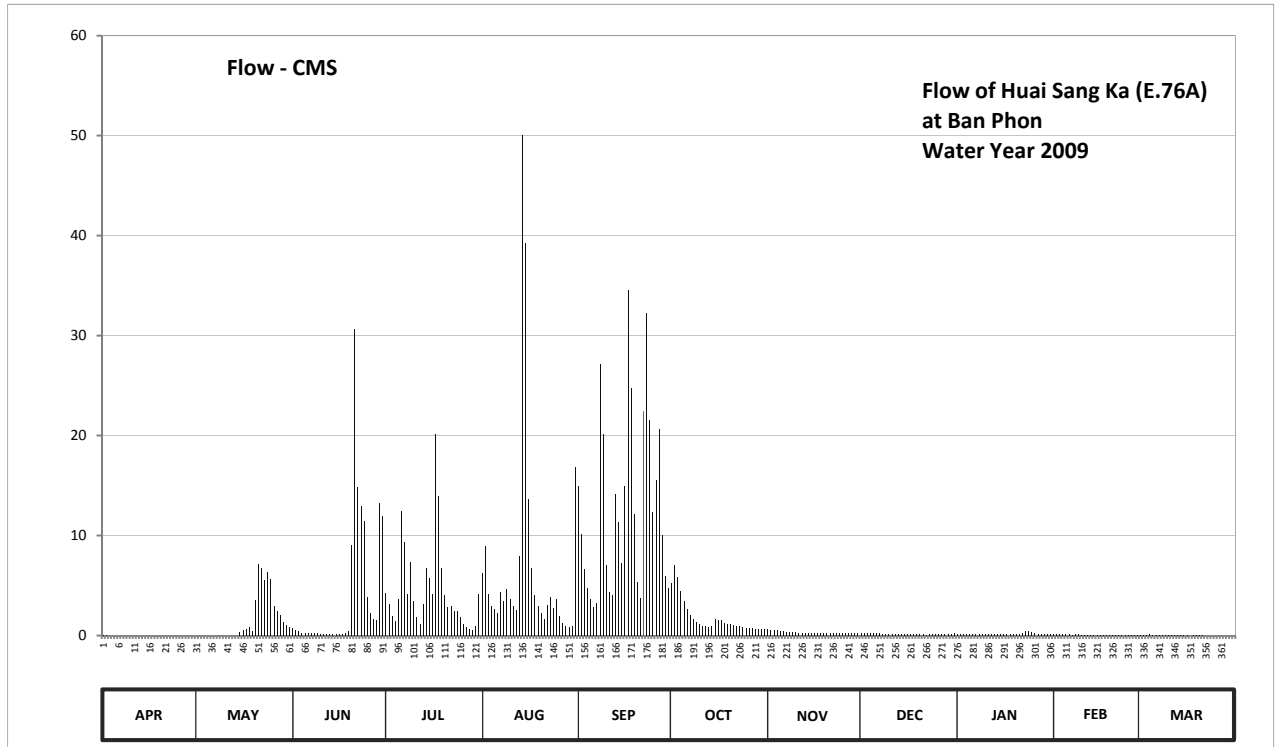
Lat 16 - 51 - 33 N Long 103 - 35 - 53 E

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

	Ban Phon	Amphoe Kham Muang	Changwat Kalasin
Drainage Area	195 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+163.900 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank about 2.50 meters from the top staff gage.	Elevation	+173.809 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +169.510 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	164.21	164.07	164.60	165.34	165.63	166.64	165.49	164.56	164.36	164.34	164.31	164.28	
2	164.21	164.06	164.52	165.16	165.99	166.14	165.75	164.53	164.36	164.33	164.30	164.28	
3	164.20	164.05	164.46	164.94	165.32	165.69	165.58	164.52	164.35	164.33	164.31	164.29	
4	164.20	164.04	164.39	164.85	165.13	165.42	165.38	164.52	164.35	164.33	164.31	164.30	
5	164.20	164.03	164.36	165.24	165.08	165.24	165.21	164.50	164.35	164.33	164.30	164.29	
6	164.20	164.03	164.37	166.39	165.01	165.10	165.07	164.45	164.35	164.33	164.30	164.29	
7	164.20	164.02	164.36	166.04	165.36	165.18	164.98	164.43	164.35	164.33	164.29	164.26	
8	164.18	164.02	164.36	165.32	165.21	167.69	164.90	164.42	164.34	164.33	164.30	164.21	
9	164.17	164.01	164.35	165.79	165.40	167.12	164.83	164.42	164.33	164.33	164.30	164.22	
10	164.17	164.00	164.34	165.20	165.24	165.75	164.77	164.40	164.33	164.33	164.29	164.22	
11	164.16	164.00	164.34	164.92	165.13	165.36	164.73	164.39	164.33	164.34	164.29	164.24	
12	164.16	164.00	164.34	164.77	165.06	165.30	164.71	164.38	164.33	164.34	164.29	164.25	
13	164.15	164.00	164.32	165.16	165.87	166.56	164.69	164.38	164.33	164.33	164.29	164.24	
14	164.15	164.08	164.32	165.71	169.17	166.28	164.72	164.38	164.33	164.33	164.29	164.24	
15	164.15	164.42	164.32	165.56	168.56	165.78	164.90	164.39	164.32	164.32	164.29	164.22	
16	164.16	164.53	164.33	165.33	166.51	166.64	164.86	164.38	164.32	164.32	164.29	164.21	
17	164.16	164.59	164.34	167.12	165.71	168.24	164.86	164.36	164.31	164.32	164.29	164.20	
18	164.16	164.69	164.36	166.54	165.31	167.50	164.82	164.35	164.31	164.31	164.29	164.21	
19	164.15	164.50	164.46	165.70	165.13	166.37	164.77	164.36	164.31	164.30	164.28	164.21	
20	164.14	165.22	166.01	165.31	165.00	165.51	164.78	164.38	164.30	164.31	164.28	164.21	
21	164.13	165.76	167.96	165.10	164.89	165.26	164.75	164.35	164.30	164.33	164.28	164.21	
22	164.12	165.71	166.63	165.13	165.14	167.31	164.72	164.35	164.29	164.37	164.28	164.20	
23	164.11	165.54	166.45	165.04	165.27	168.07	164.71	164.35	164.30	164.45	164.28	164.20	
24	164.10	165.65	166.29	165.04	165.09	167.24	164.67	164.35	164.30	164.45	164.29	164.20	
25	164.10	165.55	165.27	164.93	165.24	166.38	164.64	164.36	164.31	164.41	164.29	164.20	
26	164.09	165.13	165.00	164.77	164.95	166.70	164.63	164.35	164.32	164.35	164.29	164.20	
27	164.09	165.04	164.90	164.65	164.80	167.16	164.62	164.35	164.33	164.34	164.28	164.20	
28	164.08	164.96	164.87	164.58	164.72	166.13	164.59	164.36	164.33	164.33	164.28	164.20	
29	164.08	164.83	166.47	164.52	164.69	165.59	164.56	164.35	164.33	164.33	164.28	164.20	
30	164.08	164.75	166.34	164.72	164.72	165.42	164.56	164.36	164.34	164.33	164.28	164.20	
31	164.08	164.68	165.33	166.83	166.83	165.42	164.56	164.36	164.34	164.33	164.28	164.20	
Mean	164.15	164.58	164.98	165.30	165.52	166.29	164.86	164.40	164.33	164.34	164.29	164.23	
Max	164.21	165.76	167.96	167.12	169.17	168.24	165.75	164.56	164.36	164.45	164.31	164.30	169.17
Min	164.08	164.00	164.32	164.52	164.69	165.10	164.56	164.35	164.29	164.30	164.28	164.20	164.00
Annual Max Momentary Gage Height	169.87		m. (MSL.) ,			at 24.00 Hours, on Aug 14, 2009							
Zero Gage at Bottom Elevation	163.90		m. (MSL.) ,			River Bed	163.88		m. (MSL)				
Left Bank Elevation	171.37		m. (MSL.) ,										
Right Bank Elevation	169.50		m. (MSL.) ,			Drainage Area	195		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.00	0.70	4.24	6.21	14.90	5.23	0.62	0.22	0.18	0.12	0.08	
2	0.01	0.00	0.54	3.16	8.92	10.12	7.05	0.56	0.22	0.16	0.10	0.08	
3	0.00	0.00	0.42	1.90	4.12	6.63	5.86	0.54	0.20	0.16	0.12	0.09	
4	0.00	0.00	0.28	1.45	2.98	4.74	4.48	0.54	0.20	0.16	0.12	0.10	
5	0.00	0.00	0.22	3.64	2.68	3.64	3.46	0.50	0.20	0.16	0.10	0.09	
6	0.00	0.00	0.24	12.40	2.26	2.80	2.62	0.40	0.20	0.16	0.10	0.09	
7	0.00	0.00	0.22	9.32	4.36	3.28	2.10	0.36	0.20	0.16	0.09	0.06	
8	0.00	0.00	0.22	4.12	3.46	27.17	1.70	0.34	0.18	0.16	0.10	0.01	
9	0.00	0.00	0.20	7.33	4.60	20.14	1.35	0.34	0.16	0.16	0.10	0.02	
10	0.00	0.00	0.18	3.40	3.64	7.05	1.11	0.30	0.16	0.16	0.09	0.02	
11	0.00	0.00	0.18	1.80	2.98	4.36	0.99	0.28	0.16	0.18	0.09	0.04	
12	0.00	0.00	0.18	1.11	2.56	4.00	0.93	0.26	0.16	0.18	0.09	0.05	
13	0.00	0.00	0.14	3.16	7.96	14.10	0.88	0.26	0.16	0.16	0.09	0.04	
14	0.00	0.00	0.14	6.77	50.10	11.32	0.96	0.26	0.16	0.16	0.09	0.04	
15	0.00	0.34	0.14	5.72	39.22	7.26	1.70	0.28	0.14	0.14	0.09	0.02	
16	0.00	0.56	0.16	4.18	13.60	14.90	1.50	0.26	0.14	0.14	0.09	0.01	
17	0.00	0.68	0.18	20.14	6.77	34.56	1.50	0.22	0.12	0.14	0.09	0.00	
18	0.00	0.88	0.22	13.90	4.06	24.70	1.30	0.20	0.12	0.12	0.09	0.01	
19	0.00	0.50	0.42	6.70	2.98	12.20	1.11	0.22	0.12	0.10	0.08	0.01	
20	0.00	3.52	9.08	4.06	2.20	5.37	1.14	0.26	0.10	0.12	0.08	0.01	
21	0.00	7.12	30.68	2.80	1.65	3.76	1.05	0.20	0.10	0.16	0.08	0.01	
22	0.00	6.77	14.80	2.98	3.04	22.42	0.96	0.20	0.09	0.24	0.08	0.00	
23	0.00	5.58	13.00	2.44	3.82	32.18	0.93	0.20	0.10	0.40	0.08	0.00	
24	0.00	6.35	11.41	2.44	2.74	21.58	0.84	0.20	0.10	0.40	0.09	0.00	
25	0.00	5.65	3.82	1.85	3.64	12.30	0.78	0.22	0.12	0.32	0.09	0.00	
26	0.00	2.98	2.20	1.11	1.95	15.50	0.76	0.20	0.14	0.20	0.09	0.00	
27	0.00	2.44	1.70	0.80	1.20	20.62	0.74	0.20	0.16	0.18	0.08	0.00	
28	0.00	2.00	1.55	0.66	0.96	10.04	0.68	0.22	0.16	0.16	0.08	0.00	
29	0.00	1.35	13.20	0.54	0.88	5.93	0.62	0.20	0.16	0.16	0.08	0.00	
30	0.00	1.05	11.90	0.96	0.96	4.74	0.62	0.22	0.18	0.16	0.08	0.00	
31	0.00	0.86	4.18	16.80	0.62	0.22	0.12	0.22	0.12	0.12	0.08	0.00	
Total	0.02	48.63	118.32	139.26	213.30	382.31	55.57	9.06	4.85	5.56	2.59	0.88	980.35 CMSDAY
Mean	0.00	1.57	3.94	4.49	6.88	12.74	1.79	0.30	0.16	0.18	0.09	0.03	2.69 CMS
Max	0.01	7.12	30.68	20.14	50.10	34.56	7.05	0.62	0.22	0.40	0.12	0.10	50.10 CMS
Min	0.00	0.00	0.14	0.54	0.88	2.80	0.62	0.20	0.09	0.10	0.08	0.00	0.00 CMS
Runoff	0.00	4.20	10.22	12.03	18.43	33.03	4.80	0.78	0.42	0.48	0.22	0.08	84.70 MCM
Momentary Peak	65.21 CMS, at 169.87 m. (MSL), at 24.00 Hours, on Aug 14, 2009												
Runoff Yield	13.77 Liters/Second/Square KM.			Momentary Peak Yield			334,410 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Lam Saphung at Ban Na Charoen , Chaiyaphum (E.83)

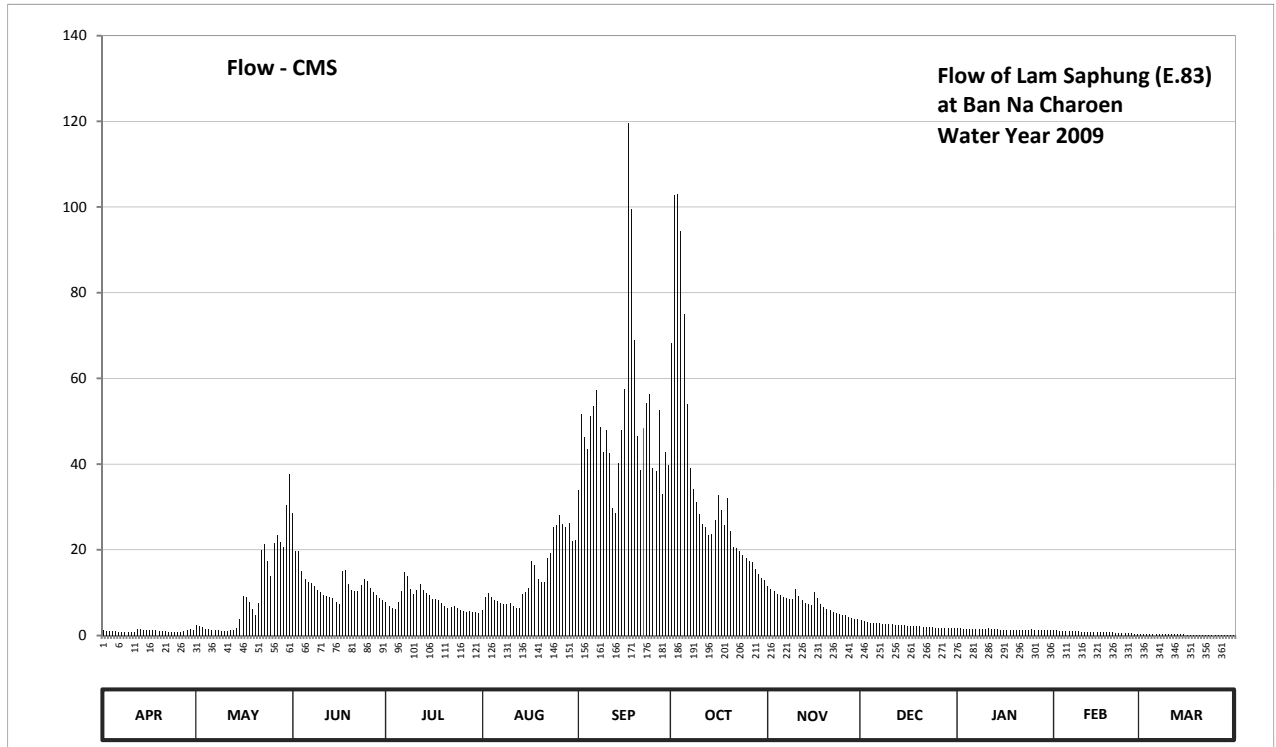
Lat 16 - 09 - 21 N Long 101 - 39 - 13 E

Location : on left bank at Ban Na Charoen.

	Ban Na Charoen	Amphoe Nong Bua Daeng	Changwat Chaiyaphum
Drainage Area	744 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+222.750 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	Elevation	+236.237 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	223.39	223.81	227.29	224.79	224.50	227.74	229.85	225.38	224.09	223.55	223.40	223.14	
2	223.37	223.74	226.40	224.66	224.98	228.98	231.43	225.27	224.05	223.54	223.39	223.13	
3	223.35	223.63	226.42	224.57	225.12	228.62	231.44	225.19	224.01	223.53	223.38	223.13	
4	223.33	223.53	225.86	224.53	225.00	228.43	231.10	225.11	223.99	223.52	223.37	223.12	
5	223.31	223.47	225.60	224.80	224.89	228.95	230.19	225.06	223.97	223.51	223.36	223.11	
6	223.29	223.43	225.51	225.20	224.83	229.08	229.10	225.00	223.95	223.50	223.35	223.10	
7	223.28	223.41	225.47	225.84	224.77	229.27	228.14	224.96	223.93	223.49	223.34	223.10	
8	223.26	223.39	225.38	225.71	224.73	228.77	227.76	224.91	223.92	223.50	223.33	223.10	
9	223.26	223.37	225.24	225.26	224.71	228.38	227.52	224.90	223.90	223.51	223.31	223.09	
10	223.26	223.35	225.15	225.09	224.77	228.73	227.28	225.27	223.88	223.53	223.30	223.09	
11	223.26	223.38	225.08	225.23	224.65	228.37	227.09	225.04	223.86	223.55	223.29	223.08	
12	223.48	223.40	225.03	225.43	224.56	227.40	227.03	224.88	223.84	223.52	223.28	223.08	
13	223.49	223.41	224.98	225.22	224.56	227.30	226.83	224.77	223.82	223.51	223.27	223.08	
14	223.46	223.56	224.95	225.13	225.09	228.22	226.86	224.72	223.79	223.48	223.26	223.08	
15	223.40	224.16	224.81	225.06	225.15	228.72	227.17	224.70	223.78	223.46	223.25	223.08	
16	223.41	225.04	224.73	224.93	225.29	229.29	227.65	225.17	223.76	223.45	223.25	223.07	
17	223.41	224.99	225.85	224.90	226.15	232.10	227.35	224.97	223.75	223.44	223.25	223.07	
18	223.39	224.81	225.90	224.87	226.05	231.30	227.06	224.72	223.73	223.43	223.25	223.07	
19	223.37	224.54	225.43	224.75	225.58	229.89	227.58	224.59	223.72	223.43	223.24	223.07	
20	223.33	224.30	225.24	224.63	225.50	228.63	226.94	224.54	223.71	223.43	223.23	223.06	
21	223.31	224.78	225.19	224.58	225.50	228.11	226.53	224.49	223.70	223.43	223.22	223.06	
22	223.29	226.45	225.21	224.61	226.22	228.76	226.48	224.42	223.67	223.43	223.21	223.06	
23	223.27	226.59	225.41	224.66	226.35	229.12	226.41	224.38	223.64	223.43	223.20	223.06	
24	223.24	226.15	225.58	224.55	227.02	229.23	226.32	224.34	223.62	223.44	223.19	223.05	
25	223.23	225.69	225.53	224.50	227.07	228.14	226.24	224.31	223.61	223.48	223.18	223.05	
26	223.29	226.63	225.31	224.46	227.27	228.09	226.16	224.28	223.60	223.46	223.16	223.05	
27	223.32	226.83	225.16	224.42	227.08	229.03	226.13	224.23	223.59	223.44	223.15	223.04	
28	223.40	226.64	225.05	224.47	227.02	227.66	225.92	224.19	223.58	223.43	223.15	223.04	
29	223.50	226.51	224.95	224.42	227.10	228.38	225.75	224.15	223.57	223.42		223.04	
30	223.41	227.45	224.89	224.40	226.67	228.19	225.62	224.13	223.56	223.41		223.04	
31		228.04		224.39	226.70		225.56		223.56	223.40		223.04	
Mean	223.35	224.79	225.42	224.84	225.64	228.76	227.50	224.74	223.78	223.47	223.27	223.08	
Max	223.50	228.04	227.29	225.84	227.27	232.10	231.44	225.38	224.09	223.55	223.40	223.14	232.10
Min	223.23	223.35	224.73	224.39	224.50	227.30	225.56	224.13	223.56	223.40	223.15	223.04	223.04
Annual Max Momentary Gage Height		232.45	m. (MSL.) ,			at 06.00 Hours, on Sep 17, 2009							
Zero Gage at Bottom Elevation		222.75	m. (MSL.) ,			River Bed	222.63	m. (MSL)					
Left Bank Elevation		233.42	m. (MSL.) ,										
Right Bank Elevation		232.75	m. (MSL.) ,			Drainage Area	744	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.17	2.43	28.48	7.74	6.00	33.88	68.15	11.66	3.54	1.65	1.20	0.42	
2	1.11	2.22	19.60	6.96	8.88	51.70	102.75	10.89	3.30	1.62	1.17	0.39	
3	1.05	1.89	19.78	6.42	9.84	46.30	103.00	10.33	3.06	1.59	1.14	0.39	
4	0.99	1.59	15.02	6.18	9.00	43.45	94.50	9.77	2.97	1.56	1.11	0.36	
5	0.93	1.41	13.20	7.80	8.34	51.25	74.99	9.42	2.91	1.53	1.08	0.33	
6	0.87	1.29	12.57	10.40	7.98	53.52	53.90	9.00	2.85	1.50	1.05	0.30	
7	0.84	1.23	12.29	14.88	7.62	57.13	39.10	8.76	2.79	1.47	1.02	0.30	
8	0.78	1.17	11.66	13.97	7.38	48.55	34.12	8.46	2.76	1.50	0.99	0.30	
9	0.78	1.11	10.68	10.82	7.26	42.70	31.24	8.40	2.70	1.53	0.93	0.27	
10	0.78	1.05	10.05	9.63	7.62	47.95	28.36	10.89	2.64	1.59	0.90	0.27	
11	0.78	1.14	9.56	10.61	6.90	42.55	26.08	9.28	2.58	1.65	0.87	0.24	
12	1.44	1.20	9.21	12.01	6.36	29.80	25.36	8.28	2.52	1.56	0.84	0.24	
13	1.47	1.23	8.88	10.54	6.36	28.60	23.47	7.62	2.46	1.53	0.81	0.24	
14	1.38	1.68	8.70	9.91	9.63	40.30	23.74	7.32	2.37	1.44	0.78	0.24	
15	1.20	3.96	7.86	9.42	10.05	47.80	27.04	7.20	2.34	1.38	0.75	0.24	
16	1.23	9.28	7.38	8.58	11.03	57.51	32.80	10.19	2.28	1.35	0.75	0.21	
17	1.23	8.94	14.95	8.40	17.35	119.70	29.20	8.82	2.25	1.32	0.75	0.21	
18	1.17	7.86	15.30	8.22	16.45	99.50	25.72	7.32	2.19	1.29	0.75	0.21	
19	1.11	6.24	12.01	7.50	13.06	68.91	31.96	6.54	2.16	1.29	0.72	0.21	
20	0.99	4.80	10.68	6.78	12.50	46.45	24.46	6.24	2.13	1.29	0.69	0.18	
21	0.93	7.68	10.33	6.48	12.50	38.65	20.77	5.94	2.10	1.29	0.66	0.18	
22	0.87	20.05	10.47	6.66	17.98	48.40	20.32	5.52	2.01	1.29	0.63	0.18	
23	0.81	21.31	11.87	6.96	19.15	54.28	19.69	5.28	1.92	1.29	0.60	0.18	
24	0.72	17.35	13.06	6.30	25.24	56.37	18.88	5.04	1.86	1.32	0.57	0.15	
25	0.69	13.83	12.71	6.00	25.84	39.10	18.16	4.86	1.83	1.44	0.54	0.15	
26	0.87	21.67	11.17	5.76	28.24	38.35	17.44	4.68	1.80	1.38	0.48	0.15	
27	0.96	23.47	10.12	5.52	25.96	52.57	17.17	4.38	1.77	1.32	0.45	0.12	
28	1.20	21.76	9.35	5.82	25.24	32.92	15.44	4.14	1.74	1.29	0.45	0.12	
29	1.50	20.59	8.70	5.52	26.20	42.70	14.25	3.90	1.71	1.26		0.12	
30	1.23	30.40	8.34	5.40	22.03	39.85	13.34	3.78	1.68	1.23		0.12	
31		37.60		5.34	22.30		12.92		1.68	1.20		0.12	
Total	31.08	297.43	363.98	252.53	440.29	1500.74	1088.32	223.91	72.90	43.95	22.68	7.14	4344.95 CMSDAY
Mean	1.04	9.59	12.13	8.15	14.20	50.02	35.11	7.46	2.35	1.42	0.81	0.23	11.90 CMS
Max	1.50	37.60	28.48	14.88	28.24	119.70	103.00	11.66	3.54	1.65	1.20	0.42	119.70 CMS
Min	0.69	1.05	7.38	5.34	6.00	28.60	12.92	3.78	1.68	1.20	0.45	0.12	0.12 CMS
Runoff	2.69	25.70	31.45	21.82	38.04	129.66	94.03	19.35	6.30	3.80	1.96	0.62	375.40 MCM
Momentary Peak	129.15 CMS, at 232.45 m. (MSL), at 06.00 Hours, on Sep 17, 2009												
Runoff Yield	16.00 Liters/Second/Square KM.			Momentary Peak Yield			173.589 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

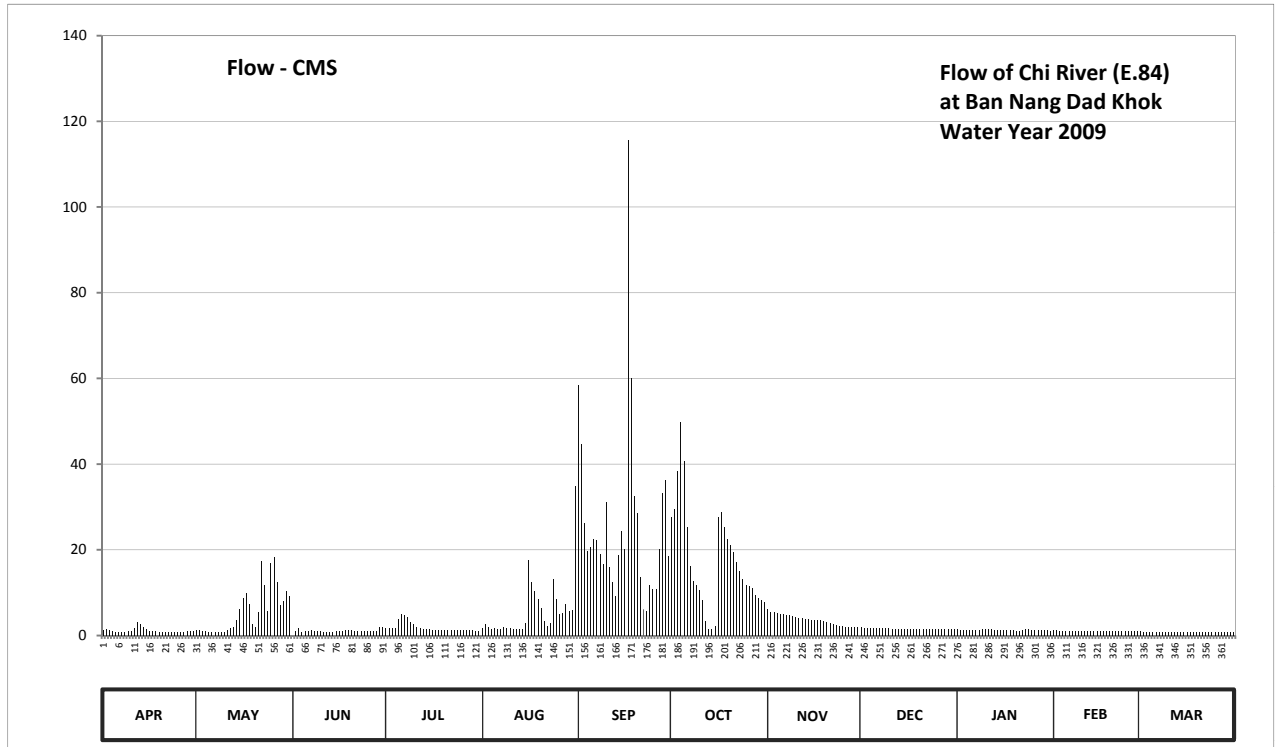
Lat 16 - 09 - 08 N Long 101 - 35 - 07 E

Location : on left bank at Ban Nang Dad Khok.

	Ban	Nang Dad Khok	Amphoe	Nong Bua Daeng	Changwat	Chaiyaphum
Drainage Area	508	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+237.650 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On left bank downstream at the footpath of the bridge.				Elevation	+246.755 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +243.240 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.31	239.34	238.94	239.45	239.44	242.89	241.61	240.02	239.46	239.35	239.30	239.23	
2	239.35	239.32	239.27	239.44	239.59	242.52	241.72	239.94	239.45	239.34	239.30	239.22	
3	239.30	239.24	239.43	239.41	239.49	241.51	242.22	239.92	239.45	239.33	239.29	239.22	
4	239.24	239.23	239.22	239.42	239.38	241.10	242.69	239.91	239.44	239.32	239.29	239.22	
5	239.22	239.21	239.27	239.74	239.42	241.16	242.33	239.89	239.44	239.31	239.28	239.21	
6	239.21	239.20	239.28	239.89	239.39	241.29	241.46	239.87	239.43	239.30	239.28	239.21	
7	239.21	239.20	239.31	239.85	239.39	241.26	240.88	239.85	239.42	239.30	239.27	239.21	
8	239.21	239.20	239.26	239.79	239.49	241.06	240.62	239.84	239.41	239.31	239.27	239.21	
9	239.23	239.20	239.25	239.63	239.45	240.91	240.55	239.82	239.41	239.38	239.26	239.21	
10	239.25	239.20	239.23	239.57	239.42	241.82	240.47	239.80	239.41	239.39	239.26	239.21	
11	239.41	239.31	239.21	239.48	239.40	240.86	240.23	239.77	239.40	239.39	239.26	239.22	
12	239.65	239.42	239.21	239.42	239.39	240.61	239.66	239.75	239.40	239.36	239.26	239.22	
13	239.58	239.50	239.21	239.38	239.36	240.32	239.40	239.74	239.40	239.33	239.26	239.22	
14	239.46	239.69	239.21	239.35	239.36	241.05	239.38	239.72	239.40	239.32	239.25	239.22	
15	239.37	240.02	239.23	239.35	239.62	241.40	239.54	239.71	239.40	239.31	239.25	239.22	
16	239.25	240.27	239.23	239.34	240.97	241.13	241.60	239.71	239.40	239.30	239.25	239.22	
17	239.24	240.39	239.24	239.34	240.61	243.47	241.68	239.71	239.40	239.30	239.25	239.22	
18	239.23	240.13	239.34	239.34	240.44	242.92	241.45	239.70	239.40	239.30	239.25	239.22	
19	239.22	239.58	239.30	239.33	240.25	241.91	241.29	239.68	239.40	239.30	239.25	239.22	
20	239.21	239.51	239.31	239.33	240.04	241.66	241.19	239.63	239.39	239.29	239.25	239.22	
21	239.20	239.93	239.28	239.33	239.66	240.69	241.09	239.61	239.39	239.29	239.25	239.21	
22	239.19	240.95	239.27	239.33	239.53	240.01	240.94	239.58	239.39	239.30	239.24	239.21	
23	239.18	240.55	239.27	239.32	239.60	239.97	240.79	239.55	239.39	239.36	239.24	239.21	
24	239.18	239.95	239.25	239.31	240.66	240.56	240.65	239.53	239.38	239.40	239.24	239.21	
25	239.18	240.92	239.24	239.31	240.26	240.49	240.56	239.52	239.38	239.34	239.24	239.21	
26	239.19	241.02	239.23	239.30	239.88	240.49	240.54	239.51	239.38	239.32	239.24	239.20	
27	239.20	240.61	239.27	239.30	239.91	241.14	240.50	239.50	239.37	239.32	239.23	239.20	
28	239.23	240.10	239.26	239.30	240.14	241.96	240.35	239.49	239.37	239.31	239.23	239.20	
29	239.26	240.21	239.51	239.30	239.95	242.11	240.27	239.49	239.37	239.30		239.20	
30	239.25	240.44	239.47	239.29	239.98	241.03	240.23	239.48	239.37	239.30		239.20	
31		240.32		239.29	242.04		240.19		239.37	239.29		239.20	
Mean	239.27	239.84	239.27	239.43	239.86	241.31	240.84	239.71	239.40	239.32	239.26	239.21	
Max	239.65	241.02	239.51	239.89	242.04	243.47	242.69	240.02	239.46	239.40	239.30	239.23	243.47
Min	239.18	239.20	238.94	239.29	239.36	239.97	239.38	239.48	239.37	239.29	239.23	239.20	238.94
Annual Max Momentary Gage Height		243.70	m. (MSL.) ,				at 14.00 Hours, on Sep 17, 2009						
Zero Gage at Bottom Elevation		237.65	m. (MSL.) ,			River Bed	238.34	m. (MSL)					
Left Bank Elevation		243.23	m. (MSL.) ,										
Right Bank Elevation		243.91	m. (MSL.) ,			Drainage Area	508	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.24	1.36	0.00	1.80	1.76	58.50	27.76	6.20	1.84	1.40	1.20	0.92		
2	1.40	1.28	1.08	1.76	2.72	44.60	29.52	5.52	1.80	1.36	1.20	0.88		
3	1.20	0.96	1.72	1.64	1.96	26.16	38.40	5.36	1.80	1.32	1.16	0.88		
4	0.96	0.92	0.88	1.68	1.52	19.60	49.70	5.28	1.76	1.28	1.16	0.88		
5	0.88	0.84	1.08	3.92	1.68	20.56	40.60	5.12	1.76	1.24	1.12	0.84		
6	0.84	0.80	1.12	5.12	1.56	22.64	25.36	4.96	1.72	1.20	1.12	0.84		
7	0.84	0.80	1.24	4.80	1.56	22.16	16.32	4.80	1.68	1.20	1.08	0.84		
8	0.84	0.80	1.04	4.32	1.96	18.96	12.68	4.72	1.64	1.24	1.08	0.84		
9	0.92	0.80	1.00	3.04	1.80	16.74	11.70	4.56	1.64	1.52	1.04	0.84		
10	1.00	0.80	0.92	2.56	1.68	31.12	10.70	4.40	1.64	1.56	1.04	0.84		
11	1.64	1.24	0.84	1.92	1.60	16.04	8.30	4.16	1.60	1.56	1.04	0.88		
12	3.20	1.68	0.84	1.68	1.56	12.54	3.28	4.00	1.60	1.44	1.04	0.88		
13	2.64	2.00	0.84	1.52	1.44	9.20	1.60	3.92	1.60	1.32	1.04	0.88		
14	1.84	3.52	0.84	1.40	1.44	18.80	1.52	3.76	1.60	1.28	1.00	0.88		
15	1.48	6.20	0.92	1.40	2.96	24.40	2.32	3.68	1.60	1.24	1.00	0.88		
16	1.00	8.70	0.92	1.36	17.58	20.08	27.60	3.68	1.60	1.20	1.00	0.88		
17	0.96	9.90	0.96	1.36	12.54	115.50	28.88	3.68	1.60	1.20	1.00	0.88		
18	0.92	7.30	1.36	1.36	10.40	60.00	25.20	3.60	1.60	1.20	1.00	0.88		
19	0.88	2.64	1.20	1.32	8.50	32.56	22.64	3.44	1.60	1.20	1.00	0.88		
20	0.84	2.08	1.24	1.32	6.40	28.56	21.04	3.04	1.56	1.16	1.00	0.88		
21	0.80	5.44	1.12	1.32	3.28	13.66	19.44	2.88	1.56	1.16	1.00	0.84		
22	0.76	17.30	1.08	1.32	2.24	6.10	17.16	2.64	1.56	1.20	0.96	0.84		
23	0.72	11.70	1.08	1.28	2.80	5.76	15.06	2.40	1.56	1.44	0.96	0.84		
24	0.72	5.60	1.00	1.24	13.24	11.84	13.10	2.24	1.52	1.60	0.96	0.84		
25	0.72	16.88	0.96	1.24	8.60	10.90	11.84	2.16	1.52	1.36	0.96	0.84		
26	0.76	18.32	0.92	1.20	5.04	10.90	11.56	2.08	1.52	1.28	0.96	0.80		
27	0.80	12.54	1.08	1.20	5.28	20.24	11.00	2.00	1.48	1.28	0.92	0.80		
28	0.92	7.00	1.04	1.20	7.40	33.36	9.50	1.96	1.48	1.24	0.92	0.80		
29	1.04	8.10	2.08	1.20	5.60	36.20	8.70	1.96	1.48	1.20		0.80		
30	1.00	10.40	1.88	1.16	5.84	18.48	8.30	1.92	1.48	1.20		0.80		
31		9.20		1.16	34.80		7.90		1.48	1.16		0.80		
Total	33.76	177.10	32.28	58.80	176.74	786.16	538.68	110.12	49.88	40.24	28.96	26.40	2059.12	CMSDAY
Mean	1.13	5.71	1.08	1.90	5.70	26.21	17.38	3.67	1.61	1.30	1.03	0.85	5.64	CMS
Max	3.20	18.32	2.08	5.12	34.80	115.50	49.70	6.20	1.84	1.60	1.20	0.92	115.50	CMS
Min	0.72	0.80	0.00	1.16	1.44	5.76	1.52	1.92	1.48	1.16	0.92	0.80	0.00	CMS
Runoff	2.92	15.30	2.79	5.08	15.27	67.92	46.54	9.51	4.31	3.48	2.50	2.28	177.91	MCM
Momentary Peak	154.00 CMS, at 243.70 m. (MSL), at 14.00 Hours, on Sep 17, 2009													
Runoff Yield	11.11 Liters/Second/Square KM.			Momentary Peak Yield			303.150 Liters/Second/Square KM.							

WATER YEAR : 2009

CHI RIVER BASIN

Lam Nam Choen at Ban Non Han , Khon Kaen (E.85)

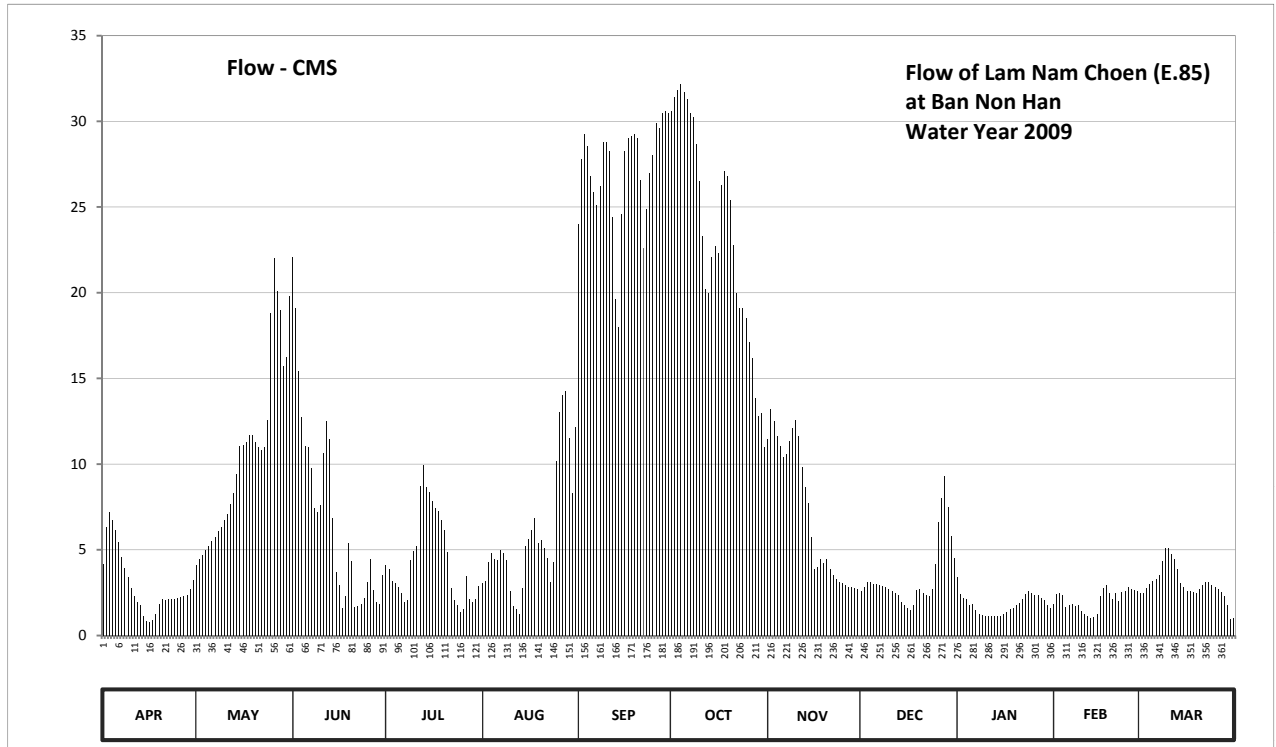
Lat 16 - 35 - 28 N Long 101 - 59 - 02 E

Location : on left bank at Ban Non Han.

	Ban Non Han	Amphoe Chum Pae	Changwat Khon Kaen
Drainage Area	1,218 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+224.840 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	Elevation	+235.165 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	226.95	226.94	229.24	226.94	226.73	229.43	230.05	228.08	226.64	226.80	226.49	226.62	
2	227.36	227.01	228.94	226.89	226.76	229.81	230.12	228.30	226.68	226.60	226.60	226.62	
3	227.50	227.06	228.56	226.75	226.98	229.94	230.15	228.21	226.74	226.56	226.62	226.67	
4	227.42	227.12	228.24	226.73	227.08	229.88	230.18	228.10	226.74	226.54	226.59	226.72	
5	227.33	227.16	228.03	226.68	227.01	229.71	230.14	228.03	226.72	226.47	226.45	226.75	
6	227.21	227.22	228.02	226.61	227.00	229.62	230.11	227.95	226.72	226.49	226.48	226.78	
7	227.04	227.26	227.87	226.51	227.12	229.54	230.04	227.97	226.71	226.42	226.49	226.83	
8	226.91	227.32	227.54	226.53	227.08	229.65	230.02	228.07	226.70	226.37	226.46	226.99	
9	226.80	227.36	227.50	227.00	227.00	229.90	229.89	228.16	226.69	226.35	226.48	227.14	
10	226.67	227.42	227.57	227.11	226.64	229.90	229.68	228.22	226.66	226.34	226.41	227.14	
11	226.58	227.48	227.98	227.17	226.46	229.85	229.36	228.10	226.64	226.34	226.37	227.07	
12	226.51	227.58	228.21	227.73	226.43	229.47	229.05	227.88	226.62	226.34	226.34	227.01	
13	226.47	227.67	228.08	227.89	226.36	228.99	229.03	227.72	226.59	226.33	226.30	226.89	
14	226.33	227.83	227.44	227.72	226.67	228.83	229.24	227.59	226.51	226.33	226.32	226.73	
15	226.22	228.03	226.86	227.68	227.17	229.49	229.30	227.26	226.47	226.33	226.36	226.68	
16	226.18	228.04	226.71	227.61	227.24	229.85	229.26	226.90	226.44	226.36	226.58	226.64	
17	226.25	228.06	226.44	227.54	227.33	229.92	229.66	226.92	226.42	226.39	226.67	226.64	
18	226.36	228.11	226.58	227.51	227.44	229.93	229.74	227.01	226.48	226.43	226.71	226.63	
19	226.49	228.11	227.20	227.42	227.20	229.94	229.71	226.97	226.65	226.44	226.61	226.62	
20	226.54	228.06	226.99	227.33	227.23	229.92	229.57	227.01	226.66	226.47	226.54	226.66	
21	226.53	228.02	226.45	227.09	227.14	229.69	229.31	226.90	226.62	226.50	226.61	226.71	
22	226.54	228.00	226.46	226.67	227.02	229.29	229.03	226.82	226.59	226.55	226.52	226.74	
23	226.55	228.02	226.49	226.53	226.74	229.52	228.94	226.78	226.58	226.60	226.63	226.74	
24	226.55	228.22	226.56	226.48	226.98	229.73	228.94	226.74	226.66	226.64	226.64	226.71	
25	226.56	228.91	226.74	226.39	227.92	229.83	228.88	226.73	226.95	226.62	226.68	226.69	
26	226.57	229.23	227.01	226.43	228.28	229.99	228.74	226.71	227.40	226.59	226.66	226.66	
27	226.58	229.04	226.65	226.81	228.40	229.97	228.64	226.69	227.63	226.59	226.65	226.63	
28	226.59	228.93	226.51	226.54	228.43	230.04	228.38	226.69	227.81	226.56	226.64	226.58	
29	226.66	228.59	226.49	226.51	228.09	230.05	228.25	226.67	227.55	226.53		226.48	
30	226.77	228.65	226.82	226.54	227.67	230.04	228.27	226.66	227.27	226.47		226.29	
31		229.01		226.70	228.17		228.02		227.02	226.44		226.30	
Mean	226.70	227.92	227.34	226.97	227.22	229.72	229.35	227.39	226.79	226.48	226.53	226.72	
Max	227.50	229.23	229.24	227.89	228.43	230.05	230.18	228.30	227.81	226.80	226.71	227.14	230.18
Min	226.18	226.94	226.44	226.39	226.36	228.83	228.02	226.66	226.42	226.33	226.30	226.29	226.18
Annual Max Momentary Gage Height		230.19		m. (MSL.) ,			at 01.00 Hours, on Oct 4, 2009						
Zero Gage at Bottom Elevation		224.84		m. (MSL.) ,		River Bed	225.53		m. (MSL)				
Left Bank Elevation		231.06		m. (MSL.) ,									
Right Bank Elevation		230.87		m. (MSL.) ,		Drainage Area	1218		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.15	4.10	22.10	4.10	3.05	24.00	30.60	11.44	2.60	3.40	1.85	2.50	
2	6.36	4.45	19.10	3.85	3.20	27.81	31.44	13.20	2.80	2.40	2.40	2.50	
3	7.20	4.70	15.44	3.15	4.30	29.28	31.80	12.48	3.10	2.20	2.50	2.75	
4	6.72	5.00	12.72	3.05	4.80	28.58	32.16	11.60	3.10	2.10	2.35	3.00	
5	6.18	5.20	11.04	2.80	4.45	26.80	31.68	11.04	3.00	1.75	1.65	3.15	
6	5.46	5.52	10.96	2.45	4.40	25.90	31.32	10.40	3.00	1.85	1.80	3.30	
7	4.60	5.76	9.76	1.95	5.00	25.10	30.48	10.56	2.95	1.50	1.85	3.55	
8	3.95	6.12	7.44	2.05	4.80	26.20	30.24	11.36	2.90	1.28	1.70	4.35	
9	3.40	6.36	7.20	4.40	4.40	28.80	28.69	12.08	2.85	1.20	1.80	5.10	
10	2.75	6.72	7.62	4.95	2.60	28.80	26.50	12.56	2.70	1.16	1.45	5.10	
11	2.30	7.08	10.64	5.25	1.70	28.25	23.30	11.60	2.60	1.16	1.28	4.75	
12	1.95	7.68	12.48	8.71	1.55	24.40	20.20	9.84	2.50	1.16	1.16	4.45	
13	1.75	8.29	11.44	9.92	1.24	19.60	20.00	8.64	2.35	1.12	1.00	3.85	
14	1.12	9.44	6.84	8.64	2.75	18.00	22.10	7.74	1.95	1.12	1.08	3.05	
15	0.84	11.04	3.70	8.36	5.25	24.60	22.70	5.76	1.75	1.12	1.24	2.80	
16	0.76	11.12	2.95	7.87	5.64	28.25	22.30	3.90	1.60	1.24	2.30	2.60	
17	0.90	11.28	1.60	7.44	6.18	29.04	26.30	4.00	1.50	1.36	2.75	2.60	
18	1.24	11.68	2.30	7.26	6.84	29.16	27.10	4.45	1.80	1.55	2.95	2.55	
19	1.85	11.68	5.40	6.72	5.40	29.28	26.80	4.25	2.65	1.60	2.45	2.50	
20	2.10	11.28	4.35	6.18	5.58	29.04	25.40	4.45	2.70	1.75	2.10	2.70	
21	2.05	10.96	1.65	4.85	5.10	26.60	22.80	3.90	2.50	1.90	2.45	2.95	
22	2.10	10.80	1.70	2.75	4.50	22.60	20.00	3.50	2.35	2.15	2.00	3.10	
23	2.15	10.96	1.85	2.05	3.10	24.90	19.10	3.30	2.30	2.40	2.55	3.10	
24	2.15	12.56	2.20	1.80	4.30	27.00	19.10	3.10	2.70	2.60	2.60	2.95	
25	2.20	18.80	3.10	1.36	10.16	28.03	18.50	3.05	4.15	2.50	2.80	2.85	
26	2.25	22.00	4.45	1.55	13.04	29.88	17.10	2.95	6.60	2.35	2.70	2.70	
27	2.30	20.10	2.65	3.45	14.00	29.64	16.16	2.85	8.01	2.35	2.65	2.55	
28	2.35	19.00	1.95	2.10	14.27	30.48	13.84	2.85	9.28	2.20	2.60	2.30	
29	2.70	15.71	1.85	1.95	11.52	30.60	12.80	2.75	7.50	2.05		1.80	
30	3.25	16.25	3.50	2.10	8.29	30.48	12.96	2.70	5.82	1.75		0.98	
31		19.80		2.90	12.16		10.96		4.50	1.60		1.00	
Total	89.08	331.44	209.98	135.96	183.57	811.10	724.43	212.30	106.11	55.87	58.01	93.43	3011.28 CMSDAY
Mean	2.97	10.69	7.00	4.39	5.92	27.04	23.37	7.08	3.42	1.80	2.07	3.01	8.25 CMS
Max	7.20	22.00	22.10	9.92	14.27	30.60	32.16	13.20	9.28	3.40	2.95	5.10	32.16 CMS
Min	0.76	4.10	1.60	1.36	1.24	18.00	10.96	2.70	1.50	1.12	1.00	0.98	0.76 CMS
Runoff	7.70	28.64	18.14	11.75	15.86	70.08	62.59	18.34	9.17	4.83	5.01	8.07	260.18 MCM
Momentary Peak	32.28 CMS, at 230.19 m. (MSL), at 01.00 Hours, on Oct 4, 2009												
Runoff Yield	6.77 Liters/Second/Square KM.			Momentary Peak Yield			26.502 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Lam Phan Chat at Ban Kham Hai , Udon Thani (E.86)

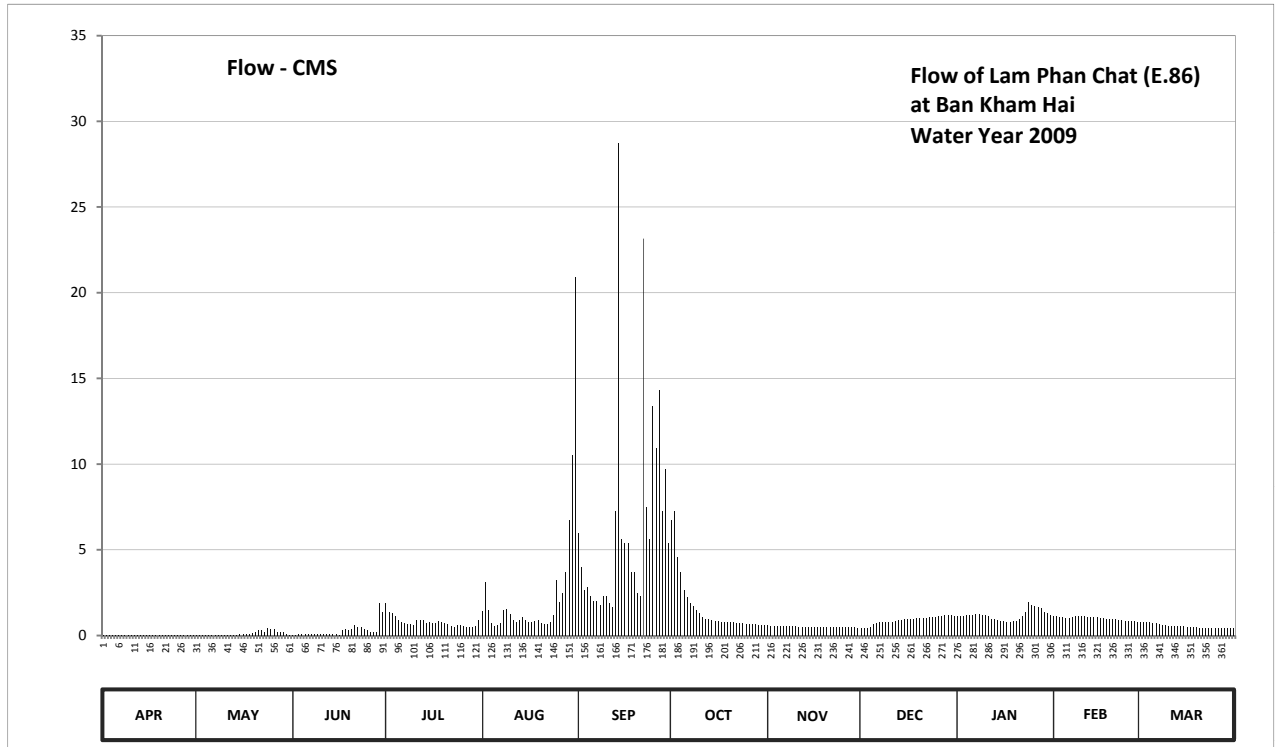
Lat 17 - 05 - 29 N Long 103 - 34 - 16 E

Location : on left bank at Ban Kham Hai.

	Ban Kham Hai	Amphoe Wang Sam Mo	Changwat Udon Thani
Drainage Area	93	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+204.200 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.		Elevation +214.372 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	205.85	205.85	205.85	207.36	207.20	207.70	207.73	206.59	206.44	207.06	207.08	206.80	
2	205.85	205.85	205.85	207.19	207.54	207.60	207.75	206.58	206.44	207.07	207.06	206.79	
3	205.85	205.85	206.05	207.16	207.22	207.51	207.63	206.57	206.44	207.08	207.05	206.77	
4	205.85	205.85	206.07	207.06	206.74	207.52	207.58	206.56	206.49	207.10	207.04	206.77	
5	205.85	205.85	206.10	206.89	206.53	207.46	207.51	206.55	206.68	207.11	207.02	206.75	
6	205.85	205.85	206.10	206.78	206.60	207.40	207.45	206.54	206.75	207.11	207.02	206.71	
7	205.85	205.85	206.10	206.74	206.71	207.40	207.37	206.54	206.78	207.12	207.04	206.67	
8	205.85	205.85	206.09	206.69	207.23	207.32	207.30	206.53	206.79	207.12	207.07	206.63	
9	205.85	205.85	206.08	206.64	207.25	207.46	207.23	206.53	206.80	207.11	207.07	206.61	
10	205.85	205.85	206.06	206.61	207.12	207.46	207.16	206.53	206.80	207.10	207.06	206.57	
11	205.85	205.85	206.05	206.88	206.91	207.36	207.03	206.52	206.80	207.07	207.06	206.56	
12	205.85	205.85	206.04	206.90	206.79	207.28	206.98	206.52	206.82	206.98	207.05	206.56	
13	205.85	205.85	206.03	206.90	206.89	207.75	206.93	206.51	206.90	206.94	207.05	206.55	
14	205.85	205.85	206.02	206.74	207.04	208.21	206.89	206.50	206.91	206.88	207.05	206.55	
15	205.85	206.02	206.02	206.78	206.90	207.68	206.85	206.50	206.95	206.85	207.04	206.53	
16	205.85	206.06	205.88	206.74	206.78	207.67	206.83	206.50	206.97	206.82	207.02	206.50	
17	205.85	206.04	206.34	206.72	206.78	207.67	206.80	206.50	206.98	206.80	207.01	206.49	
18	205.85	206.11	206.37	206.84	206.84	207.58	206.80	206.50	206.99	206.79	206.99	206.47	
19	205.85	206.15	206.30	206.78	206.88	207.58	206.79	206.50	207.00	206.82	206.98	206.46	
20	205.85	206.18	206.39	206.74	206.75	207.49	206.77	206.50	207.00	206.87	206.97	206.45	
21	205.85	206.31	206.62	206.64	206.66	207.46	206.76	206.49	207.01	206.94	206.94	206.45	
22	205.85	206.31	206.48	206.54	206.65	208.11	206.74	206.49	207.02	207.08	206.92	206.45	
23	205.85	206.22	206.48	206.52	206.79	207.76	206.72	206.49	207.03	207.17	206.91	206.44	
24	205.85	206.42	206.39	206.62	207.09	207.68	206.70	206.49	207.04	207.39	206.87	206.44	
25	205.85	206.38	206.33	206.62	207.55	207.92	206.68	206.48	207.05	207.32	206.85	206.44	
26	205.85	206.38	206.21	206.53	207.38	207.86	206.68	206.48	207.06	207.30	206.84	206.43	
27	205.85	206.21	206.19	206.51	207.50	207.94	206.66	206.47	207.08	207.28	206.82	206.43	
28	205.85	206.21	206.20	206.49	207.58	207.75	206.65	206.47	207.09	207.26	206.81	206.42	
29	205.85	206.22	207.37	206.51	207.73	207.83	206.63	206.46	207.11	207.19		206.41	
30	205.85	206.09	207.19	206.54	207.85	207.67	206.62	206.45	207.09	207.15		206.41	
31		205.86		206.88	208.07		206.60		207.06	207.10		206.41	
Mean	205.85	206.03	206.24	206.76	207.08	207.64	206.99	206.51	206.88	207.06	206.99	206.55	
Max	205.85	206.42	207.37	207.36	208.07	208.21	207.75	206.59	207.11	207.39	207.08	206.80	208.21
Min	205.85	205.85	205.85	206.49	206.53	207.28	206.60	206.45	206.44	206.79	206.81	206.41	205.85
Annual Max Momentary Gage Height	208.50		m. (MSL.) ,			at 06.00 Hours, on Sep 14, 2009							
Zero Gage at Bottom Elevation	204.20		m. (MSL.) ,			River Bed	206.13	m. (MSL)					
Left Bank Elevation		212.94		m. (MSL.) ,									
Right Bank Elevation		214.04		m. (MSL.) ,		Drainage Area	93	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.02	0.02	1.88	1.40	6.00	6.75	0.59	0.44	1.12	1.16	0.80	
2	0.02	0.02	0.02	1.38	3.10	4.00	7.25	0.58	0.44	1.14	1.12	0.79	
3	0.02	0.02	0.08	1.32	1.46	2.65	4.60	0.57	0.44	1.16	1.10	0.77	
4	0.02	0.02	0.09	1.12	0.74	2.80	3.70	0.56	0.49	1.20	1.08	0.77	
5	0.02	0.02	0.10	0.89	0.53	2.30	2.65	0.55	0.68	1.22	1.04	0.75	
6	0.02	0.02	0.10	0.78	0.60	2.00	2.25	0.54	0.75	1.22	1.04	0.71	
7	0.02	0.02	0.10	0.74	0.71	2.00	1.91	0.54	0.78	1.24	1.08	0.67	
8	0.02	0.02	0.09	0.69	1.49	1.76	1.70	0.53	0.79	1.24	1.14	0.63	
9	0.02	0.02	0.09	0.64	1.55	2.30	1.49	0.53	0.80	1.22	1.14	0.61	
10	0.02	0.02	0.08	0.61	1.24	2.30	1.32	0.53	0.80	1.20	1.12	0.57	
11	0.02	0.02	0.08	0.88	0.91	1.88	1.06	0.52	0.80	1.14	1.12	0.56	
12	0.02	0.02	0.07	0.90	0.79	1.64	0.98	0.52	0.82	0.98	1.10	0.56	
13	0.02	0.02	0.06	0.90	0.89	7.25	0.93	0.51	0.90	0.94	1.10	0.55	
14	0.02	0.02	0.06	0.74	1.08	28.76	0.89	0.50	0.91	0.88	1.10	0.55	
15	0.02	0.06	0.06	0.78	0.90	5.60	0.85	0.50	0.95	0.85	1.08	0.53	
16	0.02	0.08	0.03	0.74	0.78	5.40	0.83	0.50	0.97	0.82	1.04	0.50	
17	0.02	0.07	0.34	0.72	0.78	5.40	0.80	0.50	0.98	0.80	1.02	0.49	
18	0.02	0.11	0.37	0.84	0.84	3.70	0.80	0.50	0.99	0.79	0.99	0.47	
19	0.02	0.15	0.30	0.78	0.88	3.70	0.79	0.50	1.00	0.82	0.98	0.46	
20	0.02	0.18	0.39	0.74	0.75	2.45	0.77	0.50	1.00	0.87	0.97	0.45	
21	0.02	0.31	0.62	0.64	0.66	2.30	0.76	0.49	1.02	0.94	0.94	0.45	
22	0.02	0.31	0.48	0.54	0.65	23.16	0.74	0.49	1.04	1.16	0.92	0.45	
23	0.02	0.22	0.48	0.52	0.79	7.50	0.72	0.49	1.06	1.34	0.91	0.44	
24	0.02	0.42	0.39	0.62	1.18	5.60	0.70	0.49	1.08	1.97	0.87	0.44	
25	0.02	0.38	0.33	0.62	3.25	13.40	0.68	0.48	1.10	1.76	0.85	0.44	
26	0.02	0.38	0.21	0.53	1.94	10.90	0.68	0.48	1.12	1.70	0.84	0.43	
27	0.02	0.21	0.19	0.51	2.50	14.30	0.66	0.47	1.16	1.64	0.82	0.43	
28	0.02	0.21	0.20	0.49	3.70	7.25	0.65	0.47	1.18	1.58	0.81	0.42	
29	0.02	0.22	1.91	0.51	6.75	9.70	0.63	0.46	1.22	1.38		0.41	
30	0.02	0.09	1.38	0.54	10.50	5.40	0.62	0.45	1.18	1.30		0.41	
31	0.02	0.02	0.88	20.92	0.60				1.12	1.20		0.41	
Total	0.60	3.70	8.72	24.47	74.26	193.40	49.76	15.34	28.01	36.82	28.48	16.92	480.48 CMSDAY
Mean	0.02	0.12	0.29	0.79	2.40	6.45	1.61	0.51	0.90	1.19	1.02	0.55	1.32 CMS
Max	0.02	0.42	1.91	1.88	20.92	28.76	7.25	0.59	1.22	1.97	1.16	0.80	28.76 CMS
Min	0.02	0.02	0.02	0.49	0.53	1.64	0.60	0.45	0.44	0.79	0.81	0.41	0.02 CMS
Runoff	0.05	0.32	0.75	2.11	6.42	16.71	4.30	1.33	2.42	3.18	2.46	1.46	41.51 MCM
Momentary Peak	45.00 CMS, at 208.50 m. (MSL), at 06.00 Hours, on Sep 14, 2009												
Runoff Yield	14.15 Liters/Second/Square KM.			Momentary Peak Yield			483.871 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

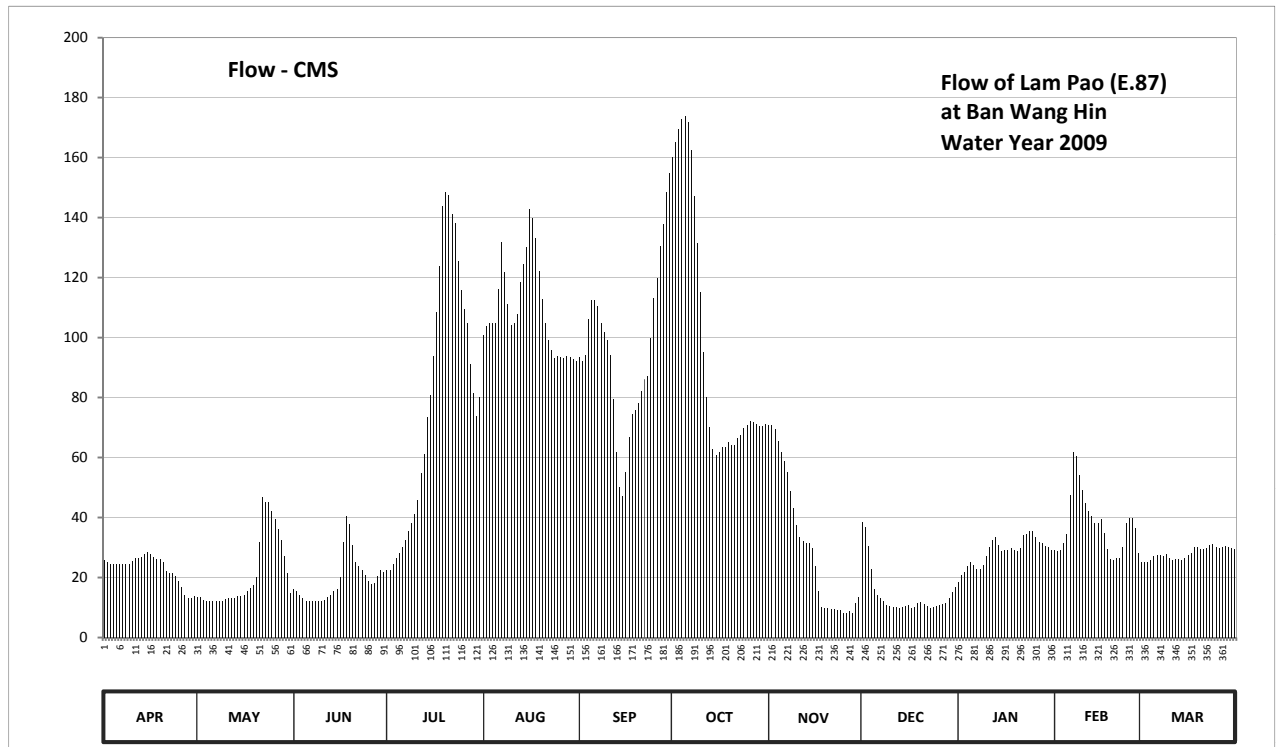
Lat 16 - 20 - 26 N Long 103 - 34 - 36 E

Location : on left bank at Ban Wang Hin.

	Ban Wang Hin	Amphoe Kamalasai	Changwat Kalasin
Drainage Area	7,068 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+128.900 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	Elevation	+140.068 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.85	130.26	130.41	130.71	133.43	133.20	135.20	132.46	131.36	130.52	131.00	130.83	
2	130.82	130.26	130.37	130.71	133.52	133.16	135.34	132.46	131.30	130.63	130.99	130.83	
3	130.79	130.21	130.29	130.80	133.55	133.22	135.46	132.41	131.06	130.68	131.01	130.83	
4	130.79	130.20	130.24	130.88	133.55	133.60	135.55	132.28	130.72	130.77	131.10	130.85	
5	130.79	130.20	130.20	130.97	133.55	133.80	135.58	132.16	130.40	130.82	131.21	130.92	
6	130.79	130.20	130.20	131.05	133.91	133.80	135.52	132.06	130.30	130.78	131.68	130.93	
7	130.79	130.20	130.20	131.14	134.38	133.73	135.26	131.94	130.24	130.72	132.16	130.93	
8	130.79	130.20	130.20	131.25	134.08	133.56	134.83	131.73	130.20	130.72	132.12	130.91	
9	130.80	130.20	130.20	131.35	133.75	133.46	134.37	131.54	130.12	130.78	131.90	130.94	
10	130.84	130.23	130.20	131.47	133.53	133.38	133.88	131.32	130.10	130.91	131.74	130.89	
11	130.88	130.24	130.21	131.63	133.55	133.22	133.25	131.18	130.09	131.05	131.59	130.85	
12	130.88	130.24	130.26	131.92	133.65	132.75	132.77	131.12	130.09	131.14	131.51	130.87	
13	130.90	130.24	130.30	132.14	133.98	132.16	132.44	131.10	130.07	131.18	131.44	130.87	
14	130.94	130.28	130.37	132.55	134.16	131.77	132.19	131.10	130.08	131.07	131.35	130.86	
15	130.98	130.28	130.40	132.79	134.33	131.67	132.13	131.03	130.11	130.99	131.35	130.89	
16	130.95	130.30	130.59	133.21	134.70	131.94	132.16	130.77	130.12	131.00	131.40	130.93	
17	130.90	130.36	131.11	133.67	134.61	132.33	132.21	130.36	130.07	131.01	131.22	130.97	
18	130.87	130.42	131.44	134.14	134.42	132.58	132.22	130.08	130.09	131.03	131.02	131.04	
19	130.87	130.48	131.34	134.73	134.09	132.63	132.27	130.07	130.16	131.00	130.87	131.05	
20	130.83	130.60	131.07	134.87	133.81	132.70	132.24	130.07	130.17	130.99	130.85	131.02	
21	130.69	131.11	130.83	134.84	133.55	132.84	132.24	130.06	130.14	131.03	130.88	131.02	
22	130.66	131.66	130.76	134.65	133.38	132.97	132.31	130.05	130.10	131.20	130.89	131.03	
23	130.66	131.61	130.71	134.56	133.27	133.00	132.35	130.04	130.07	131.21	131.05	131.07	
24	130.62	131.60	130.63	134.19	133.19	133.40	132.42	130.03	130.09	131.25	131.35	131.08	
25	130.54	131.51	130.54	133.90	133.21	133.82	132.46	129.99	130.11	131.25	131.41	131.04	
26	130.43	131.40	130.49	133.70	133.20	134.02	132.50	129.98	130.13	131.17	131.42	131.03	
27	130.29	131.28	130.51	133.56	133.19	134.34	132.49	130.01	130.14	131.11	131.29	131.05	
28	130.25	131.14	130.62	133.13	133.21	134.55	132.47	129.99	130.16	131.09	130.97	131.06	
29	130.24	130.92	130.70	132.81	133.20	134.87	132.45	130.15	130.24	131.06		131.04	
30	130.28	130.66	130.68	132.56	133.18	135.05	132.45	130.27	130.35	131.04		131.03	
31		130.34		132.77	133.16		132.47		130.43	131.01		131.02	
Mean	130.72	130.61	130.54	132.67	133.69	133.25	133.27	130.93	130.28	130.97	131.31	130.96	
Max	130.98	131.66	131.44	134.87	134.70	135.05	135.58	132.46	131.36	131.25	132.16	131.08	135.58
Min	130.24	130.20	130.20	130.71	133.16	131.67	132.13	129.98	130.07	130.52	130.85	130.83	129.98
Annual Max Momentary Gage Height		135.59		m. (MSL.) ,			at 13.00 Hours, on Oct 5, 2009						
Zero Gage at Bottom Elevation		128.90		m. (MSL.) ,		River Bed	129.49		m. (MSL)				
Left Bank Elevation			136.55		m. (MSL.) ,								
Right Bank Elevation		136.08			m. (MSL.) ,	Drainage Area	7068		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.70	13.44	16.29	22.62	100.76	93.40	160.20	70.80	38.36	18.44	29.00	25.26		
2	25.04	13.44	15.53	22.62	103.64	92.12	165.24	70.80	36.80	20.86	28.78	25.26		
3	24.38	12.49	14.01	24.60	104.60	94.04	169.56	69.30	30.56	21.96	29.26	25.26		
4	24.38	12.30	13.06	26.36	104.60	106.20	172.80	65.40	22.84	23.94	31.60	25.70		
5	24.38	12.30	12.30	28.34	104.60	112.60	173.88	61.80	16.10	25.04	34.46	27.24		
6	24.38	12.30	12.30	30.30	116.12	112.60	171.72	58.80	14.20	24.16	47.40	27.46		
7	24.38	12.30	12.30	32.64	131.92	110.36	162.36	55.20	13.06	22.84	61.80	27.46		
8	24.38	12.30	12.30	35.50	121.72	104.92	147.22	48.90	12.30	22.84	60.60	27.02		
9	24.60	12.30	12.30	38.10	111.00	101.72	131.58	43.20	10.78	24.16	54.00	27.68		
10	25.48	12.87	12.30	41.22	103.96	99.16	115.16	37.32	10.40	27.02	49.20	26.58		
11	26.36	13.06	12.49	45.90	104.60	94.04	95.00	33.68	10.21	30.30	44.70	25.70		
12	26.36	13.06	13.44	54.60	107.80	79.50	80.10	32.12	10.21	32.64	42.30	26.14		
13	26.80	13.06	14.20	61.20	118.36	61.80	70.20	31.60	9.83	33.68	40.44	26.14		
14	27.68	13.82	15.53	73.50	124.44	50.10	62.70	31.60	10.02	30.82	38.10	25.92		
15	28.56	13.82	16.10	80.70	130.22	47.10	60.90	29.78	10.59	28.78	38.10	26.58		
16	27.90	14.20	19.98	93.72	142.80	55.20	61.80	23.94	10.78	29.00	39.40	27.46		
17	26.80	15.34	31.86	108.44	139.74	66.90	63.30	15.34	9.83	29.26	34.72	28.34		
18	26.14	16.48	40.44	123.76	133.28	74.40	63.60	10.02	10.21	29.78	29.52	30.04		
19	26.14	17.62	37.84	143.82	122.06	75.90	65.10	9.83	11.54	29.00	26.14	30.30		
20	25.26	20.20	30.82	148.58	112.92	78.00	64.20	9.83	11.73	28.78	25.70	29.52		
21	22.18	31.86	25.26	147.56	104.60	82.20	64.20	9.64	11.16	29.78	26.36	29.52		
22	21.52	46.80	23.72	141.10	99.16	86.10	66.30	9.45	10.40	34.20	26.58	29.78		
23	21.52	45.30	22.62	138.04	95.64	87.00	67.50	9.26	9.83	34.46	30.30	30.82		
24	20.64	45.00	20.86	125.46	93.08	99.80	69.60	9.07	10.21	35.50	38.10	31.08		
25	18.88	42.30	18.88	115.80	93.72	113.24	70.80	8.33	10.59	35.50	39.66	30.04		
26	16.67	39.40	17.81	109.40	93.40	119.68	72.00	8.16	10.97	33.42	39.92	29.78		
27	14.01	36.28	18.22	104.92	93.08	130.56	71.70	8.69	11.16	31.86	36.54	30.30		
28	13.25	32.64	20.64	91.16	93.72	137.70	71.10	8.33	11.54	31.34	28.34	30.56		
29	13.06	27.24	22.40	81.30	93.40	148.58	70.50	11.35	13.06	30.56		30.04		
30	13.82	21.52	21.96	73.80	92.76	154.80	70.50	13.63	15.15	30.04		29.78		
31		14.96		80.10	92.12		71.10		16.67	29.26		29.52		
Total	690.65	660.00	577.76	2445.16	3383.82	2869.72	3021.92	905.17	441.09	889.22	1051.02	872.28	17807.81	CMSDAY
Mean	23.02	21.29	19.26	78.88	109.16	95.66	97.48	30.17	14.23	28.68	37.54	28.14	48.79	CMS
Max	28.56	46.80	40.44	148.58	142.80	154.80	173.88	70.80	38.36	35.50	61.80	31.08	173.88	CMS
Min	13.06	12.30	12.30	22.62	92.12	47.10	60.90	8.16	9.83	18.44	25.70	25.26	8.16	CMS
Runoff	59.67	57.02	49.92	211.26	292.36	247.94	261.09	78.21	38.11	76.83	90.81	75.37	1538.60	MCM
Momentary Peak	174.24 CMS, at 135.59 m. (MSL), at 13.00 Hours, on Oct 5, 2009													
Runoff Yield	6.90 Liters/Second/Square KM.			Momentary Peak Yield				24.652 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

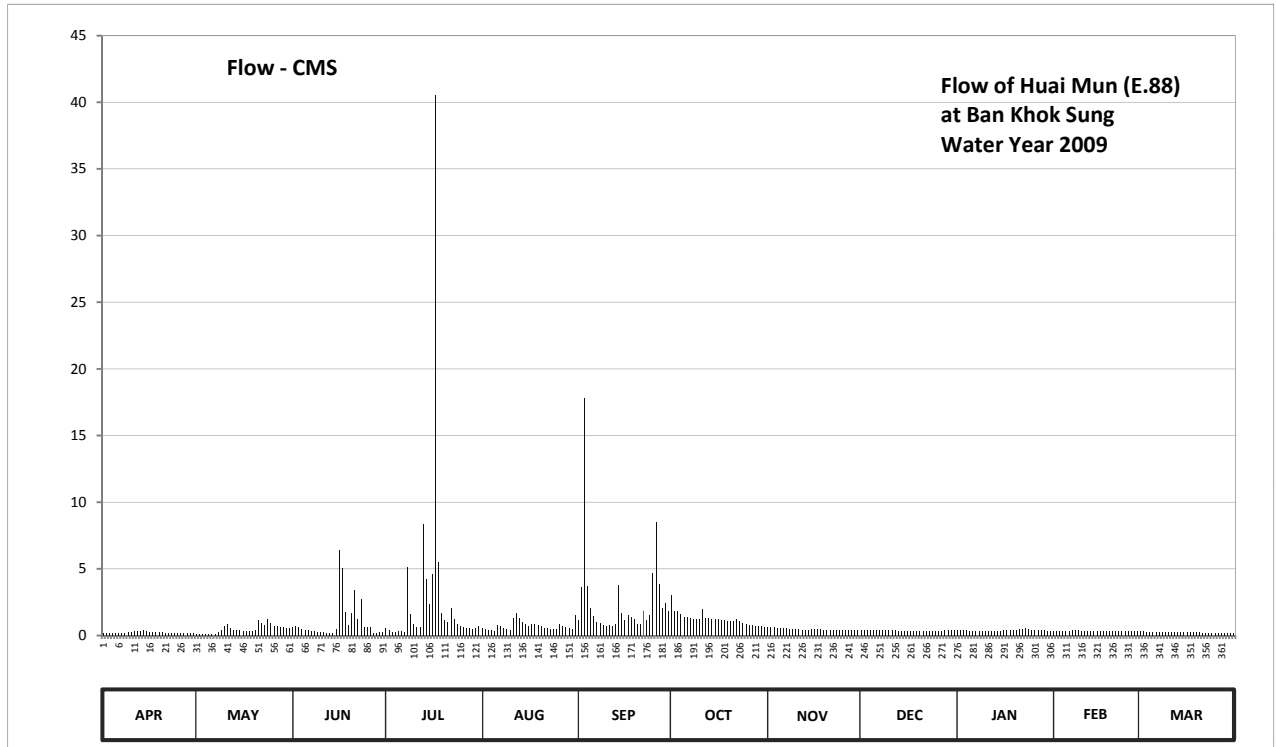
Lat 16 - 49 - 56 N Long 103 - 22 - 09 E

Location : on right bank at Ban Khok Sung.

	Ban Khok Sung	Amphoe Tha Khantho	Changwat Kalasin
Drainage Area	91 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+163.060 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank downstream at the footpath of the bridge.	Elevation	+168.204 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 166.660 m.(MSL.), records are channel flow only.		
General Description	Records poor. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	163.20	163.17	163.35	163.33	163.32	163.47	163.81	163.35	163.27	163.26	163.25	163.24	
2	163.20	163.17	163.37	163.27	163.30	163.89	163.60	163.35	163.27	163.26	163.25	163.24	
3	163.20	163.16	163.34	163.23	163.28	165.12	163.61	163.34	163.27	163.26	163.25	163.23	
4	163.20	163.16	163.30	163.23	163.27	163.90	163.56	163.33	163.27	163.26	163.25	163.23	
5	163.20	163.16	163.28	163.24	163.25	163.64	163.52	163.32	163.27	163.25	163.25	163.22	
6	163.20	163.16	163.26	163.25	163.39	163.53	163.51	163.32	163.27	163.25	163.25	163.22	
7	163.20	163.16	163.25	163.23	163.37	163.44	163.50	163.31	163.27	163.25	163.26	163.22	
8	163.20	163.22	163.24	164.07	163.32	163.42	163.49	163.30	163.26	163.25	163.26	163.22	
9	163.21	163.28	163.23	163.56	163.29	163.40	163.49	163.30	163.26	163.25	163.26	163.22	
10	163.22	163.38	163.22	163.41	163.26	163.38	163.49	163.29	163.26	163.25	163.25	163.21	
11	163.24	163.41	163.21	163.34	163.50	163.39	163.63	163.29	163.26	163.25	163.25	163.21	
12	163.24	163.32	163.20	163.34	163.57	163.37	163.50	163.28	163.26	163.25	163.25	163.21	
13	163.25	163.27	163.20	164.38	163.50	163.41	163.50	163.28	163.25	163.25	163.25	163.21	
14	163.26	163.26	163.20	163.97	163.44	163.91	163.49	163.28	163.25	163.25	163.25	163.21	
15	163.24	163.26	163.30	163.69	163.41	163.57	163.48	163.29	163.25	163.25	163.25	163.21	
16	163.23	163.25	164.20	164.01	163.38	163.47	163.48	163.29	163.25	163.26	163.25	163.21	
17	163.22	163.24	164.06	166.45	163.41	163.55	163.47	163.29	163.25	163.26	163.25	163.21	
18	163.21	163.25	163.59	164.11	163.41	163.52	163.47	163.29	163.25	163.27	163.24	163.21	
19	163.21	163.25	163.39	163.58	163.39	163.49	163.46	163.28	163.24	163.27	163.24	163.21	
20	163.21	163.27	163.57	163.47	163.37	163.41	163.45	163.28	163.24	163.27	163.24	163.21	
21	163.20	163.47	163.86	163.44	163.33	163.41	163.46	163.28	163.24	163.29	163.24	163.20	
22	163.20	163.42	163.49	163.64	163.31	163.61	163.48	163.28	163.24	163.30	163.24	163.20	
23	163.19	163.39	163.75	163.48	163.30	163.47	163.45	163.28	163.24	163.31	163.24	163.20	
24	163.19	163.49	163.34	163.41	163.29	163.55	163.42	163.27	163.24	163.29	163.25	163.20	
25	163.19	163.43	163.34	163.36	163.29	164.02	163.41	163.27	163.24	163.28	163.25	163.20	
26	163.19	163.38	163.35	163.34	163.41	164.39	163.40	163.27	163.25	163.26	163.25	163.20	
27	163.19	163.36	163.20	163.32	163.37	163.92	163.39	163.27	163.25	163.26	163.25	163.20	
28	163.18	163.35	163.20	163.32	163.35	163.64	163.38	163.27	163.26	163.26	163.25	163.19	
29	163.18	163.34	163.22	163.30	163.32	163.71	163.37	163.26	163.27	163.26		163.19	
30	163.18	163.33	163.22	163.31	163.30	163.60	163.36	163.26	163.26	163.25		163.19	
31		163.32		163.36	163.54		163.35		163.26	163.25		163.19	
Mean	163.21	163.29	163.39	163.59	163.36	163.65	163.48	163.29	163.26	163.26	163.25	163.21	
Max	163.26	163.49	164.20	166.45	163.57	165.12	163.81	163.35	163.27	163.31	163.26	163.24	166.45
Min	163.18	163.16	163.20	163.23	163.25	163.37	163.35	163.26	163.24	163.25	163.24	163.19	163.16
Annual Max Momentary Gage Height		167.28		m. (MSL.) ,									at 09.00 Hours, on Jul 17, 2009
Zero Gage at Bottom Elevation		163.06		m. (MSL.) ,		River Bed	163.03		m. (MSL)				
Left Bank Elevation		167.22		m. (MSL.) ,									
Right Bank Elevation		166.65		m. (MSL.) ,		Drainage Area	91		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.14	0.65	0.59	0.56	1.15	3.07	0.65	0.41	0.38	0.35	0.32	
2	0.20	0.14	0.71	0.41	0.50	3.63	1.80	0.65	0.41	0.38	0.35	0.32	
3	0.20	0.12	0.62	0.29	0.44	17.80	1.86	0.62	0.41	0.38	0.35	0.29	
4	0.20	0.12	0.50	0.29	0.41	3.70	1.60	0.59	0.41	0.38	0.35	0.29	
5	0.20	0.12	0.44	0.32	0.35	2.04	1.40	0.56	0.41	0.35	0.35	0.26	
6	0.20	0.12	0.38	0.35	0.77	1.45	1.35	0.56	0.41	0.35	0.35	0.26	
7	0.20	0.12	0.35	0.29	0.71	1.00	1.30	0.53	0.41	0.35	0.38	0.26	
8	0.20	0.26	0.32	5.13	0.56	0.90	1.25	0.50	0.38	0.35	0.38	0.26	
9	0.23	0.44	0.29	1.60	0.47	0.80	1.25	0.50	0.38	0.35	0.38	0.26	
10	0.26	0.74	0.26	0.85	0.38	0.74	1.25	0.47	0.38	0.35	0.35	0.23	
11	0.32	0.85	0.23	0.62	1.30	0.77	1.98	0.47	0.38	0.35	0.35	0.23	
12	0.32	0.56	0.20	0.62	1.65	0.71	1.30	0.44	0.38	0.35	0.35	0.23	
13	0.35	0.41	0.20	8.38	1.30	0.85	1.30	0.44	0.35	0.35	0.35	0.23	
14	0.38	0.38	0.20	4.26	1.00	3.78	1.25	0.44	0.35	0.35	0.35	0.23	
15	0.32	0.38	0.50	2.34	0.85	1.65	1.20	0.47	0.35	0.35	0.35	0.23	
16	0.29	0.35	6.40	4.59	0.74	1.15	1.20	0.47	0.35	0.38	0.35	0.23	
17	0.26	0.32	5.04	40.55	0.85	1.55	1.15	0.47	0.35	0.38	0.35	0.23	
18	0.23	0.35	1.75	5.50	0.85	1.40	1.15	0.47	0.35	0.41	0.32	0.23	
19	0.23	0.35	0.77	1.70	0.77	1.25	1.10	0.44	0.32	0.41	0.32	0.23	
20	0.23	0.41	1.65	1.15	0.71	0.85	1.05	0.44	0.32	0.41	0.32	0.23	
21	0.20	1.15	3.42	1.00	0.59	0.85	1.10	0.44	0.32	0.47	0.32	0.20	
22	0.20	0.90	1.25	2.04	0.53	1.86	1.20	0.44	0.32	0.50	0.32	0.20	
23	0.18	0.77	2.70	1.20	0.50	1.15	1.05	0.44	0.32	0.53	0.32	0.20	
24	0.18	1.25	0.62	0.85	0.47	1.55	0.90	0.41	0.32	0.47	0.35	0.20	
25	0.18	0.95	0.62	0.68	0.47	4.68	0.85	0.41	0.32	0.44	0.35	0.20	
26	0.18	0.74	0.65	0.62	0.85	8.49	0.80	0.41	0.35	0.38	0.35	0.20	
27	0.18	0.68	0.20	0.56	0.71	3.86	0.77	0.41	0.35	0.38	0.35	0.20	
28	0.16	0.65	0.20	0.56	0.65	2.04	0.74	0.41	0.38	0.38	0.35	0.18	
29	0.16	0.62	0.26	0.50	0.56	2.46	0.71	0.38	0.41	0.38		0.18	
30	0.16	0.59	0.26	0.53	0.50	1.80	0.68	0.38	0.38	0.35		0.18	
31		0.56		0.68	1.50		0.65		0.38	0.35		0.18	
Total	6.80	15.54	31.64	89.05	22.50	75.91	38.26	14.31	11.36	11.99	9.71	7.17	334.24 CMSDAY
Mean	0.23	0.50	1.05	2.87	0.73	2.53	1.23	0.48	0.37	0.39	0.35	0.23	0.92 CMS
Max	0.38	1.25	6.40	40.55	1.65	17.80	3.07	0.65	0.41	0.53	0.38	0.32	40.55 CMS
Min	0.16	0.12	0.20	0.29	0.35	0.71	0.65	0.38	0.32	0.35	0.32	0.18	0.12 CMS
Runoff	0.59	1.34	2.73	7.69	1.94	6.56	3.31	1.24	0.98	1.04	0.84	0.62	28.88 MCM
Momentary Peak	56.40 CMS, at 167.28 m. (MSL), at 09.00 Hours, on Jul 17, 2009												
Runoff Yield	10.06 Liters/Second/Square KM.			Momentary Peak Yield			619.780 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

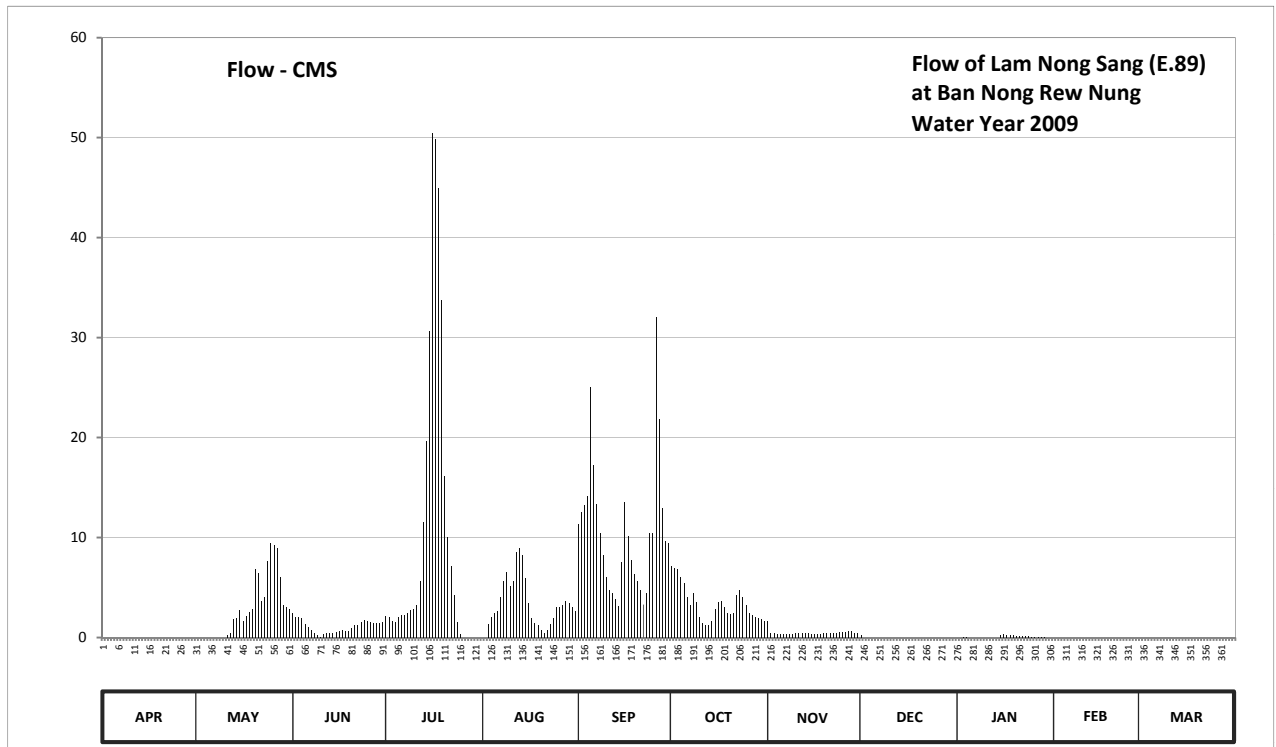
Lat 16 - 40 - 04 N Long 103 - 18 - 16 E

Location : on left bank at Ban Nong Rew Nung.

	Ban	Nong Rew Nung	Amphoe	Nong Kung Si	Changwat	Kalasin
Drainage Area	167	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+170.600 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On left bank upstream at the footpath of the bridge.				Elevation	+176.238 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	171.65	171.66	172.40	172.37	171.66	172.85	172.53	172.01	171.94	171.75	171.80	171.74	
2	171.65	171.66	172.36	172.36	171.80	172.94	172.51	172.00	171.80	171.77	171.80	171.73	
3	171.64	171.65	172.36	172.31	171.97	172.99	172.50	172.00	171.77	171.81	171.80	171.73	
4	171.64	171.65	172.34	172.28	172.05	173.05	172.43	171.99	171.76	171.81	171.79	171.73	
5	171.63	171.64	172.25	172.35	172.09	173.65	172.38	171.99	171.76	171.78	171.79	171.73	
6	171.62	171.64	172.19	172.38	172.10	173.25	172.24	171.98	171.76	171.73	171.79	171.72	
7	171.61	171.65	172.12	172.38	172.25	173.00	172.17	171.98	171.72	171.68	171.78	171.72	
8	171.61	171.66	172.02	172.40	172.40	172.78	172.29	171.99	171.68	171.66	171.78	171.72	
9	171.60	171.67	171.90	172.42	172.48	172.62	172.19	171.99	171.68	171.63	171.78	171.72	
10	171.61	171.75	171.84	172.43	172.35	172.43	172.04	172.00	171.70	171.58	171.78	171.71	
11	171.62	171.90	171.96	172.45	172.40	172.31	171.98	172.01	171.70	171.56	171.77	171.71	
12	171.63	172.00	172.02	172.54	172.64	172.28	171.96	172.01	171.71	171.57	171.77	171.71	
13	171.63	172.33	172.03	172.86	172.67	172.22	171.96	172.00	171.73	171.72	171.77	171.71	
14	171.64	172.34	172.03	173.38	172.62	172.15	172.01	172.00	171.74	171.80	171.77	171.71	
15	171.65	172.42	172.04	173.91	172.42	172.56	172.13	171.99	171.74	171.90	171.76	171.70	
16	171.65	172.31	172.07	174.65	172.18	173.01	172.19	171.98	171.75	171.95	171.76	171.70	
17	171.66	172.37	172.10	174.63	172.03	172.76	172.21	171.98	171.75	171.93	171.76	171.70	
18	171.66	172.41	172.08	174.46	171.98	172.58	172.14	171.99	171.76	171.91	171.76	171.70	
19	171.66	172.43	172.08	174.04	171.95	172.46	172.08	172.00	171.76	171.90	171.76	171.70	
20	171.65	172.57	172.16	173.18	171.89	172.40	172.07	172.01	171.77	171.89	171.75	171.69	
21	171.64	172.56	172.23	172.75	171.86	172.31	172.09	172.02	171.78	171.88	171.75	171.69	
22	171.64	172.48	172.23	172.53	171.89	172.17	172.26	172.02	171.78	171.87	171.75	171.69	
23	171.64	172.50	172.28	172.26	171.97	172.29	172.31	172.03	171.78	171.86	171.75	171.69	
24	171.65	172.59	172.32	171.99	172.03	172.78	172.24	172.04	171.77	171.85	171.75	171.69	
25	171.66	172.71	172.30	171.84	172.14	172.78	172.16	172.05	171.77	171.84	171.74	171.68	
26	171.66	172.69	172.29	171.79	172.14	173.97	172.08	172.06	171.77	171.82	171.74	171.68	
27	171.67	172.67	172.26	171.77	172.17	173.49	172.06	172.08	171.76	171.82	171.74	171.68	
28	171.67	172.55	172.26	171.74	172.21	172.97	172.04	172.09	171.76	171.82	171.74	171.68	
29	171.66	172.45	172.27	171.69	172.18	172.72	172.03	172.03	171.75	171.81		171.68	
30	171.66	172.44	172.29	171.67	172.14	172.71	172.02	172.00	171.75	171.80		171.67	
31		172.43		171.65	172.10		172.01		171.74	171.80		171.67	
Mean	171.64	172.19	172.17	172.63	172.15	172.75	172.17	172.01	171.75	171.79	171.77	171.70	
Max	171.67	172.71	172.40	174.65	172.67	173.97	172.53	172.09	171.94	171.95	171.80	171.74	174.65
Min	171.60	171.64	171.84	171.65	171.66	172.15	171.96	171.98	171.68	171.56	171.74	171.67	171.56
Annual Max Momentary Gage Height	174.86		m. (MSL.) ,			at 20.00 Hours, on Jul 16, 2009							
Zero Gage at Bottom Elevation	170.60		m. (MSL.) ,			River Bed	170.67	m. (MSL)					
Left Bank Elevation		176.27		m. (MSL.) ,									
Right Bank Elevation		176.26		m. (MSL.) ,		Drainage Area	167	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.40	2.16	0.00	11.38	7.16	1.70	0.28	0.00	0.00	0.00	
2	0.00	0.00	2.08	2.08	0.00	12.59	6.92	0.40	0.00	0.00	0.00	0.00	
3	0.00	0.00	2.08	1.68	1.36	13.27	6.80	0.40	0.00	0.02	0.00	0.00	
4	0.00	0.00	1.92	1.50	2.10	14.10	6.03	0.38	0.00	0.02	0.00	0.00	
5	0.00	0.00	1.35	2.00	2.50	25.00	5.48	0.38	0.00	0.00	0.00	0.00	
6	0.00	0.00	1.06	2.24	2.60	17.25	4.00	0.36	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.78	2.24	4.10	13.40	3.30	0.36	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.46	2.40	5.70	10.43	4.50	0.38	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.20	2.72	6.58	8.27	3.50	0.38	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.08	2.88	5.15	6.03	2.00	0.40	0.00	0.00	0.00	0.00	
11	0.00	0.20	0.32	3.20	5.70	4.71	1.44	0.43	0.00	0.00	0.00	0.00	
12	0.00	0.40	0.46	5.60	8.54	4.40	1.28	0.43	0.00	0.00	0.00	0.00	
13	0.00	1.84	0.49	11.51	8.94	3.80	1.28	0.40	0.00	0.00	0.00	0.00	
14	0.00	1.92	0.49	19.62	8.27	3.10	1.70	0.40	0.00	0.00	0.00	0.00	
15	0.00	2.72	0.52	30.64	5.92	7.52	2.90	0.38	0.00	0.20	0.00	0.00	
16	0.00	1.68	0.61	50.50	3.40	13.54	3.50	0.36	0.00	0.30	0.00	0.00	
17	0.00	2.16	0.70	49.90	1.90	10.16	3.70	0.36	0.00	0.26	0.00	0.00	
18	0.00	2.56	0.64	44.94	1.44	7.76	3.00	0.38	0.00	0.22	0.00	0.00	
19	0.00	2.88	0.64	33.76	1.20	6.36	2.40	0.40	0.00	0.20	0.00	0.00	
20	0.00	6.80	0.94	16.08	0.72	5.70	2.30	0.43	0.00	0.18	0.00	0.00	
21	0.00	6.40	1.25	10.02	0.48	4.71	2.50	0.46	0.00	0.16	0.00	0.00	
22	0.00	3.68	1.25	7.16	0.72	3.30	4.20	0.46	0.00	0.14	0.00	0.00	
23	0.00	4.00	1.50	4.20	1.36	4.50	4.71	0.49	0.00	0.12	0.00	0.00	
24	0.00	7.60	1.76	1.52	1.90	10.43	4.00	0.52	0.00	0.10	0.00	0.00	
25	0.00	9.49	1.60	0.32	3.00	10.43	3.20	0.55	0.00	0.08	0.00	0.00	
26	0.00	9.21	1.55	0.00	3.00	32.08	2.40	0.58	0.00	0.04	0.00	0.00	
27	0.00	8.94	1.40	0.00	3.30	21.80	2.20	0.64	0.00	0.04	0.00	0.00	
28	0.00	6.00	1.40	0.00	3.70	13.00	2.00	0.67	0.00	0.04	0.00	0.00	
29	0.00	3.20	1.45	0.00	3.40	9.62	1.90	0.49	0.00	0.02	0.00	0.00	
30	0.00	3.04	1.55	0.00	3.00	9.49	1.80	0.40	0.00	0.00	0.00	0.00	
31	0.00	2.88	0.00	2.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	87.60	32.93	310.87	102.58	318.13	103.80	14.37	0.28	2.14	0.00	0.00	972.70 CMSDAY
Mean	0.00	2.83	1.10	10.03	3.31	10.60	3.35	0.48	0.01	0.07	0.00	0.00	2.66 CMS
Max	0.00	9.49	2.40	50.50	8.94	32.08	7.16	1.70	0.28	0.30	0.00	0.00	50.50 CMS
Min	0.00	0.00	0.08	0.00	0.00	3.10	1.28	0.36	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	7.57	2.85	26.86	8.86	27.49	8.97	1.24	0.02	0.19	0.00	0.00	84.04 MCM
Momentary Peak	56.80 CMS, at 174.86 m. (MSL), at 20.00 Hours, on Jul 16, 2009												
Runoff Yield	15.96 Liters/Second/Square KM.			Momentary Peak Yield			340.120 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

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

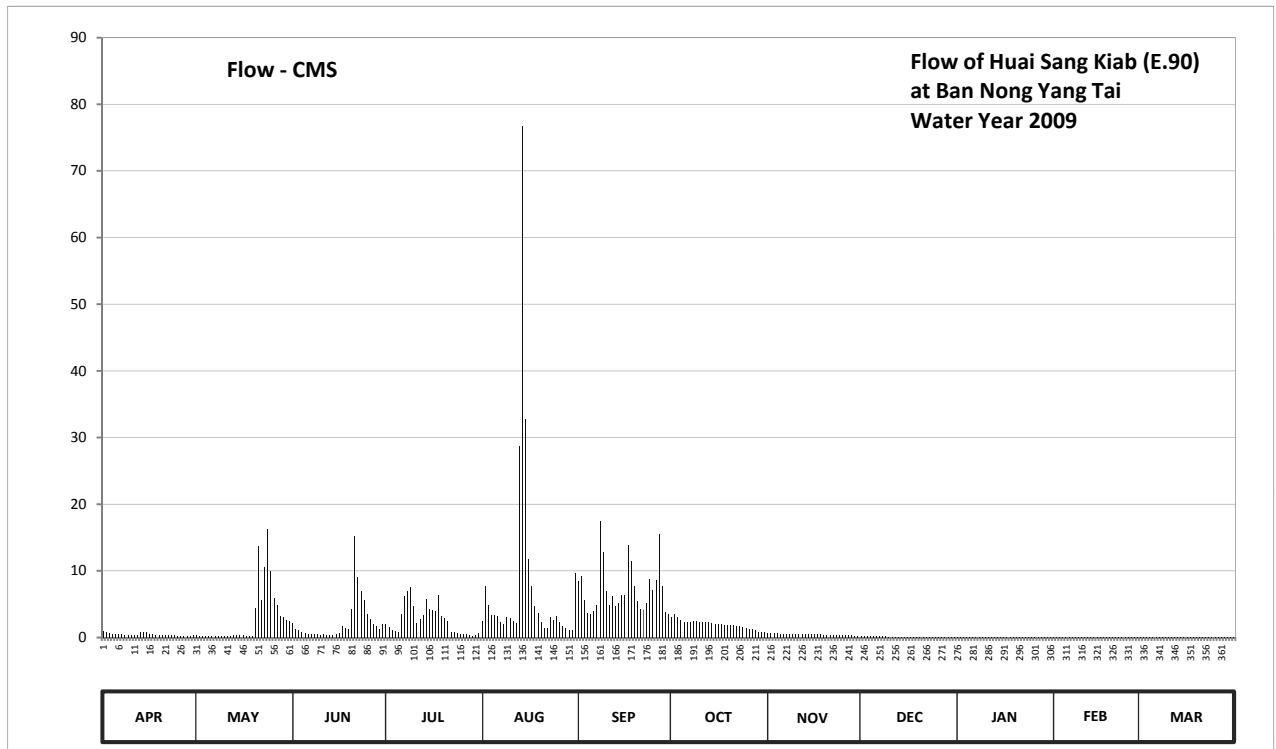
Lat 16 - 46 - 28 N Long 103 - 38 - 41 E

Location : on right bank at Ban Nong Yang Tai.

	Ban	Nong Yang Tai	Amphoe	Kham Muang	Changwat	Kalasin
Drainage Area	321	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+160.600 m. (MSL.)					
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank upstream at the footpath of the bridge.				Elevation	+167.096 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.77	160.57	161.06	161.04	161.12	161.97	162.04	161.75	161.50	161.17	161.00	160.76	
2	160.74	160.56	160.88	160.94	161.88	162.04	162.07	161.73	161.49	161.13	160.91	160.76	
3	160.70	160.55	160.81	160.84	161.55	161.64	162.04	161.70	161.47	161.10	160.76	160.75	
4	160.66	160.54	160.76	160.77	161.29	161.37	162.01	161.70	161.47	161.09	160.84	160.75	
5	160.62	160.54	160.68	160.72	161.29	161.32	161.98	161.69	161.46	161.06	160.82	160.76	
6	160.64	160.54	160.65	161.34	161.27	161.41	161.98	161.67	161.45	161.05	160.73	160.76	
7	160.62	160.54	160.64	161.71	161.11	161.55	161.99	161.66	161.45	161.02	160.73	160.77	
8	160.60	160.54	160.62	161.80	161.04	162.80	162.00	161.66	161.44	161.00	160.74	160.69	
9	160.61	160.54	160.62	161.86	161.25	162.41	162.00	161.65	161.44	160.97	160.79	160.57	
10	160.60	160.54	160.61	161.54	161.20	161.80	161.98	161.65	161.43	160.95	160.79	160.53	
11	160.60	160.54	160.62	161.07	161.13	161.55	161.99	161.64	161.42	160.94	160.80	160.53	
12	160.61	160.54	160.61	161.18	161.06	161.71	161.99	161.63	161.41	160.89	160.75	160.53	
13	160.76	160.59	160.61	161.29	163.55	161.53	161.98	161.63	161.40	160.86	160.75	160.54	
14	160.76	160.59	160.60	161.65	165.67	161.58	161.97	161.63	161.39	160.82	160.73	160.56	
15	160.75	160.57	160.63	161.48	163.79	161.72	161.96	161.63	161.39	160.78	160.79	160.56	
16	160.66	160.57	160.71	161.44	162.30	161.73	161.96	161.62	161.40	160.73	160.79	160.57	
17	160.62	160.55	160.96	161.41	161.88	162.51	161.95	161.62	161.39	160.72	160.77	160.58	
18	160.61	160.55	160.92	161.72	161.54	162.27	161.94	161.62	161.39	160.69	160.76	160.58	
19	160.61	160.55	160.88	161.27	161.35	161.87	161.93	161.61	161.37	160.66	160.76	160.54	
20	160.60	161.51	161.48	161.21	161.10	161.62	161.93	161.60	161.35	160.66	160.77	160.54	
21	160.59	162.49	162.61	161.12	160.92	161.48	161.93	161.60	161.35	160.70	160.78	160.54	
22	160.58	161.64	162.02	160.75	160.90	161.46	161.92	161.60	161.34	160.67	160.78	160.55	
23	160.57	162.17	161.79	160.72	161.24	161.59	161.91	161.59	161.33	160.64	160.77	160.55	
24	160.57	162.70	161.64	160.69	161.17	161.99	161.90	161.58	161.31	160.63	160.76	160.56	
25	160.56	162.12	161.34	160.65	161.27	161.81	161.88	161.57	161.29	160.61	160.76	160.62	
26	160.56	161.67	161.18	160.63	161.09	161.98	161.85	161.56	161.26	160.60	160.76	160.71	
27	160.55	161.55	161.05	160.62	160.97	162.64	161.85	161.56	161.23	160.61	160.75	160.70	
28	160.54	161.27	160.99	160.57	160.89	162.23	161.83	161.54	161.20	160.92	160.75	160.68	
29	160.54	161.23	160.86	160.56	160.83	162.09	161.81	161.53	161.21	161.00		160.64	
30	160.58	161.16	161.04	160.57	160.84	162.07	161.79	161.50	161.21	161.00		160.53	
31		161.12		160.70	162.08		161.78		161.20	161.00		160.53	
Mean	160.63	161.00	161.00	161.09	161.57	161.86	161.94	161.62	161.37	160.86	160.78	160.62	
Max	160.77	162.70	162.61	161.86	165.67	162.80	162.07	161.75	161.50	161.17	161.00	160.77	165.67
Min	160.54	160.54	160.60	160.56	160.83	161.32	161.78	161.50	161.20	160.60	160.73	160.53	160.53
Annual Max Momentary Gage Height	165.86		m. (MSL.) ,				at 12.00 Hours, on Aug 14, 2009						
Zero Gage at Bottom Elevation	160.60		m. (MSL.) ,			River Bed	159.87		m. (MSL)				
Left Bank Elevation		166.34		m. (MSL.) ,									
Right Bank Elevation		166.15		m. (MSL.) ,		Drainage Area	321		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.91	0.31	2.11	2.01	2.42	8.54	3.04	0.70	0.25	0.08	0.06	0.04	
2	0.82	0.28	1.32	1.56	7.74	9.20	3.52	0.66	0.24	0.07	0.05	0.04	
3	0.70	0.25	1.04	1.16	4.84	5.63	3.04	0.60	0.21	0.07	0.04	0.04	
4	0.58	0.22	0.88	0.91	3.31	3.72	2.56	0.60	0.21	0.07	0.04	0.04	
5	0.46	0.22	0.64	0.76	3.31	3.46	2.24	0.58	0.19	0.07	0.04	0.04	
6	0.52	0.22	0.55	3.57	3.20	3.93	2.24	0.54	0.18	0.07	0.03	0.04	
7	0.46	0.22	0.52	6.25	2.37	4.84	2.32	0.52	0.18	0.06	0.03	0.04	
8	0.40	0.22	0.46	7.04	2.01	17.52	2.40	0.52	0.16	0.06	0.03	0.03	
9	0.43	0.22	0.46	7.57	3.10	12.90	2.40	0.50	0.16	0.06	0.04	0.02	
10	0.40	0.22	0.43	4.75	2.84	7.04	2.24	0.50	0.14	0.06	0.04	0.01	
11	0.40	0.22	0.46	2.16	2.48	4.84	2.32	0.48	0.13	0.05	0.04	0.01	
12	0.43	0.22	0.43	2.74	2.11	6.25	2.32	0.46	0.12	0.05	0.04	0.01	
13	0.88	0.37	0.43	3.31	28.66	4.66	2.24	0.46	0.10	0.05	0.04	0.01	
14	0.88	0.37	0.40	5.72	76.69	5.10	2.16	0.46	0.10	0.04	0.03	0.02	
15	0.85	0.31	0.49	4.30	32.79	6.34	2.08	0.46	0.10	0.04	0.04	0.02	
16	0.58	0.31	0.73	4.09	11.80	6.42	2.08	0.44	0.10	0.03	0.04	0.02	
17	0.46	0.25	1.64	3.93	7.74	13.92	2.00	0.44	0.10	0.03	0.04	0.02	
18	0.43	0.25	1.48	6.34	4.75	11.50	1.92	0.44	0.10	0.03	0.04	0.02	
19	0.43	0.25	1.32	3.20	3.62	7.66	1.84	0.42	0.10	0.03	0.04	0.01	
20	0.40	4.49	4.30	2.89	2.32	5.46	1.84	0.40	0.10	0.03	0.04	0.01	
21	0.37	13.70	15.16	2.42	1.48	4.30	1.84	0.40	0.10	0.03	0.04	0.01	
22	0.34	5.63	9.00	0.85	1.40	4.19	1.76	0.40	0.09	0.03	0.04	0.02	
23	0.31	10.50	6.95	0.76	3.05	5.19	1.68	0.38	0.09	0.02	0.04	0.02	
24	0.31	16.28	5.63	0.67	2.68	8.71	1.60	0.37	0.09	0.02	0.04	0.02	
25	0.28	10.00	3.57	0.55	3.20	7.13	1.44	0.36	0.09	0.02	0.04	0.02	
26	0.28	5.90	2.74	0.49	2.27	8.62	1.20	0.34	0.09	0.02	0.04	0.03	
27	0.25	4.84	2.06	0.46	1.68	15.54	1.20	0.34	0.08	0.02	0.04	0.03	
28	0.22	3.20	1.76	0.31	1.36	7.74	1.04	0.31	0.08	0.05	0.04	0.03	
29	0.22	3.00	1.24	0.28	1.12	3.84	0.88	0.29	0.08	0.06		0.02	
30	0.34	2.63	2.01	0.31	1.16	3.52	0.78	0.25	0.08	0.06		0.01	
31		2.42		0.70	9.60		0.76		0.08	0.06		0.01	
Total	14.34	87.52	70.21	82.06	237.10	217.71	60.98	13.62	3.92	1.44	1.11	0.71	790.72 CMSDAY
Mean	0.48	2.82	2.34	2.65	7.65	7.26	1.97	0.45	0.13	0.05	0.04	0.02	2.17 CMS
Max	0.91	16.28	15.16	7.57	76.69	17.52	3.52	0.70	0.25	0.08	0.06	0.04	76.69 CMS
Min	0.22	0.22	0.40	0.28	1.12	3.46	0.76	0.25	0.08	0.02	0.03	0.01	0.01 CMS
Runoff	1.24	7.56	6.07	7.09	20.49	18.81	5.27	1.18	0.34	0.12	0.10	0.06	68.32 MCM
Momentary Peak	81.94 CMS, at 165.86 m. (MSL), at 12.00 Hours, on Aug 14, 2009												
Runoff Yield	6.75 Liters/Second/Square KM.			Momentary Peak Yield			255,265 Liters/Second/Square KM.						

WATER YEAR : 2009

CHI RIVER BASIN

Chi River at Ban Kui Chuak , Maha Sarakham (E.91)

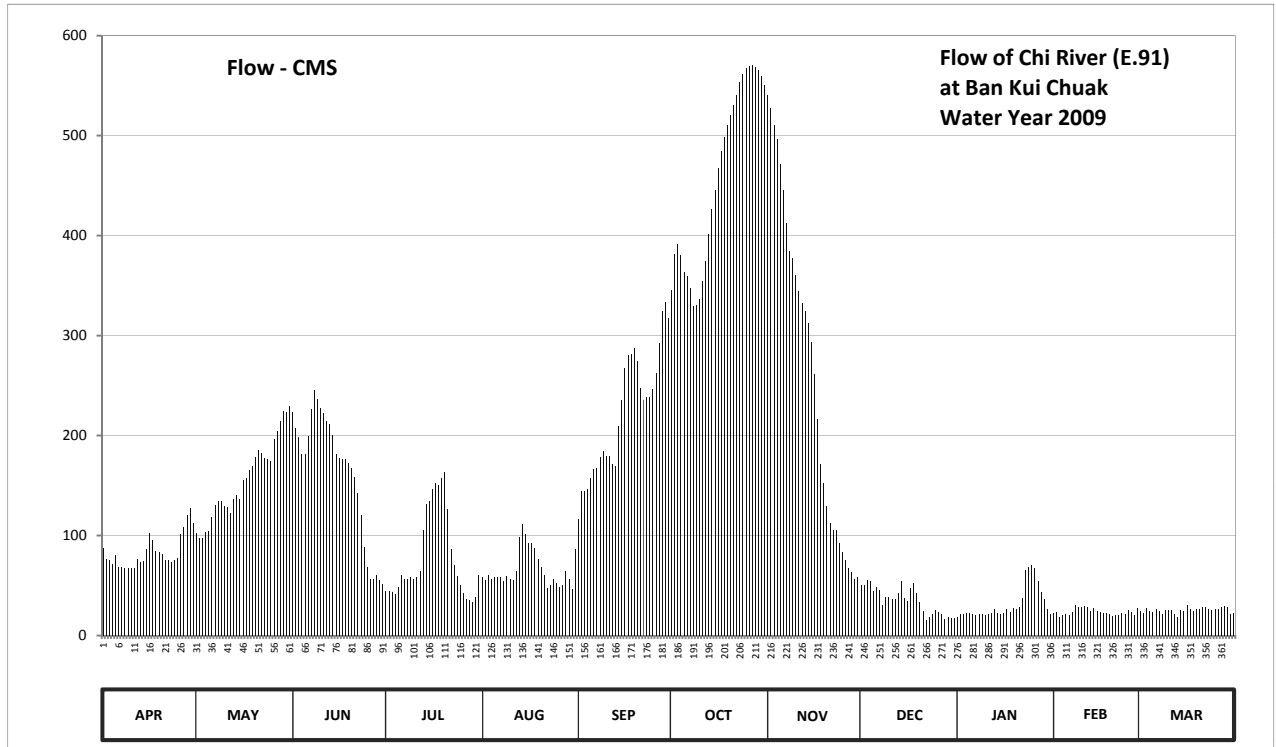
Lat 16 - 21 - 58 N Long 102 - 56 - 59 E

Location : on left bank at Ban Kui Chuak.

	Ban Kui Chuak	Amphoe Kosum Phisai	Changwat Maha Sarakham
Drainage Area	29,265 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+138.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the abutment of the bridge.		Elevation +151.082 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 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	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	141.27	141.54	143.33	140.42	140.68	141.76	144.87	147.06	140.53	139.77	139.85	139.90	
2	141.04	141.46	143.11	140.41	140.62	142.22	145.29	146.91	140.53	139.83	139.89	139.87	
3	141.03	141.45	142.99	140.39	140.73	142.22	145.40	146.73	140.63	139.83	139.77	139.99	
4	140.95	141.56	142.77	140.33	140.64	142.25	145.28	146.57	140.61	139.86	139.82	139.91	
5	141.12	141.57	142.77	140.48	140.68	142.43	145.09	146.30	140.41	139.85	139.83	139.89	
6	140.89	141.80	143.00	140.74	140.68	142.55	145.04	146.01	140.48	139.83	139.81	139.96	
7	140.89	142.00	143.36	140.64	140.68	142.56	144.89	145.64	140.43	139.82	139.89	139.90	
8	140.87	142.07	143.61	140.66	140.61	142.72	144.67	145.33	140.07	139.83	140.06	139.84	
9	140.87	142.07	143.50	140.69	140.70	142.80	144.68	145.25	140.25	139.84	140.02	139.94	
10	140.87	141.99	143.38	140.66	140.66	142.74	144.76	145.06	140.27	139.82	140.01	139.93	
11	140.86	141.96	143.31	140.68	140.63	142.74	144.98	144.86	140.21	139.84	140.04	139.93	
12	141.04	141.87	143.21	140.82	140.82	142.63	145.21	144.70	140.21	139.85	140.02	139.84	
13	140.99	142.09	143.17	141.59	141.47	142.60	145.52	144.61	140.35	139.96	139.90	139.75	
14	141.00	142.16	143.02	142.01	141.68	143.14	145.79	144.45	140.60	139.85	139.99	139.93	
15	141.25	142.10	142.77	142.06	141.52	143.48	146.01	144.22	140.24	139.83	139.90	139.92	
16	141.54	142.40	142.71	142.25	141.38	143.89	146.25	143.82	140.15	139.86	139.88	140.06	
17	141.43	142.43	142.69	142.34	141.36	144.05	146.44	143.23	140.46	139.97	139.85	139.95	
18	141.21	142.54	142.70	142.31	141.26	144.07	146.59	142.63	140.56	139.89	139.87	139.90	
19	141.19	142.60	142.64	142.43	141.06	144.14	146.73	142.34	140.35	139.99	139.84	139.95	
20	141.15	142.72	142.56	142.51	140.90	143.98	146.84	141.98	140.14	139.97	139.78	139.96	
21	141.03	142.82	142.44	141.94	140.74	143.64	146.95	141.70	139.90	140.01	139.81	140.02	
22	141.02	142.78	142.19	141.25	140.46	143.49	147.06	141.59	139.68	140.24	139.82	140.02	
23	140.99	142.71	141.83	140.93	140.53	143.52	147.19	141.59	139.76	140.83	139.85	139.96	
24	141.02	142.69	141.29	140.70	140.65	143.53	147.28	141.37	139.84	140.89	139.84	139.94	
25	141.07	142.67	140.89	140.53	140.56	143.63	147.34	141.19	139.94	140.93	139.93	139.95	
26	141.53	142.97	140.65	140.36	140.49	143.83	147.37	141.03	139.88	140.86	139.89	139.96	
27	141.63	143.07	140.66	140.21	140.52	144.20	147.38	140.86	139.84	140.60	139.82	140.01	
28	141.84	143.20	140.74	140.19	140.81	144.60	147.36	140.78	139.72	140.38	139.98	140.04	
29	141.95	143.34	140.63	140.13	140.65	144.72	147.32	140.64	139.75	140.21		140.01	
30	141.71	143.33	140.55	140.27	140.45	144.52	147.26	140.68	139.74	139.97		139.84	
31		143.40		140.73	141.25		147.16		139.73	139.83		139.87	
Mean	141.18	142.37	142.42	141.02	140.83	143.29	146.13	143.64	140.17	140.07	139.89	139.93	
Max	141.95	143.40	143.61	142.51	141.68	144.72	147.38	147.06	140.63	140.93	140.06	140.06	147.38
Min	140.86	141.45	140.55	140.13	140.45	141.76	144.67	140.64	139.68	139.77	139.77	139.75	139.68
Annual Max Momentary Gage Height		147.38		m. (MSL.) ,									at 06.00 Hours, on Oct 27, 2009
Zero Gage at Bottom Elevation		138.00		m. (MSL.) ,		River Bed	138.39		m. (MSL)				
Left Bank Elevation			150.36		m. (MSL.) ,								
Right Bank Elevation		150.65		m. (MSL.) ,		Drainage Area	29265		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	87.50	102.54	223.75	45.00	58.00	115.96	345.60	541.08	50.50	18.80	22.00	24.00	
2	76.00	97.66	207.25	44.50	55.00	144.26	381.10	527.22	50.50	21.20	23.60	22.80	
3	75.50	97.05	198.25	43.60	60.50	144.26	391.00	510.73	55.50	21.20	18.80	27.60	
4	71.50	103.76	181.81	41.20	56.00	146.15	380.20	496.30	54.50	22.40	20.80	24.40	
5	80.00	104.37	181.81	48.00	58.00	157.80	363.20	472.00	44.50	22.00	21.20	23.60	
6	68.50	118.40	199.00	61.00	58.00	166.20	359.20	445.90	48.00	21.20	20.40	26.40	
7	68.50	130.60	226.00	56.00	58.00	166.90	347.20	412.60	45.50	20.80	23.60	24.00	
8	67.50	134.87	244.80	57.00	54.50	178.16	329.60	384.70	30.80	21.20	30.40	21.60	
9	67.50	134.87	236.50	58.50	59.00	184.00	330.40	377.50	38.00	21.60	28.80	25.60	
10	67.50	129.99	227.50	57.00	57.00	179.62	336.80	360.80	38.80	20.80	28.40	25.20	
11	67.00	128.16	222.25	58.00	55.50	179.62	354.40	344.80	36.40	21.60	29.60	25.20	
12	76.00	122.67	214.75	65.00	65.00	171.80	373.90	332.00	36.40	22.00	28.80	21.60	
13	73.50	136.09	211.75	105.59	98.27	169.70	401.80	324.80	42.00	26.40	24.00	18.00	
14	74.00	140.48	200.50	131.21	111.08	209.50	426.10	312.00	54.00	22.00	27.60	25.20	
15	86.50	136.70	181.81	134.26	101.32	235.00	445.90	293.60	37.60	21.20	24.00	24.80	
16	102.54	155.70	177.43	146.15	93.00	267.20	467.50	261.60	34.00	22.40	23.20	30.40	
17	95.83	157.80	176.00	151.86	92.00	280.00	484.60	216.25	47.00	26.80	22.00	26.00	
18	84.50	165.50	176.70	149.94	87.00	281.60	498.10	171.80	52.00	23.60	22.80	24.00	
19	83.50	169.70	172.50	157.80	77.00	287.20	510.73	151.86	42.00	27.60	21.60	26.00	
20	81.50	178.16	166.90	163.40	69.00	274.40	520.78	129.38	33.60	26.80	19.20	26.40	
21	75.50	185.50	158.50	126.94	61.00	247.20	530.90	112.30	24.00	28.40	20.40	28.80	
22	75.00	182.54	142.37	86.50	47.00	235.75	541.08	105.59	15.20	37.60	20.80	28.80	
23	73.50	177.43	120.23	70.50	50.50	238.00	553.17	105.59	18.40	65.50	22.00	26.40	
24	75.00	176.00	88.50	59.00	56.50	238.75	561.54	92.50	21.60	68.50	21.60	25.60	
25	77.50	174.60	68.50	50.50	52.00	246.40	567.12	83.50	25.60	70.50	25.20	26.00	
26	101.93	196.75	56.50	42.40	48.50	262.40	569.91	75.50	23.20	67.00	23.60	26.40	
27	108.03	204.25	57.00	36.40	50.00	292.00	570.84	67.00	21.60	54.00	20.80	28.40	
28	120.84	214.00	61.00	35.60	64.50	324.00	568.98	63.00	16.80	43.20	27.20	29.60	
29	127.55	224.50	55.50	33.20	56.50	333.60	565.26	56.00	18.00	36.40		28.40	
30	112.91	223.75	51.50	38.80	46.50	317.60	559.68	58.00	17.60	26.80		21.60	
31		229.00		60.50	86.50		550.38		17.20	21.20		22.80	
Total	2502.63	4833.39	4886.86	2415.35	2042.67	6675.03	14186.97	7885.90	1090.80	970.70	662.40	785.60	48938.30 CMSDAY
Mean	83.42	155.92	162.90	77.91	65.89	222.50	457.64	262.86	35.19	31.31	23.66	25.34	134.08 CMS
Max	127.55	229.00	244.80	163.40	111.08	333.60	570.84	541.08	55.50	70.50	30.40	30.40	570.84 CMS
Min	67.00	97.05	51.50	33.20	46.50	115.96	329.60	56.00	15.20	18.80	18.80	18.00	15.20 CMS
Runoff	216.23	417.61	422.23	208.69	176.49	576.72	1225.75	681.34	94.25	83.87	57.23	67.88	4228.27 MCM
Momentary Peak	570.84 CMS, at 147.38 m. (MSL), at 06.00 Hours, on Oct 27, 2009												
Runoff Yield	4.58 Liters/Second/Square KM.			Momentary Peak Yield				19.506 Liters/Second/Square KM.					

WATER YEAR : 2009

CHI RIVER BASIN

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

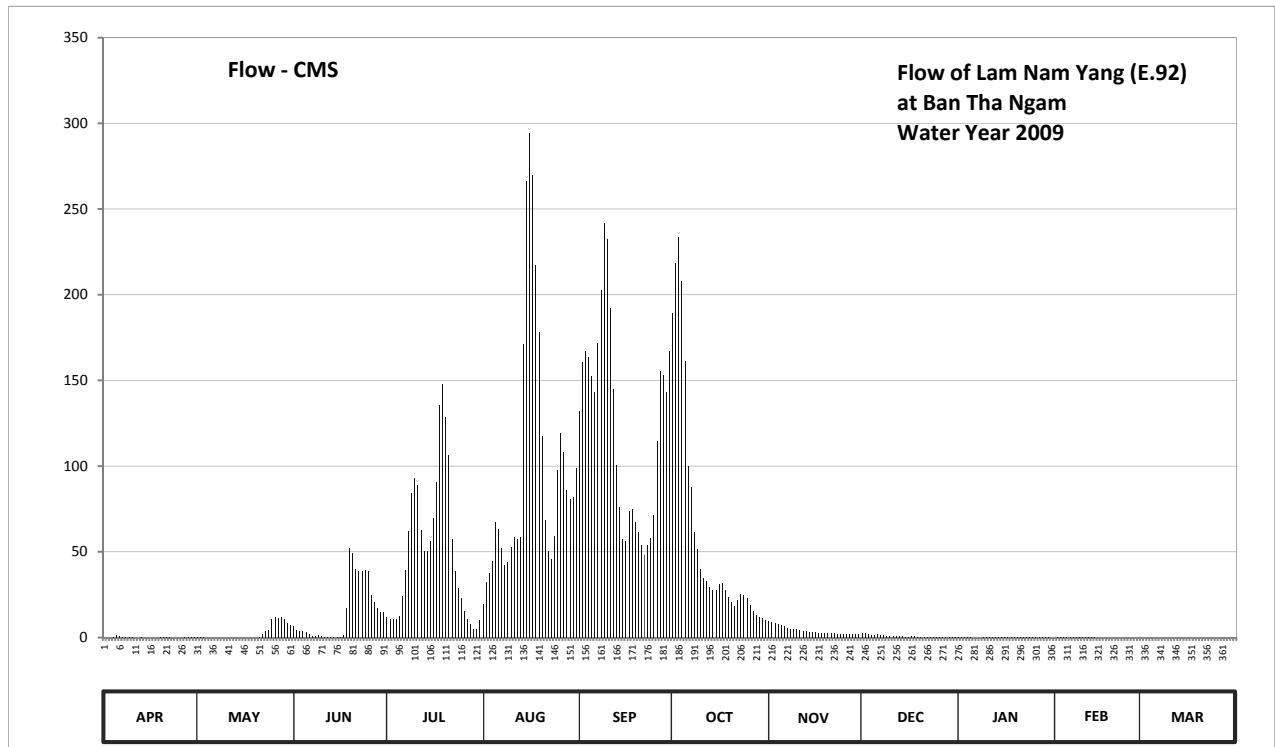
Lat 16 - 06 - 34 N Long 104 - 00 - 40 E

Location : on right bank at the bridge.

	Ban Tha Ngam	Amphoe Selaphum	Changwat Roi Et
Drainage Area	3,359 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+124.500 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the footpath of the bridge.	Elevation	+136.964 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +133.660 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.71	125.87	127.19	127.84	128.56	132.50	133.22	127.57	126.46	125.90	125.82	125.67	
2	125.67	125.87	126.85	127.70	129.48	132.88	133.54	127.51	126.44	125.95	125.85	125.65	
3	125.79	125.85	126.78	127.74	129.86	132.96	133.67	127.45	126.37	125.91	125.85	125.63	
4	125.98	125.82	126.72	127.70	130.24	132.92	133.43	127.36	126.30	125.88	125.86	125.61	
5	126.23	125.78	126.62	127.92	131.21	132.78	132.89	127.27	126.30	125.83	125.88	125.60	
6	126.13	125.73	126.43	128.92	131.12	132.66	131.95	127.19	126.38	125.79	125.85	125.58	
7	126.02	125.74	126.14	129.96	130.69	133.02	131.68	127.05	126.27	125.78	125.86	125.56	
8	125.92	125.76	126.18	131.09	130.14	133.37	131.08	126.95	126.20	125.79	125.91	125.55	
9	125.87	125.78	126.27	131.60	130.22	133.74	130.64	126.93	126.18	125.85	125.96	125.54	
10	125.83	125.77	126.12	131.80	130.71	133.66	130.01	126.94	126.17	125.86	125.93	125.53	
11	125.80	125.73	126.02	131.70	131.01	133.25	129.64	126.88	126.14	125.85	125.90	125.51	
12	125.81	125.77	126.00	131.10	130.96	132.68	129.51	126.77	126.12	125.83	125.88	125.49	
13	125.84	125.78	125.95	130.58	131.02	131.97	129.31	126.71	126.11	125.88	125.88	125.48	
14	125.82	125.78	125.87	130.58	133.01	131.41	129.18	126.66	126.10	125.86	125.86	125.47	
15	125.81	125.77	125.89	130.92	133.95	130.96	129.19	126.60	126.07	125.87	125.82	125.46	
16	125.81	125.77	126.02	131.26	134.13	130.89	129.40	126.58	126.05	125.88	125.82	125.45	
17	125.78	125.72	126.31	131.74	133.98	131.36	129.44	126.55	126.15	125.88	125.81	125.44	
18	125.79	125.71	128.36	132.55	133.53	131.39	129.17	126.52	126.17	125.90	125.75	125.42	
19	126.00	125.71	130.68	132.72	133.09	131.21	128.90	126.51	126.08	125.91	125.71	125.41	
20	126.01	125.71	130.51	132.45	132.29	131.08	128.66	126.47	126.02	125.91	125.70	125.40	
21	125.93	125.94	129.99	132.09	131.24	130.78	128.44	126.44	126.01	125.91	125.68	125.41	
22	125.84	126.36	129.92	130.97	130.57	130.46	128.72	126.44	125.98	125.92	125.68	125.40	
23	125.82	126.74	129.93	129.93	130.32	130.76	129.02	126.39	125.93	125.94	125.68	125.40	
24	125.79	126.90	129.96	129.26	131.03	130.99	128.97	126.39	125.91	125.92	125.68	125.39	
25	125.77	127.73	129.90	128.81	131.90	131.30	128.81	126.42	125.92	125.91	125.68	125.39	
26	125.80	127.84	128.99	128.18	132.32	132.24	128.51	126.43	125.91	125.89	125.68	125.38	
27	125.88	127.82	128.66	127.69	132.12	132.82	128.21	126.40	125.92	125.90	125.67	125.38	
28	125.84	127.86	128.33	127.33	131.64	132.79	128.01	126.37	125.92	125.90	125.67	125.37	
29	125.86	127.75	128.16	127.03	131.52	132.66	127.83	126.37	125.89	125.87		125.36	
30	125.88	127.41	128.15	126.97	131.54	132.96	127.76	126.38	125.89	125.85		125.35	
31		127.28		127.65	131.92		127.65		125.89	125.82		125.35	
Mean	125.87	126.29	127.63	129.80	131.46	132.15	129.89	126.75	126.10	125.88	125.80	125.47	
Max	126.23	127.86	130.68	132.72	134.13	133.74	133.67	127.57	126.46	125.95	125.96	125.67	134.13
Min	125.67	125.71	125.87	126.97	128.56	130.46	127.65	126.37	125.89	125.78	125.67	125.35	125.35
Annual Max Momentary Gage Height	134.16		m. (MSL.) ,				at 11.00 Hours, on Aug 16, 2009						
Zero Gage at Bottom Elevation	124.50		m. (MSL.) ,			River Bed	124.63	m. (MSL)					
Left Bank Elevation	133.65		m. (MSL.) ,										
Right Bank Elevation	134.80		m. (MSL.) ,			Drainage Area	3359	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.07	6.52	11.72	19.72	132.00	189.36	9.56	2.41	0.10	0.02	0.00	
2	0.00	0.07	4.28	10.60	32.20	160.40	218.64	9.08	2.31	0.15	0.05	0.00	
3	0.00	0.05	3.94	10.92	37.90	166.80	233.72	8.60	1.98	0.11	0.05	0.00	
4	0.18	0.02	3.66	10.60	44.32	163.60	207.84	7.88	1.64	0.08	0.06	0.00	
5	1.30	0.00	3.18	12.36	67.24	152.40	161.20	7.16	1.64	0.03	0.08	0.00	
6	0.82	0.00	2.26	24.04	63.28	143.20	99.80	6.52	2.02	0.00	0.05	0.00	
7	0.30	0.00	0.87	39.40	52.42	171.76	87.92	5.40	1.50	0.00	0.06	0.00	
8	0.12	0.00	1.06	61.96	42.52	202.56	61.52	4.76	1.16	0.00	0.11	0.00	
9	0.07	0.00	1.50	84.40	43.96	241.84	51.52	4.66	1.06	0.05	0.16	0.00	
10	0.03	0.00	0.78	93.20	52.78	232.56	40.18	4.71	1.02	0.06	0.13	0.00	
11	0.00	0.00	0.30	88.80	58.44	192.00	34.60	4.42	0.87	0.05	0.10	0.00	
12	0.01	0.00	0.20	62.40	57.28	144.60	32.65	3.90	0.78	0.03	0.08	0.00	
13	0.04	0.00	0.15	50.44	58.88	100.68	29.65	3.61	0.73	0.08	0.08	0.00	
14	0.02	0.00	0.07	50.44	170.88	76.04	27.70	3.37	0.68	0.06	0.06	0.00	
15	0.01	0.00	0.09	56.56	266.20	57.28	27.85	3.08	0.54	0.07	0.02	0.00	
16	0.01	0.00	0.30	69.44	294.10	56.02	31.00	2.98	0.44	0.08	0.02	0.00	
17	0.00	0.00	1.69	90.56	269.68	73.84	31.60	2.84	0.92	0.08	0.01	0.00	
18	0.00	0.00	17.32	135.50	217.48	75.16	27.55	2.70	1.02	0.10	0.00	0.00	
19	0.20	0.00	52.24	147.60	177.92	67.24	23.80	2.65	0.58	0.11	0.00	0.00	
20	0.25	0.00	49.18	128.50	117.40	61.52	20.92	2.46	0.30	0.11	0.00	0.00	
21	0.13	0.14	39.85	106.50	68.56	54.04	18.28	2.31	0.25	0.11	0.00	0.00	
22	0.04	1.93	38.80	57.46	50.26	48.28	21.64	2.31	0.18	0.12	0.00	0.00	
23	0.02	3.75	38.95	38.95	45.76	53.68	25.30	2.07	0.13	0.14	0.00	0.00	
24	0.00	4.52	39.40	28.90	59.32	57.82	24.64	2.07	0.11	0.12	0.00	0.00	
25	0.00	10.84	38.50	22.72	97.60	71.20	22.72	2.22	0.12	0.11	0.00	0.00	
26	0.00	11.72	24.88	15.16	119.40	114.40	19.12	2.26	0.11	0.09	0.00	0.00	
27	0.08	11.56	20.92	10.52	108.00	155.60	15.52	2.12	0.12	0.10	0.00	0.00	
28	0.04	11.88	16.96	7.64	86.16	153.20	13.12	1.98	0.12	0.10	0.00	0.00	
29	0.06	11.00	14.92	5.24	80.88	143.20	11.64	1.98	0.09	0.07	0.00	0.00	
30	0.08	8.28	14.80	4.86	81.76	166.80	11.08	2.02	0.09	0.05	0.00	0.00	
31		7.24		10.20	98.48		10.20		0.09	0.02		0.00	
Total	3.81	83.07	437.57	1547.59	3040.78	3689.72	1832.28	121.68	25.01	2.38	1.14	0.00	10785.03 CMSDAY
Mean	0.13	2.68	14.59	49.92	98.09	122.99	59.11	4.06	0.81	0.08	0.04	0.00	29.55 CMS
Max	1.30	11.88	52.24	147.60	294.10	241.84	233.72	9.56	2.41	0.15	0.16	0.00	294.10 CMS
Min	0.00	0.00	0.07	4.86	19.72	48.28	10.20	1.98	0.09	0.00	0.00	0.00	0.00 CMS
Runoff	0.33	7.18	37.81	133.71	262.72	318.79	158.31	10.51	2.16	0.21	0.10	0.00	931.83 MCM
Momentary Peak	299.20 CMS, at 134.16 m. (MSL), at 11.00 Hours, on Aug 16, 2009												
Runoff Yield	8.80 Liters/Second/Square KM.			Momentary Peak Yield			89.074 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

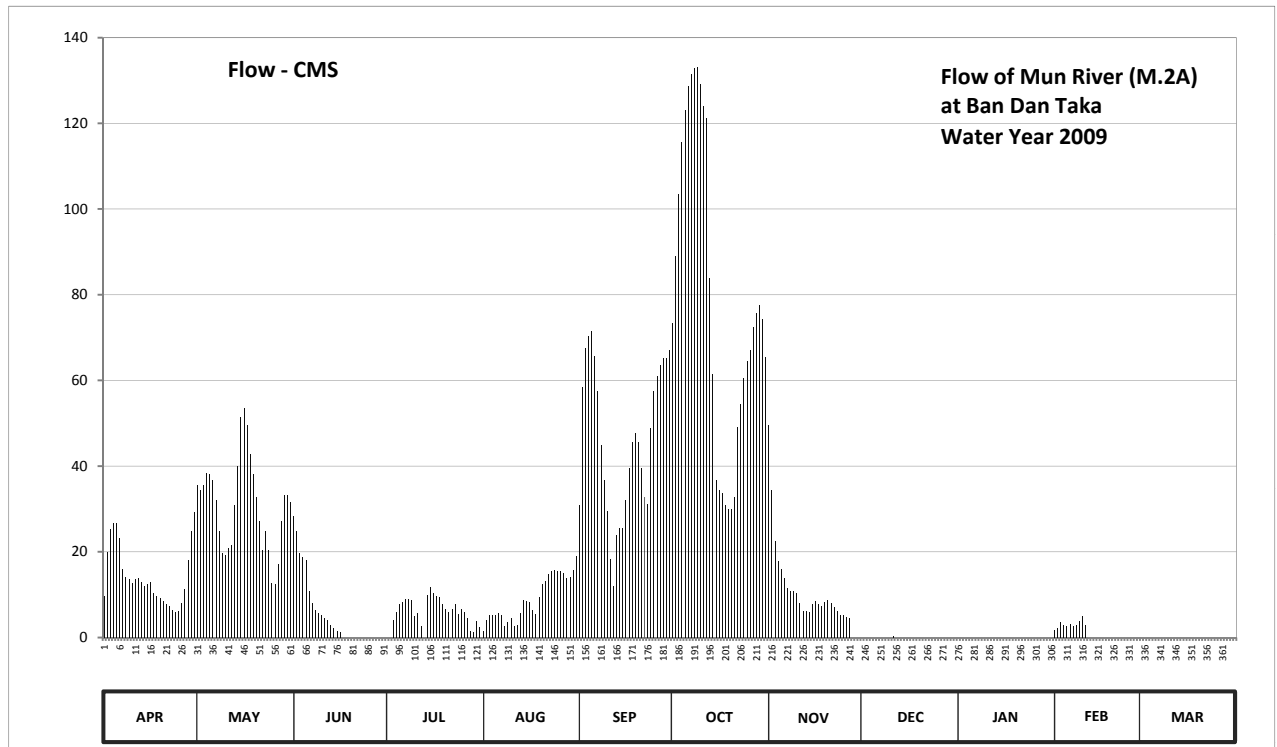
Lat 14 - 57 - 57 N Long 102 - 14 - 38 E

Location : on left bank at Ban Dan Taka.

Ban	Dan Taka	Amphoe	Chaloem Phra Kiat	Changwat	Nakhon Ratchasima
Drainage Area	4,724 sq.km.				
Type of Gage	Staff gage.				
Zero Gage at Bottom	+161.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank downstream at the footpath.			Elevation	+169.284 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 means of 5 readings				
Period of Available Gage Records	2001 to date				
Rating Operation					
Period of Rating	2001 to date				
Rated by Flot	-				
Rated by Current Meter	2001 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2009.				

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	163.39	164.14	163.96	162.78	163.06	164.02	165.27	164.49	162.85	162.63	163.07	162.76	
2	163.73	164.11	163.87	162.89	163.16	164.67	165.83	164.11	162.84	162.72	163.09	162.81	
3	163.88	164.14	163.72	163.16	163.21	164.97	166.24	163.81	162.99	162.73	163.14	162.86	
4	163.92	164.21	163.69	163.24	163.21	165.12	166.54	163.66	162.99	162.67	163.12	162.83	
5	163.92	164.20	163.67	163.31	163.21	165.17	166.73	163.60	162.98	162.62	163.11	162.82	
6	163.83	164.17	163.43	163.33	163.23	164.87	166.87	163.53	162.98	162.54	163.13	162.82	
7	163.60	164.05	163.32	163.36	163.21	164.65	166.94	163.45	162.98	162.46	163.11	162.76	
8	163.54	163.87	163.26	163.36	163.11	164.37	166.97	163.43	162.96	162.43	163.12	162.69	
9	163.52	163.72	163.23	163.35	163.14	164.17	166.98	163.43	162.91	162.40	163.15	162.65	
10	163.49	163.71	163.21	163.20	163.18	163.99	166.88	163.41	162.90	162.40	163.20	162.58	
11	163.52	163.76	163.18	163.23	163.11	163.68	166.75	163.32	163.01	162.40	163.12	162.51	
12	163.53	163.79	163.16	163.11	163.12	163.47	166.68	163.25	162.96	162.39	163.00	162.42	
13	163.50	164.02	163.12	162.95	163.23	163.85	165.66	163.25	162.94	162.39	162.93	162.30	
14	163.47	164.25	163.09	163.40	163.35	163.89	164.73	163.24	162.89	162.38	162.91	162.15	
15	163.48	164.53	163.06	163.46	163.34	163.89	164.17	163.31	162.86	162.40	162.88	162.01	
16	163.50	164.57	163.05	163.41	163.33	164.05	164.11	163.34	162.92	162.46	162.84	161.87	
17	163.41	164.49	162.98	163.39	163.26	164.24	164.09	163.31	162.93	162.46	162.75	161.72	
18	163.39	164.32	162.97	163.38	163.22	164.39	164.02	163.29	162.90	162.42	162.66	161.62	
19	163.37	164.20	162.95	163.31	163.38	164.44	164.00	163.33	162.89	162.36	162.62	161.58	
20	163.34	164.07	162.93	163.27	163.48	164.39	164.00	163.35	162.86	162.31	162.52	161.54	
21	163.31	163.93	162.92	163.24	163.51	164.24	164.07	163.32	162.79	162.26	162.44	161.47	
22	163.29	163.75	162.92	163.27	163.56	164.07	164.48	163.28	162.70	162.21	162.33	161.37	
23	163.26	163.87	162.89	163.31	163.58	164.03	164.59	163.25	162.68	162.24	162.25	161.33	
24	163.24	163.75	162.87	163.22	163.59	164.47	164.71	163.21	162.63	162.35	162.25	161.33	
25	163.25	163.49	162.73	163.27	163.58	164.65	164.79	163.21	162.54	162.40	162.34	161.26	
26	163.32	163.48	162.60	163.24	163.58	164.72	164.95	163.19	162.51	162.43	162.51	161.52	
27	163.44	163.64	162.69	163.18	163.57	164.77	165.22	163.18	162.52	162.44	162.73	161.83	
28	163.67	163.93	162.70	163.06	163.53	164.81	165.38	162.99	162.50	162.44	162.75	162.18	
29	163.87	164.08	162.70	163.05	163.54	164.81	165.45	162.92	162.47	162.42		162.21	
30	163.98	164.08	162.74	163.15	163.59	164.95	165.32	162.91	162.42	162.40		162.33	
31		164.04		163.10	163.70		164.85		162.51	162.92		162.54	
Mean	163.53	164.01	163.12	163.23	163.35	164.39	165.40	163.38	162.80	162.45	162.82	162.15	
Max	163.98	164.57	163.96	163.46	163.70	165.17	166.98	164.49	163.01	162.92	163.20	162.86	166.98
Min	163.24	163.48	162.60	162.78	163.06	163.47	164.00	162.91	162.42	162.21	162.25	161.26	161.26
Annual Max Momentary Gage Height	166.98		m. (MSL.) ,				at 18.00 Hours , on Oct 8 , 2009						
Zero Gage at Bottom Elevation	161.00		m. (MSL.) ,			River Bed	159.99	m. (MSL)					
Left Bank Elevation		169.02		m. (MSL.) ,									
Right Bank Elevation		169.04		m. (MSL.) ,		Drainage Area	4724	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.75	35.60	28.40	0.00	1.50	30.80	73.40	49.60	0.00	0.00	1.75	0.00	
2	19.90	34.40	24.80	0.00	4.00	58.50	88.90	34.40	0.00	0.00	2.25	0.00	
3	25.20	35.60	19.60	4.00	5.25	67.40	103.60	22.40	0.00	0.00	3.50	0.00	
4	26.80	38.40	18.70	6.00	5.25	70.40	115.60	17.80	0.00	0.00	3.00	0.00	
5	26.80	38.00	18.10	7.75	5.25	71.40	123.20	16.00	0.00	0.00	2.75	0.00	
6	23.20	36.80	10.90	8.25	5.75	65.70	128.80	13.90	0.00	0.00	3.25	0.00	
7	16.00	32.00	8.00	9.00	5.25	57.50	131.60	11.50	0.00	0.00	2.75	0.00	
8	14.20	24.80	6.50	9.00	2.75	44.80	132.80	10.90	0.00	0.00	3.00	0.00	
9	13.60	19.60	5.75	8.75	3.50	36.80	133.20	10.90	0.00	0.00	3.75	0.00	
10	12.70	19.30	5.25	5.00	4.50	29.60	129.20	10.30	0.00	0.00	5.00	0.00	
11	13.60	20.80	4.50	5.75	2.75	18.40	124.00	8.00	0.25	0.00	3.00	0.00	
12	13.90	21.70	4.00	2.75	3.00	12.10	121.20	6.25	0.00	0.00	0.00	0.00	
13	13.00	30.80	3.00	0.00	5.75	24.00	83.80	6.25	0.00	0.00	0.00	0.00	
14	12.10	40.00	2.25	10.00	8.75	25.60	61.50	6.00	0.00	0.00	0.00	0.00	
15	12.40	51.50	1.50	11.80	8.50	25.60	36.80	7.75	0.00	0.00	0.00	0.00	
16	13.00	53.50	1.25	10.30	8.25	32.00	34.40	8.50	0.00	0.00	0.00	0.00	
17	10.30	49.60	0.00	9.75	6.50	39.60	33.60	7.75	0.00	0.00	0.00	0.00	
18	9.75	42.80	0.00	9.50	5.50	45.60	30.80	7.25	0.00	0.00	0.00	0.00	
19	9.25	38.00	0.00	7.75	9.50	47.60	30.00	8.25	0.00	0.00	0.00	0.00	
20	8.50	32.80	0.00	6.75	12.40	45.60	30.00	8.75	0.00	0.00	0.00	0.00	
21	7.75	27.20	0.00	6.00	13.30	39.60	32.80	8.00	0.00	0.00	0.00	0.00	
22	7.25	20.50	0.00	6.75	14.80	32.80	49.20	7.00	0.00	0.00	0.00	0.00	
23	6.50	24.80	0.00	7.75	15.40	31.20	54.50	6.25	0.00	0.00	0.00	0.00	
24	6.00	20.50	0.00	5.50	15.70	48.80	60.50	5.25	0.00	0.00	0.00	0.00	
25	6.25	12.70	0.00	6.75	15.40	57.50	64.50	5.25	0.00	0.00	0.00	0.00	
26	8.00	12.40	0.00	6.00	15.40	61.00	67.00	4.75	0.00	0.00	0.00	0.00	
27	11.20	17.20	0.00	4.50	15.10	63.50	72.40	4.50	0.00	0.00	0.00	0.00	
28	18.10	27.20	0.00	1.50	13.90	65.10	75.60	0.00	0.00	0.00	0.00	0.00	
29	24.80	33.20	0.00	1.25	14.20	65.10	77.50	0.00	0.00	0.00	0.00	0.00	
30	29.20	33.20	0.00	3.75	15.70	67.00	74.40	0.00	0.00	0.00	0.00	0.00	
31		31.60		2.50	19.00		65.50		0.00	0.00		0.00	
Total	429.00	956.50	162.50	184.35	281.80	1380.60	2440.30	313.45	0.25	0.00	34.00	0.00	6182.75 CMSDAY
Mean	14.30	30.85	5.42	5.95	9.09	46.02	78.72	10.45	0.01	0.00	1.21	0.00	16.94 CMS
Max	29.20	53.50	28.40	11.80	19.00	71.40	133.20	49.60	0.25	0.00	5.00	0.00	133.20 CMS
Min	6.00	12.40	0.00	0.00	1.50	12.10	30.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	37.07	82.64	14.04	15.93	24.35	119.28	210.84	27.08	0.02	0.00	2.94	0.00	534.19 MCM
Momentary Peak	133.20 CMS. at 166.98 m. (MSL.) at 18.00 Hours , on Oct 8 , 2009												
Runoff Yield	3.59 Liters/Second/Square KM.			Momentary Peak Yield				28.196 Liters/Second/Square KM.					

WATER YEAR : 2009**MUN RIVER BASIN****Mun River at Ban Phong Sawai, Surin (M.4)**

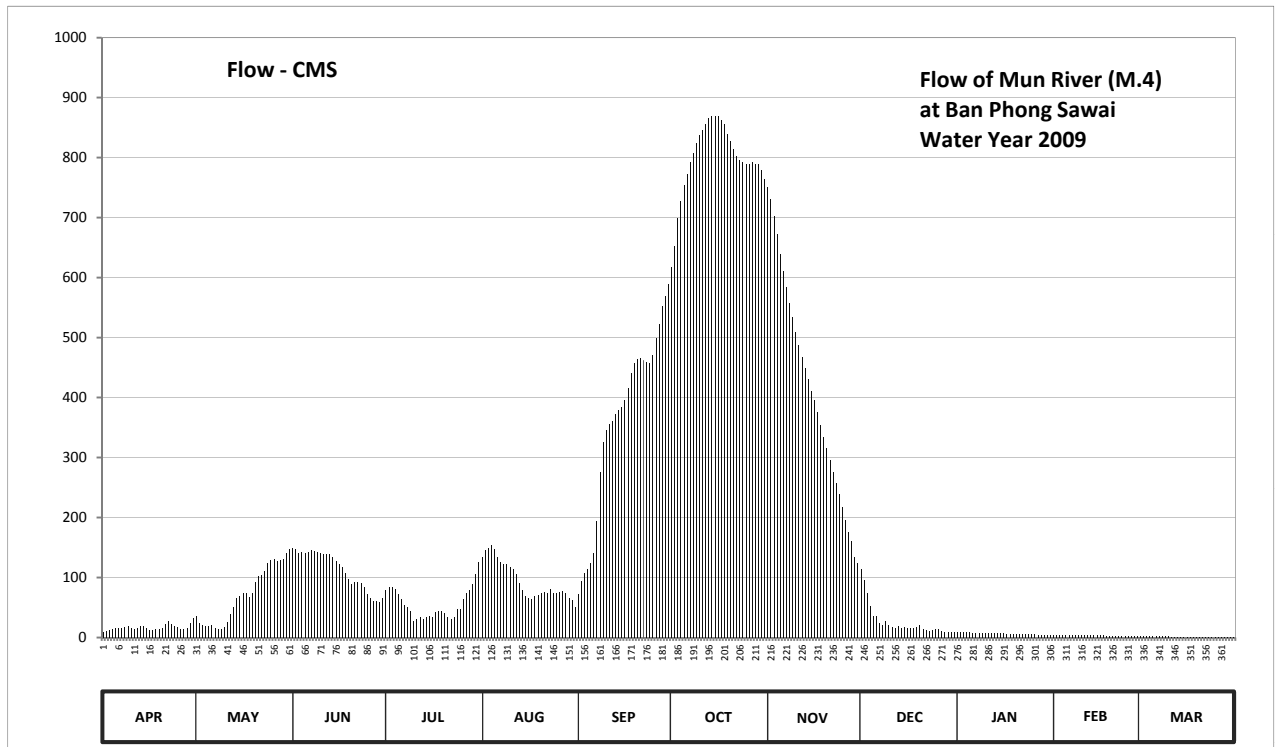
Lat 15 - 19 - 30 N Long 103 - 40 - 59 E

Location : on left bank at the bridge on highway.

	Ban	Phong Sawai	Amphoe	Tha Tum	Changwat	Surin
Drainage Area	34,654	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+117.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+128.990 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 means of 5 readings					
Period of Available Gage Records	1996-1997, 2005 to date					
Rating Operation						
Period of Rating	1996-1997, 2005 to date					
Rated by Flot	-					
Rated by Current Meter	1996-1997, 2005 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.77	118.66	120.14	119.29	119.98	119.21	123.72	124.18	119.74	117.77	117.53	117.42	
2	117.85	118.40	120.12	119.37	120.09	119.49	123.86	124.12	119.51	117.77	117.53	117.41	
3	117.90	118.28	120.05	119.37	120.13	119.66	124.02	124.03	119.22	117.75	117.53	117.40	
4	117.97	118.22	120.06	119.32	120.18	119.74	124.11	123.93	118.92	117.77	117.52	117.40	
5	118.06	118.26	120.04	119.20	120.11	119.85	124.19	123.81	118.66	117.74	117.52	117.39	
6	118.10	118.30	120.07	119.09	119.98	120.04	124.25	123.69	118.67	117.70	117.52	117.39	
7	118.13	118.10	120.09	118.95	119.87	120.60	124.31	123.58	118.38	117.69	117.52	117.38	
8	118.16	118.01	120.08	118.89	119.83	121.45	124.36	123.46	118.31	117.71	117.52	117.37	
9	118.23	117.98	120.07	118.81	119.83	121.90	124.41	123.34	118.48	117.71	117.52	117.37	
10	118.13	118.17	120.05	118.50	119.78	122.06	124.45	123.21	118.27	117.68	117.51	117.37	
11	117.99	118.45	120.02	118.55	119.74	122.13	124.48	123.09	118.15	117.68	117.51	117.36	
12	118.11	118.72	120.02	118.64	119.63	122.17	124.51	122.96	118.12	117.70	117.51	117.35	
13	118.22	118.89	120.03	118.58	119.44	122.25	124.54	122.82	118.24	117.70	117.50	117.35	
14	118.22	119.12	119.98	118.63	119.29	122.30	124.55	122.69	118.11	117.68	117.49	117.34	
15	118.09	119.17	119.90	118.66	119.17	122.34	124.55	122.54	118.17	117.65	117.49	117.34	
16	117.93	119.23	119.83	118.64	119.10	122.43	124.55	122.42	118.08	117.63	117.49	117.34	
17	117.92	119.24	119.77	118.77	119.08	122.58	124.53	122.28	118.12	117.62	117.47	117.34	
18	117.99	119.13	119.65	118.81	119.16	122.76	124.51	122.12	118.07	117.60	117.46	117.34	
19	118.02	119.23	119.54	118.79	119.19	122.88	124.46	121.96	118.14	117.60	117.45	117.34	
20	118.12	119.46	119.42	118.74	119.24	122.93	124.42	121.81	118.27	117.60	117.45	117.33	
21	118.36	119.60	119.46	118.63	119.26	122.94	124.38	121.64	118.03	117.61	117.45	117.32	
22	118.48	119.61	119.47	118.58	119.23	122.92	124.34	121.46	117.88	117.60	117.45	117.31	
23	118.35	119.69	119.45	118.65	119.32	122.90	124.32	121.27	117.87	117.58	117.45	117.32	
24	118.26	119.85	119.36	118.86	119.24	122.88	124.31	121.08	117.91	117.58	117.45	117.32	
25	118.20	119.91	119.21	118.84	119.23	122.98	124.30	120.85	117.97	117.56	117.45	117.32	
26	118.03	119.93	119.12	119.08	119.25	123.16	124.30	120.63	117.97	117.55	117.44	117.32	
27	117.98	119.90	119.05	119.23	119.27	123.28	124.31	120.42	117.83	117.51	117.43	117.31	
28	118.09	119.91	119.05	119.31	119.22	123.43	124.30	120.25	117.76	117.54	117.41	117.31	
29	118.41	119.94	119.02	119.42	119.12	123.51	124.30	119.97	117.76	117.54		117.30	
30	118.60	120.04	119.12	119.63	119.06	123.60	124.27	119.86	117.75	117.54		117.30	
31		120.12		119.87	118.90		124.22		117.75	117.54		117.30	
Mean	118.12	119.08	119.71	118.96	119.48	122.01	124.33	122.32	118.26	117.64	117.48	117.35	
Max	118.60	120.12	120.14	119.87	120.18	123.60	124.55	124.18	119.74	117.77	117.53	117.42	124.55
Min	117.77	117.98	119.02	118.50	118.90	119.21	123.72	119.86	117.75	117.51	117.41	117.30	117.30
Annual Max Momentary Gage Height	124.55		m. (MSL.) ,				at 18.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation	117.00		m. (MSL.) ,			River Bed	116.09	m. (MSL)					
Left Bank Elevation	128.70		m. (MSL.) ,										
Right Bank Elevation	129.27		m. (MSL.) ,			Drainage Area	34654	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.40	35.60	149.80	78.30	134.80	72.70	617.00	750.60	114.40	9.40	4.60	2.40	
2	11.00	24.00	147.90	84.60	145.05	94.20	652.60	731.40	95.80	9.40	4.60	2.20	
3	12.00	20.40	141.25	84.60	148.85	107.80	699.40	702.60	73.40	9.00	4.60	2.00	
4	13.40	18.60	142.20	80.60	153.60	114.40	728.20	672.00	52.40	9.40	4.40	2.00	
5	15.20	19.80	140.30	72.00	146.95	123.75	753.80	639.60	35.60	8.80	4.40	1.90	
6	16.00	21.00	143.15	64.30	134.80	140.30	773.00	609.70	36.20	8.00	4.40	1.90	
7	16.60	16.00	145.05	54.50	125.45	193.50	792.20	584.40	23.40	7.80	4.40	1.80	
8	17.20	14.20	144.10	50.30	122.05	275.00	808.20	558.00	21.30	8.20	4.40	1.70	
9	18.90	13.60	143.15	44.70	122.05	326.00	824.20	534.00	27.20	8.20	4.40	1.70	
10	16.60	17.40	141.25	28.00	117.80	346.10	837.00	508.90	20.10	7.60	4.20	1.70	
11	13.80	26.00	138.40	30.00	114.40	355.55	846.60	486.50	17.00	7.60	4.20	1.60	
12	16.20	39.20	138.40	34.40	105.40	360.95	856.20	467.60	16.40	8.00	4.20	1.50	
13	18.60	50.30	139.35	31.20	90.20	371.75	865.80	448.70	19.20	8.00	4.00	1.50	
14	18.60	66.40	134.80	33.80	78.30	378.50	869.00	431.15	16.20	7.60	3.80	1.40	
15	15.80	69.90	128.00	35.60	69.90	383.90	869.00	410.90	17.40	7.00	3.80	1.40	
16	12.60	74.10	122.05	34.40	65.00	396.05	869.00	394.70	15.60	6.60	3.80	1.40	
17	12.40	74.80	116.95	42.20	63.60	416.30	862.60	375.80	16.40	6.40	3.40	1.40	
18	13.80	67.10	107.00	44.70	69.20	440.60	856.20	354.20	15.40	6.00	3.20	1.40	
19	14.40	74.10	98.20	43.40	71.30	456.80	840.20	333.20	16.80	6.00	3.00	1.40	
20	16.40	91.80	88.60	40.40	74.80	463.55	827.40	315.20	20.10	6.00	3.00	1.30	
21	22.80	103.00	91.80	33.80	76.20	464.90	814.60	295.40	14.60	6.20	3.00	1.20	
22	27.20	103.80	92.60	31.20	74.10	462.20	801.80	276.00	11.60	6.00	3.00	1.10	
23	22.50	110.20	91.00	35.00	80.60	459.50	795.40	257.15	11.40	5.60	3.00	1.20	
24	19.80	123.75	83.80	48.20	74.80	456.80	792.20	239.10	12.20	5.60	3.00	1.20	
25	18.00	128.85	72.70	46.80	74.10	470.30	789.00	217.25	13.40	5.20	3.00	1.20	
26	14.60	130.55	66.40	63.60	75.50	499.40	789.00	196.35	13.40	5.00	2.80	1.20	
27	13.60	128.00	61.50	74.10	76.90	522.20	792.20	176.40	10.60	4.20	2.60	1.10	
28	15.80	128.85	61.50	79.80	73.40	552.00	789.00	160.25	9.20	4.80	2.20	1.10	
29	24.40	131.40	59.40	88.60	66.40	568.30	789.00	133.95	9.20	4.80		1.00	
30	32.00	140.30	66.40	105.40	62.20	589.00	779.40	124.60	9.00	4.80		1.00	
31	147.90			125.45	51.00		763.40		9.00	4.80		1.00	
Total	509.60	2210.90	3397.00	1743.95	2938.70	10862.30	24742.60	12385.60	793.90	212.00	103.40	45.90	59945.85 CMSDAY
Mean	16.99	71.32	113.23	56.26	94.80	362.08	798.15	412.85	25.61	6.84	3.69	1.48	164.24 CMS
Max	32.00	147.90	149.80	125.45	153.60	589.00	869.00	750.60	114.40	9.40	4.60	2.40	869.00 CMS
Min	9.40	13.60	59.40	28.00	51.00	72.70	617.00	124.60	9.00	4.20	2.20	1.00	1.00 CMS
Runoff	44.03	191.02	293.50	150.68	253.90	938.50	2137.76	1070.12	68.59	18.32	8.93	3.97	5179.32 MCM
Momentary Peak	869.00 CMS. at 124.55 m. (MSL.) at 18.00 Hours , on Oct 13 , 2009												
Runoff Yield	4.74 Liters/Second/Square KM.			Momentary Peak Yield				25.076 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

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

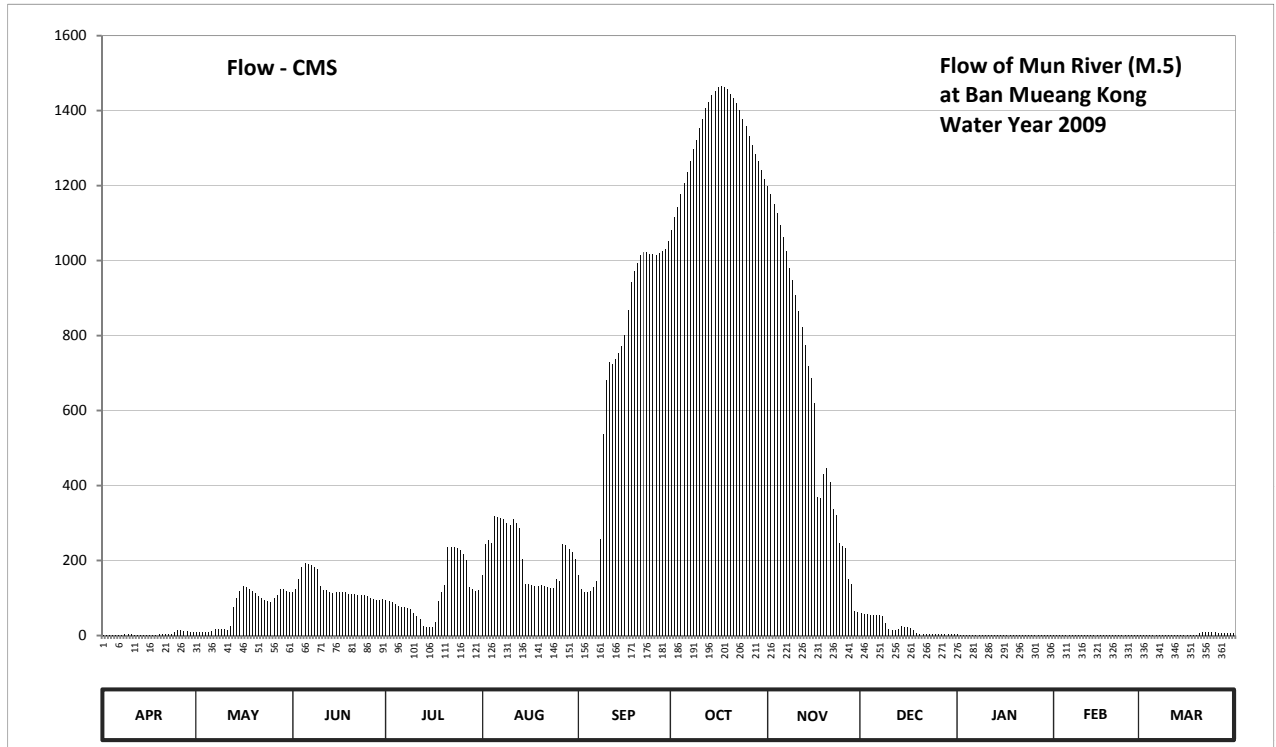
Lat 15 - 20 - 16 N Long 104 - 09 - 21 E

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

	Ban Mueang Kong	Amphoe Rasi Salai	Changwat Si Sa Ket
Drainage Area	45,295 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+110.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream side at the footpath of the bridge.		Elevation +124.814 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 means of 5 readings		
Period of Available Gage Records	1995 to date		
Rating Operation			
Period of Rating	1972 to date		
Rated by Flot	-		
Rated by Current Meter	1972 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Flow effected by Rasi Salai barrage about 10 kilometers above gage site. Stage-discharge relation defined by 30 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.02	110.30	111.70	111.48	112.15	112.15	118.30	118.78	111.06	110.13	110.02	110.05	
2	110.01	110.28	111.78	111.45	112.97	111.79	118.44	118.69	111.04	110.12	110.02	110.05	
3	110.01	110.28	112.03	111.43	113.06	111.69	118.56	118.59	111.03	110.11	110.02	110.05	
4	110.01	110.27	112.35	111.38	112.99	111.69	118.69	118.49	111.02	110.11	110.05	110.05	
5	110.02	110.27	112.47	111.32	113.64	111.74	118.81	118.35	111.02	110.11	110.05	110.05	
6	110.06	110.34	112.44	111.28	113.62	111.82	118.92	118.21	111.00	110.11	110.05	110.04	
7	110.09	110.45	112.42	111.27	113.58	112.00	119.03	118.05	110.99	110.11	110.05	110.04	
8	110.13	110.44	112.37	111.25	113.56	113.08	119.14	117.85	110.95	110.11	110.05	110.04	
9	110.14	110.42	112.30	111.21	113.47	115.36	119.23	117.70	110.70	110.11	110.05	110.04	
10	110.13	110.44	111.85	111.08	113.43	116.30	119.34	117.51	110.44	110.11	110.04	110.04	
11	110.12	110.41	111.75	110.96	113.56	116.57	119.43	117.30	110.40	110.11	110.04	110.04	
12	110.12	110.57	111.76	110.87	113.48	116.55	119.53	117.09	110.39	110.11	110.04	110.04	
13	110.11	111.27	111.70	110.56	113.36	116.62	119.58	116.84	110.42	110.10	110.04	110.04	
14	110.11	111.54	111.66	110.54	112.58	116.71	119.65	116.52	110.56	110.10	110.04	110.04	
15	110.11	111.72	111.70	110.53	111.92	116.81	119.68	116.32	110.54	110.09	110.03	110.03	
16	110.11	111.85	111.70	110.54	111.90	116.98	119.72	115.91	110.52	110.08	110.03	110.03	
17	110.11	111.84	111.71	110.76	111.88	117.31	119.73	114.08	110.50	110.08	110.05	110.04	
18	110.12	111.77	111.70	111.45	111.87	117.67	119.72	114.05	110.38	110.07	110.05	110.05	
19	110.13	111.73	111.65	111.70	111.87	117.81	119.70	114.58	110.22	110.06	110.07	110.05	
20	110.14	111.67	111.65	111.88	111.89	117.91	119.66	114.70	110.20	110.06	110.07	110.22	
21	110.14	111.60	111.64	112.87	111.85	118.00	119.62	114.41	110.19	110.05	110.07	110.28	
22	110.14	111.54	111.63	112.87	111.82	118.04	119.57	113.80	110.18	110.05	110.07	110.27	
23	110.14	111.48	111.61	112.87	111.80	118.04	119.51	113.65	110.18	110.05	110.06	110.27	
24	110.30	111.45	111.61	112.85	111.80	118.02	119.43	113.00	110.17	110.04	110.06	110.27	
25	110.40	111.44	111.59	112.80	112.05	118.01	119.36	112.91	110.17	110.04	110.06	110.27	
26	110.38	111.53	111.55	112.69	112.00	118.00	119.27	112.85	110.16	110.04	110.06	110.26	
27	110.34	111.63	111.52	112.55	112.97	118.03	119.18	112.05	110.16	110.03	110.05	110.26	
28	110.32	111.77	111.49	111.83	112.93	118.05	119.10	111.90	110.15	110.03	110.05	110.26	
29	110.31	111.78	111.47	111.77	112.84	118.07	119.03	111.15	110.14	110.03		110.26	
30	110.29	111.74	111.51	111.73	112.75	118.17	118.94	111.11	110.13	110.02		110.26	
31		111.71		111.75	112.57		118.85		110.14	110.02		110.26	
Mean	110.15	111.15	111.81	111.60	112.65	115.97	119.25	115.55	110.49	110.08	110.05	110.13	
Max	110.40	111.85	112.47	112.87	113.64	118.17	119.73	118.78	111.06	110.13	110.07	110.28	119.73
Min	110.01	110.27	111.47	110.53	111.80	111.69	118.30	111.11	110.13	110.02	110.02	110.03	110.01
Annual Max Momentary Gage Height	119.73		m. (MSL.) ,				at 09.00 Hours , on Oct 17 , 2009						
Zero Gage at Bottom Elevation	110.00		m. (MSL.) ,			River Bed	108.93	m. (MSL)					
Left Bank Elevation		124.55		m. (MSL.) ,									
Right Bank Elevation		122.64		m. (MSL.) ,		Drainage Area	45295	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	9.50	116.00	94.10	161.30	161.30	1082.00	1199.80	58.80	2.70	1.20	1.50	
2	1.10	8.50	124.00	91.20	244.90	125.00	1114.90	1176.50	57.20	2.50	1.20	1.50	
3	1.10	8.50	149.10	89.30	254.60	115.00	1144.00	1151.50	56.40	2.30	1.20	1.50	
4	1.10	8.00	181.70	84.80	247.00	115.00	1176.50	1126.60	55.60	2.30	1.50	1.50	
5	1.20	8.00	193.90	79.70	319.10	120.00	1207.60	1093.80	55.60	2.30	1.50	1.50	
6	1.60	11.70	190.90	76.40	316.80	128.00	1236.20	1060.90	54.00	2.30	1.50	1.40	
7	1.90	18.00	188.80	75.60	312.20	146.00	1265.40	1024.80	53.30	2.30	1.50	1.40	
8	2.70	17.40	183.70	74.00	309.90	256.80	1296.20	980.50	50.50	2.30	1.50	1.40	
9	3.00	16.20	176.60	70.80	299.70	537.70	1321.40	947.50	33.00	2.30	1.50	1.40	
10	2.70	17.40	131.00	60.40	295.30	682.00	1352.60	906.70	17.40	2.30	1.40	1.40	
11	2.50	15.60	121.00	51.20	309.90	728.20	1378.70	864.50	15.00	2.30	1.40	1.40	
12	2.50	25.20	122.00	44.90	300.80	724.80	1407.70	822.50	14.40	2.30	1.40	1.40	
13	2.30	75.60	116.00	24.60	287.60	737.00	1422.20	775.70	16.20	2.00	1.40	1.40	
14	2.30	100.00	112.00	23.40	205.20	752.70	1442.50	719.50	24.60	2.00	1.40	1.40	
15	2.30	118.00	116.00	22.80	138.00	770.30	1451.20	685.40	23.40	1.90	1.30	1.30	
16	2.30	131.00	116.00	23.40	136.00	800.90	1462.80	620.10	22.20	1.80	1.30	1.30	
17	2.30	130.00	117.00	37.20	134.00	866.50	1465.70	370.10	21.00	1.80	1.50	1.40	
18	2.50	123.00	116.00	91.20	133.00	941.10	1462.80	366.50	13.90	1.70	1.50	1.50	
19	2.70	119.00	111.00	116.00	133.00	971.70	1457.00	430.90	5.50	1.60	1.70	1.50	
20	3.00	113.00	111.00	134.00	135.00	993.70	1445.40	446.50	4.50	1.60	1.70	5.50	
21	3.00	106.00	110.00	234.70	131.00	1013.50	1433.80	409.70	4.30	1.50	1.70	8.50	
22	3.00	100.00	109.00	234.70	128.00	1022.50	1419.30	337.50	4.00	1.50	1.70	8.00	
23	3.00	94.10	107.00	234.70	126.00	1022.50	1401.90	320.30	4.00	1.50	1.60	8.00	
24	9.50	91.20	107.00	232.70	126.00	1018.00	1378.70	248.00	3.80	1.40	1.60	8.00	
25	15.00	90.30	105.00	227.60	151.10	1015.80	1358.40	238.80	3.80	1.40	1.60	8.00	
26	13.90	99.00	101.00	216.40	146.00	1013.50	1332.60	232.70	3.50	1.40	1.60	7.50	
27	11.70	109.00	98.00	202.10	244.90	1020.20	1307.40	151.10	3.50	1.30	1.50	7.50	
28	10.60	123.00	95.00	129.00	240.90	1024.80	1285.00	136.00	3.30	1.30	1.50	7.50	
29	10.00	124.00	93.20	123.00	231.70	1029.30	1265.40	66.00	3.00	1.30		7.50	
30	9.00	120.00	97.00	119.00	222.50	1051.80	1241.40	62.80	2.70	1.20		7.50	
31		117.00		121.00	204.10		1218.00		3.00	1.20		7.50	
Total	131.00	2247.20	3815.90	3439.90	6625.50	20905.60	41234.70	18973.20	691.40	57.60	41.40	118.10	98281.50 CMSDAY
Mean	4.40	72.50	127.20	111.00	213.70	696.90	1330.20	632.40	22.30	1.90	1.50	3.80	269.30 CMS
Max	15.00	131.00	193.90	234.70	319.10	1051.80	1465.70	1199.80	58.80	2.70	1.70	8.50	1465.70 CMS
Min	1.10	8.00	93.20	22.80	126.00	115.00	1082.00	62.80	2.70	1.20	1.20	1.30	1.10 CMS
Runoff	11.32	194.16	329.69	297.21	572.44	1806.24	3562.68	1639.28	59.74	4.98	3.58	10.20	8491.52 MCM
Momentary Peak	1465.70 CMS. at 119.73 m. (MSL.) at 09.00 Hours , on Oct 17 , 2009												
Runoff Yield	5.94 Liters/Second/Square KM.			Momentary Peak Yield			32.359 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

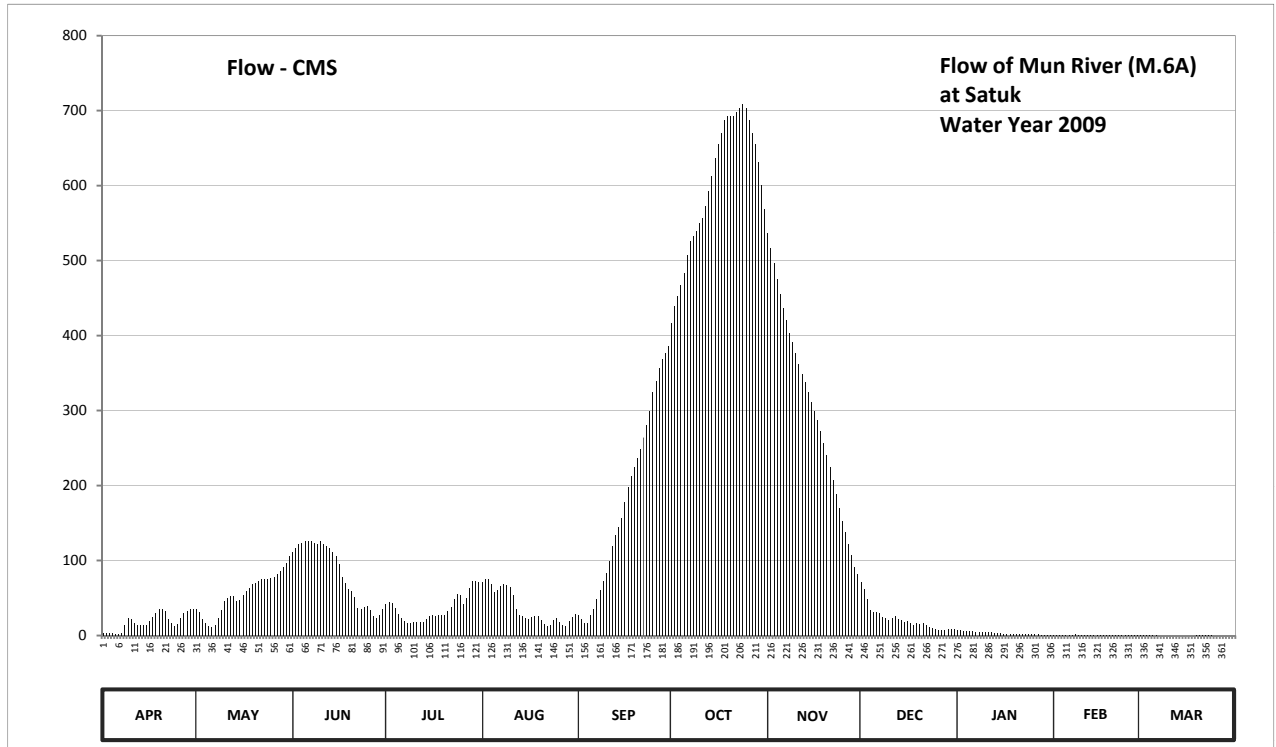
Lat 15 - 17 - 53 N Long 103 - 17 - 46 E

Location : on right bank at Satuk.

	Ban	-	Amphoe	Satuk	Changwat	Buri Ram
Drainage Area	28,458	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+124.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+133.541 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 means of 5 readings					
Period of Available Gage Records	1964 to date					
Rating Operation						
Period of Rating	1976 to date					
Rated by Flot	-					
Rated by Current Meter	1976 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow					
General Description	Records very good. Ban Hua Saphan weir situated about 30 Kilometers above gage site and Non Kho weir situated about 10 kilometers downstream from the gage sit. Stage-discharge relation defined by 42 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.93	125.00	126.44	125.13	125.72	124.78	129.14	129.58	125.72	124.12	123.79	123.73	
2	123.92	124.87	126.51	125.19	125.81	124.59	129.24	129.52	125.55	124.08	123.78	123.72	
3	123.91	124.62	126.57	125.16	125.82	124.44	129.30	129.46	125.27	124.06	123.77	123.71	
4	123.90	124.45	126.60	125.03	125.67	124.43	129.36	129.39	124.96	124.05	123.77	123.71	
5	123.88	124.30	126.62	124.80	125.47	124.76	129.42	129.31	124.87	124.04	123.77	123.71	
6	123.88	124.26	126.63	124.63	125.51	124.99	129.49	129.23	124.90	124.03	123.76	123.71	
7	123.91	124.34	126.62	124.52	125.61	125.27	129.55	129.16	124.85	124.01	123.75	123.70	
8	124.36	124.64	126.59	124.46	125.66	125.52	129.57	129.08	124.69	124.01	123.82	123.70	
9	124.63	124.96	126.58	124.44	125.65	125.74	129.59	129.01	124.63	124.00	123.80	123.70	
10	124.61	125.21	126.62	124.49	125.59	125.97	129.62	128.93	124.57	123.99	123.79	123.69	
11	124.45	125.31	126.58	124.49	125.38	126.26	129.64	128.84	124.65	123.97	123.78	123.69	
12	124.35	125.36	126.54	124.49	125.01	126.54	129.69	128.76	124.71	123.95	123.78	123.69	
13	124.36	125.35	126.50	124.49	124.77	126.73	129.74	128.68	124.59	123.93	123.77	123.69	
14	124.36	125.22	126.44	124.62	124.71	126.86	129.79	128.58	124.57	123.91	123.76	123.69	
15	124.36	125.24	126.36	124.72	124.65	127.01	129.84	128.48	124.49	123.90	123.76	123.69	
16	124.51	125.39	126.20	124.76	124.60	127.23	129.88	128.39	124.52	123.88	123.76	123.69	
17	124.68	125.50	125.85	124.72	124.69	127.43	129.91	128.29	124.44	123.87	123.76	123.68	
18	124.85	125.56	125.69	124.75	124.74	127.58	129.94	128.18	124.36	123.85	123.76	123.68	
19	125.00	125.66	125.55	124.75	124.71	127.70	129.95	128.01	124.44	123.85	123.76	123.76	
20	125.00	125.71	125.49	124.77	124.56	127.81	129.95	127.86	124.42	123.85	123.76	123.78	
21	124.91	125.75	125.33	124.91	124.40	127.94	129.95	127.70	124.44	123.84	123.76	123.75	
22	124.61	125.80	125.02	125.06	124.31	128.09	129.96	127.52	124.37	123.84	123.75	123.74	
23	124.45	125.80	124.99	125.28	124.34	128.24	129.97	127.34	124.28	123.83	123.75	123.72	
24	124.30	125.80	125.06	125.41	124.57	128.39	129.98	127.15	124.20	123.83	123.75	123.71	
25	124.42	125.83	125.08	125.38	124.65	128.58	129.97	126.96	124.16	123.83	123.75	123.70	
26	124.66	125.86	124.97	125.15	124.48	128.69	129.94	126.78	124.12	123.82	123.74	123.69	
27	124.84	125.93	124.72	125.31	124.34	128.81	129.91	126.58	124.10	123.81	123.74	123.68	
28	124.93	126.02	124.65	125.56	124.33	128.88	129.88	126.37	124.09	123.80	123.73	123.66	
29	125.00	126.13	124.79	125.74	124.54	128.93	129.83	126.14	124.18	123.80		123.65	
30	125.01	126.23	125.01	125.74	124.70	128.98	129.76	125.93	124.16	123.79		123.65	
31		126.36		125.73	124.82		129.68		124.14	123.79		123.65	
Mean	124.47	125.37	125.89	124.96	124.96	126.91	129.72	128.17	124.56	123.91	123.77	123.70	
Max	125.01	126.36	126.63	125.74	125.82	128.98	129.98	129.58	125.72	124.12	123.82	123.78	129.98
Min	123.88	124.26	124.65	124.44	124.31	124.43	129.14	125.93	124.09	123.79	123.73	123.65	123.65
Annual Max Momentary Gage Height	129.98		m. (MSL.) ,				at 06.00 Hours , on Oct 24 , 2009						
Zero Gage at Bottom Elevation	124.00		m. (MSL.) ,			River Bed	122.45	m. (MSL)					
Left Bank Elevation		131.96		m. (MSL.) ,									
Right Bank Elevation		132.01		m. (MSL.) ,		Drainage Area	28458	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.50	35.00	111.80	41.50	71.00	27.60	416.20	536.40	71.00	7.60	1.20	0.40	
2	3.30	30.60	116.80	44.50	75.50	21.40	439.20	516.60	62.50	6.70	1.00	0.30	
3	3.10	22.40	121.60	43.00	76.00	16.40	453.00	496.80	48.50	6.20	0.90	0.10	
4	2.90	16.70	124.00	36.50	68.50	16.10	467.40	474.60	33.60	6.00	0.90	0.10	
5	2.60	12.30	125.60	28.30	58.50	27.00	483.60	455.40	30.60	5.80	0.90	0.10	
6	2.60	11.20	126.40	22.70	60.50	34.70	506.70	436.90	31.60	5.60	0.80	0.10	
7	3.10	13.40	125.60	19.10	65.50	48.50	526.50	420.80	29.90	5.10	0.70	0.00	
8	14.00	23.00	123.20	17.10	68.00	61.00	533.10	403.40	24.70	5.10	1.60	0.00	
9	22.70	33.60	122.40	16.40	67.50	72.00	539.70	390.80	22.70	4.90	1.30	0.00	
10	22.00	45.50	125.60	18.10	64.50	83.50	549.60	377.10	20.70	4.70	1.20	0.00	
11	16.70	50.50	122.40	18.10	54.00	99.20	556.20	361.80	23.30	4.30	1.00	0.00	
12	13.70	53.00	119.20	18.10	35.50	119.20	572.70	349.00	25.30	3.90	1.00	0.00	
13	14.00	52.50	116.00	18.10	27.30	134.40	592.40	337.40	21.40	3.50	0.90	0.00	
14	14.00	46.00	111.80	22.40	25.30	144.80	612.90	324.40	20.70	3.10	0.80	0.00	
15	14.00	47.00	106.20	25.70	23.30	156.90	636.20	311.40	18.10	2.90	0.80	0.00	
16	18.70	54.50	95.00	27.00	21.70	178.00	655.40	299.70	19.10	2.60	0.80	0.00	
17	24.30	60.00	77.50	25.70	24.70	198.00	670.50	286.70	16.40	2.40	0.80	0.00	
18	29.90	63.00	69.50	26.60	26.30	213.00	687.00	273.00	14.00	2.10	0.80	0.00	
19	35.00	68.00	62.50	26.60	25.30	225.00	692.50	256.00	16.40	2.10	0.80	0.80	
20	35.00	70.50	59.50	27.30	20.40	236.00	692.50	241.00	15.80	2.10	0.80	1.00	
21	31.90	72.50	51.50	31.90	15.10	249.00	692.50	225.00	16.40	1.90	0.80	0.70	
22	22.00	75.00	36.00	38.00	12.60	264.00	698.00	207.00	14.30	1.90	0.70	0.50	
23	16.70	75.00	34.70	49.00	13.40	280.20	703.50	189.00	11.80	1.80	0.70	0.30	
24	12.30	75.00	38.00	55.50	20.70	299.70	709.00	170.00	9.60	1.80	0.70	0.10	
25	15.80	76.50	39.00	54.00	23.30	324.40	703.50	152.80	8.60	1.80	0.70	0.00	
26	23.70	78.00	34.00	42.50	17.70	338.70	687.00	138.40	7.60	1.60	0.50	0.00	
27	29.60	81.50	25.70	50.50	13.40	356.70	670.50	122.40	7.10	1.50	0.50	0.00	
28	32.60	86.00	23.30	63.00	13.10	368.60	655.40	106.90	6.90	1.30	0.40	0.00	
29	35.00	91.50	28.00	72.00	19.70	377.10	631.40	92.00	9.10	1.30	0.00	0.00	
30	35.50	97.10	35.50	72.00	25.00	385.60	600.60	81.50	8.60	1.20	0.00	0.00	
31		106.20		71.50	29.00		569.40		8.10	1.20		0.00	
Total	550.20	1723.00	2508.30	1122.70	1162.30	5356.70	18604.10	9034.20	674.40	104.00	24.00	4.50	40868.40 CMSDAY
Mean	18.30	55.60	83.60	36.20	37.50	178.60	600.10	301.10	21.80	3.40	0.90	0.10	112.00 CMS
Max	35.50	106.20	126.40	72.00	76.00	385.60	709.00	536.40	71.00	7.60	1.60	1.00	709.00 CMS
Min	2.60	11.20	23.30	16.40	12.60	16.10	416.20	81.50	6.90	1.20	0.40	0.00	0.00 CMS
Runoff	47.54	148.87	216.72	97	100.42	462.82	1607.39	780.55	58.27	8.99	2.07	0.39	3531.03 MCM
Momentary Peak	709.00 CMS. at 129.98 m. (MSL.) at 06.00 Hours , on Oct 24 , 2009												
Runoff Yield	3.93 Liters/Second/Square KM.			Momentary Peak Yield			24,914 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)

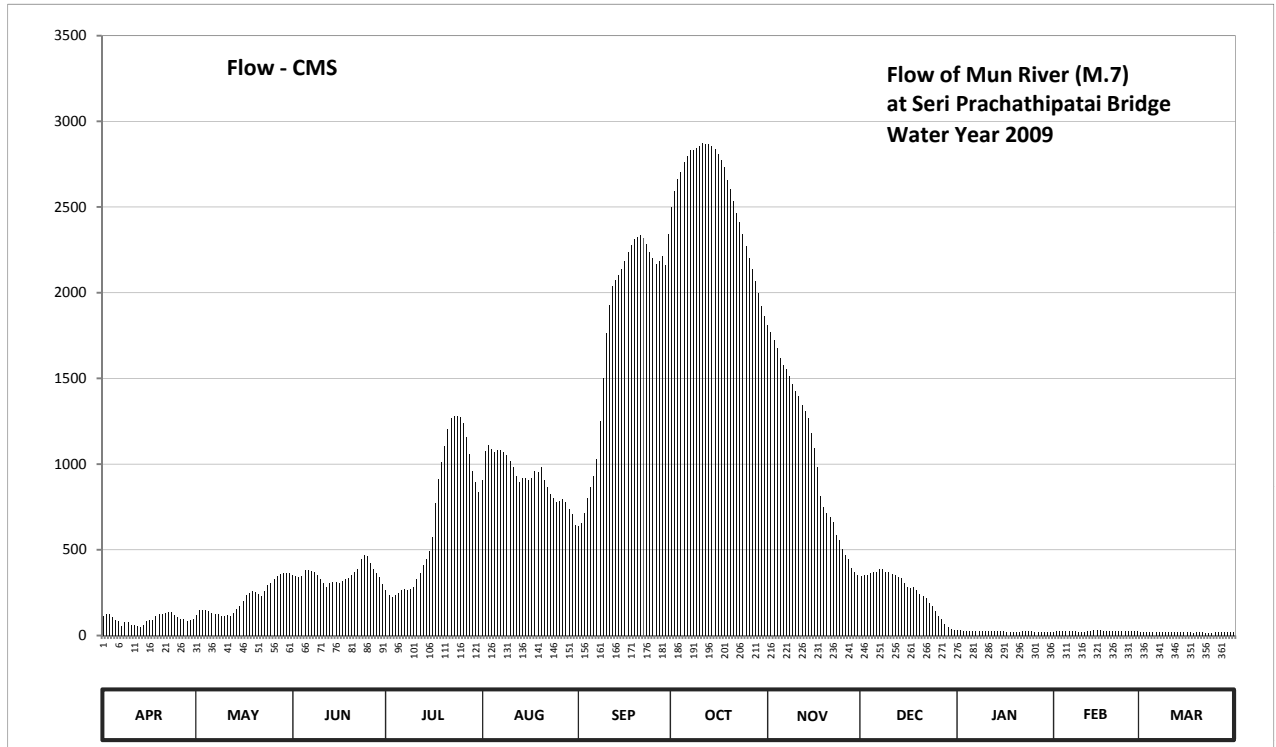
Lat 15 - 13 - 15 N Long 104 - 51 - 41 E

Location : on left bank at Seri Prachathipatai Bridge.

	Ban Chumchondee	Amphoe Mueang	Changwat Ubon Ratchathani
Drainage Area	107,345 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+105.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of 200 years Krung Ratanakosin	Elevation	+117.645 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 means of 5 readings		
Period of Available Gage Records	1944 to date		
Rating Operation			
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date		
Rated by Flot	-		
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +111.310 m.(MSL.), records are channel flow only.		
General Description	Records very good. Pak Mun barrage situated about 90 kilometers downstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.97	106.99	107.78	107.49	109.37	108.70	112.23	111.18	107.76	106.63	106.50	106.50	
2	107.02	107.10	107.76	107.39	109.77	108.74	112.36	111.12	107.77	106.60	106.51	106.47	
3	107.02	107.10	107.73	107.35	109.84	108.89	112.46	111.04	107.77	106.58	106.52	106.46	
4	106.95	107.09	107.76	107.38	109.79	109.11	112.52	110.96	107.82	106.57	106.54	106.45	
5	106.90	107.07	107.88	107.43	109.76	109.27	112.60	110.86	107.84	106.57	106.54	106.45	
6	106.87	107.03	107.88	107.49	109.78	109.43	112.65	110.78	107.83	106.57	106.53	106.46	
7	106.76	107.01	107.86	107.51	109.78	109.67	112.70	110.73	107.90	106.56	106.52	106.47	
8	106.85	107.02	107.84	107.48	109.76	110.12	112.70	110.65	107.89	106.56	106.52	106.45	
9	106.85	106.98	107.78	107.50	109.72	110.62	112.72	110.55	107.83	106.55	106.50	106.46	
10	106.78	106.98	107.70	107.54	109.64	111.11	112.74	110.47	107.84	106.53	106.49	106.47	
11	106.78	106.99	107.61	107.69	109.55	111.38	112.76	110.41	107.79	106.53	106.49	106.46	
12	106.76	106.98	107.55	107.81	109.43	111.56	112.75	110.31	107.78	106.54	106.51	106.45	
13	106.73	107.03	107.61	107.97	109.34	111.62	112.75	110.24	107.74	106.54	106.56	106.44	
14	106.79	107.11	107.64	108.09	109.39	111.66	112.74	110.15	107.72	106.53	106.64	106.43	
15	106.88	107.18	107.64	108.24	109.40	111.71	112.71	109.98	107.62	106.53	106.63	106.42	
16	106.89	107.27	107.63	108.52	109.36	111.78	112.67	109.80	107.55	106.52	106.59	106.42	
17	106.89	107.39	107.66	109.03	109.40	111.85	112.62	109.55	107.53	106.50	106.57	106.42	
18	106.97	107.43	107.70	109.38	109.50	111.91	112.56	109.14	107.55	106.50	106.55	106.41	
19	107.02	107.46	107.72	109.63	109.48	111.96	112.45	108.97	107.48	106.49	106.57	106.42	
20	107.02	107.45	107.78	109.83	109.55	111.98	112.38	108.89	107.41	106.49	106.57	106.43	
21	107.04	107.41	107.83	110.03	109.36	111.99	112.28	108.83	107.37	106.50	106.57	106.42	
22	107.05	107.37	107.90	110.16	109.26	111.97	112.18	108.75	107.32	106.51	106.57	106.41	
23	107.05	107.46	108.09	110.18	109.17	111.92	112.10	108.56	107.24	106.52	106.57	106.39	
24	106.99	107.59	108.17	110.18	109.10	111.85	112.00	108.46	107.18	106.52	106.56	106.41	
25	106.95	107.63	108.14	110.17	109.05	111.80	111.90	108.28	107.08	106.52	106.55	106.45	
26	106.93	107.69	108.02	110.10	109.06	111.75	111.80	108.16	106.97	106.50	106.54	106.47	
27	106.92	107.76	107.89	109.93	109.09	111.78	111.71	108.08	106.91	106.50	106.53	106.47	
28	106.88	107.80	107.81	109.74	109.05	111.82	111.61	107.91	106.81	106.50	106.52	106.47	
29	106.90	107.81	107.74	109.50	108.95	111.74	111.50	107.83	106.75	106.50		106.46	
30	106.92	107.82	107.60	109.34	108.87	112.00	111.37	107.78	106.68	106.50		106.45	
31		107.82		109.19	108.71		111.27		106.64	106.50		106.44	
Mean	106.91	107.32	107.79	108.69	109.40	111.06	112.32	109.61	107.46	106.53	106.55	106.44	
Max	107.05	107.82	108.17	110.18	109.84	112.00	112.76	111.18	107.90	106.63	106.64	106.50	112.76
Min	106.73	106.98	107.55	107.35	108.71	108.70	111.27	107.78	106.64	106.49	106.49	106.39	106.39
Annual Max Momentary Gage Height		112.77	m. (MSL.) ,				at 05.00 Hours , on Oct 11 , 2009						
Zero Gage at Bottom Elevation		105.00	m. (MSL.) ,			River Bed	100.6	M (MSL)					
Left Bank Elevation			119.72	m. (MSL.) ,									
Right Bank Elevation		111.30	m. (MSL.) ,			Drainage Area	107345	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	111.00	117.00	354.00	267.00	908.00	640.00	2501.00	1808.00	348.00	33.00	22.00	22.00	
2	126.00	150.00	348.00	237.00	1075.00	656.00	2592.00	1772.00	351.00	30.00	22.80	20.20	
3	126.00	150.00	339.00	225.00	1110.00	716.00	2662.00	1724.00	351.00	28.40	23.60	19.60	
4	105.00	147.00	348.00	234.00	1085.00	804.00	2704.00	1676.00	366.00	27.60	25.20	19.00	
5	90.00	141.00	384.00	249.00	1070.00	868.00	2760.00	1620.00	372.00	27.60	25.20	19.00	
6	82.50	129.00	384.00	267.00	1080.00	932.00	2795.00	1580.00	369.00	27.60	24.40	19.60	
7	55.00	123.00	378.00	273.00	1080.00	1028.00	2830.00	1555.00	390.00	26.80	23.60	20.20	
8	77.50	126.00	372.00	264.00	1070.00	1250.00	2830.00	1515.00	387.00	26.80	23.60	19.00	
9	77.50	114.00	354.00	270.00	1050.00	1500.00	2844.00	1465.00	369.00	26.00	22.00	19.60	
10	60.00	114.00	330.00	282.00	1016.00	1766.00	2858.00	1425.00	372.00	24.40	21.40	20.20	
11	60.00	117.00	303.00	327.00	980.00	1928.00	2872.00	1395.00	357.00	24.40	21.40	19.60	
12	55.00	114.00	285.00	363.00	932.00	2036.00	2865.00	1345.00	354.00	25.20	22.80	19.00	
13	47.50	129.00	303.00	411.00	896.00	2074.00	2865.00	1310.00	342.00	25.20	26.80	18.40	
14	62.50	153.00	312.00	447.00	916.00	2102.00	2858.00	1265.00	336.00	24.40	34.00	17.80	
15	85.00	174.00	312.00	492.00	920.00	2137.00	2837.00	1180.00	306.00	24.40	33.00	17.20	
16	87.50	201.00	309.00	576.00	904.00	2186.00	2809.00	1090.00	285.00	23.60	29.20	17.20	
17	87.50	237.00	318.00	772.00	920.00	2235.00	2774.00	980.00	279.00	22.00	27.60	17.20	
18	111.00	249.00	330.00	912.00	960.00	2277.00	2732.00	816.00	285.00	22.00	26.00	16.60	
19	126.00	258.00	336.00	1012.00	952.00	2312.00	2655.00	748.00	264.00	21.40	27.60	17.20	
20	126.00	255.00	354.00	1105.00	980.00	2326.00	2606.00	716.00	243.00	21.40	27.60	17.80	
21	132.00	243.00	369.00	1205.00	904.00	2333.00	2536.00	692.00	231.00	22.00	27.60	17.20	
22	135.00	231.00	390.00	1270.00	864.00	2319.00	2466.00	660.00	216.00	22.80	27.60	16.60	
23	135.00	258.00	447.00	1280.00	828.00	2284.00	2410.00	588.00	192.00	23.60	27.60	15.60	
24	117.00	297.00	471.00	1280.00	800.00	2235.00	2340.00	558.00	174.00	23.60	26.80	16.60	
25	105.00	309.00	462.00	1275.00	780.00	2200.00	2270.00	504.00	144.00	23.60	26.00	19.00	
26	99.00	327.00	426.00	1240.00	784.00	2165.00	2200.00	468.00	111.00	22.00	25.20	20.20	
27	96.00	348.00	387.00	1155.00	796.00	2186.00	2137.00	444.00	93.00	22.00	24.40	20.20	
28	85.00	360.00	363.00	1060.00	780.00	2214.00	2067.00	393.00	67.50	22.00	23.60	20.20	
29	90.00	363.00	342.00	960.00	740.00	2158.00	2000.00	369.00	52.50	22.00		19.60	
30	96.00	366.00	300.00	896.00	708.00	2340.00	1922.00	354.00	38.00	22.00		19.00	
31		366.00		836.00	644.00		1862.00		34.00	22.00		18.40	
Total	2848.50	6666.00	10710.00	21442.00	28532.00	54207.00	79459.00	32015.00	8079.00	759.80	718.60	579.00	246015.90 CMSDAY
Mean	94.90	215.00	357.00	691.70	920.40	1806.90	2563.20	1067.20	260.60	24.50	25.70	18.70	674.00 CMS
Max	135.00	366.00	471.00	1280.00	1110.00	2340.00	2872.00	1808.00	390.00	33.00	34.00	22.00	2872.00 CMS
Min	47.50	114.00	285.00	225.00	644.00	640.00	1862.00	354.00	34.00	21.40	21.40	15.60	15.60 CMS
Runoff	246.11	575.94	925.34	1852.59	2465.16	4683.48	6865.26	2766.10	698.03	65.65	62.90	50.03	21255.70 MCM
Momentary Peak	2879.00 CMS. at 112.77 m. (MSL.) at 05.00 Hours , on Oct 11 , 2009												
Runoff Yield	6.28 Liters/Second/Square KM.			Momentary Peak Yield				26.820 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Huai Samran at Mueang, Si Sa ket (M.9)

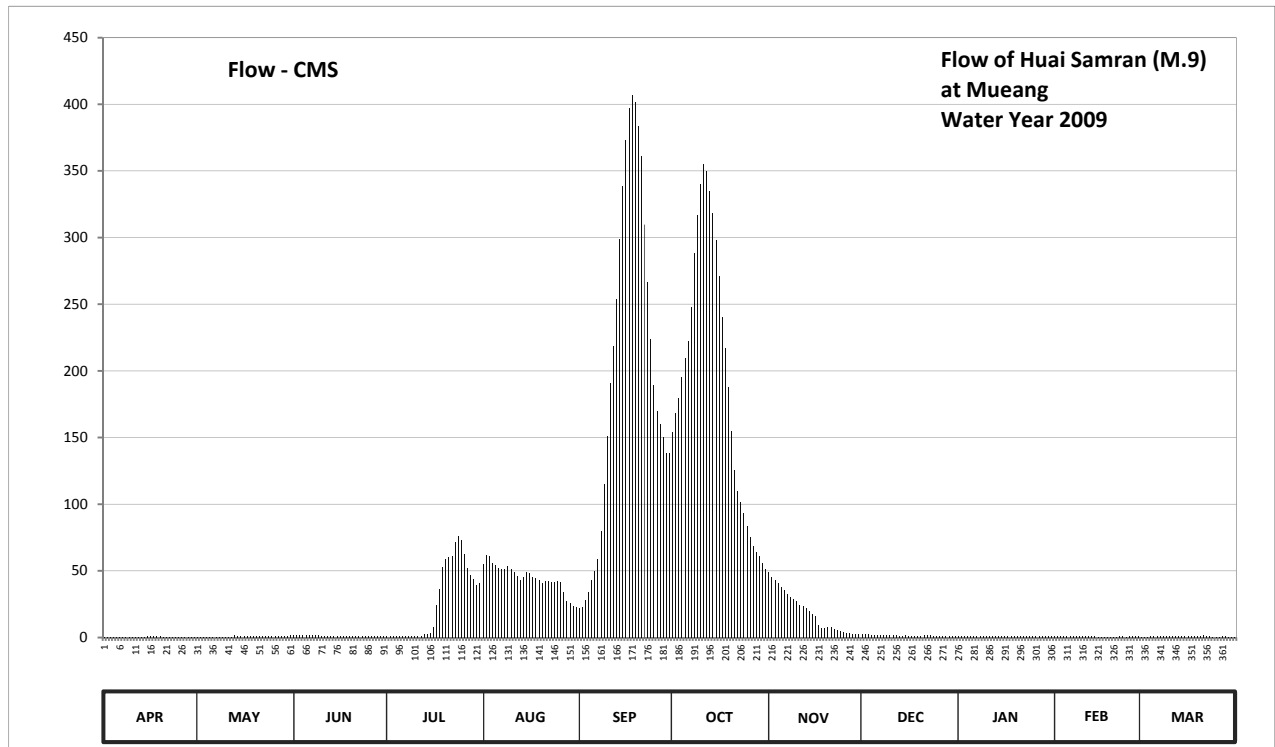
Lat 15 - 06 - 58 N Long 104 - 19 - 21 E

Location : on right bank at the bridge on Highway.

	Ban -	Amphoe Mueang	Changwat Si Sa Ket
Drainage Area	2,988 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+109.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the top staff gage.	Elevation	+123.920 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 means of 5 readings		
Period of Available Gage Records	1954 to date		
Rating Operation			
Period of Rating	1954, 1972 - 1981, 1987 to date		
Rated by Flot	-		
Rated by Current Meter	1954, 1972 - 1981, 1987 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. The Water Supply weir situated above gage site. Stage-discharge relation defined by 46 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.60	109.60	110.08	109.67	113.80	112.12	118.28	116.09	110.44	109.89	109.65	109.62	
2	109.60	109.59	109.97	109.79	114.06	112.16	118.44	115.93	110.38	109.88	109.65	109.62	
3	109.60	109.58	109.96	109.78	114.03	112.46	118.57	115.77	110.27	109.88	109.64	109.61	
4	109.60	109.58	110.10	109.77	113.83	112.81	118.73	115.65	110.20	109.88	109.65	109.64	
5	109.60	109.58	110.20	109.77	113.75	113.25	118.87	115.46	110.19	109.87	109.65	109.87	
6	109.60	109.58	110.22	109.77	113.65	113.55	118.99	115.28	110.18	109.85	109.65	109.68	
7	109.60	109.58	110.15	109.73	113.62	113.94	119.23	115.11	110.16	109.81	109.74	109.68	
8	109.60	109.57	110.13	109.65	113.62	114.77	119.58	114.97	110.16	109.76	109.77	109.68	
9	109.60	109.57	110.09	109.64	113.72	115.96	119.82	114.80	110.20	109.77	109.78	109.66	
10	109.60	109.60	109.93	109.88	113.64	116.90	120.01	114.63	110.23	109.85	109.66	109.66	
11	109.60	109.58	109.85	109.72	113.52	117.63	120.13	114.40	110.19	109.80	109.65	109.65	
12	109.60	109.58	109.81	109.74	113.40	118.06	120.09	114.33	110.13	109.76	109.65	109.64	
13	109.60	110.01	109.87	110.27	113.26	118.58	119.97	114.12	109.96	109.76	109.64	109.71	
14	109.62	109.81	109.85	110.39	113.35	119.23	119.83	113.91	109.96	109.75	109.64	109.68	
15	109.83	109.69	109.85	110.52	113.54	119.78	119.66	113.54	109.97	109.72	109.62	109.68	
16	109.79	109.65	109.72	111.05	113.50	120.24	119.44	113.33	109.92	109.70	109.62	109.68	
17	109.71	109.63	109.86	112.23	113.37	120.56	119.16	112.25	109.95	109.70	109.62	109.69	
18	109.66	109.63	109.74	112.93	113.32	120.69	118.94	111.80	109.95	109.66	109.62	109.75	
19	109.64	109.63	109.80	113.68	113.28	120.62	118.65	111.75	109.95	109.64	109.62	109.71	
20	109.60	109.77	109.78	113.95	113.17	120.38	118.29	112.01	109.95	109.64	109.62	109.76	
21	109.60	109.79	109.81	113.99	113.23	120.08	117.94	112.00	109.99	109.68	109.62	110.18	
22	109.60	109.82	109.72	114.03	113.23	119.76	117.72	111.61	110.06	109.69	109.67	109.78	
23	109.60	109.73	109.69	114.45	113.20	119.40	117.59	111.38	110.01	109.69	109.63	109.67	
24	109.60	109.70	109.80	114.63	113.18	119.00	117.46	111.15	109.96	109.75	109.62	109.61	
25	109.60	109.69	109.68	114.51	113.22	118.67	117.27	110.93	109.95	109.74	109.66	109.59	
26	109.60	109.80	109.73	114.10	113.20	118.46	117.05	110.79	109.95	109.70	109.68	109.59	
27	109.60	109.74	109.77	113.65	112.80	118.35	116.87	110.56	109.95	109.68	109.68	109.84	
28	109.59	109.66	109.87	113.43	112.45	118.24	116.72	110.42	109.94	109.65	109.66	109.78	
29	109.58	109.70	109.84	113.30	112.33	118.10	116.61	110.35	109.92	109.65		109.61	
30	109.60	109.70	109.70	113.06	112.21	118.10	116.41	110.43	109.90	109.65		109.57	
31		110.01		113.17	112.17		116.20		109.90	109.65		109.56	
Mean	109.62	109.68	109.89	111.75	113.31	117.40	118.47	113.16	110.06	109.75	109.66	109.69	
Max	109.83	110.01	110.22	114.63	114.06	120.69	120.13	116.09	110.44	109.89	109.78	110.18	120.69
Min	109.58	109.57	109.68	109.64	112.17	112.12	116.20	110.35	109.90	109.64	109.62	109.56	109.56
Annual Max Momentary Gage Height		120.71		m. (MSL.) ,			at 16.00 Hours , on Sep 18 , 2009						
Zero Gage at Bottom Elevation		109.00		m. (MSL.) ,		River Bed	108.14		m. (MSL)				
Left Bank Elevation		123.25		m. (MSL.) ,									
Right Bank Elevation		123.14		m. (MSL.) ,		Drainage Area	2988		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.70	1.76	0.84	55.40	22.32	153.80	48.82	2.65	1.32	0.80	0.74	
2	0.70	0.68	1.51	1.10	61.70	22.96	168.10	45.67	2.48	1.30	0.80	0.74	
3	0.70	0.66	1.49	1.08	60.95	27.92	179.80	42.85	2.20	1.30	0.78	0.72	
4	0.70	0.66	1.80	1.06	56.12	34.19	195.50	40.93	2.03	1.30	0.80	0.78	
5	0.70	0.66	2.03	1.06	54.20	42.80	209.85	37.93	2.01	1.27	0.80	1.27	
6	0.70	0.66	2.08	1.06	51.85	49.55	222.45	35.23	1.98	1.23	0.80	0.86	
7	0.70	0.66	1.92	0.97	51.16	58.76	247.80	32.68	1.93	1.14	0.99	0.86	
8	0.70	0.65	1.87	0.80	51.16	79.79	288.10	30.70	1.93	1.03	1.05	0.86	
9	0.70	0.65	1.78	0.78	53.48	115.18	316.90	28.83	2.03	1.05	1.08	0.82	
10	0.70	0.70	1.42	1.31	51.62	151.10	339.80	26.96	2.11	1.23	0.82	0.82	
11	0.70	0.66	1.24	0.95	48.86	190.45	355.40	24.58	2.01	1.12	0.80	0.80	
12	0.70	0.66	1.15	0.99	46.10	218.58	350.20	23.92	1.85	1.03	0.80	0.78	
13	0.70	1.60	1.28	2.20	43.00	253.94	334.90	21.92	1.47	1.03	0.78	0.92	
14	0.74	1.15	1.24	2.50	44.95	298.60	318.10	20.11	1.47	1.01	0.78	0.86	
15	1.19	0.88	1.24	3.13	49.32	338.50	297.70	17.38	1.49	0.94	0.74	0.86	
16	1.10	0.80	0.95	8.08	48.40	373.00	271.30	15.82	1.38	0.90	0.74	0.86	
17	0.92	0.76	1.26	24.08	45.41	397.00	240.30	9.00	1.45	0.90	0.74	0.88	
18	0.82	0.76	0.99	36.47	44.26	406.75	217.20	7.07	1.45	0.82	0.74	1.01	
19	0.78	0.76	1.13	52.54	43.40	401.50	187.50	6.87	1.45	0.78	0.74	0.92	
20	0.70	1.06	1.08	59.00	41.20	383.50	154.65	7.97	1.45	0.78	0.74	1.03	
21	0.70	1.10	1.15	59.96	42.40	361.00	125.50	7.93	1.54	0.86	0.74	1.98	
22	0.70	1.17	0.95	60.95	42.40	309.70	109.80	6.31	1.69	0.88	0.84	1.08	
23	0.70	0.97	0.88	71.45	41.80	266.50	101.40	5.45	1.58	0.88	0.76	0.84	
24	0.70	0.90	1.13	76.01	41.40	223.50	93.60	4.72	1.47	1.01	0.74	0.72	
25	0.70	0.88	0.86	72.95	42.20	189.50	83.79	4.07	1.45	0.99	0.82	0.68	
26	0.70	1.13	0.97	62.70	41.80	169.90	75.24	3.66	1.45	0.90	0.86	0.68	
27	0.70	0.99	1.06	51.85	34.00	160.00	68.94	2.99	1.45	0.86	0.86	1.21	
28	0.68	0.82	1.28	46.79	27.75	150.40	64.09	2.59	1.43	0.80	0.82	1.08	
29	0.66	0.90	1.22	43.80	25.71	138.50	60.94	2.40	1.38	0.80		0.72	
30	0.70	0.90	0.90	39.00	23.76	138.50	55.76	2.62	1.34	0.80		0.65	
31		1.60		41.20	23.12		51.13		1.34	0.80		0.63	
Total	22.29	27.13	39.62	826.66	1388.88	5973.89	5939.54	567.98	52.94	31.06	22.76	27.66	14920.41 CMSDAY
Mean	0.74	0.88	1.32	26.67	44.80	199.13	191.60	18.93	1.71	1.00	0.81	0.89	40.88 CMS
Max	1.19	1.60	2.08	76.01	61.70	406.75	355.40	48.82	2.65	1.32	1.08	1.98	406.75 CMS
Min	0.66	0.65	0.86	0.78	23.12	22.32	51.13	2.40	1.34	0.78	0.74	0.63	0.63 CMS
Runoff	1.93	2.34	3.42	71.42	120.00	516.14	513.18	49.07	4.57	2.68	1.97	2.39	1289.12 MCM
Momentary Peak	408.42 CMS. at 120.71 m. (MSL.) at 16.00 Hours , on Sep 18 , 2009												
Runoff Yield	13.68 Liters/Second/Square KM.			Momentary Peak Yield				72.931 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Mun River at Ban Kaeng Sa Phu, Ubon Ratchathani (M.11B)

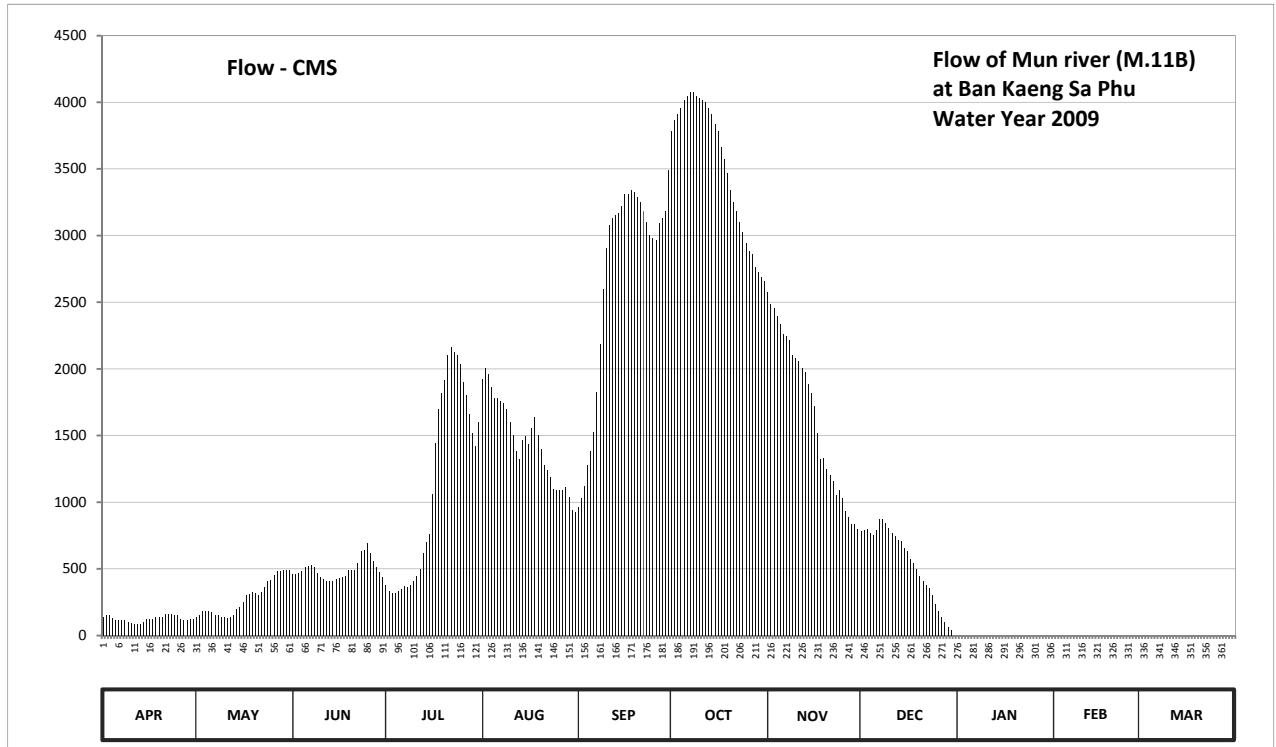
Lat 15 - 15 - 11 N Long 105 - 13 - 53 E

Location : on right bank at the bridge on road.

	Ban Kaeng Sa Phu	Amphoe Phibul Mangsahan	Changwat Ubon Ratchathani
Drainage Area	- sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+104.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.		Elevation +112.078 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.72	106.71	107.23	107.11	108.67	107.80	110.17	109.21	107.60	106.26	106.31	106.36	
2	106.75	106.74	107.23	107.05	108.74	107.87	110.23	109.14	107.61	106.29	106.31	106.34	
3	106.75	106.80	107.24	107.03	108.70	107.96	110.26	109.11	107.62	106.30	106.31	106.32	
4	106.70	106.81	107.26	107.03	108.62	108.12	110.29	109.06	107.59	106.30	106.31	106.31	
5	106.65	106.80	107.30	107.05	108.55	108.22	110.33	109.01	107.57	106.31	106.31	106.30	
6	106.66	106.79	107.31	107.07	108.55	108.34	110.35	108.95	107.61	106.32	106.31	106.28	
7	106.66	106.75	107.32	107.10	108.53	108.59	110.37	108.94	107.70	106.32	106.31	106.27	
8	106.64	106.74	107.30	107.09	108.52	108.89	110.37	108.91	107.70	106.32	106.31	106.26	
9	106.60	106.71	107.24	107.11	108.48	109.23	110.35	108.82	107.67	106.32	106.31	106.24	
10	106.57	106.71	107.20	107.16	108.40	109.49	110.34	108.80	107.63	106.32	106.31	106.24	
11	106.56	106.70	107.18	107.21	108.32	109.63	110.33	108.78	107.59	106.31	106.31	106.23	
12	106.56	106.71	107.16	107.28	108.22	109.67	110.32	108.74	107.56	106.31	106.35	106.23	
13	106.56	106.74	107.16	107.42	108.16	109.69	110.29	108.71	107.53	106.31	106.42	106.22	
14	106.61	106.83	107.16	107.51	108.29	109.70	110.26	108.64	107.52	106.30	106.44	106.22	
15	106.69	106.87	107.18	107.58	108.31	109.74	110.21	108.58	107.46	106.30	106.42	106.21	
16	106.67	106.93	107.19	107.90	108.26	109.81	110.17	108.50	107.44	106.30	106.42	106.21	
17	106.69	107.01	107.20	108.27	108.36	109.81	110.08	108.33	107.37	106.30	106.40	106.21	
18	106.71	107.02	107.21	108.48	108.43	109.83	110.01	108.16	107.34	106.30	106.39	106.21	
19	106.71	107.04	107.27	108.58	108.32	109.82	109.93	108.17	107.28	106.30	106.38	106.21	
20	106.72	107.03	107.27	108.66	108.23	109.79	109.83	108.09	107.21	106.31	106.38	106.22	
21	106.76	107.01	107.27	108.82	108.12	109.76	109.76	108.04	107.16	106.31	106.37	106.22	
22	106.76	107.04	107.34	108.87	108.08	109.71	109.71	108.00	107.11	106.31	106.37	106.23	
23	106.76	107.09	107.44	108.84	108.03	109.65	109.65	107.89	107.08	106.32	106.36	106.23	
24	106.75	107.16	107.45	108.82	107.94	109.57	109.59	107.93	107.00	106.33	106.36	106.24	
25	106.74	107.17	107.50	108.76	107.93	109.55	109.52	107.87	106.91	106.33	106.36	106.24	
26	106.68	107.22	107.42	108.65	107.93	109.54	109.47	107.77	106.81	106.33	106.36	106.25	
27	106.66	107.26	107.35	108.57	107.93	109.64	109.45	107.72	106.71	106.33	106.36	106.26	
28	106.66	107.26	107.30	108.45	107.95	109.67	109.37	107.66	106.60	106.32	106.36	106.26	
29	106.68	107.27	107.25	108.33	107.88	109.71	109.34	107.66	106.49	106.32		106.26	
30	106.69	107.27	107.20	108.25	107.78	109.95	109.31	107.62	106.38	106.32		106.26	
31		107.27		108.40	107.76		109.28		106.27	106.32		106.26	
Mean	106.68	106.95	107.27	107.89	108.26	109.29	109.97	108.43	107.26	106.31	106.35	106.25	
Max	106.76	107.27	107.50	108.87	108.74	109.95	110.37	109.21	107.70	106.33	106.44	106.36	110.37
Min	106.56	106.70	107.16	107.03	107.76	107.80	109.28	107.62	106.27	106.26	106.31	106.21	106.21
Annual Max Momentary Gage Height		110.37		m. (MSL.) ,			at 09.00 Hours , on Oct 7, 2009						
Zero Gage at Bottom Elevation		104.00		m. (MSL.) ,		River Bed	104.15	m. (MSL)					
Left Bank Elevation		111.92		m. (MSL.) ,									
Right Bank Elevation		112.30		m. (MSL.) ,		Drainage Area	-	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.00	135.00	461.00	377.00	1924.00	960.00	3781.00	2572.00	780.00	0.00	0.00	0.00	
2	155.00	150.00	461.00	335.00	2008.00	1030.00	3865.00	2488.00	789.00	0.00	0.00	0.00	
3	155.00	180.00	468.00	321.00	1960.00	1120.00	3910.00	2452.00	798.00	0.00	0.00	0.00	
4	130.00	185.00	482.00	321.00	1864.00	1280.00	3955.00	2392.00	771.00	0.00	0.00	0.00	
5	115.00	180.00	510.00	335.00	1780.00	1384.00	4015.00	2332.00	753.00	0.00	0.00	0.00	
6	118.00	175.00	519.00	349.00	1780.00	1528.00	4045.00	2260.00	789.00	0.00	0.00	0.00	
7	118.00	155.00	528.00	370.00	1756.00	1828.00	4075.00	2248.00	870.00	0.00	0.00	0.00	
8	112.00	150.00	510.00	363.00	1744.00	2188.00	4075.00	2212.00	870.00	0.00	0.00	0.00	
9	100.00	135.00	468.00	377.00	1696.00	2596.00	4045.00	2104.00	843.00	0.00	0.00	0.00	
10	91.00	135.00	440.00	412.00	1600.00	2908.00	4030.00	2080.00	807.00	0.00	0.00	0.00	
11	88.00	130.00	426.00	447.00	1504.00	3079.00	4015.00	2056.00	771.00	0.00	0.00	0.00	
12	88.00	135.00	412.00	496.00	1384.00	3131.00	4000.00	2008.00	744.00	0.00	0.00	0.00	
13	88.00	150.00	412.00	618.00	1320.00	3157.00	3955.00	1972.00	717.00	0.00	0.00	0.00	
14	103.00	195.00	412.00	699.00	1468.00	3170.00	3910.00	1888.00	708.00	0.00	0.00	0.00	
15	127.00	215.00	426.00	762.00	1492.00	3222.00	3835.00	1816.00	654.00	0.00	0.00	0.00	
16	121.00	251.00	433.00	1060.00	1432.00	3313.00	3781.00	1720.00	636.00	0.00	0.00	0.00	
17	127.00	307.00	440.00	1444.00	1552.00	3313.00	3664.00	1516.00	573.00	0.00	0.00	0.00	
18	135.00	314.00	447.00	1696.00	1636.00	3339.00	3573.00	1320.00	546.00	0.00	0.00	0.00	
19	135.00	328.00	489.00	1816.00	1504.00	3326.00	3469.00	1330.00	496.00	0.00	0.00	0.00	
20	140.00	321.00	489.00	1912.00	1396.00	3287.00	3339.00	1250.00	447.00	0.00	0.00	0.00	
21	160.00	307.00	489.00	2104.00	1280.00	3248.00	3248.00	1200.00	412.00	0.00	0.00	0.00	
22	160.00	328.00	546.00	2164.00	1240.00	3183.00	3183.00	1160.00	377.00	0.00	0.00	0.00	
23	160.00	363.00	636.00	2128.00	1190.00	3105.00	3105.00	1050.00	356.00	0.00	0.00	0.00	
24	155.00	412.00	645.00	2104.00	1100.00	3004.00	3028.00	1090.00	300.00	0.00	0.00	0.00	
25	150.00	419.00	690.00	2032.00	1090.00	2980.00	2944.00	1030.00	237.00	0.00	0.00	0.00	
26	124.00	454.00	618.00	1900.00	1090.00	2968.00	2884.00	933.00	185.00	0.00	0.00	0.00	
27	118.00	482.00	555.00	1804.00	1090.00	3092.00	2860.00	888.00	135.00	0.00	0.00	0.00	
28	118.00	482.00	510.00	1660.00	1110.00	3131.00	2764.00	834.00	100.00	0.00	0.00	0.00	
29	124.00	489.00	475.00	1516.00	1040.00	3183.00	2728.00	834.00	67.00	0.00	0.00	0.00	
30	127.00	489.00	440.00	1420.00	942.00	3495.00	2692.00	798.00	38.00	0.00	0.00	0.00	
31	489.00			1600.00	924.00		2656.00		0.00	0.00	0.00	0.00	
Total	3782.00	8640.00	14837.00	34942.00	44896.00	80548.00	109429.00	49833.00	16569.00	0.00	0.00	0.00	363476.00 CMSDAY
Mean	126.10	278.70	494.60	1127.20	1448.30	2684.90	3530.00	1661.10	534.50	0.00	0.00	0.00	995.80 CMS
Max	160.00	489.00	690.00	2164.00	2008.00	3495.00	4075.00	2572.00	870.00	0.00	0.00	0.00	4075.00 CMS
Min	88.00	130.00	412.00	321.00	924.00	960.00	2656.00	798.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	326.76	746.5	1281.92	3018.99	3879.01	6959.35	9454.67	4305.57	1431.56	0.00	0.00	0.00	31404.33 MCM
Momentary Peak	4075.01 CMS. at 110.37 m. (MSL.) at 09.00 Hours , on Oct 7 , 2009												
Runoff Yield	***** Liters/Second/Square KM.						Momentary Peak Yield						***** Liters/Second/Square KM.

WATER YEAR : 2009

MUN RIVER BASIN

Lam Chi at Ban Kho Kho, Surin (M.26)

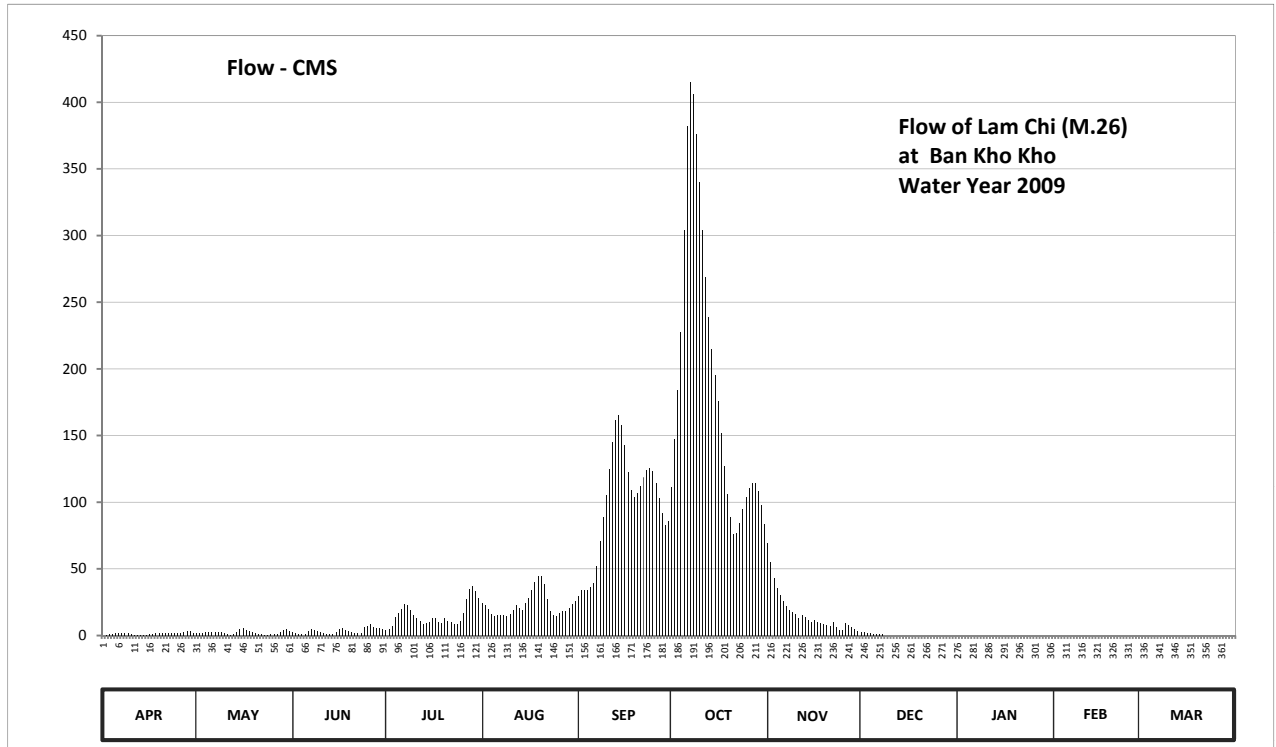
Lat 14 - 54 - 08 N Long 103 - 24 - 12 E

Location : on left bank at railway bridge.

	Ban	Kho Kho	Amphoe	Mueang	Changwat	Surin
Drainage Area	3,058	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+127.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+135.010 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1967 - 1968, 1978 to date					
Rated by Flot	-					
Rated by Current Meter	1967 - 1968, 1978 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Flow effected by Mueang ling weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 42 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	127.49	127.95	128.07	128.27	129.76	130.08	133.92	132.24	128.13	128.17	128.18	128.14	
2	127.72	127.99	127.96	128.35	129.67	130.33	135.02	131.52	128.06	128.22	128.14	128.08	
3	127.78	128.03	127.87	128.51	129.47	130.35	135.71	130.87	127.97	128.27	128.12	128.08	
4	127.85	128.06	127.81	129.07	129.22	130.34	136.18	130.42	127.92	128.33	128.08	128.08	
5	127.90	128.07	127.84	129.26	129.13	130.46	136.70	130.12	127.87	128.36	128.05	128.07	
6	127.93	128.04	128.15	129.48	129.17	130.64	137.10	129.85	127.83	128.40	128.02	128.05	
7	127.96	128.07	128.30	129.71	129.19	131.35	137.25	129.62	127.81	128.42	128.00	128.03	
8	127.98	128.08	128.28	129.68	129.15	132.31	137.21	129.45	127.81	128.44	127.98	128.01	
9	127.96	128.07	128.16	129.42	129.14	133.06	137.07	129.30	127.94	128.44	127.96	128.00	
10	127.86	127.96	128.06	129.20	129.22	133.70	136.89	129.22	128.13	128.43	127.96	127.99	
11	127.73	127.84	128.02	129.05	129.41	134.36	136.70	129.02	128.31	128.41	127.96	127.96	
12	127.59	127.71	127.85	128.82	129.68	134.95	136.49	129.16	128.47	128.35	128.01	127.94	
13	127.57	127.75	127.74	128.67	129.54	135.34	136.27	129.08	128.48	128.31	128.06	127.94	
14	127.55	128.13	127.77	128.74	129.41	135.43	136.07	128.93	128.40	128.29	128.08	127.94	
15	127.67	128.35	128.08	128.81	129.75	135.26	135.86	128.77	128.36	128.28	128.09	127.93	
16	127.80	128.39	128.32	129.03	129.97	134.89	135.60	128.89	128.32	128.27	128.07	127.91	
17	127.86	128.27	128.37	129.03	130.34	134.29	135.13	128.80	128.37	128.24	128.05	127.90	
18	127.94	128.18	128.26	128.81	130.71	133.84	134.44	128.71	128.42	128.22	128.04	127.86	
19	127.98	128.10	128.17	128.74	130.96	133.64	133.72	128.64	128.47	128.20	128.03	127.84	
20	127.98	127.95	128.09	129.02	130.97	133.75	133.06	128.58	128.45	128.20	128.02	127.83	
21	127.98	127.84	128.01	128.83	130.60	133.96	132.55	128.55	128.40	128.20	128.04	127.78	
22	127.97	127.76	127.92	128.76	129.96	134.17	132.59	128.79	128.37	128.22	128.06	127.76	
23	127.94	127.67	128.01	128.65	129.35	134.35	132.88	128.49	128.31	128.24	128.10	127.77	
24	127.93	127.65	128.50	128.63	129.16	134.39	133.30	128.27	128.25	128.26	128.09	127.78	
25	127.92	127.85	128.54	128.83	129.14	134.32	133.64	128.27	128.21	128.26	128.09	127.76	
26	127.95	127.77	128.66	129.28	129.29	134.03	133.89	128.72	128.18	128.26	128.11	127.72	
27	128.09	127.87	128.48	129.92	129.38	133.59	134.03	128.60	128.08	128.26	128.14	127.70	
28	128.21	128.07	128.40	130.40	129.39	133.17	134.02	128.45	128.04	128.28	128.15	127.70	
29	128.15	128.23	128.38	130.50	129.53	132.82	133.81	128.32	128.00	128.28		127.70	
30	128.03	128.32	128.30	130.28	129.72	132.94	133.41	128.22	128.06	128.24		127.69	
31		128.21		129.97	129.84		132.85		128.15	128.21		127.67	
Mean	127.88	128.01	128.15	129.15	129.65	133.20	134.95	129.20	128.18	128.29	128.06	127.89	
Max	128.21	128.39	128.66	130.50	130.97	135.43	137.25	132.24	128.48	128.44	128.18	128.14	137.25
Min	127.49	127.65	127.74	128.27	129.13	130.08	132.55	128.22	127.81	128.17	127.96	127.67	127.49
Annual Max Momentary Gage Height	137.26		m. (MSL.) ,				at 07.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	127.00		m. (MSL.) ,			River Bed	127.03		m. (MSL)				
Left Bank Elevation	140.40		m. (MSL.) ,										
Right Bank Elevation	140.10		m. (MSL.) ,			Drainage Area	3058		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.75	2.35	4.20	24.36	29.76	111.32	69.44	2.80	0.00	0.00	0.00	
2	0.68	1.95	1.80	5.00	22.92	34.01	147.26	55.28	2.30	0.00	0.00	0.00	
3	0.92	2.15	1.35	6.82	19.75	34.35	183.70	43.19	1.85	0.00	0.00	0.00	
4	1.25	2.30	1.05	13.75	16.00	34.18	227.60	35.54	1.60	0.00	0.00	0.00	
5	1.50	2.35	1.20	16.60	14.65	36.22	304.00	30.44	1.35	0.00	0.00	0.00	
6	1.65	2.20	3.00	19.90	15.25	39.28	382.00	25.85	1.15	0.00	0.00	0.00	
7	1.80	2.35	4.50	23.56	15.55	52.05	415.00	22.12	1.05	0.00	0.00	0.00	
8	1.90	2.40	4.30	23.08	14.95	70.91	406.20	19.45	1.05	0.00	0.00	0.00	
9	1.80	2.35	3.10	19.00	14.80	88.96	376.00	17.20	0.00	0.00	0.00	0.00	
10	1.30	1.80	2.30	15.70	16.00	105.60	340.00	16.00	0.00	0.00	0.00	0.00	
11	0.72	1.20	2.10	13.45	18.85	124.56	304.00	13.00	0.00	0.00	0.00	0.00	
12	0.28	0.64	1.25	10.54	23.08	144.65	268.60	15.10	0.00	0.00	0.00	0.00	
13	0.24	0.80	0.76	8.74	20.84	161.18	238.40	13.90	0.00	0.00	0.00	0.00	
14	0.20	2.80	0.88	9.58	18.85	165.50	215.00	11.86	0.00	0.00	0.00	0.00	
15	0.51	5.00	2.40	10.42	24.20	157.58	195.40	9.94	0.00	0.00	0.00	0.00	
16	1.00	5.40	4.70	13.15	27.89	142.55	176.00	11.38	0.00	0.00	0.00	0.00	
17	1.30	4.20	5.20	13.15	34.18	122.39	151.99	10.30	0.00	0.00	0.00	0.00	
18	1.70	3.30	4.10	10.42	40.47	109.24	127.04	9.22	0.00	0.00	0.00	0.00	
19	1.90	2.50	3.20	9.58	44.72	104.04	106.12	8.38	0.00	0.00	0.00	0.00	
20	1.90	1.75	2.45	13.00	44.89	106.90	88.96	7.66	0.00	0.00	0.00	0.00	
21	1.90	1.20	2.05	10.66	38.60	112.36	76.15	7.30	0.00	0.00	0.00	0.00	
22	1.85	0.84	1.60	9.82	27.72	118.67	77.15	10.18	0.00	0.00	0.00	0.00	
23	1.70	0.51	2.05	8.50	17.95	124.25	84.40	6.58	0.00	0.00	0.00	0.00	
24	1.65	0.45	6.70	8.26	15.10	125.49	95.20	4.20	0.00	0.00	0.00	0.00	
25	1.60	1.25	7.18	10.66	14.80	123.32	104.04	4.20	0.00	0.00	0.00	0.00	
26	1.75	0.88	8.62	16.90	17.05	114.33	110.54	9.34	0.00	0.00	0.00	0.00	
27	2.45	1.35	6.46	27.04	18.40	102.74	114.33	7.90	0.00	0.00	0.00	0.00	
28	3.60	2.35	5.50	35.20	18.55	91.82	114.02	6.10	0.00	0.00	0.00	0.00	
29	3.00	3.80	5.30	36.90	20.68	82.90	108.46	4.70	0.00	0.00	0.00	0.00	
30	2.15	4.70	4.50	33.16	23.72	85.90	98.06	3.70	0.00	0.00	0.00	0.00	
31		3.60		27.89	25.68		83.65		0.00	0.00		0.00	
Total	44.20	70.12	101.95	484.63	710.45	2945.69	5830.59	509.45	13.15	0.00	0.00	0.00	10710.23 CMSDAY
Mean	1.47	2.26	3.40	15.63	22.92	98.19	188.08	16.98	0.42	0.00	0.00	0.00	29.34 CMS
Max	3.60	5.40	8.62	36.90	44.89	165.50	415.00	69.44	2.80	0.00	0.00	0.00	415.00 CMS
Min	0.00	0.45	0.76	4.20	14.65	29.76	76.15	3.70	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.82	6.06	8.81	41.87	61.38	254.51	503.76	44.02	1.14	0.00	0.00	0.00	925.36 MCM
Momentary Peak	417.20 CMS. at 137.26 m. (MSL.) at 07.00 Hours , on Oct 7 , 2009												
Runoff Yield	9.60 Liters/Second/Square KM.			Momentary Peak Yield			136.429 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

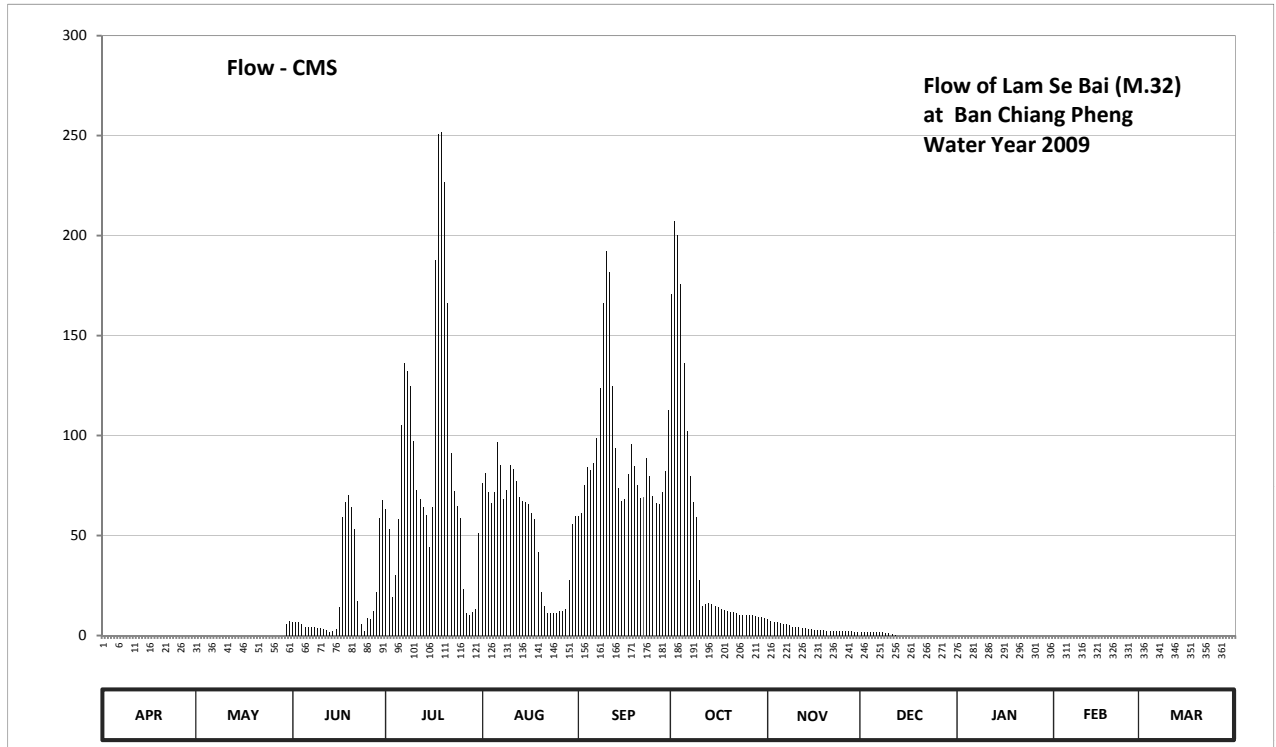
Lat 15 - 50 - 18 N Long 104 - 27 - 35 E

Location : on right bank at Phawaphutanon bridge.

	Ban Chiang Pheng	Amphoe Pa Tiu	Changwat Yasothon
Drainage Area	1,646 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+120.290 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the automatic gage building.	Elevation	+127.626 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1968 - 1974, 1997 to date		
Rating Operation			
Period of Rating	1968 - 1974, 1997 to date		
Rated by Flot	-		
Rated by Current Meter	1968 - 1974, 1997 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. The concrete weir situated about 3 kilometers downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	120.68	120.44	123.78	124.44	124.78	124.28	125.89	123.80	123.69	123.05	122.15	121.12	
2	120.70	120.45	123.78	124.18	124.86	124.36	126.18	123.79	123.69	123.04	122.11	121.07	
3	120.71	120.47	123.78	123.99	124.69	124.76	126.13	123.78	123.69	123.03	122.07	121.03	
4	120.68	120.51	123.76	124.07	124.54	124.90	125.93	123.78	123.68	123.01	122.03	121.01	
5	120.65	120.53	123.74	124.20	124.69	124.88	125.57	123.77	123.68	122.97	122.00	120.98	
6	120.61	120.54	123.74	125.20	125.08	124.93	125.16	123.76	123.68	122.93	121.98	120.95	
7	120.58	120.55	123.74	125.57	124.92	125.11	124.84	123.76	123.67	122.88	121.97	120.93	
8	120.55	120.54	123.74	125.53	124.61	125.44	124.56	123.75	123.67	122.85	121.94	120.88	
9	120.54	120.53	123.73	125.45	124.71	125.85	124.27	123.74	123.64	122.82	121.91	120.70	
10	120.52	120.54	123.73	125.09	124.92	126.07	124.05	123.74	123.60	122.79	121.88	120.54	
11	120.51	120.61	123.72	124.72	124.89	125.98	123.91	123.74	123.56	122.76	121.85	120.45	
12	120.50	120.64	123.71	124.60	124.80	125.45	123.93	123.73	123.52	122.73	121.82	120.39	
13	120.49	120.61	123.69	124.47	124.63	125.04	123.94	123.73	123.49	122.71	121.81	120.37	
14	120.49	120.57	123.70	124.32	124.58	124.73	123.93	123.72	123.46	122.67	121.78	120.35	
15	120.48	120.55	123.72	124.14	124.56	124.58	123.91	123.72	123.43	122.63	121.77	120.34	
16	120.47	120.53	123.90	124.47	124.52	124.60	123.90	123.71	123.41	122.61	121.74	120.32	
17	120.46	120.52	124.27	126.03	124.36	124.85	123.89	123.71	123.38	122.59	121.71	120.30	
18	120.46	120.52	124.56	126.49	124.22	125.07	123.88	123.71	123.35	122.56	121.68	120.27	
19	120.45	120.52	124.66	126.50	124.13	124.91	123.87	123.71	123.34	122.53	121.64	120.23	
20	120.44	120.51	124.48	126.32	124.01	124.76	123.86	123.70	123.31	122.48	121.61	120.19	
21	120.43	120.50	124.18	125.85	123.91	124.62	123.86	123.70	123.29	122.44	121.57	120.14	
22	120.42	120.57	123.95	125.00	123.85	124.63	123.85	123.70	123.27	122.42	121.52	120.11	
23	120.42	120.60	123.76	124.70	123.85	124.97	123.84	123.70	123.25	122.41	121.48	120.08	
24	120.41	120.67	123.70	124.49	123.85	124.84	123.84	123.70	123.22	122.40	121.44	120.06	
25	120.41	120.92	123.81	124.23	123.85	124.64	123.84	123.70	123.19	122.38	121.39	120.04	
26	120.41	121.49	123.80	124.02	123.87	124.54	123.84	123.70	123.17	122.36	121.32	120.01	
27	120.42	122.14	123.87	123.85	123.87	124.53	123.84	123.70	123.15	122.32	121.11	119.98	
28	120.43	122.89	124.01	123.84	123.89	124.69	123.83	123.70	123.13	122.28	121.19	119.94	
29	120.43	123.49	124.25	123.86	124.05	124.87	123.82	123.69	123.11	122.25		119.91	
30	120.43	123.76	124.59	123.89	124.19	125.31	123.82	123.69	123.09	122.23		119.87	
31		123.79		124.17	124.29		123.81		123.07	122.18		119.83	
Mean	120.51	121.02	123.93	124.76	124.39	124.94	124.32	123.73	123.42	122.62	121.73	120.40	
Max	120.71	123.79	124.66	126.50	125.08	126.07	126.18	123.80	123.69	123.05	122.15	121.12	126.50
Min	120.41	120.44	123.69	123.84	123.85	124.28	123.81	123.69	123.07	122.18	121.11	119.83	119.83
Annual Max Momentary Gage Height	129.53		m. (MSL.) ,			at 01.00 Hours , on Jul 19 , 2009							
Zero Gage at Bottom Elevation	120.29		m. (MSL.) ,			River Bed	118.88	m. (MSL)					
Left Bank Elevation		130.58		m. (MSL.) ,									
Right Bank Elevation		130.55		m. (MSL.) ,		Drainage Area	1646	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.80	63.20	76.00	59.60	170.80	8.00	1.90	0.00	0.00	0.00	
2	0.00	0.00	6.80	53.40	81.20	61.20	207.20	7.40	1.90	0.00	0.00	0.00	
3	0.00	0.00	6.80	19.40	71.60	75.00	200.20	6.80	1.90	0.00	0.00	0.00	
4	0.00	0.00	5.60	30.50	66.20	84.00	175.60	6.80	1.80	0.00	0.00	0.00	
5	0.00	0.00	4.40	58.00	71.60	82.60	136.00	6.20	1.80	0.00	0.00	0.00	
6	0.00	0.00	4.40	105.00	96.60	86.10	102.20	5.60	1.80	0.00	0.00	0.00	
7	0.00	0.00	4.40	136.00	85.40	98.70	79.80	5.60	1.70	0.00	0.00	0.00	
8	0.00	0.00	4.40	132.00	68.40	123.60	66.80	5.00	1.70	0.00	0.00	0.00	
9	0.00	0.00	3.80	124.50	72.50	166.00	59.40	4.40	1.40	0.00	0.00	0.00	
10	0.00	0.00	3.80	97.30	85.40	192.40	27.50	4.40	1.00	0.00	0.00	0.00	
11	0.00	0.00	3.20	73.00	83.30	181.60	14.60	4.40	0.60	0.00	0.00	0.00	
12	0.00	0.00	2.60	68.00	77.00	124.50	15.80	3.80	0.20	0.00	0.00	0.00	
13	0.00	0.00	1.90	64.10	69.20	93.80	16.40	3.80	0.00	0.00	0.00	0.00	
14	0.00	0.00	2.00	60.40	67.40	73.50	15.80	3.20	0.00	0.00	0.00	0.00	
15	0.00	0.00	3.20	44.20	66.80	67.40	14.60	3.20	0.00	0.00	0.00	0.00	
16	0.00	0.00	14.00	64.10	65.60	68.00	14.00	2.60	0.00	0.00	0.00	0.00	
17	0.00	0.00	59.40	187.60	61.20	80.50	13.40	2.60	0.00	0.00	0.00	0.00	
18	0.00	0.00	66.80	250.60	58.40	95.90	12.80	2.60	0.00	0.00	0.00	0.00	
19	0.00	0.00	70.40	252.00	41.90	84.70	12.20	2.60	0.00	0.00	0.00	0.00	
20	0.00	0.00	64.40	226.80	21.50	75.00	11.60	2.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	53.40	166.00	14.60	68.80	11.60	2.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	17.00	91.00	11.00	69.20	11.00	2.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	5.60	72.00	11.00	88.90	10.40	2.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	2.00	64.70	11.00	79.80	10.40	2.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	8.60	58.60	11.00	69.60	10.40	2.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	8.00	23.00	12.20	66.20	10.40	2.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	12.20	11.00	12.20	65.90	10.40	2.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	21.50	10.40	13.40	71.60	9.80	2.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	59.00	11.60	27.50	81.90	9.20	1.90	0.00	0.00	0.00	0.00	
30	0.00	5.60	67.70	13.40	55.70	112.80	9.20	1.90	0.00	0.00	0.00	0.00	
31	0.00	7.40		51.10	59.80		8.60		0.00	0.00		0.00	
Total	0.00	13.00	594.10	2682.90	1626.60	2748.80	1478.10	110.80	17.70	0.00	0.00	0.00	9272.00 CMSDAY
Mean	0.00	0.42	19.80	86.55	52.47	91.63	47.68	3.69	0.57	0.00	0.00	0.00	25.40 CMS
Max	0.00	7.40	70.40	252.00	96.60	192.40	207.20	8.00	1.90	0.00	0.00	0.00	252.00 CMS
Min	0.00	0.00	1.90	10.40	11.00	59.60	8.60	1.90	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	1.12	51.33	231.80	140.54	237.50	127.71	9.57	1.53	0.00	0.00	0.00	801.10 MCM
Momentary Peak	256.20 CMS. at 126.53 m. (MSL.) at 01.00 Hours , on Jul 19 , 2009												
Runoff Yield	15.43 Liters/Second/Square KM.			Momentary Peak Yield			155.650 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)

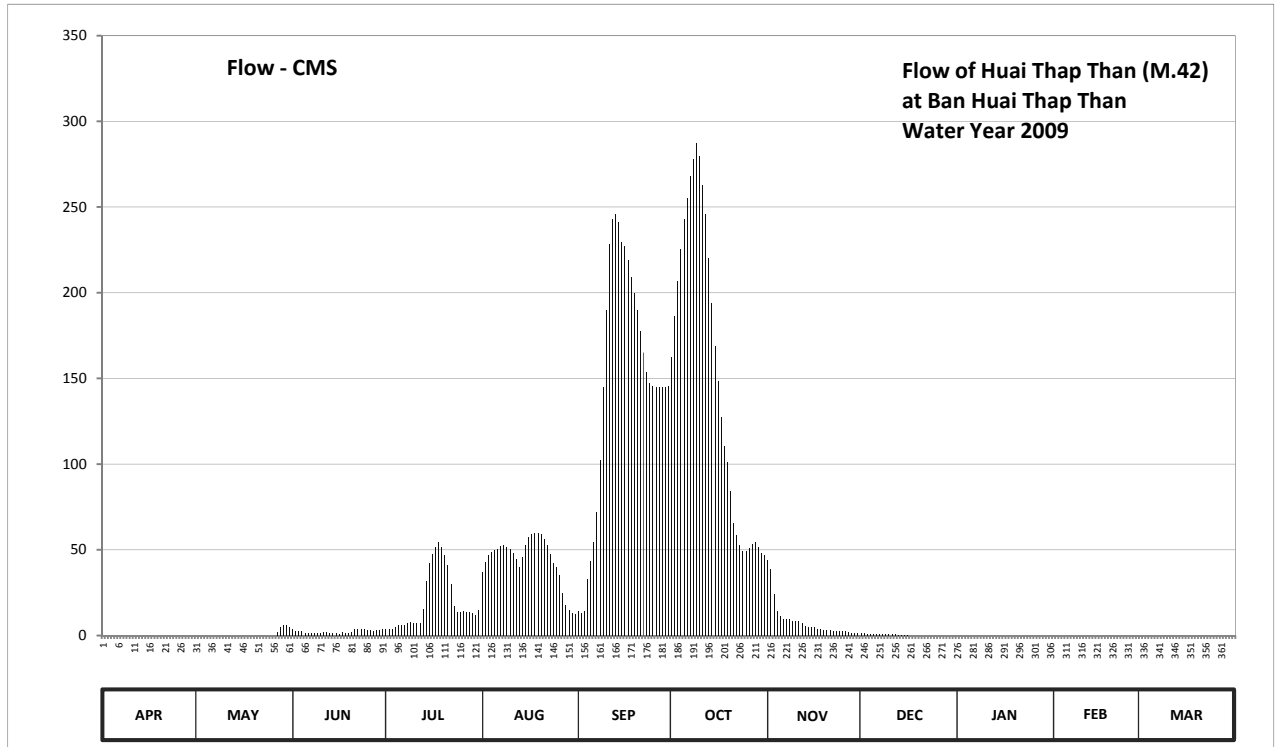
Lat 15 - 02 - 48 N Long 104 - 01 - 31 E

Location : on right bank at the bridge on highway.

	Ban Huai Thap Than	Amphoe Huai Thap Thun	Changwat Si Sa Ket
Drainage Area	2,832 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+118.850 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.	Elevation	+130.440 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 means of 5 readings		
Period of Available Gage Records	1972 to date		
Rating Operation			
Period of Rating	1972 - 1981, 1987 to date		
Rated by Flot	-		
Rated by Current Meter	1972 - 1981, 1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by the local weir about 800 meters downstream from the gage site. Stage-discharge defined by 23 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.14	122.15	122.29	122.30	123.01	122.53	127.53	123.56	122.21	122.10	121.61	121.05	
2	122.14	122.22	122.26	122.29	123.51	122.51	127.79	123.15	122.21	122.09	121.60	121.04	
3	122.13	122.22	122.26	122.30	123.81	122.54	127.98	122.74	122.20	122.07	121.58	121.01	
4	122.13	122.22	122.26	122.33	123.92	122.92	128.13	122.54	122.20	122.05	121.56	121.00	
5	122.12	122.19	122.22	122.35	124.03	123.54	128.25	122.47	122.19	122.03	121.55	120.98	
6	122.12	122.16	122.21	122.35	124.07	124.31	128.33	122.44	122.19	122.01	121.51	120.96	
7	122.12	122.15	122.22	122.35	124.16	125.25	128.41	122.43	122.19	121.99	121.50	120.93	
8	122.11	122.15	122.21	122.38	124.19	126.27	128.47	122.43	122.18	121.99	121.49	120.92	
9	122.11	122.13	122.22	122.40	124.15	127.23	128.52	122.41	122.17	122.03	121.46	120.92	
10	122.11	122.13	122.21	122.38	124.06	127.83	128.48	122.41	122.17	122.03	121.43	120.94	
11	122.11	122.13	122.23	122.38	123.90	128.15	128.38	122.41	122.17	122.02	121.41	120.94	
12	122.10	122.13	122.23	122.39	123.63	128.25	128.27	122.38	122.16	121.99	121.39	120.95	
13	122.10	122.13	122.22	122.56	123.24	128.27	128.09	122.34	122.15	121.97	121.36	120.96	
14	122.11	122.16	122.22	122.89	123.71	128.24	127.87	122.33	122.13	121.95	121.35	120.98	
15	122.14	122.21	122.21	123.43	124.22	128.16	127.60	122.32	122.12	121.91	121.32	120.98	
16	122.14	122.20	122.20	123.85	124.48	128.14	127.35	122.32	122.11	121.90	121.30	120.98	
17	122.13	122.20	122.23	124.14	124.60	128.08	127.01	122.30	122.10	121.88	121.29	120.99	
18	122.13	122.19	122.22	124.30	124.63	128.00	126.65	122.30	122.09	121.86	121.26	121.00	
19	122.12	122.17	122.22	124.14	124.63	127.92	126.18	122.28	122.09	121.83	121.22	121.00	
20	122.12	122.17	122.24	123.82	124.60	127.83	125.59	122.27	122.06	121.82	121.21	121.00	
21	122.11	122.18	122.30	123.35	124.43	127.70	124.96	122.27	122.05	121.82	121.19	121.02	
22	122.11	122.18	122.30	122.86	124.21	127.56	124.58	122.26	122.02	121.82	121.19	121.02	
23	122.10	122.17	122.29	122.60	123.87	127.42	124.20	122.26	122.01	121.80	121.17	121.03	
24	122.09	122.17	122.29	122.52	123.46	127.33	123.99	122.25	122.00	121.77	121.16	121.04	
25	122.09	122.17	122.28	122.52	123.22	127.31	124.00	122.25	122.00	121.75	121.15	121.04	
26	122.18	122.17	122.27	122.54	122.97	127.26	124.09	122.25	121.99	121.73	121.13	121.04	
27	122.17	122.24	122.26	122.52	122.76	127.22	124.25	122.23	121.98	121.70	121.10	121.04	
28	122.15	122.32	122.28	122.52	122.61	127.23	124.30	122.22	121.97	121.70	121.09	121.04	
29	122.15	122.36	122.27	122.51	122.55	127.22	124.15	122.22	122.06	121.66		121.04	
30	122.15	122.35	122.30	122.49	122.51	127.31	123.91	122.21	122.10	121.65		121.04	
31		122.33		122.55	122.50		123.82		122.11	121.63		121.04	
Mean	122.12	122.20	122.25	122.78	123.73	126.65	126.49	122.41	122.11	121.89	121.34	121.00	
Max	122.18	122.36	122.30	124.30	124.63	128.27	128.52	123.56	122.21	122.10	121.61	121.05	128.52
Min	122.09	122.13	122.20	122.29	122.50	122.51	123.82	122.21	121.97	121.63	121.09	120.92	120.92
Annual Max Momentary Gage Height	128.52		m. (MSL.) ,				at 06.00 Hours , on Oct 9 , 2009						
Zero Gage at Bottom Elevation	118.85		m. (MSL.) ,			River Bed	118.24	m. (MSL)					
Left Bank Elevation	130.25		m. (MSL.) ,										
Right Bank Elevation	130.25		m. (MSL.) ,			Drainage Area	2832	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	3.52	3.80	37.12	14.01	162.55	43.78	1.28	0.00	0.00	0.00	
2	0.00	0.00	2.68	3.52	43.13	13.07	186.05	38.80	1.28	0.00	0.00	0.00	
3	0.00	0.00	2.68	3.80	47.03	14.48	206.60	24.00	1.00	0.00	0.00	0.00	
4	0.00	0.00	2.68	5.06	48.46	33.00	225.55	14.48	1.00	0.00	0.00	0.00	
5	0.00	0.00	1.56	5.90	49.98	43.52	242.75	11.22	0.90	0.00	0.00	0.00	
6	0.00	0.00	1.28	5.90	50.62	54.46	255.15	9.84	0.90	0.00	0.00	0.00	
7	0.00	0.00	1.56	5.90	52.06	71.81	267.75	9.38	0.90	0.00	0.00	0.00	
8	0.00	0.00	1.28	7.16	52.54	102.24	278.25	9.38	0.80	0.00	0.00	0.00	
9	0.00	0.00	1.56	8.00	51.90	145.00	287.20	8.46	0.70	0.00	0.00	0.00	
10	0.00	0.00	1.28	7.16	50.46	190.00	280.00	8.46	0.70	0.00	0.00	0.00	
11	0.00	0.00	1.84	7.16	48.20	228.25	262.90	8.46	0.70	0.00	0.00	0.00	
12	0.00	0.00	1.84	7.58	44.69	242.75	245.85	7.16	0.60	0.00	0.00	0.00	
13	0.00	0.00	1.56	15.42	39.88	245.85	220.25	5.48	0.50	0.00	0.00	0.00	
14	0.00	0.00	1.56	31.50	45.73	241.20	194.00	5.06	0.30	0.00	0.00	0.00	
15	0.00	0.00	1.28	42.16	53.02	229.60	168.50	4.64	0.20	0.00	0.00	0.00	
16	0.00	0.00	1.00	47.55	57.18	226.90	148.50	4.64	0.10	0.00	0.00	0.00	
17	0.00	0.00	1.84	51.74	59.20	219.00	127.55	3.80	0.00	0.00	0.00	0.00	
18	0.00	0.00	1.56	54.30	59.71	209.00	110.50	3.80	0.00	0.00	0.00	0.00	
19	0.00	0.00	1.56	51.74	59.71	199.40	101.16	3.24	0.00	0.00	0.00	0.00	
20	0.00	0.00	2.12	47.16	59.20	190.00	84.14	2.96	0.00	0.00	0.00	0.00	
21	0.00	0.00	3.80	41.20	56.38	177.50	65.32	2.96	0.00	0.00	0.00	0.00	
22	0.00	0.00	3.80	30.00	52.86	165.10	58.86	2.68	0.00	0.00	0.00	0.00	
23	0.00	0.00	3.52	17.30	47.81	153.60	52.70	2.68	0.00	0.00	0.00	0.00	
24	0.00	0.00	3.52	13.54	42.52	147.10	49.37	2.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	3.24	13.54	39.64	145.70	49.50	2.40	0.00	0.00	0.00	0.00	
26	0.00	0.00	2.96	14.48	35.50	145.00	50.94	2.40	0.00	0.00	0.00	0.00	
27	0.00	2.12	2.68	13.54	25.00	144.99	53.50	1.84	0.00	0.00	0.00	0.00	
28	0.00	4.64	3.24	13.54	17.77	145.00	54.30	1.56	0.00	0.00	0.00	0.00	
29	0.00	6.32	2.96	13.07	14.95	144.99	51.90	1.56	0.00	0.00	0.00	0.00	
30	0.00	5.90	3.80	12.14	13.07	145.70	48.33	1.28	0.00	0.00	0.00	0.00	
31	0.00	5.06	0.00	14.95	12.60	0.00	47.16	0.00	0.00	0.00	0.00	0.00	
Total	0.00	24.04	69.76	609.81	1367.92	4428.22	4637.08	248.80	11.86	0.00	0.00	0.00	11397.49 CMSDAY
Mean	0.00	0.78	2.33	19.67	44.13	147.61	149.58	8.29	0.38	0.00	0.00	0.00	31.23 CMS
Max	0.00	6.32	3.80	54.30	59.71	245.85	287.20	43.78	1.28	0.00	0.00	0.00	287.20 CMS
Min	0.00	0.00	1.00	3.52	12.60	13.07	47.16	1.28	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	2.08	6.03	52.69	118.19	382.60	400.64	21.50	1.03	0.00	0.00	0.00	984.74 MCM
Momentary Peak	287.20 CMS. at 128.52 m. (MSL.) at 06.00 Hours , on Oct 9 , 2009												
Runoff Yield	11.30 Liters/Second/Square KM.			Momentary Peak Yield			101.412 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

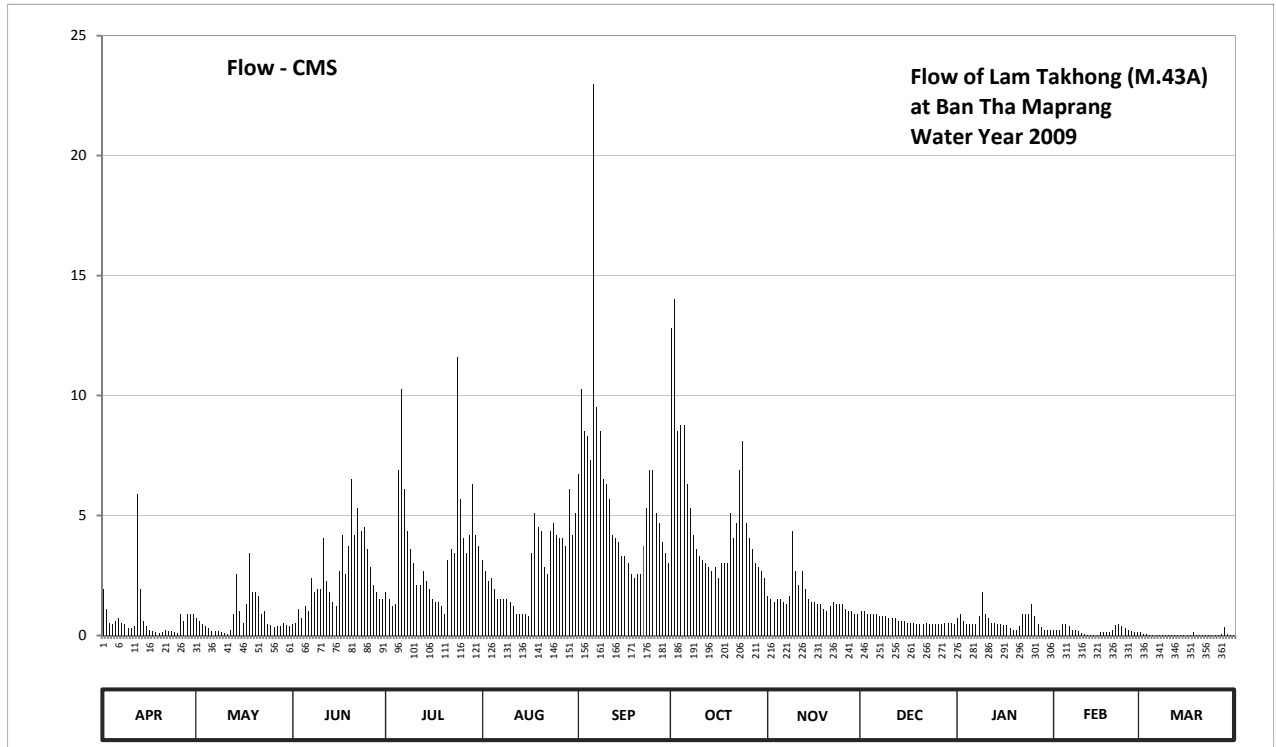
Lat 14 - 30 - 43 N Long 101 - 22 - 49 E

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

	Ban Tha Maprang	Amphoe Pak Chong	Changwat Nakhon Ratchasima
Drainage Area	153 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+372.540 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath of the bridge.	Elevation	+378.670 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1989 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The weir situated above gage site. Stage-discharge relation defined by 34 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	372.53	372.42	372.39	372.52	372.61	372.81	373.06	372.51	372.45	372.42	372.34	372.32	
2	372.46	372.41	372.40	372.50	372.58	372.97	373.10	372.50	372.45	372.44	372.34	372.30	
3	372.40	372.39	372.46	372.47	372.55	372.90	372.90	372.49	372.44	372.41	372.34	372.29	
4	372.39	372.37	372.42	372.48	372.56	372.89	372.91	372.50	372.44	372.39	372.39	372.28	
5	372.41	372.35	372.47	372.82	372.53	372.84	372.91	372.50	372.44	372.39	372.39	372.28	
6	372.42	372.33	372.45	372.97	372.50	373.36	372.79	372.49	372.44	372.39	372.37	372.28	
7	372.40	372.33	372.56	372.78	372.50	372.94	372.74	372.48	372.43	372.39	372.34	372.26	
8	372.39	372.33	372.52	372.69	372.50	372.90	372.68	372.51	372.43	372.43	372.34	372.25	
9	372.35	372.32	372.53	372.64	372.50	372.80	372.64	372.69	372.43	372.52	372.33	372.23	
10	372.35	372.31	372.53	372.60	372.49	372.79	372.62	372.58	372.42	372.44	372.31	372.22	
11	372.37	372.30	372.67	372.54	372.47	372.76	372.61	372.54	372.42	372.42	372.30	372.20	
12	372.77	372.34	372.55	372.54	372.44	372.68	372.60	372.58	372.42	372.40	372.27	372.20	
13	372.53	372.44	372.52	372.58	372.44	372.67	372.59	372.53	372.41	372.40	372.24	372.18	
14	372.41	372.57	372.49	372.55	372.44	372.66	372.58	372.50	372.41	372.39	372.24	372.16	
15	372.37	372.45	372.47	372.53	372.44	372.62	372.59	372.49	372.41	372.39	372.25	372.15	
16	372.34	372.40	372.58	372.50	372.43	372.62	372.56	372.49	372.40	372.38	372.32	372.16	
17	372.33	372.48	372.68	372.49	372.63	372.60	372.60	372.48	372.40	372.38	372.32	372.21	
18	372.32	372.63	372.57	372.49	372.73	372.57	372.60	372.48	372.40	372.35	372.32	372.32	
19	372.31	372.52	372.65	372.47	372.70	372.56	372.60	372.46	372.39	372.34	372.32	372.28	
20	372.32	372.52	372.80	372.44	372.69	372.57	372.73	372.45	372.39	372.34	372.34	372.24	
21	372.34	372.51	372.68	372.61	372.59	372.57	372.67	372.47	372.39	372.37	372.38	372.19	
22	372.33	372.44	372.74	372.64	372.57	372.65	372.71	372.49	372.40	372.44	372.39	372.18	
23	372.33	372.45	372.69	372.63	372.69	372.74	372.82	372.48	372.39	372.44	372.37	372.16	
24	372.32	372.39	372.70	373.02	372.71	372.82	372.88	372.48	372.39	372.44	372.35	372.14	
25	372.31	372.38	372.64	372.76	372.68	372.82	372.71	372.48	372.39	372.48	372.34	372.13	
26	372.44	372.36	372.59	372.67	372.67	372.73	372.67	372.46	372.39	372.43	372.33	372.14	
27	372.41	372.37	372.54	372.63	372.67	372.71	372.64	372.45	372.39	372.39	372.32	372.29	
28	372.44	372.37	372.52	372.68	372.65	372.66	372.60	372.45	372.40	372.36	372.32	372.36	
29	372.44	372.40	372.50	372.79	372.78	372.63	372.59	372.44	372.40	372.34		372.30	
30	372.44	372.38	372.50	372.68	372.68	372.60	372.58	372.44	372.40	372.34		372.27	
31		372.37		372.65	372.73		372.56		372.39	372.34		372.24	
Mean	372.40	372.41	372.56	372.62	372.59	372.75	372.70	372.50	372.41	372.40	372.33	372.23	
Max	372.77	372.63	372.80	373.02	372.78	373.36	373.10	372.69	372.45	372.52	372.39	372.36	373.36
Min	372.31	372.30	372.39	372.44	372.43	372.56	372.56	372.44	372.39	372.34	372.24	372.13	372.13
Annual Max Momentary Gage Height		373.71	m. (MSL.) ,				at 07.00 Hours , on Sep 6 , 2009						
Zero Gage at Bottom Elevation		372.54	m. (MSL.) ,			River Bed	371.63	m. (MSL)					
Left Bank Elevation		378.39	m. (MSL.) ,										
Right Bank Elevation		378.43	m. (MSL.) ,			Drainage Area	153	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.95	0.72	0.47	1.80	3.15	6.70	12.80	1.65	1.01	0.72	0.24	0.14	
2	1.11	0.62	0.52	1.50	2.70	10.25	14.00	1.50	1.01	0.91	0.24	0.05	
3	0.52	0.47	1.11	1.21	2.25	8.50	8.50	1.40	0.91	0.62	0.24	0.05	
4	0.47	0.38	0.72	1.30	2.40	8.30	8.75	1.50	0.91	0.47	0.47	0.04	
5	0.62	0.29	1.21	6.90	1.95	7.30	8.75	1.50	0.91	0.47	0.47	0.04	
6	0.72	0.19	1.01	10.25	1.50	22.98	6.30	1.40	0.91	0.47	0.38	0.04	
7	0.52	0.19	2.40	6.10	1.50	9.50	5.30	1.30	0.81	0.47	0.24	0.04	
8	0.47	0.19	1.80	4.35	1.50	8.50	4.20	1.65	0.81	0.81	0.24	0.04	
9	0.29	0.14	1.95	3.60	1.50	6.50	3.60	4.35	0.81	1.80	0.19	0.03	
10	0.29	0.10	1.95	3.00	1.40	6.30	3.30	2.70	0.72	0.91	0.10	0.03	
11	0.38	0.05	4.05	2.10	1.21	5.70	3.15	2.10	0.72	0.72	0.05	0.02	
12	5.90	0.24	2.25	2.10	0.91	4.20	3.00	2.70	0.72	0.52	0.04	0.02	
13	1.95	0.91	1.80	2.70	0.91	4.05	2.85	1.95	0.62	0.52	0.03	0.02	
14	0.62	2.55	1.40	2.25	0.91	3.90	2.70	1.50	0.62	0.47	0.03	0.01	
15	0.38	1.01	1.21	1.95	0.91	3.30	2.85	1.40	0.62	0.47	0.04	0.01	
16	0.24	0.52	2.70	1.50	0.81	3.30	2.40	1.40	0.52	0.43	0.14	0.01	
17	0.19	1.30	4.20	1.40	3.45	3.00	3.00	1.30	0.52	0.43	0.14	0.02	
18	0.14	3.45	2.55	1.40	5.10	2.55	3.00	1.30	0.52	0.29	0.14	0.14	
19	0.10	1.80	3.75	1.21	4.50	2.40	3.00	1.11	0.47	0.24	0.14	0.04	
20	0.14	1.80	6.50	0.91	4.35	2.55	5.10	1.01	0.47	0.24	0.24	0.03	
21	0.24	1.65	4.20	3.15	2.85	2.55	4.05	1.21	0.47	0.38	0.43	0.02	
22	0.19	0.91	5.30	3.60	2.55	3.75	4.70	1.40	0.52	0.91	0.47	0.02	
23	0.19	1.01	4.35	3.45	4.35	5.30	6.90	1.30	0.47	0.91	0.38	0.01	
24	0.14	0.47	4.50	11.60	4.70	6.90	8.10	1.30	0.47	0.91	0.29	0.01	
25	0.10	0.43	3.60	5.70	4.20	6.90	4.70	1.30	0.47	1.30	0.24	0.01	
26	0.91	0.33	2.85	4.05	4.05	5.10	4.05	1.11	0.47	0.81	0.19	0.01	
27	0.62	0.38	2.10	3.45	4.05	4.70	3.60	1.01	0.47	0.47	0.14	0.05	
28	0.91	0.38	1.80	4.20	3.75	3.90	3.00	1.01	0.52	0.33	0.14	0.33	
29	0.91	0.52	1.50	6.30	6.10	3.45	2.85	0.91	0.52	0.24		0.05	
30	0.91	0.43	1.50	4.20	4.20	3.00	2.70	0.91	0.52	0.24		0.04	
31		0.38		3.75	5.10		2.40		0.47	0.24		0.03	
Total	22.12	23.81	75.25	110.98	88.81	175.33	153.60	46.18	19.98	18.72	6.08	1.40	742.26 CMSDAY
Mean	0.74	0.77	2.51	3.58	2.86	5.84	4.95	1.54	0.64	0.60	0.22	0.05	2.03 CMS
Max	5.90	3.45	6.50	11.60	6.10	22.98	14.00	4.35	1.01	1.80	0.47	0.33	22.98 CMS
Min	0.10	0.05	0.47	0.91	0.81	2.40	2.40	0.91	0.47	0.24	0.03	0.01	0.01 CMS
Runoff	1.91	2.06	6.50	9.59	7.67	15.15	13.27	3.99	1.73	1.62	0.53	0.12	64.13 MCM
Momentary Peak	39.55 CMS. at 373.71 m. (MSL.) at 07.00 Hours , on Sep 6 , 2009												
Runoff Yield	31.05 Liters/Second/Square KM.			Momentary Peak Yield				258.497 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Lam Sae at Ban Khon Buri, Nakhon Ratchasima (M.50)

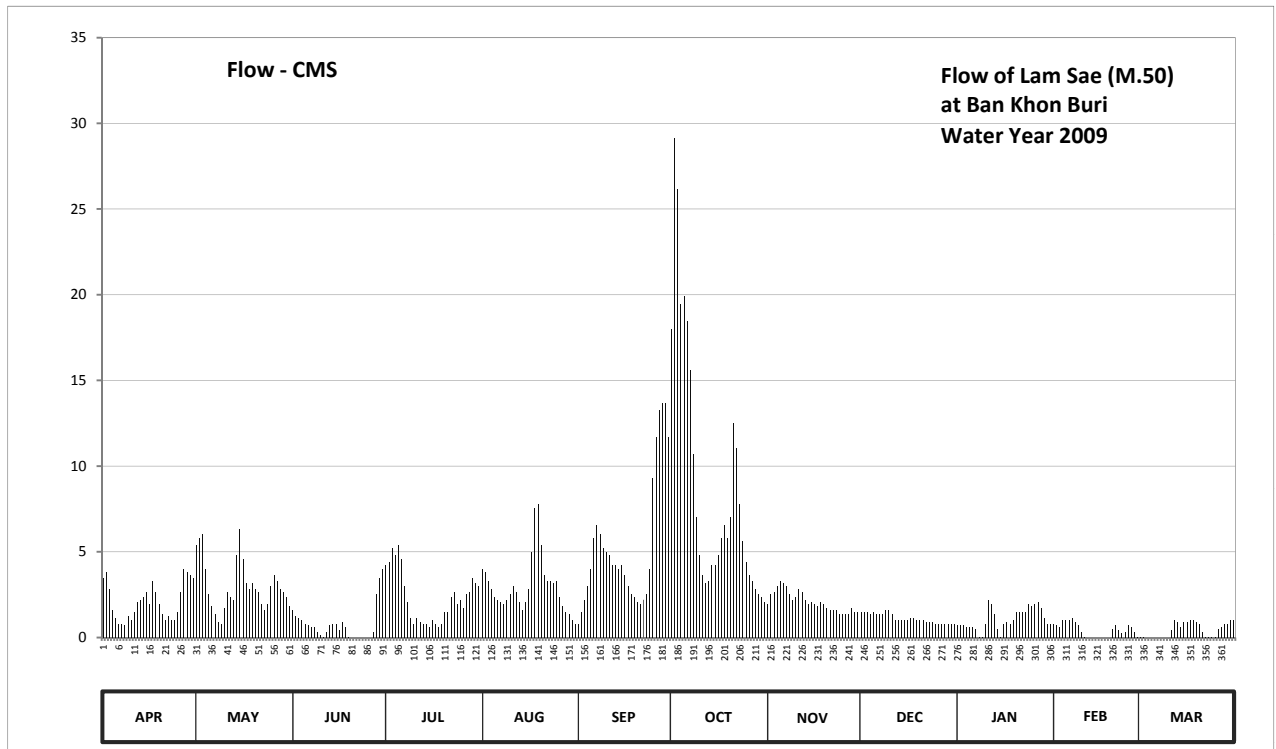
Lat 14 - 31 - 05 N Long 102 - 14 - 46 E

Location : on right bank at the bridge on highway.

	Ban khon Buri	Amphoe Khon Buri	Changwat Nakhon Ratchasima
Drainage Area	864 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+198.700 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank downstream at the footpath of the bridge.	Elevation	+203.760 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	200.88	200.98	200.75	200.92	200.91	200.68	201.35	200.78	200.74	200.67	200.68	200.56	
2	200.90	201.00	200.72	200.93	200.90	200.74	201.53	200.82	200.74	200.67	200.67	200.54	
3	200.84	201.01	200.71	200.97	200.87	200.80	201.49	200.83	200.74	200.67	200.66	200.49	
4	200.75	200.91	200.70	200.95	200.84	200.85	201.38	200.85	200.73	200.66	200.70	200.44	
5	200.71	200.82	200.68	200.98	200.81	200.91	201.39	200.87	200.74	200.66	200.70	200.44	
6	200.68	200.77	200.67	200.94	200.80	201.00	201.36	200.86	200.73	200.66	200.70	200.42	
7	200.68	200.73	200.66	200.85	200.79	201.03	201.30	200.85	200.73	200.65	200.71	200.46	
8	200.67	200.69	200.66	200.79	200.78	201.01	201.17	200.82	200.73	200.60	200.69	200.48	
9	200.72	200.68	200.63	200.71	200.80	200.97	201.05	200.80	200.75	200.52	200.67	200.45	
10	200.70	200.76	200.61	200.68	200.82	200.96	200.95	200.81	200.75	200.68	200.63	200.45	
11	200.74	200.83	200.59	200.71	200.85	200.95	200.89	200.84	200.73	200.80	200.58	200.64	
12	200.79	200.81	200.63	200.69	200.83	200.92	200.86	200.83	200.70	200.78	200.51	200.70	
13	200.80	200.80	200.67	200.68	200.79	200.92	200.87	200.80	200.70	200.73	200.43	200.69	
14	200.81	200.95	200.68	200.68	200.75	200.91	200.92	200.78	200.70	200.65	200.38	200.66	
15	200.83	201.02	200.68	200.66	200.79	200.92	200.92	200.79	200.70	200.56	200.38	200.69	
16	200.78	200.94	200.64	200.70	200.84	200.89	200.95	200.78	200.70	200.68	200.40	200.69	
17	200.87	200.86	200.69	200.68	200.96	200.85	201.00	200.77	200.71	200.69	200.37	200.70	
18	200.83	200.84	200.66	200.66	201.07	200.82	201.03	200.79	200.71	200.68	200.37	200.70	
19	200.78	200.86	200.59	200.68	201.08	200.81	201.00	200.78	200.70	200.70	200.50	200.69	
20	200.73	200.84	200.48	200.74	200.98	200.79	201.05	200.76	200.70	200.74	200.65	200.68	
21	200.70	200.83	200.42	200.74	200.89	200.78	201.22	200.75	200.70	200.74	200.67	200.63	
22	200.72	200.78	200.44	200.81	200.87	200.80	201.18	200.75	200.69	200.74	200.64	200.58	
23	200.70	200.75	200.39	200.83	200.87	200.82	201.08	200.75	200.69	200.74	200.62	200.59	
24	200.70	200.78	200.32	200.78	200.86	200.91	200.99	200.73	200.69	200.78	200.63	200.59	
25	200.74	200.85	200.27	200.80	200.87	201.13	200.93	200.73	200.68	200.77	200.67	200.59	
26	200.83	200.89	200.24	200.76	200.81	201.20	200.89	200.73	200.68	200.78	200.66	200.65	
27	200.91	200.87	200.63	200.82	200.77	201.24	200.87	200.73	200.68	200.79	200.63	200.66	
28	200.90	200.84	200.82	200.83	200.74	201.25	200.84	200.76	200.68	200.76	200.58	200.68	
29	200.89	200.83	200.88	200.88	200.73	201.25	200.82	200.74	200.68	200.71		200.68	
30	200.88	200.81	200.91	200.86	200.70	201.20	200.81	200.74	200.68	200.68		200.70	
31		200.77		200.85	200.68		200.79		200.68	200.68		200.70	
Mean	200.78	200.84	200.61	200.79	200.84	200.94	201.06	200.79	200.71	200.70	200.59	200.60	
Max	200.91	201.02	200.91	200.98	201.08	201.25	201.53	200.87	200.75	200.80	200.71	200.70	201.53
Min	200.67	200.68	200.24	200.66	200.68	200.68	200.79	200.73	200.68	200.52	200.37	200.42	200.24
Annual Max Momentary Gage Height		201.54	m. (MSL.) ,				at 06.00 Hours , on Oct 2, 2009						
Zero Gage at Bottom Elevation		198.70	m. (MSL.) ,				River Bed 197.19	m. (MSL)					
Left Bank Elevation		203.41	m. (MSL.) ,										
Right Bank Elevation		203.58	m. (MSL.) ,				Drainage Area 864	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.48	5.40	1.60	4.20	4.00	0.81	18.00	1.96	1.48	0.71	0.81	0.03		
2	3.80	5.80	1.24	4.40	3.80	1.48	29.17	2.52	1.48	0.71	0.71	0.02		
3	2.84	6.05	1.12	5.20	3.32	2.20	26.16	2.68	1.48	0.71	0.62	0.00		
4	1.60	4.00	1.00	4.80	2.84	3.00	19.44	3.00	1.36	0.62	1.00	0.00		
5	1.12	2.52	0.81	5.40	2.36	4.00	19.92	3.32	1.48	0.62	1.00	0.00		
6	0.81	1.84	0.71	4.60	2.20	5.80	18.48	3.16	1.36	0.62	1.00	0.00		
7	0.81	1.36	0.62	3.00	2.08	6.55	15.60	3.00	1.36	0.52	1.12	0.00		
8	0.71	0.91	0.62	2.08	1.96	6.05	10.68	2.52	1.36	0.05	0.91	0.00		
9	1.24	0.81	0.34	1.12	2.20	5.20	7.05	2.20	1.60	0.01	0.71	0.00		
10	1.00	1.72	0.14	0.81	2.52	5.00	4.80	2.36	1.60	0.81	0.34	0.00		
11	1.48	2.68	0.04	1.12	3.00	4.80	3.64	2.84	1.36	2.20	0.04	0.43		
12	2.08	2.36	0.34	0.91	2.68	4.20	3.16	2.68	1.00	1.96	0.00	1.00		
13	2.20	2.20	0.71	0.81	2.08	4.20	3.32	2.20	1.00	1.36	0.00	0.91		
14	2.36	4.80	0.81	0.81	1.60	4.00	4.20	1.96	1.00	0.52	0.00	0.62		
15	2.68	6.30	0.81	0.62	2.08	4.20	4.20	2.08	1.00	0.03	0.00	0.91		
16	1.96	4.60	0.43	1.00	2.84	3.64	4.80	1.96	1.00	0.81	0.00	0.91		
17	3.32	3.16	0.91	0.81	5.00	3.00	5.80	1.84	1.12	0.91	0.00	1.00		
18	2.68	2.84	0.62	0.62	7.55	2.52	6.55	2.08	1.12	0.81	0.00	1.00		
19	1.96	3.16	0.04	0.81	7.80	2.36	5.80	1.96	1.00	1.00	0.00	0.91		
20	1.36	2.84	0.00	1.48	5.40	2.08	7.05	1.72	1.00	1.48	0.52	0.81		
21	1.00	2.68	0.00	1.48	3.64	1.96	12.48	1.60	1.00	1.48	0.71	0.34		
22	1.24	1.96	0.00	2.36	3.32	2.20	11.02	1.60	0.91	1.48	0.43	0.04		
23	1.00	1.60	0.00	2.68	3.32	2.52	7.80	1.60	0.91	1.48	0.24	0.04		
24	1.00	1.96	0.00	1.96	3.16	4.00	5.60	1.36	0.91	1.96	0.34	0.04		
25	1.48	3.00	0.00	2.20	3.32	9.32	4.40	1.36	0.81	1.84	0.71	0.04		
26	2.68	3.64	0.00	1.72	2.36	11.70	3.64	1.36	0.81	1.96	0.62	0.52		
27	4.00	3.32	0.34	2.52	1.84	13.26	3.32	1.36	0.81	2.08	0.34	0.62		
28	3.80	2.84	2.52	2.68	1.48	13.65	2.84	1.72	0.81	1.72	0.04	0.81		
29	3.64	2.68	3.48	3.48	1.36	13.65	2.52	1.48	0.81	1.12		0.81		
30	3.48	2.36	4.00	3.16	1.00	11.70	2.36	1.48	0.81	0.81		1.00		
31		1.84		3.00	0.81		2.08		0.81	0.81		1.00		
Total	62.81	93.23	23.25	71.84	92.92	159.05	275.88	62.96	34.56	33.20	12.21	13.81	935.72	CMSDAY
Mean	2.09	3.01	0.78	2.32	3.00	5.30	8.90	2.10	1.11	1.07	0.44	0.45	2.56	CMS
Max	4.00	6.30	4.00	5.40	7.80	13.65	29.17	3.32	1.60	2.20	1.12	1.00	29.17	CMS
Min	0.71	0.81	0.00	0.62	0.81	0.81	2.08	1.36	0.81	0.01	0.00	0.00	0.00	CMS
Runoff	5.43	8.06	2.01	6.21	8.03	13.74	23.84	5.44	2.99	2.87	1.06	1.19	80.85	MCM
Momentary Peak	29.96 CMS. at 201.54 m. (MSL.) at 06.00 Hours , on Oct 2,2009													
Runoff Yield	2.97 Liters/Second/Square KM.			Momentary Peak Yield				34.676 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

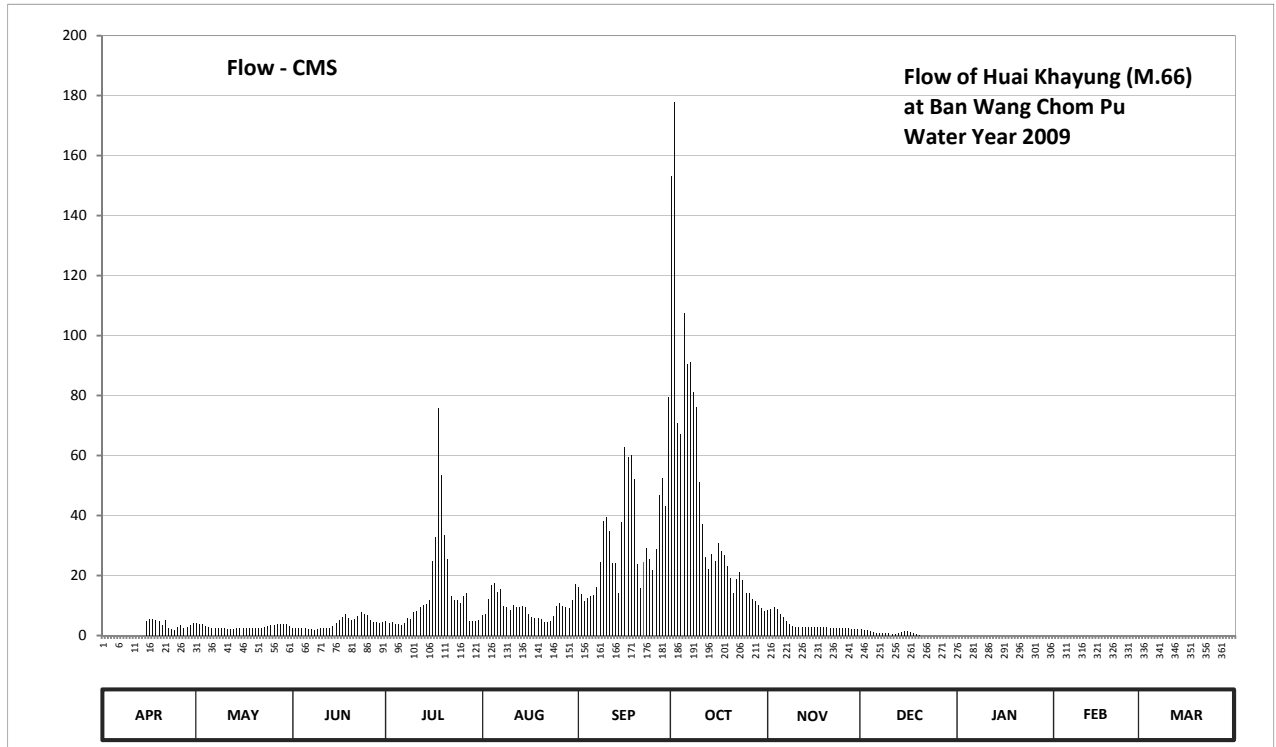
Lat 14 - 38 - 27 N Long 104 - 39 - 50 E

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
Drainage Area	562	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+143.880 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	At the automatic gage building.				Elevation	+150.430 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1965 to date					
Rating Operation						
Period of Rating	1965 - 1968, 1972 - 1981, 1987 to date					
Rated by Flot	-					
Rated by Current Meter	1965 - 1968, 1972 - 1981, 1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.57	143.69	143.58	143.73	143.83	144.28	148.19	143.91	143.56	142.71	142.92	142.57	
2	143.57	143.66	143.58	143.69	143.84	144.17	148.70	143.93	143.55	142.74	142.90	142.57	
3	143.58	143.67	143.58	143.70	144.09	144.06	146.19	143.95	143.54	142.74	142.88	142.58	
4	143.59	143.63	143.58	143.67	144.31	144.11	146.09	143.93	143.53	142.73	142.85	142.59	
5	143.58	143.60	143.58	143.66	144.33	144.14	147.14	143.85	143.51	142.73	142.83	142.92	
6	143.58	143.59	143.57	143.64	144.20	144.16	146.71	143.79	143.49	142.74	142.81	142.92	
7	143.58	143.58	143.56	143.68	144.24	144.28	146.73	143.72	143.48	142.75	142.80	142.90	
8	143.58	143.58	143.55	143.77	143.97	144.64	146.48	143.66	143.48	142.78	142.78	142.58	
9	143.58	143.58	143.57	143.75	143.96	145.14	146.35	143.62	143.47	142.80	142.76	142.56	
10	143.58	143.58	143.58	143.88	143.91	145.18	145.57	143.60	143.47	142.81	142.75	142.55	
11	143.58	143.56	143.58	143.90	143.99	145.03	145.11	143.60	143.46	142.83	142.74	142.54	
12	143.57	143.56	143.58	143.95	143.96	144.62	144.71	143.61	143.46	142.85	142.72	142.54	
13	143.56	143.56	143.58	144.00	143.96	144.63	144.54	143.61	143.48	142.88	142.70	142.53	
14	143.58	143.58	143.63	144.01	143.97	144.18	144.75	143.60	143.50	142.90	142.69	142.53	
15	143.72	143.58	143.69	144.07	143.96	145.13	144.65	143.60	143.52	142.93	142.68	142.53	
16	143.76	143.58	143.74	144.65	143.85	145.96	144.90	143.60	143.53	142.93	142.66	142.51	
17	143.75	143.59	143.80	144.96	143.79	145.85	144.78	143.60	143.50	142.92	142.64	142.49	
18	143.74	143.58	143.85	146.34	143.78	145.87	144.74	143.60	143.48	142.91	142.62	142.48	
19	143.72	143.58	143.78	145.65	143.78	145.60	144.59	143.60	143.45	142.89	142.60	142.46	
20	143.65	143.58	143.74	144.98	143.76	144.61	144.42	143.60	143.43	142.88	142.60	142.43	
21	143.74	143.58	143.76	144.68	143.71	144.26	144.18	143.59	143.33	142.89	142.59	142.45	
22	143.59	143.59	143.81	144.14	143.70	144.64	144.40	143.59	143.19	142.90	142.59	142.46	
23	143.56	143.61	143.88	144.07	143.73	144.83	144.51	143.58	143.04	142.91	142.59	142.48	
24	143.55	143.63	143.85	144.07	143.81	144.68	144.38	143.58	142.93	142.92	142.58	142.49	
25	143.61	143.65	143.82	144.03	143.98	144.53	144.18	143.58	142.84	142.92	142.58	142.50	
26	143.64	143.65	143.74	144.14	144.02	144.81	144.18	143.58	142.78	142.92	142.58	142.51	
27	143.59	143.66	143.70	144.18	143.97	145.43	144.08	143.58	142.77	142.93	142.57	142.51	
28	143.61	143.66	143.71	143.72	143.95	145.61	144.05	143.57	142.75	142.93	142.57	142.52	
29	143.64	143.67	143.69	143.73	143.94	145.31	144.00	143.57	142.73	142.93		142.52	
30	143.68	143.67	143.71	143.73	144.07	146.44	143.94	143.57	142.70	142.94		142.53	
31		143.63		143.74	144.32		143.90		142.68	142.94		142.53	
Mean	143.62	143.61	143.68	144.13	143.96	144.87	145.20	143.66	143.28	142.86	142.70	142.56	
Max	143.76	143.69	143.88	146.34	144.33	146.44	148.70	143.95	143.56	142.94	142.92	142.92	148.70
Min	143.55	143.56	143.55	143.64	143.70	144.06	143.90	143.57	142.68	142.71	142.57	142.43	142.43
Annual Max Momentary Gage Height	148.88		m. (MSL.) ,				at 06.00 Hours , on Oct 2,2009						
Zero Gage at Bottom Elevation	143.88		m. (MSL.) ,			River Bed	141.86	m. (MSL)					
Left Bank Elevation		153.46		m. (MSL.) ,									
Right Bank Elevation		153.40		m. (MSL.) ,		Drainage Area	562	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	4.23	2.36	4.97	6.90	16.23	153.05	8.50	2.02	0.00	0.00	0.00	
2	0.00	3.72	2.36	4.23	7.10	13.87	178.00	8.90	1.85	0.00	0.00	0.00	
3	0.00	3.89	2.36	4.40	12.19	11.56	70.65	9.30	1.68	0.00	0.00	0.00	
4	0.00	3.21	2.36	3.89	16.88	12.61	67.15	8.90	1.51	0.00	0.00	0.00	
5	0.00	2.70	2.36	3.72	17.32	13.24	107.60	7.30	1.17	0.00	0.00	0.00	
6	0.00	2.53	2.19	3.38	14.50	13.66	90.40	6.11	0.90	0.00	0.00	0.00	
7	0.00	2.36	2.02	4.06	15.37	16.23	91.20	4.78	0.80	0.00	0.00	0.00	
8	0.00	2.36	1.85	5.73	9.70	24.50	81.20	3.72	0.80	0.00	0.00	0.00	
9	0.00	2.36	2.19	5.35	9.50	38.20	76.25	3.04	0.70	0.00	0.00	0.00	
10	0.00	2.36	2.36	7.90	8.50	39.40	51.10	2.70	0.70	0.00	0.00	0.00	
11	0.00	2.02	2.36	8.30	10.10	34.90	37.30	2.70	0.60	0.00	0.00	0.00	
12	0.00	2.02	2.36	9.30	9.50	24.00	26.25	2.87	0.60	0.00	0.00	0.00	
13	0.00	2.02	2.36	10.30	9.50	24.25	22.00	2.87	0.80	0.00	0.00	0.00	
14	0.00	2.36	3.21	10.51	9.70	14.08	27.25	2.70	1.00	0.00	0.00	0.00	
15	4.78	2.36	4.23	11.77	9.50	37.90	24.75	2.70	1.34	0.00	0.00	0.00	
16	5.54	2.36	5.16	24.75	7.30	62.80	31.00	2.70	1.51	0.00	0.00	0.00	
17	5.35	2.53	6.30	32.80	6.11	59.50	28.00	2.70	1.00	0.00	0.00	0.00	
18	5.16	2.36	7.30	75.90	5.92	60.10	27.00	2.70	0.80	0.00	0.00	0.00	
19	4.78	2.36	5.92	53.50	5.92	52.00	23.25	2.70	0.50	0.00	0.00	0.00	
20	3.55	2.36	5.16	33.40	5.54	23.75	19.27	2.70	0.30	0.00	0.00	0.00	
21	5.16	2.36	5.54	25.50	4.59	15.80	14.08	2.53	0.00	0.00	0.00	0.00	
22	2.53	2.53	6.50	13.24	4.40	24.50	18.83	2.53	0.00	0.00	0.00	0.00	
23	2.02	2.87	7.90	11.77	4.97	29.25	21.25	2.36	0.00	0.00	0.00	0.00	
24	1.85	3.21	7.30	11.77	6.50	25.50	18.40	2.36	0.00	0.00	0.00	0.00	
25	2.87	3.55	6.70	10.93	9.90	21.75	14.08	2.36	0.00	0.00	0.00	0.00	
26	3.38	3.55	5.16	13.24	10.72	28.75	14.08	2.36	0.00	0.00	0.00	0.00	
27	2.53	3.72	4.40	14.08	9.70	46.90	11.98	2.36	0.00	0.00	0.00	0.00	
28	2.87	3.72	4.59	4.78	9.30	52.30	11.35	2.19	0.00	0.00	0.00	0.00	
29	3.38	3.89	4.23	4.97	9.10	43.30	10.30	2.19	0.00	0.00	0.00	0.00	
30	4.06	3.89	4.59	4.97	11.77	79.60	9.10	2.19	0.00	0.00	0.00	0.00	
31		3.21		5.16	17.10		8.30		0.00	0.00		0.00	
Total	59.81	88.97	123.68	438.57	295.10	960.43	1384.42	114.02	20.58	0.00	0.00	0.00	3485.58 CMSDAY
Mean	1.99	2.87	4.12	14.15	9.52	32.01	44.66	3.80	0.66	0.00	0.00	0.00	9.55 CMS
Max	5.54	4.23	7.90	75.90	17.32	79.60	178.00	9.30	2.02	0.00	0.00	0.00	178.00 CMS
Min	0.00	2.02	1.85	3.38	4.40	11.56	8.30	2.19	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	5.17	7.69	10.69	37.89	25.50	82.98	119.61	9.85	1.78	0.00	0.00	0.00	301.15 MCM
Momentary Peak	187.00 CMS. at 148.88 m. (MSL.) at 06.00 Hours , on Oct 2,2009												
Runoff Yield	16.99 Liters/Second/Square KM.			Momentary Peak Yield			332.740 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

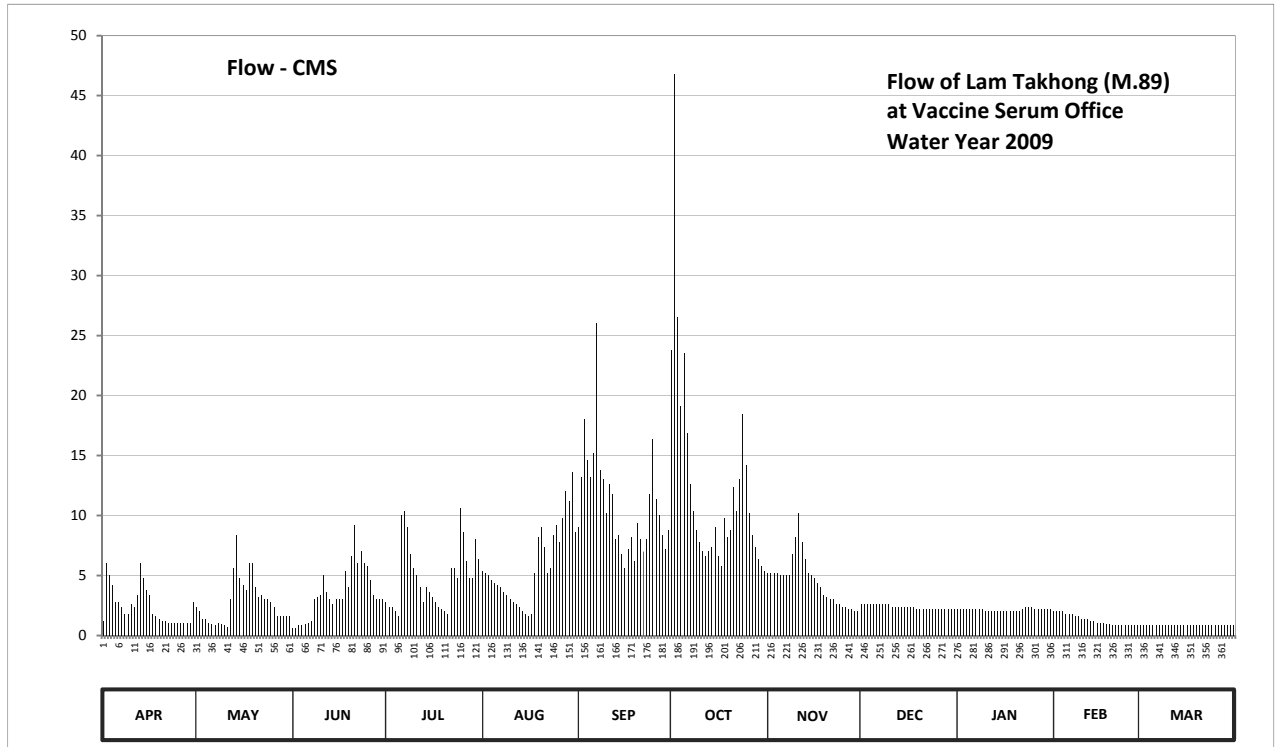
Lat 14 - 41 - 39 N Long 101 - 25 - 00 E

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

	Ban	-	Amphoe	Pak Chong	Changwat	Nakhon Ratchasima
Drainage Area	713	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+290.920 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+299.980 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1970 to date					
Rating Operation						
Period of Rating	1971 to date					
Rated by Flot	-					
Rated by Current Meter	1971 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.21	292.27	292.13	292.29	292.42	292.60	293.28	292.41	292.28	292.26	292.25	292.18	
2	292.45	292.25	292.13	292.27	292.41	292.81	294.26	292.41	292.28	292.26	292.25	292.18	
3	292.40	292.22	292.17	292.27	292.40	293.03	293.40	292.41	292.28	292.26	292.25	292.18	
4	292.36	292.22	292.17	292.25	292.38	292.88	293.08	292.41	292.28	292.26	292.25	292.18	
5	292.29	292.20	292.19	292.23	292.37	292.81	293.27	292.40	292.28	292.26	292.24	292.18	
6	292.29	292.19	292.20	292.65	292.36	292.91	292.98	292.40	292.28	292.26	292.24	292.18	
7	292.27	292.17	292.21	292.67	292.35	293.38	292.78	292.40	292.28	292.26	292.24	292.18	
8	292.24	292.20	292.30	292.60	292.33	292.84	292.67	292.40	292.28	292.26	292.23	292.17	
9	292.24	292.19	292.31	292.49	292.32	292.80	292.59	292.49	292.28	292.26	292.23	292.17	
10	292.28	292.17	292.32	292.43	292.30	292.66	292.54	292.56	292.28	292.25	292.22	292.17	
11	292.27	292.14	292.40	292.40	292.29	292.78	292.50	292.66	292.27	292.25	292.22	292.17	
12	292.32	292.30	292.33	292.35	292.28	292.74	292.48	292.54	292.27	292.25	292.22	292.17	
13	292.45	292.43	292.30	292.29	292.27	292.55	292.50	292.47	292.27	292.25	292.21	292.17	
14	292.39	292.57	292.28	292.35	292.25	292.57	292.52	292.41	292.27	292.25	292.21	292.17	
15	292.34	292.39	292.30	292.33	292.24	292.49	292.60	292.40	292.27	292.25	292.20	292.17	
16	292.32	292.36	292.30	292.31	292.23	292.43	292.48	292.39	292.27	292.25	292.20	292.17	
17	292.24	292.34	292.30	292.29	292.24	292.51	292.44	292.37	292.27	292.25	292.20	292.17	
18	292.23	292.45	292.42	292.27	292.41	292.56	292.64	292.35	292.27	292.25	292.19	292.17	
19	292.22	292.45	292.35	292.26	292.56	292.46	292.56	292.32	292.26	292.25	292.19	292.17	
20	292.21	292.35	292.48	292.25	292.60	292.62	292.59	292.31	292.26	292.25	292.18	292.17	
21	292.21	292.31	292.61	292.24	292.52	292.55	292.77	292.30	292.26	292.25	292.18	292.17	
22	292.20	292.32	292.45	292.43	292.41	292.50	292.67	292.30	292.26	292.26	292.18	292.17	
23	292.20	292.30	292.50	292.43	292.43	292.55	292.80	292.28	292.26	292.27	292.18	292.17	
24	292.20	292.30	292.45	292.39	292.57	292.74	293.05	292.28	292.26	292.27	292.18	292.17	
25	292.20	292.29	292.44	292.68	292.61	292.96	292.86	292.27	292.26	292.27	292.18	292.17	
26	292.20	292.27	292.38	292.58	292.54	292.72	292.66	292.27	292.26	292.26	292.18	292.17	
27	292.20	292.23	292.32	292.46	292.64	292.65	292.57	292.26	292.26	292.26	292.18	292.17	
28	292.20	292.23	292.30	292.39	292.75	292.57	292.52	292.26	292.26	292.26	292.18	292.17	
29	292.20	292.23	292.30	292.39	292.71	292.51	292.47	292.25	292.26	292.26		292.17	
30	292.29	292.23	292.30	292.55	292.83	292.59	292.44	292.25	292.26	292.26		292.17	
31		292.23		292.47	292.58		292.42		292.26	292.26		292.17	
Mean	292.27	292.28	292.32	292.40	292.44	292.69	292.75	292.37	292.27	292.26	292.21	292.17	
Max	292.45	292.57	292.61	292.68	292.83	293.38	294.26	292.66	292.28	292.27	292.25	292.18	294.26
Min	292.20	292.14	292.13	292.23	292.23	292.43	292.42	292.25	292.26	292.25	292.18	292.17	292.13
Annual Max Momentary Gage Height	294.60		m. (MSL.) ,				at 13.00 Hours , on Oct 2,2009						
Zero Gage at Bottom Elevation	290.92		m. (MSL.) ,			River Bed	290.96		m. (MSL)				
Left Bank Elevation	299.92		m. (MSL.) ,										
Right Bank Elevation	299.65		m. (MSL.) ,			Drainage Area	713		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	2.40	0.65	2.80	5.40	9.00	23.74	5.20	2.60	2.20	2.00	0.90	
2	6.00	2.00	0.65	2.40	5.20	13.20	46.80	5.20	2.60	2.20	2.00	0.90	
3	5.00	1.40	0.85	2.40	5.00	17.99	26.50	5.20	2.60	2.20	2.00	0.90	
4	4.20	1.40	0.85	2.00	4.60	14.60	19.14	5.20	2.60	2.20	2.00	0.90	
5	2.80	1.00	0.95	1.60	4.40	13.20	23.51	5.00	2.60	2.20	1.80	0.90	
6	2.80	0.95	1.00	10.00	4.20	15.23	16.84	5.00	2.60	2.20	1.80	0.90	
7	2.40	0.85	1.20	10.40	4.00	26.04	12.60	5.00	2.60	2.20	1.80	0.90	
8	1.80	1.00	3.00	9.00	3.60	13.80	10.40	5.00	2.60	2.20	1.60	0.85	
9	1.80	0.95	3.20	6.80	3.40	13.00	8.80	6.80	2.60	2.20	1.60	0.85	
10	2.60	0.85	3.40	5.60	3.00	10.20	7.80	8.20	2.60	2.00	1.40	0.85	
11	2.40	0.70	5.00	5.00	2.80	12.60	7.00	10.20	2.40	2.00	1.40	0.85	
12	3.40	3.00	3.60	4.00	2.60	11.80	6.60	7.80	2.40	2.00	1.40	0.85	
13	6.00	5.60	3.00	2.80	2.40	8.00	7.00	6.40	2.40	2.00	1.20	0.85	
14	4.80	8.40	2.60	4.00	2.00	8.40	7.40	5.20	2.40	2.00	1.20	0.85	
15	3.80	4.80	3.00	3.60	1.80	6.80	9.00	5.00	2.40	2.00	1.00	0.85	
16	3.40	4.20	3.00	3.20	1.60	5.60	6.60	4.80	2.40	2.00	1.00	0.85	
17	1.80	3.80	3.00	2.80	1.80	7.20	5.80	4.40	2.40	2.00	1.00	0.85	
18	1.60	6.00	5.40	2.40	5.20	8.20	9.80	4.00	2.40	2.00	0.95	0.85	
19	1.40	6.00	4.00	2.20	8.20	6.20	8.20	3.40	2.20	2.00	0.95	0.85	
20	1.20	4.00	6.60	2.00	9.00	9.40	8.80	3.20	2.20	2.00	0.90	0.85	
21	1.20	3.20	9.20	1.80	7.40	8.00	12.40	3.00	2.20	2.00	0.90	0.85	
22	1.00	3.40	6.00	5.60	5.20	7.00	10.40	3.00	2.20	2.20	0.90	0.85	
23	1.00	3.00	7.00	5.60	5.60	8.00	13.00	2.60	2.20	2.40	0.90	0.85	
24	1.00	3.00	6.00	4.80	8.40	11.80	18.45	2.60	2.20	2.40	0.90	0.85	
25	1.00	2.80	5.80	10.60	9.20	16.38	14.20	2.40	2.20	2.40	0.90	0.85	
26	1.00	2.40	4.60	8.60	7.80	11.40	10.20	2.40	2.20	2.20	0.90	0.85	
27	1.00	1.60	3.40	6.20	9.80	10.00	8.40	2.20	2.20	2.20	0.90	0.85	
28	1.00	1.60	3.00	4.80	12.00	8.40	7.40	2.20	2.20	2.20	0.90	0.85	
29	1.00	1.60	3.00	4.80	11.20	7.20	6.40	2.00	2.20	2.20		0.85	
30	2.80	1.60	3.00	8.00	13.60	8.80	5.80	2.00	2.20	2.20		0.85	
31	1.60		6.40	8.60	5.40			2.20	2.20			0.85	
Total	72.40	85.10	105.95	152.20	179.00	327.44	384.38	134.60	73.80	66.40	36.20	26.70	1644.17 CMSDAY
Mean	2.41	2.75	3.53	4.91	5.77	10.91	12.40	4.49	2.38	2.14	1.29	0.86	4.50 CMS
Max	6.00	8.40	9.20	10.60	13.60	26.04	46.80	10.20	2.60	2.40	2.00	0.90	46.80 CMS
Min	1.00	0.70	0.65	1.60	1.60	5.60	5.40	2.00	2.20	2.00	0.90	0.85	0.65 CMS
Runoff	6.26	7.35	9.15	13.15	15.47	28.29	33.21	11.63	6.38	5.74	3.13	2.31	142.06 MCM
Momentary Peak	55.11 CMS. at 294.6 m. (MSL.) at 13.00 Hours , on Oct 2,2009												
Runoff Yield	6.32 Liters/Second/Square KM.			Momentary Peak Yield			77.293 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Samran at Ban Thai Thaworn, Si Sa Ket (M.91)

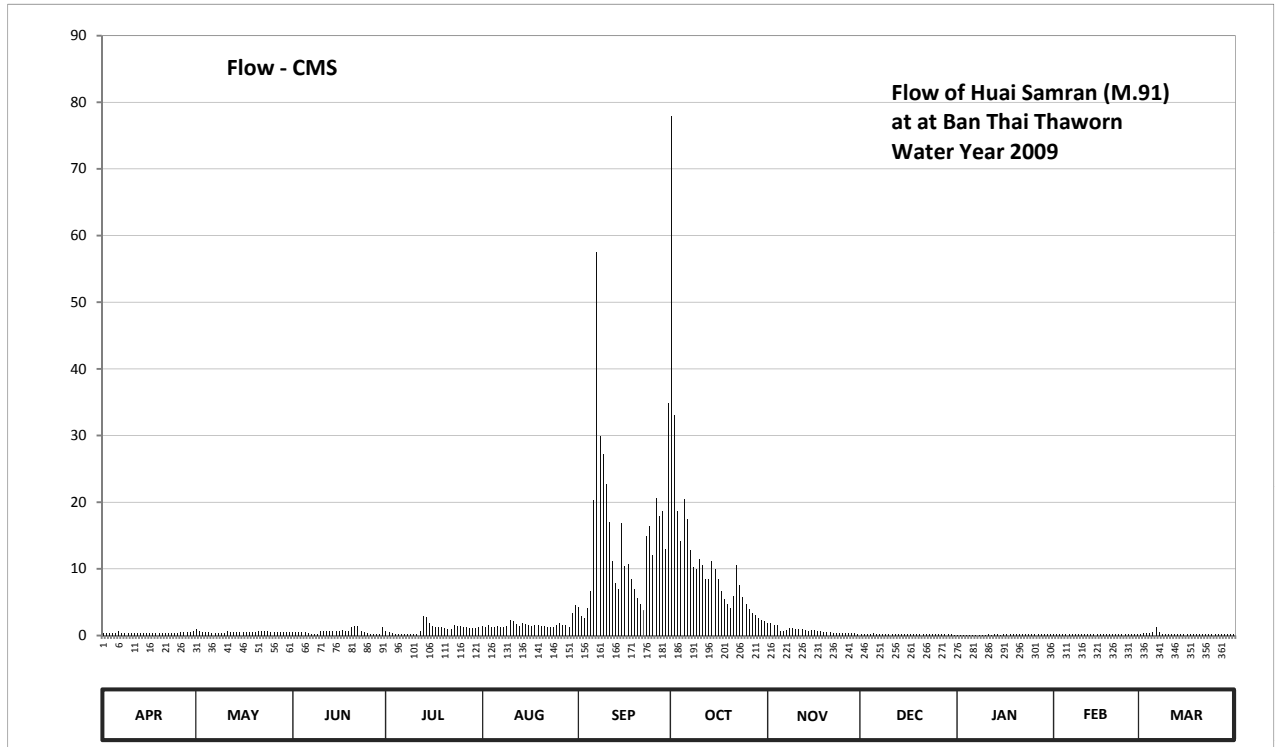
Lat 14 - 29 - 40 N Long 104 - 03 - 34 E

Location : on right bank about 15 kilometers, the highway at Ban Thai Thaworn.

	Ban Thai Thaworn	Amphoe	Phu Sing	Changwat	Si Sa Ket
Drainage Area	141	sq.km.			
Type of Gage	Staff gage.				
Zero Gage at Bottom	+175.259 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank downstream at the abutment of the bridge.			Elevation	+184.120 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings				
Period of Available Gage Records	1977 to date				
Rating Operation					
Period of Rating	1977 - 1978, 1983 to date				
Rated by Flot	-				
Rated by Current Meter	1977 - 1978, 1983 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records very good. Stage-discharge relation defined by 70 discharge measurements made in 2009.				

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.53	176.64	176.54	176.58	176.71	177.10	181.41	176.78	176.50	176.45	176.50	176.50	
2	176.52	176.59	176.54	176.55	176.69	176.92	179.68	176.77	176.50	176.45	176.50	176.53	
3	176.52	176.55	176.54	176.52	176.72	176.88	178.64	176.74	176.50	176.45	176.50	176.53	
4	176.52	176.54	176.54	176.51	176.69	177.07	178.19	176.73	176.50	176.44	176.50	176.53	
5	176.52	176.54	176.54	176.49	176.69	177.40	178.81	176.59	176.52	176.44	176.50	176.54	
6	176.57	176.53	176.53	176.50	176.70	178.80	178.52	176.58	176.48	176.44	176.50	176.67	
7	176.53	176.53	176.48	176.50	176.68	180.82	178.05	176.61	176.49	176.43	176.50	176.54	
8	176.52	176.53	176.46	176.49	176.68	179.52	177.79	176.66	176.49	176.43	176.50	176.50	
9	176.52	176.53	176.48	176.48	176.71	179.33	177.76	176.66	176.48	176.43	176.49	176.50	
10	176.52	176.53	176.59	176.48	176.84	179.00	177.92	176.64	176.48	176.43	176.49	176.50	
11	176.52	176.57	176.59	176.51	176.83	178.48	177.83	176.64	176.50	176.46	176.49	176.50	
12	176.52	176.55	176.58	176.57	176.76	177.88	177.61	176.64	176.48	176.45	176.50	176.50	
13	176.52	176.55	176.57	176.92	176.71	177.55	177.61	176.61	176.47	176.46	176.50	176.49	
14	176.52	176.55	176.57	176.91	176.78	177.43	177.88	176.59	176.48	176.46	176.50	176.51	
15	176.52	176.54	176.57	176.78	176.76	178.46	177.77	176.60	176.49	176.45	176.50	176.51	
16	176.52	176.54	176.57	176.71	176.73	177.81	177.62	176.60	176.48	176.46	176.50	176.51	
17	176.53	176.54	176.61	176.67	176.71	177.84	177.39	176.59	176.48	176.50	176.50	176.51	
18	176.53	176.55	176.58	176.67	176.72	177.62	177.25	176.57	176.47	176.50	176.50	176.51	
19	176.52	176.56	176.57	176.68	176.72	177.44	177.15	176.56	176.47	176.49	176.50	176.51	
20	176.52	176.56	176.67	176.66	176.71	177.27	177.08	176.55	176.46	176.50	176.50	176.51	
21	176.52	176.59	176.71	176.63	176.70	177.15	177.31	176.54	176.46	176.51	176.50	176.51	
22	176.52	176.58	176.70	176.62	176.68	177.04	177.83	176.53	176.47	176.51	176.50	176.51	
23	176.53	176.57	176.59	176.73	176.67	178.26	177.51	176.53	176.46	176.50	176.50	176.51	
24	176.53	176.58	176.55	176.71	176.67	178.42	177.29	176.52	176.46	176.50	176.50	176.51	
25	176.53	176.55	176.52	176.70	176.74	177.97	177.15	176.52	176.46	176.50	176.50	176.51	
26	176.56	176.54	176.51	176.69	176.77	178.83	177.06	176.52	176.46	176.50	176.50	176.51	
27	176.55	176.54	176.49	176.67	176.73	178.56	176.98	176.52	176.46	176.50	176.50	176.51	
28	176.55	176.54	176.49	176.66	176.72	178.63	176.94	176.52	176.46	176.50	176.50	176.51	
29	176.56	176.54	176.50	176.66	176.69	178.07	176.89	176.52	176.46	176.50	176.50	176.51	
30	176.57	176.54	176.69	176.66	176.98	179.77	176.85	176.51	176.46	176.50	176.50	176.50	
31	176.52	176.54	176.68	177.13	176.82	177.13	176.82	176.45	176.50	176.50	176.50	176.51	
Mean	176.53	176.55	176.56	176.63	176.74	178.11	177.76	176.60	176.48	176.47	176.50	176.52	
Max	176.57	176.64	176.71	176.92	177.13	180.82	181.41	176.78	176.52	176.51	176.50	176.67	181.41
Min	176.52	176.53	176.46	176.48	176.67	176.88	176.82	176.51	176.45	176.43	176.49	176.49	176.43
Annual Max Momentary Gage Height	181.97		m. (MSL.) ,				at 07.00 Hours , on Oct 1,2009						
Zero Gage at Bottom Elevation	175.26		m. (MSL.) ,			River Bed	175.63	m. (MSL)					
Left Bank Elevation	183.88		m. (MSL.) ,										
Right Bank Elevation	183.87		m. (MSL.) ,			Drainage Area	141	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	1.02	0.46	0.67	1.44	4.30	77.90	1.88	0.24	0.13	0.24	0.24	
2	0.35	0.73	0.46	0.51	1.32	2.86	33.10	1.81	0.24	0.13	0.24	0.40	
3	0.35	0.51	0.46	0.35	1.50	2.56	18.70	1.63	0.24	0.13	0.24	0.40	
4	0.35	0.46	0.46	0.29	1.32	4.06	14.20	1.57	0.24	0.11	0.24	0.40	
5	0.35	0.46	0.46	0.22	1.32	6.70	20.42	0.73	0.35	0.11	0.24	0.46	
6	0.62	0.40	0.40	0.24	1.38	20.30	17.50	0.67	0.20	0.11	0.24	1.20	
7	0.40	0.40	0.20	0.24	1.26	57.50	12.80	0.84	0.22	0.09	0.24	0.46	
8	0.35	0.40	0.15	0.22	1.26	29.90	10.20	1.14	0.22	0.09	0.24	0.24	
9	0.35	0.40	0.20	0.20	1.44	27.12	9.90	1.14	0.20	0.09	0.22	0.24	
10	0.35	0.40	0.73	0.20	2.28	22.70	11.50	1.02	0.20	0.09	0.22	0.24	
11	0.35	0.62	0.73	0.29	2.21	17.10	10.60	1.02	0.24	0.15	0.22	0.24	
12	0.35	0.51	0.67	0.62	1.75	11.10	8.40	1.02	0.20	0.13	0.24	0.24	
13	0.35	0.51	0.62	2.86	1.44	7.90	8.40	0.84	0.17	0.15	0.24	0.22	
14	0.35	0.51	0.62	2.78	1.88	6.94	11.10	0.73	0.20	0.15	0.24	0.29	
15	0.35	0.46	0.62	1.88	1.75	16.90	10.00	0.78	0.22	0.13	0.24	0.29	
16	0.35	0.46	0.62	1.44	1.57	10.40	8.50	0.78	0.20	0.15	0.24	0.29	
17	0.40	0.46	0.84	1.20	1.44	10.70	6.62	0.73	0.20	0.24	0.24	0.29	
18	0.40	0.51	0.67	1.20	1.50	8.50	5.50	0.62	0.17	0.24	0.24	0.29	
19	0.35	0.56	0.62	1.26	1.50	7.02	4.70	0.56	0.17	0.22	0.24	0.29	
20	0.35	0.56	1.20	1.14	1.44	5.66	4.14	0.51	0.15	0.24	0.24	0.29	
21	0.35	0.73	1.44	0.96	1.38	4.70	5.98	0.46	0.15	0.29	0.24	0.29	
22	0.35	0.67	1.38	0.90	1.26	3.82	10.60	0.40	0.17	0.29	0.24	0.29	
23	0.40	0.62	0.73	1.57	1.20	14.90	7.58	0.40	0.15	0.24	0.24	0.29	
24	0.40	0.67	0.51	1.44	1.20	16.50	5.82	0.35	0.15	0.24	0.24	0.29	
25	0.40	0.51	0.35	1.38	1.63	12.00	4.70	0.35	0.15	0.24	0.24	0.29	
26	0.56	0.46	0.29	1.32	1.81	20.66	3.98	0.35	0.15	0.24	0.24	0.29	
27	0.51	0.46	0.22	1.20	1.57	17.90	3.34	0.35	0.15	0.24	0.24	0.29	
28	0.51	0.46	0.22	1.14	1.50	18.60	3.02	0.35	0.15	0.24	0.24	0.29	
29	0.56	0.46	0.24	1.14	1.32	13.00	2.63	0.35	0.15	0.24		0.29	
30	0.62	0.46	1.32	1.14	3.34	34.90	2.35	0.29	0.15	0.24		0.24	
31		0.46		1.26	4.54		2.14		0.13	0.24		0.29	
Total	12.13	16.30	17.89	31.26	51.75	437.20	356.32	23.67	5.92	5.62	6.66	10.15	974.87 CMSDAY
Mean	0.40	0.53	0.60	1.01	1.67	14.57	11.49	0.79	0.19	0.18	0.24	0.33	2.67 CMS
Max	0.62	1.02	1.44	2.86	4.54	57.50	77.90	1.88	0.35	0.29	0.24	1.20	77.90 CMS
Min	0.35	0.40	0.15	0.20	1.20	2.56	2.14	0.29	0.13	0.09	0.22	0.22	0.09 CMS
Runoff	1.05	1.41	1.55	2.70	4.47	37.77	30.79	2.05	0.51	0.49	0.58	0.88	84.23 MCM
Momentary Peak	145.70 CMS. at 181.97 m. (MSL.) at 07.00 Hours , on Oct 1,2009												
Runoff Yield	18.94 Liters/Second/Square KM.			Momentary Peak Yield				749.645 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Lam Sieo Yai at Ban Ku, Roi Et. (M.95)

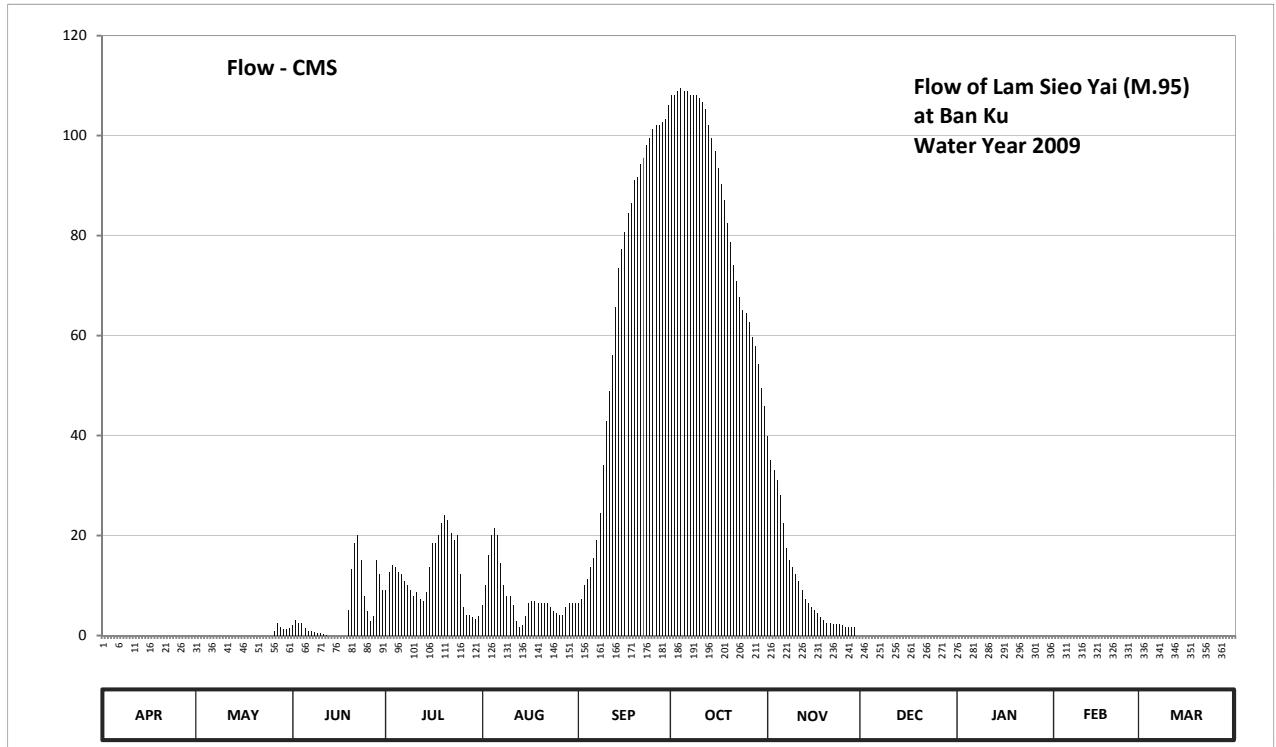
Lat 15 - 34 - 12 N Long 103 - 49 - 27 E

Location : on left bank at the bridge on Highway.

	Ban Ku	Amphoe Suwannaphum	Changwat Roi Et
Drainage Area	28,458 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+118.103 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+124.209 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1978 - 1989, 2005 to date		
Rating Operation			
Period of Rating	1978 - 1989, 2005 to date		
Rated by Flot	-		
Rated by Current Meter	1978 - 1989, 2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.79	119.61	120.15	120.37	120.30	120.31	122.06	120.98	120.22	120.08	119.70	119.22	
2	119.80	119.60	120.20	120.45	120.39	120.33	122.06	120.90	120.25	120.07	119.68	119.21	
3	119.79	119.59	120.18	120.48	120.52	120.39	122.07	120.86	120.27	120.06	119.67	119.19	
4	119.78	119.58	120.18	120.47	120.60	120.42	122.08	120.82	120.28	120.05	119.65	119.14	
5	119.77	119.57	120.12	120.45	120.63	120.47	122.07	120.76	120.29	120.03	119.64	119.12	
6	119.76	119.56	120.10	120.44	120.60	120.51	122.07	120.65	120.28	120.02	119.62	119.10	
7	119.75	119.55	120.08	120.41	120.49	120.58	122.06	120.55	120.28	120.00	119.59	119.06	
8	119.75	119.54	120.07	120.39	120.39	120.69	122.06	120.50	120.28	119.99	119.59	119.01	
9	119.74	119.54	120.05	120.37	120.34	120.88	122.06	120.47	120.27	119.98	119.58	118.97	
10	119.73	119.54	120.04	120.34	120.34	121.03	122.05	120.44	120.27	119.97	119.57	118.90	
11	119.72	119.57	120.03	120.36	120.30	121.13	122.04	120.41	120.27	119.96	119.55	118.85	
12	119.71	119.62	120.01	120.33	120.19	121.25	122.02	120.37	120.26	119.95	119.53	118.82	
13	119.71	119.63	119.99	120.32	120.13	121.41	121.97	120.33	120.26	119.94	119.52	118.78	
14	119.70	119.62	119.96	120.36	120.15	121.53	121.93	120.31	120.26	119.92	119.51	118.73	
15	119.70	119.62	119.92	120.47	120.23	121.59	121.89	120.29	120.25	119.90	119.50	118.69	
16	119.69	119.63	119.91	120.57	120.31	121.64	121.84	120.27	120.25	119.89	119.48	118.65	
17	119.68	119.66	119.92	120.57	120.32	121.70	121.79	120.25	120.24	119.87	119.46	118.62	
18	119.68	119.70	119.90	120.60	120.32	121.73	121.74	120.22	120.23	119.86	119.44	118.62	
19	119.67	119.75	120.27	120.65	120.31	121.80	121.67	120.20	120.22	119.85	119.41	118.61	
20	119.66	119.75	120.46	120.68	120.31	121.81	121.61	120.18	120.21	119.83	119.40	118.61	
21	119.65	119.76	120.57	120.66	120.31	121.85	121.54	120.17	120.19	119.82	119.38	118.61	
22	119.65	119.76	120.60	120.61	120.31	121.87	121.49	120.16	120.18	119.82	119.36	118.61	
23	119.64	119.75	120.50	120.58	120.29	121.91	121.44	120.16	120.17	119.81	119.34	118.61	
24	119.64	119.74	120.34	120.60	120.26	121.93	121.40	120.16	120.16	119.80	119.32	118.61	
25	119.63	119.86	120.26	120.44	120.25	121.96	121.39	120.15	120.15	119.79	119.30	118.61	
26	119.62	120.10	120.19	120.29	120.24	121.97	121.36	120.13	120.14	119.78	119.28	118.60	
27	119.62	120.17	120.23	120.24	120.24	121.97	121.31	120.13	120.13	119.76	119.26	118.58	
28	119.62	120.14	120.50	120.24	120.29	121.98	121.28	120.14	120.12	119.75	119.24	118.56	
29	119.62	120.11	120.44	120.22	120.31	121.99	121.22	120.14	120.12	119.74		118.56	
30	119.61	120.11	120.37	120.21	120.31	122.03	121.14	120.18	120.11	119.72		118.55	
31		120.12		120.23	120.31		121.08		120.10	119.71		118.54	
Mean	119.70	119.74	120.18	120.43	120.33	121.36	121.74	120.38	120.22	119.89	119.48	118.79	
Max	119.80	120.17	120.60	120.68	120.63	122.03	122.08	120.98	120.29	120.08	119.70	119.22	122.08
Min	119.61	119.54	119.90	120.21	120.13	120.31	121.08	120.13	120.10	119.71	119.24	118.54	118.54
Annual Max Momentary Gage Height		122.08	m. (MSL.) ,				at 18.00 Hours , on Oct 3, 2009						
Zero Gage at Bottom Elevation		118.10	m. (MSL.) ,			River Bed	117.07	m. (MSL)					
Left Bank Elevation			124.19	m. (MSL.) ,									
Right Bank Elevation			124.23	m. (MSL.) ,		Drainage Area	28458	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.00	9.15	6.00	6.45	108.20	39.80	0.00	0.00	0.00	0.00	
2	0.00	0.00	3.00	12.75	10.05	7.35	108.20	35.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	2.60	14.10	16.00	10.05	108.90	33.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	2.60	13.65	20.00	11.40	109.60	31.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	1.40	12.75	21.50	13.65	108.90	28.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	1.00	12.30	20.00	15.50	108.90	22.50	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.80	10.95	14.55	19.00	108.20	17.50	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.70	10.05	10.05	24.50	108.20	15.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.50	9.15	7.80	34.00	108.20	13.65	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.40	7.80	7.80	42.80	107.50	12.30	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.30	8.70	6.00	48.80	106.80	10.95	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.10	7.35	2.80	56.00	105.40	9.15	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	6.90	1.60	65.65	102.05	7.35	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	8.70	2.00	73.45	99.45	6.45	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	13.65	3.90	77.35	96.85	5.70	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	18.50	6.45	80.60	93.60	5.10	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	18.50	6.90	84.50	90.35	4.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	20.00	6.90	86.45	87.10	3.60	0.00	0.00	0.00	0.00	
19	0.00	0.00	5.10	22.50	6.45	91.00	82.55	3.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	13.20	24.00	6.45	91.65	78.65	2.60	0.00	0.00	0.00	0.00	
21	0.00	0.00	18.50	23.00	6.45	94.25	74.10	2.40	0.00	0.00	0.00	0.00	
22	0.00	0.00	20.00	20.50	6.45	95.55	70.85	2.20	0.00	0.00	0.00	0.00	
23	0.00	0.00	15.00	19.00	5.70	98.15	67.60	2.20	0.00	0.00	0.00	0.00	
24	0.00	0.00	7.80	20.00	4.80	99.45	65.00	2.20	0.00	0.00	0.00	0.00	
25	0.00	0.00	4.80	12.30	4.50	101.40	64.40	2.00	0.00	0.00	0.00	0.00	
26	0.00	1.00	2.80	5.70	4.20	102.05	62.60	1.60	0.00	0.00	0.00	0.00	
27	0.00	2.40	3.90	4.20	4.20	102.05	59.60	1.60	0.00	0.00	0.00	0.00	
28	0.00	1.80	15.00	4.20	5.70	102.70	57.80	1.80	0.00	0.00	0.00	0.00	
29	0.00	1.20	12.30	3.60	6.45	103.35	54.20	1.80	0.00	0.00	0.00	0.00	
30	0.00	1.20	9.15	3.30	6.45	106.10	49.40	0.00	0.00	0.00	0.00	0.00	
31	0.00	1.40	3.90	6.45	6.45	106.10	45.80	0.00	0.00	0.00	0.00	0.00	
Total	0.00	9.00	142.95	381.15	244.55	1945.20	2698.95	323.95	0.00	0.00	0.00	0.00	5745.75 CMSDAY
Mean	0.00	0.29	4.77	12.30	7.89	64.84	87.06	10.80	0.00	0.00	0.00	0.00	15.74 CMS
Max	0.00	2.40	20.00	24.00	21.50	106.10	109.60	39.80	0.00	0.00	0.00	0.00	109.60 CMS
Min	0.00	0.00	0.00	3.30	1.60	6.45	45.80	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.78	12.35	32.93	21.13	168.07	233.19	27.99	0.00	0.00	0.00	0.00	496.43 MCM
Momentary Peak	109.60 CMS. at 122.08 m. (MSL.) at 18.00 Hours , on Oct 3,2009												
Runoff Yield	0.55 Liters/Second/Square KM.			Momentary Peak Yield				3.851 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Huai Tha at Ban Phayu, Si Sa Ket (M.98)

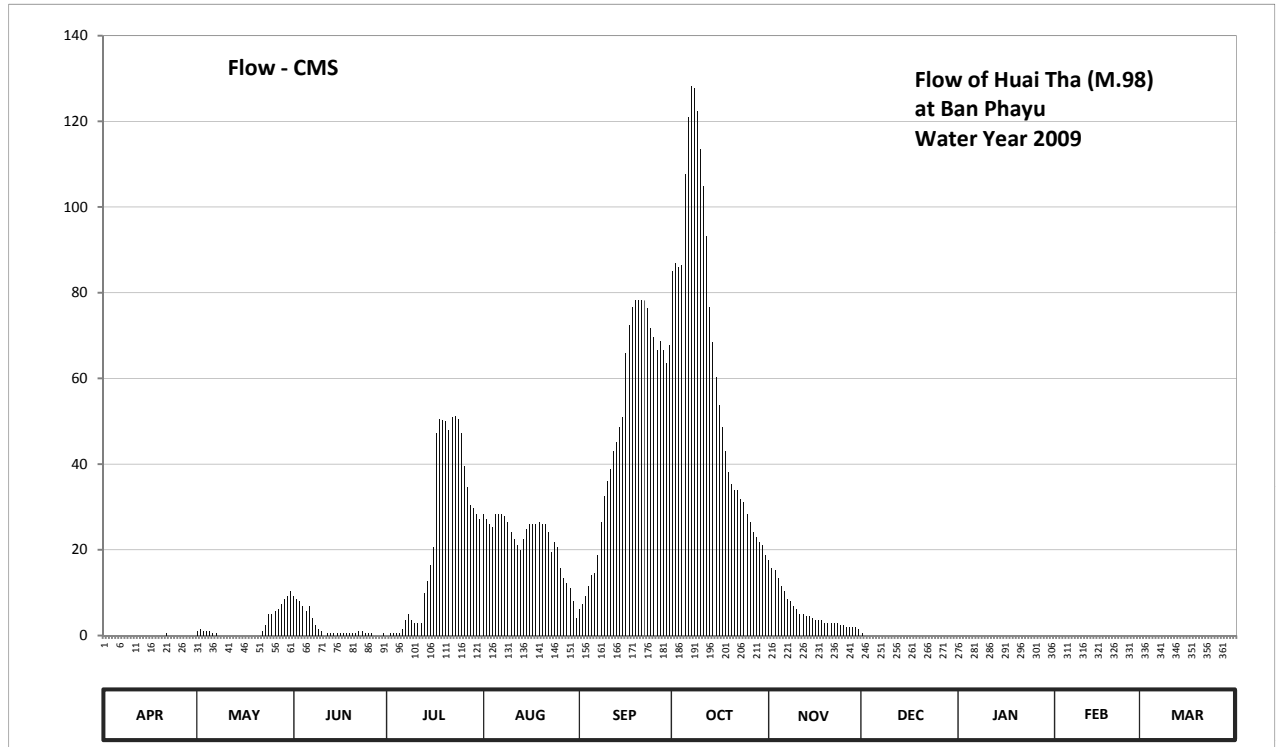
Lat 14 - 52 - 41 N Long 104 - 26 - 17 E

Location : on right bank at the bridge of Si Sa Ket - Kantharalak Highway near guidepost 27+734.

	Ban Phayu	Amphoe Phayu	Changwat	Si Sa Ket
Drainage Area	1,150	sq.km.		
Type of Gage	Water - stage recorder.			
Zero Gage at Bottom	+125.120 m. (MSL.)			
Bench Mark	B.M.-H.D.			
Location BM	On right bank in front of automatic gage building.		Elevation	+133.700 m. (MSL.)
Gage Reading Frequency	Recording			
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings			
Period of Available Gage Records	1978 to date			
Rating Operation				
Period of Rating	1979 - 1981, 1987 to date			
Rated by Flot	-			
Rated by Current Meter	1979 - 1981, 1987 to date			
Stability of Channel Regimes	Stable.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records fair. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2009.			

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	128.08	128.12	128.27	128.10	128.59	128.22	130.22	128.41	128.11	128.08	128.07	128.07	
2	128.08	128.13	128.26	128.11	128.57	128.24	130.28	128.38	128.10	128.08	128.08	128.07	
3	128.08	128.12	128.25	128.11	128.55	128.27	130.25	128.37	128.09	128.08	128.08	128.07	
4	128.08	128.12	128.23	128.11	128.54	128.31	130.26	128.34	128.08	128.08	128.08	128.07	
5	128.08	128.12	128.21	128.11	128.59	128.35	130.97	128.31	128.08	128.08	128.08	128.07	
6	128.08	128.11	128.23	128.13	128.59	128.36	131.42	128.29	128.08	128.08	128.08	128.07	
7	128.07	128.11	128.18	128.17	128.59	128.43	131.66	128.26	128.08	128.08	128.08	128.07	
8	128.07	128.10	128.15	128.20	128.58	128.56	131.64	128.25	128.08	128.08	128.08	128.07	
9	128.07	128.09	128.13	128.17	128.56	128.65	131.46	128.23	128.08	128.08	128.08	128.07	
10	128.07	128.08	128.12	128.16	128.52	128.70	131.17	128.22	128.08	128.08	128.08	128.07	
11	128.08	128.08	128.10	128.16	128.49	128.74	130.88	128.20	128.08	128.08	128.08	128.07	
12	128.08	128.08	128.11	128.16	128.47	128.80	130.49	128.20	128.08	128.08	128.08	128.07	
13	128.08	128.08	128.11	128.28	128.45	128.83	129.94	128.19	128.08	128.08	128.08	128.07	
14	128.09	128.09	128.11	128.33	128.49	128.88	129.64	128.19	128.08	128.08	128.08	128.07	
15	128.09	128.10	128.11	128.39	128.53	128.94	129.31	128.18	128.08	128.08	128.08	128.07	
16	128.09	128.10	128.11	128.46	128.55	129.54	129.05	128.17	128.08	128.08	128.08	128.07	
17	128.09	128.09	128.11	128.86	128.55	129.80	128.88	128.17	128.08	128.08	128.08	128.07	
18	128.09	128.09	128.11	128.92	128.55	129.94	128.80	128.17	128.08	128.08	128.08	128.07	
19	128.10	128.09	128.11	128.91	128.56	129.99	128.73	128.16	128.08	128.08	128.08	128.07	
20	128.10	128.09	128.11	128.90	128.55	129.99	128.69	128.16	128.08	128.08	128.08	128.07	
21	128.11	128.10	128.11	128.87	128.55	129.99	128.67	128.16	128.08	128.08	128.08	128.07	
22	128.10	128.12	128.12	128.94	128.52	129.99	128.67	128.16	128.08	128.08	128.08	128.07	
23	128.10	128.15	128.12	128.95	128.44	129.93	128.64	128.16	128.08	128.08	128.08	128.07	
24	128.10	128.20	128.11	128.92	128.48	129.77	128.63	128.15	128.08	128.08	128.08	128.07	
25	128.09	128.20	128.11	128.86	128.46	129.68	128.59	128.15	128.08	128.08	128.08	128.07	
26	128.10	128.21	128.11	128.75	128.38	129.56	128.56	128.14	128.08	128.08	128.08	128.07	
27	128.10	128.22	128.10	128.68	128.34	129.65	128.52	128.14	128.08	128.08	128.08	128.07	
28	128.10	128.24	128.10	128.62	128.32	129.56	128.50	128.14	128.07	128.08	128.08	128.07	
29	128.10	128.26	128.10	128.61	128.30	129.44	128.48	128.14	128.07	128.08		128.07	
30	128.10	128.27	128.11	128.59	128.25	129.61	128.47	128.13	128.07	128.07		128.07	
31		128.29		128.57	128.18		128.43		128.07	128.07		128.07	
Mean	128.09	128.14	128.14	128.49	128.49	129.16	129.61	128.21	128.08	128.08	128.08	128.07	
Max	128.11	128.29	128.27	128.95	128.59	129.99	131.66	128.41	128.11	128.08	128.08	128.07	131.66
Min	128.07	128.08	128.10	128.10	128.18	128.22	128.43	128.13	128.07	128.07	128.07	128.07	128.07
Annual Max Momentary Gage Height		131.67		m. (MSL.) ,									at 12.00 Hours , on Oct 7,2009
Zero Gage at Bottom Elevation		125.12		m. (MSL.) ,		River Bed	124.50		m. (MSL)				
Left Bank Elevation		133.46		m. (MSL.) ,									
Right Bank Elevation		132.95		m. (MSL.) ,		Drainage Area	1150		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.00	9.20	0.00	28.40	6.20	85.10	17.60	0.50	0.00	0.00	0.00	
2	0.00	1.50	8.60	0.50	27.20	7.40	86.90	15.80	0.00	0.00	0.00	0.00	
3	0.00	1.00	8.00	0.50	26.00	9.20	86.00	15.20	0.00	0.00	0.00	0.00	
4	0.00	1.00	6.80	0.50	25.40	11.60	86.30	13.40	0.00	0.00	0.00	0.00	
5	0.00	1.00	5.60	0.50	28.40	14.00	107.60	11.60	0.00	0.00	0.00	0.00	
6	0.00	0.50	6.80	1.50	28.40	14.60	121.10	10.40	0.00	0.00	0.00	0.00	
7	0.00	0.50	4.00	3.50	28.40	18.80	128.30	8.60	0.00	0.00	0.00	0.00	
8	0.00	0.00	2.50	5.00	27.80	26.60	127.70	8.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	1.50	3.50	26.60	32.50	122.30	6.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	1.00	3.00	24.20	36.00	113.60	6.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	3.00	22.40	38.80	104.90	5.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.50	3.00	21.20	43.00	93.20	5.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.50	9.80	20.00	45.10	76.70	4.50	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.50	12.80	22.40	48.60	68.50	4.50	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.50	16.40	24.80	51.00	60.25	4.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.50	20.60	26.00	66.00	53.75	3.50	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.50	47.20	26.00	72.50	48.60	3.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.50	50.50	26.00	76.70	43.00	3.50	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.50	50.25	26.60	78.20	38.10	3.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.50	50.00	26.00	78.20	35.30	3.00	0.00	0.00	0.00	0.00	
21	0.50	0.00	0.50	47.90	26.00	78.20	33.90	3.00	0.00	0.00	0.00	0.00	
22	0.00	1.00	1.00	51.00	24.20	78.20	33.90	3.00	0.00	0.00	0.00	0.00	
23	0.00	2.50	1.00	51.25	19.40	76.40	31.80	3.00	0.00	0.00	0.00	0.00	
24	0.00	5.00	0.50	50.50	21.80	71.75	31.10	2.50	0.00	0.00	0.00	0.00	
25	0.00	5.00	0.50	47.20	20.60	69.50	28.40	2.50	0.00	0.00	0.00	0.00	
26	0.00	5.60	0.50	39.50	15.80	66.50	26.60	2.00	0.00	0.00	0.00	0.00	
27	0.00	6.20	0.00	34.60	13.40	68.75	24.20	2.00	0.00	0.00	0.00	0.00	
28	0.00	7.40	0.00	30.40	12.20	66.50	23.00	2.00	0.00	0.00	0.00	0.00	
29	0.00	8.60	0.00	29.70	11.00	63.50	21.80	2.00	0.00	0.00	0.00	0.00	
30	0.00	9.20	0.50	28.40	8.00	67.75	21.20	1.50	0.00	0.00	0.00	0.00	
31		10.40		27.20	4.00		18.80		0.00	0.00		0.00	
Total	0.50	67.40	63.00	719.70	688.60	1482.05	1981.90	176.60	0.50	0.00	0.00	0.00	5180.25 CMSDAY
Mean	0.02	2.17	2.10	23.22	22.21	49.40	63.93	5.89	0.02	0.00	0.00	0.00	14.19 CMS
Max	0.50	10.40	9.20	51.25	28.40	78.20	128.30	17.60	0.50	0.00	0.00	0.00	128.30 CMS
Min	0.00	0.00	0.00	0.00	4.00	6.20	18.80	1.50	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.04	5.82	5.44	62.18	59.50	128.05	171.24	15.26	0.04	0.00	0.00	0.00	447.57 MCM
Momentary Peak	128.60 CMS. At 131.67 m. (MSL.) at 12.00 Hours , on Oct 7,2009												
Runoff Yield	12.34 Liters/Second/Square KM.			Momentary Peak Yield				111.826 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Mun River at Ban Wang Prat, Buri Ram (M.104)

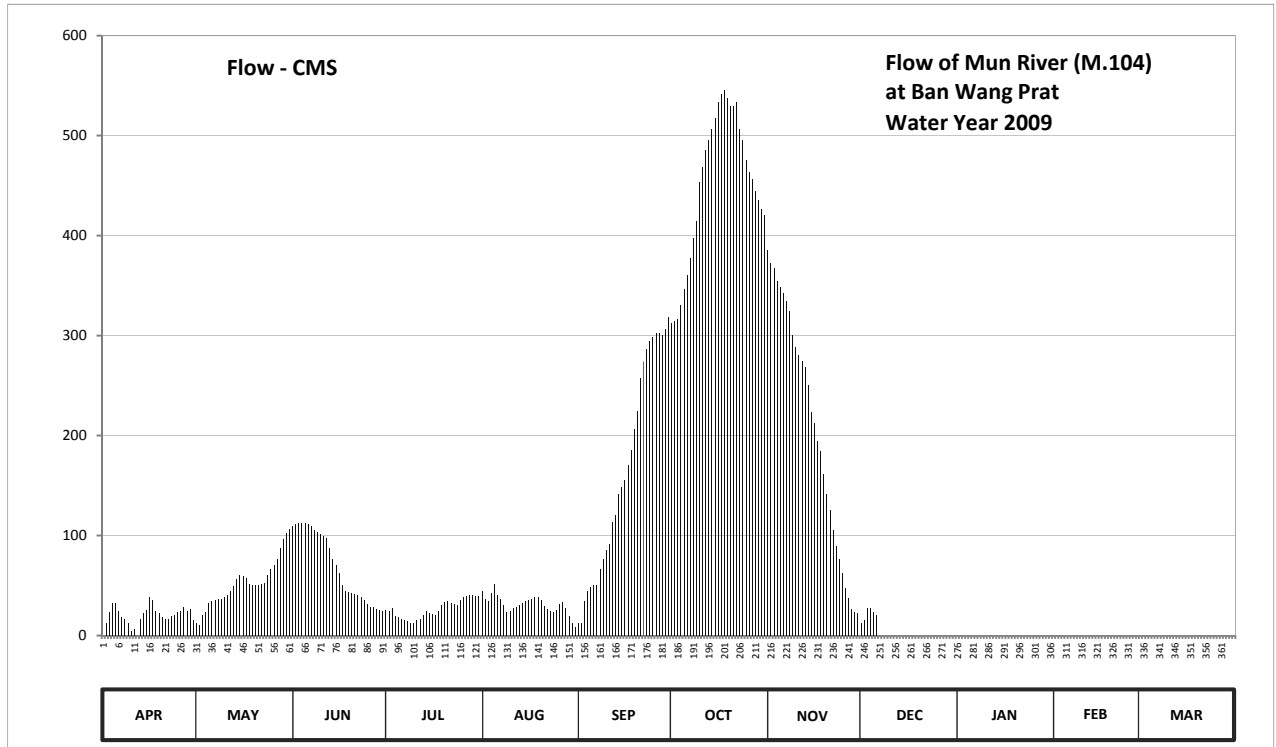
Lat 15 - 26 - 02 N Long 103 - 00 - 59 E

Location : on left bank at the bridge.

	Ban	Wang Prat	Amphoe	Khu Mueang	Changwat	Buri Ram
Drainage Area	24,841	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+129.760 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+140.340 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 means 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 good. Stage-discharge relation defined by 32 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.86	131.96	133.50	132.21	132.59	131.94	135.06	135.40	131.96	131.99	131.83	131.57	
2	131.94	131.91	133.51	132.19	132.44	131.96	135.07	135.35	132.01	131.98	131.83	131.56	
3	132.16	132.10	133.52	132.24	132.38	132.39	135.08	135.33	132.25	131.97	131.82	131.54	
4	132.36	132.17	133.52	132.08	132.54	132.60	135.15	135.27	132.24	131.97	131.82	131.54	
5	132.35	132.35	133.52	132.06	132.73	132.68	135.23	135.24	132.16	131.93	131.81	131.51	
6	132.18	132.38	133.51	132.04	132.52	132.70	135.30	135.21	132.10	131.96	131.79	131.49	
7	132.07	132.40	133.49	132.01	132.42	132.71	135.37	135.17	132.18	131.96	131.79	131.47	
8	132.03	132.44	133.45	131.98	132.30	132.96	135.44	135.12	132.24	131.97	131.78	131.46	
9	131.94	132.44	133.42	131.96	132.16	133.08	135.50	135.00	132.24	131.99	131.78	131.45	
10	131.80	132.47	133.39	131.95	132.18	133.20	135.63	134.94	132.24	131.98	131.77	131.44	
11	131.83	132.51	133.37	132.01	132.24	133.27	135.68	134.90	132.23	131.97	131.77	131.43	
12	131.28	132.60	133.34	132.04	132.27	133.54	135.73	134.86	132.25	131.97	131.76	131.42	
13	132.02	132.69	133.22	132.10	132.31	133.60	135.76	134.82	132.27	131.96	131.75	131.41	
14	132.14	132.80	133.08	132.19	132.35	133.81	135.79	134.70	132.29	131.96	131.74	131.40	
15	132.21	132.87	133.00	132.15	132.38	133.88	135.82	134.52	132.26	131.95	131.74	131.39	
16	132.46	132.85	132.91	132.13	132.41	133.95	135.86	134.45	132.23	131.93	131.73	131.38	
17	132.41	132.83	132.71	132.11	132.43	134.10	135.88	134.33	132.21	131.91	131.72	131.36	
18	132.19	132.72	132.59	132.19	132.46	134.25	135.89	134.24	132.18	131.90	131.71	131.34	
19	132.14	132.71	132.56	132.31	132.46	134.41	135.87	134.01	132.13	131.89	131.70	131.33	
20	132.07	132.70	132.54	132.37	132.41	134.53	135.85	133.82	132.09	131.88	131.68	131.32	
21	132.03	132.71	132.53	132.38	132.29	134.75	135.85	133.66	132.03	131.85	131.67	131.32	
22	132.04	132.72	132.51	132.34	132.22	134.86	135.86	133.44	131.98	131.85	131.67	131.31	
23	132.08	132.74	132.46	132.32	132.18	134.93	135.79	133.24	132.02	131.85	131.66	131.30	
24	132.11	132.88	132.40	132.30	132.17	134.97	135.76	133.08	132.10	131.85	131.65	131.30	
25	132.16	132.96	132.33	132.40	132.21	134.99	135.70	132.90	132.13	131.85	131.64	131.29	
26	132.20	133.01	132.28	132.46	132.32	135.01	135.66	132.65	132.11	131.84	131.62	131.28	
27	132.26	133.08	132.26	132.49	132.37	135.01	135.64	132.45	132.10	131.84	131.60	131.26	
28	132.18	133.22	132.22	132.51	132.24	135.00	135.60	132.22	132.07	131.84	131.59	131.25	
29	132.23	133.33	132.21	132.50	132.08	135.03	135.57	132.17	132.04	131.84		131.23	
30	132.01	133.41	132.18	132.49	131.95	135.09	135.54	132.14	132.01	131.84		131.22	
31		133.46		132.48	131.87		135.52		132.00	131.83		131.21	
Mean	132.09	132.69	132.92	132.23	132.32	133.84	135.60	134.15	132.14	131.91	131.73	131.38	
Max	132.46	133.46	133.52	132.51	132.73	135.09	135.89	135.40	132.29	131.99	131.83	131.57	135.89
Min	131.28	131.91	132.18	131.95	131.87	131.94	135.06	132.14	131.96	131.83	131.59	131.21	131.21
Annual Max Momentary Gage Height	135.89		m. (MSL.) ,				at 18.00 Hours , on Oct 17 , 2009						
Zero Gage at Bottom Elevation	129.76		m. (MSL.) ,			River Bed	126.91	m. (MSL)					
Left Bank Elevation		140.10		m. (MSL.) ,									
Right Bank Elevation		140.10		m. (MSL.) ,		Drainage Area	24841	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	13.00	110.00	25.50	44.50	12.00	312.00	385.00	13.00	0.00	0.00	0.00	
2	12.00	10.50	111.00	24.50	37.00	13.00	314.00	372.50	15.50	0.00	0.00	0.00	
3	23.00	20.00	112.00	27.00	34.00	34.50	316.00	367.50	27.50	0.00	0.00	0.00	
4	33.00	23.50	112.00	19.00	42.00	45.00	330.00	354.00	27.00	0.00	0.00	0.00	
5	32.50	32.50	112.00	18.00	51.80	49.00	346.00	348.00	23.00	0.00	0.00	0.00	
6	24.00	34.00	111.00	17.00	41.00	50.00	360.00	342.00	20.00	0.00	0.00	0.00	
7	18.50	35.00	109.20	15.50	36.00	50.60	377.50	334.00	0.00	0.00	0.00	0.00	
8	16.50	37.00	106.00	14.00	30.00	66.80	397.00	324.00	0.00	0.00	0.00	0.00	
9	12.00	37.00	103.60	13.00	23.00	76.40	415.00	300.00	0.00	0.00	0.00	0.00	
10	5.00	38.50	101.20	12.50	24.00	86.00	454.00	288.00	0.00	0.00	0.00	0.00	
11	6.50	40.50	99.60	15.50	27.00	91.60	469.00	280.00	0.00	0.00	0.00	0.00	
12	0.00	45.00	97.20	17.00	28.50	114.00	485.50	274.00	0.00	0.00	0.00	0.00	
13	16.00	49.50	87.60	20.00	30.50	120.00	496.00	268.00	0.00	0.00	0.00	0.00	
14	22.00	56.00	76.40	24.50	32.50	141.00	506.50	250.00	0.00	0.00	0.00	0.00	
15	25.50	60.20	70.00	22.50	34.00	148.00	518.00	223.00	0.00	0.00	0.00	0.00	
16	38.00	59.00	62.80	21.50	35.50	155.00	534.00	212.50	0.00	0.00	0.00	0.00	
17	35.50	57.80	50.60	20.50	36.50	170.00	542.00	194.50	0.00	0.00	0.00	0.00	
18	24.50	51.20	44.50	24.50	38.00	185.00	546.00	184.00	0.00	0.00	0.00	0.00	
19	22.00	50.60	43.00	30.50	38.00	206.50	538.00	161.00	0.00	0.00	0.00	0.00	
20	18.50	50.00	42.00	33.50	35.50	224.50	530.00	142.00	0.00	0.00	0.00	0.00	
21	16.50	50.60	41.50	34.00	29.50	257.50	530.00	126.00	0.00	0.00	0.00	0.00	
22	17.00	51.20	40.50	32.00	26.00	274.00	534.00	105.20	0.00	0.00	0.00	0.00	
23	19.00	52.40	38.00	31.00	24.00	286.00	506.50	89.20	0.00	0.00	0.00	0.00	
24	20.50	60.80	35.00	30.00	23.50	294.00	496.00	76.40	0.00	0.00	0.00	0.00	
25	23.00	66.80	31.50	35.00	25.50	298.00	475.00	62.00	0.00	0.00	0.00	0.00	
26	25.00	70.80	29.00	38.00	31.00	302.00	463.00	47.50	0.00	0.00	0.00	0.00	
27	28.00	76.40	28.00	39.50	33.50	302.00	457.00	37.50	0.00	0.00	0.00	0.00	
28	24.00	87.60	26.00	40.50	27.00	300.00	445.00	26.00	0.00	0.00	0.00	0.00	
29	26.50	96.40	25.50	40.00	19.00	306.00	436.00	23.50	0.00	0.00	0.00	0.00	
30	15.50	102.80	24.00	39.50	12.50	318.00	427.00	22.00	0.00	0.00	0.00	0.00	
31		106.80		39.00	8.50		421.00		0.00	0.00		0.00	
Total	600.00	1623.40	2080.70	814.50	959.30	4976.40	13977.00	6219.30	126.00	0.00	0.00	0.00	31376.60 CMSDAY
Mean	20.00	52.37	69.36	26.27	30.95	165.88	450.87	207.31	4.06	0.00	0.00	0.00	85.96 CMS
Max	38.00	106.80	112.00	40.50	51.80	318.00	546.00	385.00	27.50	0.00	0.00	0.00	546.00 CMS
Min	0.00	10.50	24.00	12.50	8.50	12.00	312.00	22.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	51.84	140.26	179.77	70.37	82.88	429.96	1207.61	537.35	10.89	0.00	0.00	0.00	2710.94 MCM
Momentary Peak	546.00 CMS. at 135.89 m. (MSL.) at 18.00 Hours , on Oct 17, 2009												
Runoff Yield	3.46 Liters/Second/Square KM.			Momentary Peak Yield				21.980 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Huai Tunglung at Ban Don Yai, Ubon Ratchathani (M.110)

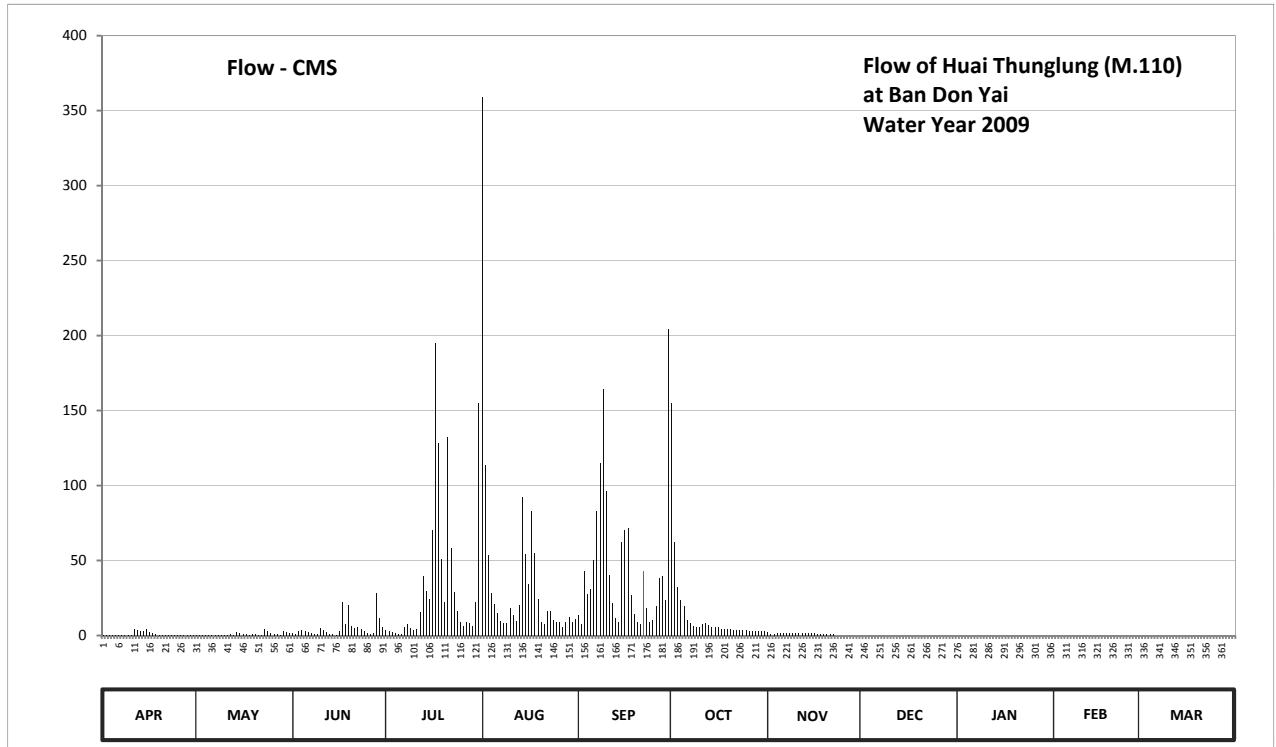
Lat 15 - 26 - 36 N Long 105 - 18 - 30 E

Location : on left bank at the bridge on trakan Phutphon - Khong Chiam Highway.

	Ban Don Yai	Amphoe Si Mueang Mai	Changwat Ubon Ratchathani
Drainage Area	570 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+120.070 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the footpath of the bridge.	Elevation	+130.460 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 means of 5 readings		
Period of Available Gage Records	1982 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The weirs situated about 10 kilometers upstream and downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.41	119.47	119.66	119.88	124.03	120.37	122.22	119.70	121.46	121.95	121.74	121.68	
2	119.41	119.46	119.59	119.81	121.78	120.17	121.14	119.62	121.51	121.94	121.74	121.68	
3	119.41	119.45	119.77	119.72	121.03	120.90	120.74	119.62	121.59	121.93	121.73	121.67	
4	119.41	119.44	119.87	119.68	120.67	120.65	120.57	119.65	121.68	121.92	121.72	121.67	
5	119.41	119.44	119.79	119.62	120.52	120.72	120.49	119.66	121.76	121.92	121.72	121.66	
6	119.41	119.43	119.72	119.61	120.40	120.99	120.30	119.69	121.83	121.91	121.72	121.66	
7	119.41	119.42	119.66	120.04	120.29	121.40	120.21	119.69	121.90	121.90	121.72	121.65	
8	119.41	119.42	119.60	120.17	120.23	121.80	120.12	119.68	121.95	121.89	121.70	121.65	
9	119.41	119.41	119.57	120.00	120.22	122.31	120.08	119.67	121.98	121.88	121.70	121.63	
10	119.41	119.41	120.02	119.87	120.46	121.57	120.09	119.67	122.03	121.87	121.70	121.62	
11	119.98	119.41	119.90	119.95	120.38	120.87	120.19	119.67	122.05	121.86	121.69	121.62	
12	119.86	119.58	119.75	120.41	120.27	120.54	120.21	119.67	122.06	121.85	121.69	121.62	
13	119.82	119.50	119.63	120.86	120.51	120.33	120.15	119.66	122.07	121.85	121.69	121.62	
14	119.80	119.75	119.57	120.69	121.52	120.24	120.09	119.65	122.07	121.84	121.69	121.62	
15	119.93	119.65	119.53	120.58	121.04	121.14	120.09	119.65	122.07	121.84	121.69	121.62	
16	119.75	119.60	119.79	121.24	120.79	121.24	120.08	119.64	122.07	121.83	121.69	121.62	
17	119.69	119.55	120.55	122.62	121.40	121.26	119.92	119.62	122.05	121.82	121.68	121.61	
18	119.56	119.51	120.19	121.95	121.05	120.64	119.94	119.61	122.04	121.81	121.67	121.60	
19	119.47	119.55	120.50	121.00	120.58	120.39	119.93	119.60	122.03	121.81	121.69	121.60	
20	119.46	119.54	120.12	120.55	120.26	120.24	119.92	119.59	122.02	121.81	121.71	121.60	
21	119.45	119.51	120.00	121.99	120.18	120.17	119.91	119.58	122.01	121.80	121.72	121.60	
22	119.45	119.52	120.06	121.09	120.42	120.90	119.90	119.57	122.00	121.80	121.71	121.60	
23	119.44	119.92	119.92	120.68	120.43	120.47	119.89	119.84	121.99	121.80	121.70	121.60	
24	119.44	119.85	119.80	120.43	120.31	120.26	119.87	120.15	121.97	121.79	121.69	121.60	
25	119.43	119.69	119.65	120.24	120.26	120.30	119.86	120.42	121.97	121.78	121.69	121.59	
26	119.42	119.58	119.54	120.11	120.26	120.49	119.85	120.65	121.97	121.77	121.69	121.58	
27	119.42	119.55	119.69	120.24	120.08	120.84	119.83	120.88	121.97	121.76	121.68	121.57	
28	119.42	119.53	120.67	120.22	120.26	120.86	119.79	121.07	121.96	121.75	121.68	121.57	
29	119.47	119.83	120.33	120.12	120.34	120.57	119.77	121.23	121.96	121.74		121.56	
30	119.47	119.71	120.08	120.55	120.24	122.71	119.79	121.35	121.95	121.73		121.56	
31		119.66		122.22	120.32		119.78		121.95	121.72		121.55	
Mean	119.53	119.56	119.88	120.52	120.66	120.84	120.15	119.93	121.93	121.83	121.70	121.62	
Max	119.98	119.92	120.67	122.62	124.03	122.71	122.22	121.35	122.07	121.95	121.74	121.68	124.03
Min	119.41	119.41	119.53	119.61	120.08	120.17	119.77	119.57	121.46	121.72	121.67	121.55	119.41
Annual Max Momentary Gage Height	124.54		m. (MSL.) ,				at 06.00 Hours , on Aug 1, 2009						
Zero Gage at Bottom Elevation	120.07		m. (MSL.) ,			River Bed	119.12		m. (MSL)				
Left Bank Elevation		130.19		m. (MSL.) ,									
Right Bank Elevation		130.21		m. (MSL.) ,		Drainage Area	570		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.35	1.57	3.61	358.90	13.50	155.00	1.95	0.00	0.00	0.00	0.00	
2	0.05	0.30	0.95	2.96	113.40	7.40	62.20	1.19	0.00	0.00	0.00	0.00	
3	0.05	0.25	2.59	2.13	53.40	43.00	32.00	1.19	0.00	0.00	0.00	0.00	
4	0.05	0.20	3.52	1.76	28.50	27.50	23.50	1.48	0.00	0.00	0.00	0.00	
5	0.05	0.20	2.78	1.19	21.00	31.00	19.50	1.57	0.00	0.00	0.00	0.00	
6	0.05	0.15	2.13	1.10	15.00	50.20	10.00	1.86	0.00	0.00	0.00	0.00	
7	0.05	0.10	1.57	5.28	9.80	83.00	8.20	1.86	0.00	0.00	0.00	0.00	
8	0.05	0.10	1.00	7.40	8.60	115.00	6.40	1.76	0.00	0.00	0.00	0.00	
9	0.05	0.05	0.85	4.80	8.40	164.00	5.76	1.67	0.00	0.00	0.00	0.00	
10	0.05	0.05	5.04	3.52	18.00	96.60	5.88	1.67	0.00	0.00	0.00	0.00	
11	4.60	0.05	3.80	4.30	14.00	40.60	7.80	1.67	0.00	0.00	0.00	0.00	
12	3.43	0.90	2.41	15.50	9.40	22.00	8.20	1.67	0.00	0.00	0.00	0.00	
13	3.06	0.50	1.28	39.80	20.50	11.50	7.00	1.57	0.00	0.00	0.00	0.00	
14	2.87	2.41	0.85	29.50	92.60	8.80	5.88	1.48	0.00	0.00	0.00	0.00	
15	4.10	1.48	0.65	24.00	54.20	62.20	5.88	1.48	0.00	0.00	0.00	0.00	
16	2.41	1.00	2.78	70.20	34.50	70.20	5.76	1.38	0.00	0.00	0.00	0.00	
17	1.86	0.75	22.50	195.00	83.00	71.80	4.00	1.19	0.00	0.00	0.00	0.00	
18	0.80	0.55	7.80	128.00	55.00	27.00	4.20	1.10	0.00	0.00	0.00	0.00	
19	0.35	0.75	20.00	51.00	24.00	14.50	4.10	1.00	0.00	0.00	0.00	0.00	
20	0.30	0.70	6.40	22.50	9.20	8.80	4.00	0.95	0.00	0.00	0.00	0.00	
21	0.25	0.55	4.80	132.00	7.60	7.40	3.90	0.90	0.00	0.00	0.00	0.00	
22	0.25	0.60	5.52	58.20	16.00	43.00	3.80	0.85	0.00	0.00	0.00	0.00	
23	0.20	4.00	4.00	29.00	16.50	18.50	3.71	0.00	0.00	0.00	0.00	0.00	
24	0.20	3.33	2.87	16.50	10.50	9.20	3.52	0.00	0.00	0.00	0.00	0.00	
25	0.15	1.86	1.48	8.80	9.20	10.00	3.43	0.00	0.00	0.00	0.00	0.00	
26	0.10	0.90	0.70	6.20	9.20	19.50	3.33	0.00	0.00	0.00	0.00	0.00	
27	0.10	0.75	1.86	8.80	5.76	38.20	3.15	0.00	0.00	0.00	0.00	0.00	
28	0.10	0.65	28.50	8.40	9.20	39.80	2.78	0.00	0.00	0.00	0.00	0.00	
29	0.35	3.15	11.50	6.40	12.00	23.50	2.59	0.00	0.00	0.00	0.00	0.00	
30	0.35	2.04	5.76	22.50	8.80	204.00	2.78	0.00	0.00	0.00	0.00	0.00	
31		1.57		155.00	11.00		2.69		0.00	0.00		0.00	
Total	26.33	30.24	157.46	1065.35	1147.16	1381.70	420.94	31.44	0.00	0.00	0.00	0.00	4260.62 CMSDAY
Mean	0.88	0.98	5.25	34.37	37.01	46.06	13.58	1.05	0.00	0.00	0.00	0.00	11.67 CMS
Max	4.60	4.00	28.50	195.00	358.90	204.00	155.00	1.95	0.00	0.00	0.00	0.00	358.90 CMS
Min	0.05	0.05	0.65	1.10	5.76	7.40	2.59	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.28	2.61	13.61	92.05	99.12	119.38	36.37	2.72	0.00	0.00	0.00	0.00	368.12 MCM
Momentary Peak	425.20 CMS. at 124.54 m. (MSL.) at 06.00 Hours , on Aug 1, 2009												
Runoff Yield	20.48 Liters/Second/Square KM.			Momentary Peak Yield				745,965 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Huai Takhong at Ban Khok Yai, Buri Ram (M.112)

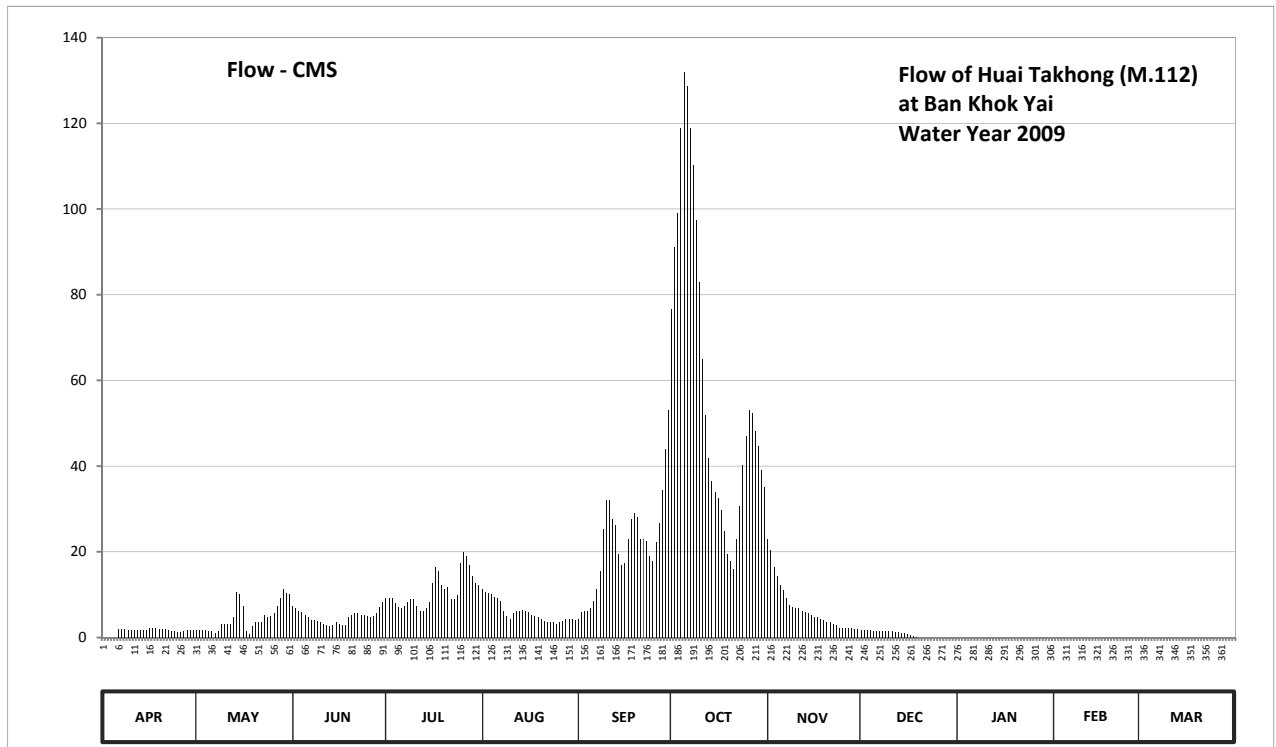
Lat 15 - 11 - 46 N Long 103 - 12 - 22 E

Location : on left bank at the bridge on highway at Ban Khok Yai.

	Ban	Khok Yai	Amphoe	Satuk	Changwat	Buri Ram
Drainage Area	1,232	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+131.180 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the gage site.				Elevation	+140.310 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 means of 5 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1983 - 1987, 1998 to date					
Rated by Flot	-					
Rated by Current Meter	1983 - 1987, 1998 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Ban Don Mon weir situated downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.81	135.79	135.98	136.04	136.11	135.88	137.32	136.38	135.79	135.58	135.32	135.13	
2	133.81	135.79	135.96	136.04	136.09	135.93	137.50	136.32	135.79	135.57	135.31	135.12	
3	133.81	135.79	135.94	136.04	136.08	135.94	137.60	136.23	135.79	135.56	135.31	135.11	
4	133.81	135.79	135.93	136.00	136.07	135.94	137.85	136.18	135.79	135.55	135.32	135.10	
5	133.81	135.78	135.91	135.97	136.05	135.96	138.01	136.13	135.78	135.54	135.34	135.08	
6	135.80	135.77	135.89	135.96	136.04	136.02	137.97	136.10	135.78	135.53	135.34	135.03	
7	135.80	135.75	135.87	135.98	136.02	136.11	137.85	136.04	135.78	135.52	135.34	135.01	
8	135.80	135.77	135.87	136.01	135.94	136.21	137.74	135.99	135.78	135.53	135.34	134.99	
9	135.79	135.84	135.86	136.03	135.90	136.43	137.58	135.97	135.78	135.53	135.34	134.97	
10	135.79	135.84	135.85	136.03	135.88	136.57	137.40	135.96	135.78	135.54	135.33	134.96	
11	135.79	135.84	135.84	135.98	135.92	136.57	137.15	135.96	135.77	135.53	135.33	134.95	
12	135.79	135.84	135.83	135.94	135.94	136.48	136.93	135.94	135.76	135.53	135.32	134.94	
13	135.79	135.89	135.82	135.94	135.94	136.45	136.76	135.93	135.76	135.52	135.31	134.93	
14	135.79	136.09	135.83	135.96	135.95	136.30	136.66	135.92	135.75	135.51	135.29	134.92	
15	135.79	136.07	135.85	136.01	135.94	136.24	136.61	135.91	135.75	135.50	135.28	134.91	
16	135.81	135.98	135.84	136.14	135.93	136.25	136.58	135.89	135.74	135.48	135.27	134.89	
17	135.81	135.78	135.83	136.23	135.91	136.38	136.52	135.89	135.73	135.46	135.25	134.88	
18	135.81	135.74	135.83	136.21	135.90	136.48	136.42	135.88	135.72	135.45	135.24	134.86	
19	135.80	135.82	135.89	136.13	135.89	136.51	136.30	135.87	135.71	135.44	135.23	134.85	
20	135.80	135.85	135.91	136.11	135.88	136.49	136.26	135.85	135.70	135.43	135.23	134.83	
21	135.80	135.85	135.92	136.12	135.86	136.38	136.22	135.85	135.69	135.43	135.22	134.82	
22	135.79	135.85	135.92	136.03	135.85	136.38	136.38	135.84	135.67	135.43	135.21	134.81	
23	135.78	135.91	135.91	136.03	135.85	136.37	136.54	135.83	135.66	135.43	135.20	134.80	
24	135.77	135.89	135.91	136.06	135.85	136.29	136.73	135.81	135.65	135.43	135.19	134.79	
25	135.76	135.90	135.90	136.25	135.84	136.26	136.85	135.81	135.64	135.43	135.18	134.77	
26	135.76	135.92	135.89	136.31	135.85	136.36	136.95	135.81	135.63	135.40	135.17	134.76	
27	135.78	135.98	135.90	136.29	135.86	136.46	136.94	135.81	135.62	135.38	135.15	134.74	
28	135.79	136.04	135.92	136.24	135.88	136.62	136.87	135.81	135.61	135.36	135.14	134.73	
29	135.79	136.11	135.97	136.18	135.88	136.80	136.81	135.80	135.60	135.35		134.72	
30	135.79	136.08	136.01	136.14	135.88	136.95	136.71	135.80	135.60	135.34		134.71	
31		136.07		136.13	135.87		136.63		135.59	135.33		134.71	
Mean	135.46	135.88	135.89	136.08	135.93	136.33	136.99	135.95	135.72	135.47	135.27	134.90	
Max	135.81	136.11	136.01	136.31	136.11	136.95	138.01	136.38	135.79	135.58	135.34	135.13	138.01
Min	133.81	135.74	135.82	135.94	135.84	135.88	136.22	135.80	135.59	135.33	135.14	134.71	133.81
Annual Max Momentary Gage Height	138.01		m. (MSL.) ,				at 06.00 Hours , on Oct 5,2009						
Zero Gage at Bottom Elevation	131.18		m. (MSL.) ,			River Bed	131.18	m. (MSL)					
Left Bank Elevation	140.17		m. (MSL.) ,										
Right Bank Elevation	140.18		m. (MSL.) ,			Drainage Area	1232	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.80	7.40	9.20	11.42	4.40	76.60	23.08	1.80	0.00	0.00	0.00	
2	0.00	1.80	6.80	9.20	10.70	5.90	91.00	20.32	1.80	0.00	0.00	0.00	
3	0.00	1.80	6.20	9.20	10.40	6.20	99.00	16.46	1.80	0.00	0.00	0.00	
4	0.00	1.80	5.90	8.00	10.10	6.20	119.00	14.36	1.80	0.00	0.00	0.00	
5	0.00	1.60	5.30	7.10	9.50	6.80	131.90	12.26	1.60	0.00	0.00	0.00	
6	2.00	1.40	4.70	6.80	9.20	8.60	128.60	11.00	1.60	0.00	0.00	0.00	
7	2.00	1.00	4.10	7.40	8.60	11.42	119.00	9.20	1.60	0.00	0.00	0.00	
8	2.00	1.40	4.10	8.30	6.20	15.62	110.20	7.70	1.60	0.00	0.00	0.00	
9	1.80	3.20	3.80	8.90	5.00	25.41	97.40	7.10	1.60	0.00	0.00	0.00	
10	1.80	3.20	3.50	8.90	4.40	32.06	83.00	6.80	1.60	0.00	0.00	0.00	
11	1.80	3.20	3.20	7.40	5.60	32.06	65.00	6.80	1.40	0.00	0.00	0.00	
12	1.80	3.20	2.90	6.20	6.20	27.76	51.80	6.20	1.20	0.00	0.00	0.00	
13	1.80	4.70	2.60	6.20	6.20	26.35	41.80	5.90	1.20	0.00	0.00	0.00	
14	1.80	10.70	2.90	6.80	6.50	19.40	36.50	5.60	1.00	0.00	0.00	0.00	
15	1.80	10.10	3.50	8.30	6.20	16.88	34.00	5.30	1.00	0.00	0.00	0.00	
16	2.30	7.40	3.20	12.68	5.90	17.30	32.54	4.70	0.80	0.00	0.00	0.00	
17	2.30	1.60	2.90	16.46	5.30	23.08	29.66	4.70	0.60	0.00	0.00	0.00	
18	2.30	0.80	2.90	15.62	5.00	27.76	24.94	4.40	0.40	0.00	0.00	0.00	
19	2.00	2.60	4.70	12.26	4.70	29.18	19.40	4.10	0.20	0.00	0.00	0.00	
20	2.00	3.50	5.30	11.42	4.40	28.23	17.72	3.50	0.00	0.00	0.00	0.00	
21	2.00	3.50	5.60	11.84	3.80	23.08	16.04	3.50	0.00	0.00	0.00	0.00	
22	1.80	3.50	5.60	8.90	3.50	23.08	23.08	3.20	0.00	0.00	0.00	0.00	
23	1.60	5.30	5.30	8.90	3.50	22.62	30.62	2.90	0.00	0.00	0.00	0.00	
24	1.40	4.70	5.30	9.80	3.50	18.98	40.15	2.30	0.00	0.00	0.00	0.00	
25	1.20	5.00	5.00	17.30	3.20	17.72	47.00	2.30	0.00	0.00	0.00	0.00	
26	1.20	5.60	4.70	19.86	3.50	22.16	53.00	2.30	0.00	0.00	0.00	0.00	
27	1.60	7.40	5.00	18.98	3.80	26.82	52.40	2.30	0.00	0.00	0.00	0.00	
28	1.80	9.20	5.60	16.88	4.40	34.50	48.20	2.30	0.00	0.00	0.00	0.00	
29	1.80	11.42	7.10	14.36	4.40	44.00	44.60	2.00	0.00	0.00	0.00	0.00	
30	1.80	10.40	8.30	12.68	4.40	53.00	39.05	2.00	0.00	0.00	0.00	0.00	
31		10.10		12.26	4.10		35.00		0.00	0.00		0.00	
Total	45.70	142.92	143.40	338.10	183.62	656.57	1838.20	204.58	24.60	0.00	0.00	0.00	3577.69 CMSDAY
Mean	1.52	4.61	4.78	10.91	5.92	21.89	59.30	6.82	0.79	0.00	0.00	0.00	9.80 CMS
Max	2.30	11.42	8.30	19.86	11.42	53.00	131.90	23.08	1.80	0.00	0.00	0.00	131.90 CMS
Min	0.00	0.80	2.60	6.20	3.20	4.40	16.04	2.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.95	12.35	12.39	29.21	15.87	56.73	158.82	17.68	2.13	0.00	0.00	0.00	309.11 MCM
Momentary Peak	131.90 CMS. at 138.01 m. (MSL.) at 06.00 Hours , on Oct 5 , 2009												
Runoff Yield	7.96 Liters/Second/Square KM.			Momentary Peak Yield			107.062 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Chiang Sa at Ban Khok Sakae Rat, Nakhon Ratchasima (M.119)

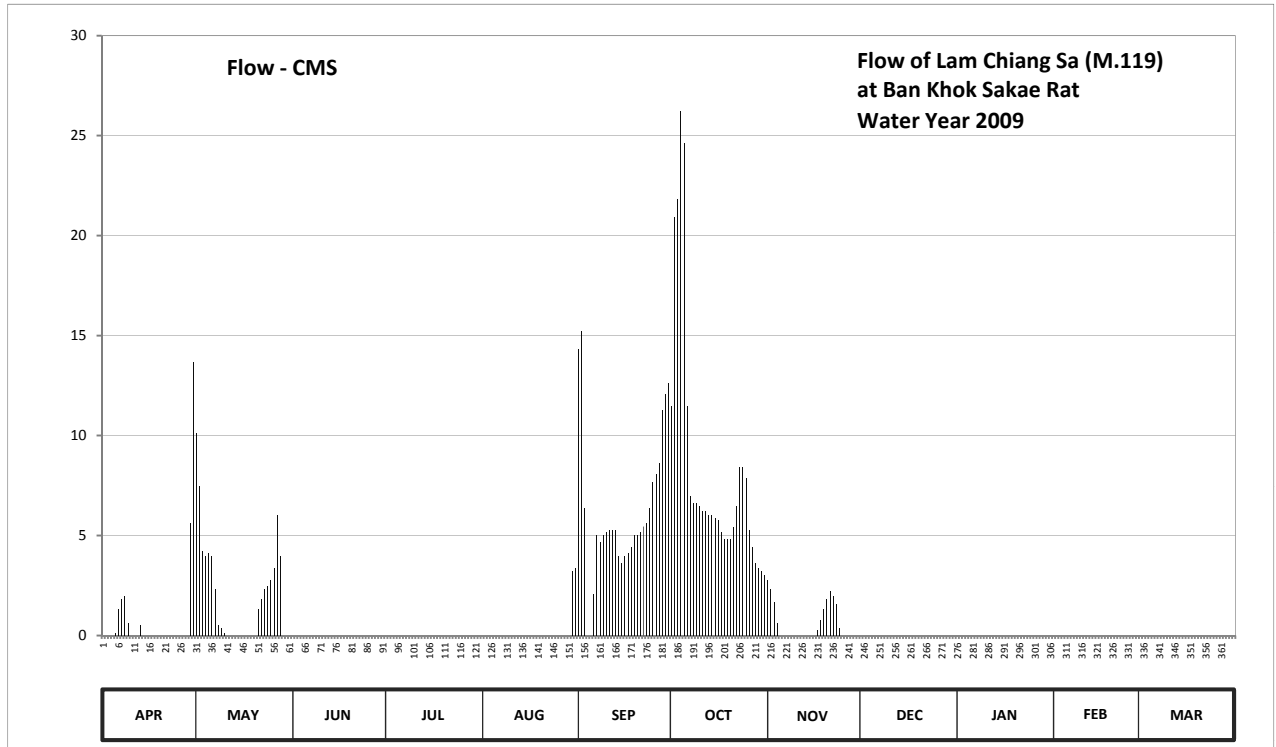
Lat 14 - 36 - 18 N Long 102 - 01 - 51 E

Location : on left bank at the bridge on Highway.

	Ban	Khok Sakae Rat	Amphoe	Pak Thong Chai	Changwat	Nakhon Ratchasima
Drainage Area	327	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+206.070	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 4 meters from the top staff gage.				Elevation	+211.290 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 means of 5 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
Rated by Current Meter	1983 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 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	207.71	209.16	207.29	207.33	207.02	209.37	209.23	208.71	208.21	207.35	206.45	206.07	
2	207.96	209.02	207.25	207.38	206.98	209.41	209.67	208.68	208.20	207.30	206.43	206.07	
3	208.15	208.81	207.23	207.60	206.93	208.95	209.71	208.63	208.17	207.24	206.40	206.07	
4	208.41	208.79	207.22	207.64	206.77	208.40	209.89	208.55	208.16	207.20	206.32	206.07	
5	208.51	208.80	207.22	207.67	206.76	208.24	209.83	208.43	208.12	207.16	206.27	206.07	
6	208.60	208.79	207.21	207.73	206.75	208.66	209.23	208.22	208.06	207.13	206.24	206.07	
7	208.64	208.68	207.21	207.85	206.71	208.86	208.99	208.07	208.01	207.12	206.19	206.07	
8	208.65	208.54	207.21	207.85	206.66	208.84	208.97	208.06	207.96	207.11	206.15	206.07	
9	208.55	208.53	207.21	207.86	206.60	208.86	208.97	208.09	207.91	207.11	206.12	206.07	
10	208.37	208.51	207.25	207.88	206.54	208.87	208.96	208.13	207.84	207.11	206.09	206.07	
11	208.36	208.48	207.63	207.88	206.45	208.88	208.94	208.19	207.84	207.11	206.08	206.07	
12	208.40	208.45	208.04	207.89	206.41	208.88	208.94	208.23	207.83	207.11	206.07	206.07	
13	208.54	208.43	207.85	207.94	206.40	208.88	208.93	208.28	207.82	207.08	206.07	206.07	
14	208.45	207.86	207.78	207.96	206.39	208.79	208.93	208.36	207.79	206.91	206.07	206.07	
15	208.34	207.56	207.74	207.97	206.42	208.77	208.92	208.42	207.74	206.82	206.07	206.07	
16	208.27	207.38	207.72	207.98	206.43	208.79	208.91	208.48	207.73	206.82	206.07	206.07	
17	208.25	207.37	207.80	207.95	206.44	208.80	208.87	208.52	207.72	206.82	206.07	206.07	
18	208.23	207.40	207.74	207.94	206.45	208.82	208.85	208.56	207.70	206.79	206.07	206.07	
19	208.19	207.43	207.64	207.94	206.45	208.86	208.85	208.60	207.67	206.76	206.07	206.07	
20	208.13	208.10	207.49	207.93	206.45	208.86	208.85	208.64	207.63	206.66	206.07	206.07	
21	208.02	208.60	207.36	207.94	206.46	208.87	208.89	208.67	207.61	206.63	206.07	206.07	
22	208.00	208.64	207.34	207.93	206.47	208.89	208.96	208.65	207.60	206.62	206.07	206.07	
23	207.98	208.68	207.32	207.89	206.49	208.90	209.07	208.62	207.58	206.63	206.07	206.07	
24	207.96	208.69	207.30	207.82	206.50	208.95	209.07	208.53	207.57	206.65	206.07	206.07	
25	207.95	208.71	207.30	207.65	206.51	209.03	209.04	208.44	207.57	206.63	206.07	206.07	
26	207.95	208.75	207.28	207.46	206.54	209.05	208.88	208.37	207.56	206.62	206.07	206.07	
27	207.93	208.93	207.23	207.39	206.56	209.08	208.82	208.31	207.54	206.60	206.07	206.07	
28	208.13	208.79	207.20	207.25	206.61	209.22	208.77	208.26	207.49	206.57	206.07	206.07	
29	208.90	207.91	207.17	207.24	208.10	209.26	208.75	208.22	207.44	206.52	206.07	206.07	
30	209.34	207.51	207.17	207.24	208.74	209.29	208.74	208.22	207.44	206.49	206.07	206.07	
31		207.31		207.25	208.75		208.73		207.43	206.42	206.07	206.07	
Mean	208.30	208.34	207.41	207.72	206.77	208.91	209.04	208.40	207.77	206.87	206.14	206.07	
Max	209.34	209.16	208.04	207.98	208.75	209.41	209.89	208.71	208.21	207.35	206.45	206.07	209.89
Min	207.71	207.31	207.17	207.24	206.39	208.24	208.73	208.06	207.43	206.42	206.07	206.07	206.07
Annual Max Momentary Gage Height		209.97	m. (MSL.) ,			at 06.00 Hours ,	on Oct 5, 2009						
Zero Gage at Bottom Elevation		206.07	m. (MSL.) ,			River Bed	205.31	m. (MSL)					
Left Bank Elevation			212.45	m. (MSL.) ,									
Right Bank Elevation			212.26	m. (MSL.) ,		Drainage Area	327	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	10.14	0.00	0.00	0.00	14.34	11.47	2.75	0.00	0.00	0.00	0.00	
2	0.00	7.48	0.00	0.00	0.00	15.22	20.94	2.34	0.00	0.00	0.00	0.00	
3	0.00	4.25	0.00	0.00	0.00	6.35	21.82	1.69	0.00	0.00	0.00	0.00	
4	0.00	3.95	0.00	0.00	0.00	0.00	26.23	0.65	0.00	0.00	0.00	0.00	
5	0.13	4.10	0.00	0.00	0.00	0.00	24.61	0.00	0.00	0.00	0.00	0.00	
6	1.30	3.95	0.00	0.00	0.00	2.08	11.47	0.00	0.00	0.00	0.00	0.00	
7	1.82	2.34	0.00	0.00	0.00	5.00	6.95	0.00	0.00	0.00	0.00	0.00	
8	1.95	0.52	0.00	0.00	0.00	4.70	6.65	0.00	0.00	0.00	0.00	0.00	
9	0.65	0.39	0.00	0.00	0.00	5.00	6.65	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.13	0.00	0.00	0.00	5.15	6.50	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	5.30	6.20	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	5.30	6.20	0.00	0.00	0.00	0.00	0.00	
13	0.52	0.00	0.00	0.00	0.00	5.30	6.05	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	3.95	6.05	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	3.65	5.90	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	3.95	5.75	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	4.10	5.15	0.26	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	4.40	4.85	0.78	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	5.00	4.85	1.30	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	5.00	4.85	1.82	0.00	0.00	0.00	0.00	
21	0.00	1.30	0.00	0.00	0.00	5.15	5.45	2.21	0.00	0.00	0.00	0.00	
22	0.00	1.82	0.00	0.00	0.00	5.45	6.50	1.95	0.00	0.00	0.00	0.00	
23	0.00	2.34	0.00	0.00	0.00	5.60	8.43	1.56	0.00	0.00	0.00	0.00	
24	0.00	2.47	0.00	0.00	0.00	6.35	8.43	0.39	0.00	0.00	0.00	0.00	
25	0.00	2.75	0.00	0.00	0.00	7.67	7.86	0.00	0.00	0.00	0.00	0.00	
26	0.00	3.35	0.00	0.00	0.00	8.05	5.30	0.00	0.00	0.00	0.00	0.00	
27	0.00	6.05	0.00	0.00	0.00	8.62	4.40	0.00	0.00	0.00	0.00	0.00	
28	0.00	3.95	0.00	0.00	0.00	11.28	3.65	0.00	0.00	0.00	0.00	0.00	
29	5.60	0.00	0.00	0.00	0.00	12.04	3.35	0.00	0.00	0.00	0.00	0.00	
30	13.68	0.00	0.00	0.00	3.20	12.61	3.20	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	3.35	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
Total	25.65	61.28	0.00	0.00	6.55	186.61	258.76	17.70	0.00	0.00	0.00	0.00	556.55 CMSDAY
Mean	0.86	1.98	0.00	0.00	0.21	6.22	8.35	0.59	0.00	0.00	0.00	0.00	1.52 CMS
Max	13.68	10.14	0.00	0.00	3.35	15.22	26.23	2.75	0.00	0.00	0.00	0.00	26.23 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.22	5.30	0.00	0.00	0.57	16.12	22.36	1.53	0.00	0.00	0.00	0.00	48.09 MCM
Momentary Peak	28.39 CMS. at 209.97 m. (MSL.) at 06.00 Hours , on Oct 5, 2009												
Runoff Yield	4.66 Liters/Second/Square KM.			Momentary Peak Yield				72.931 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Huai TaThieo at Ban Na Hai, Ubon Ratchathani (M.127)

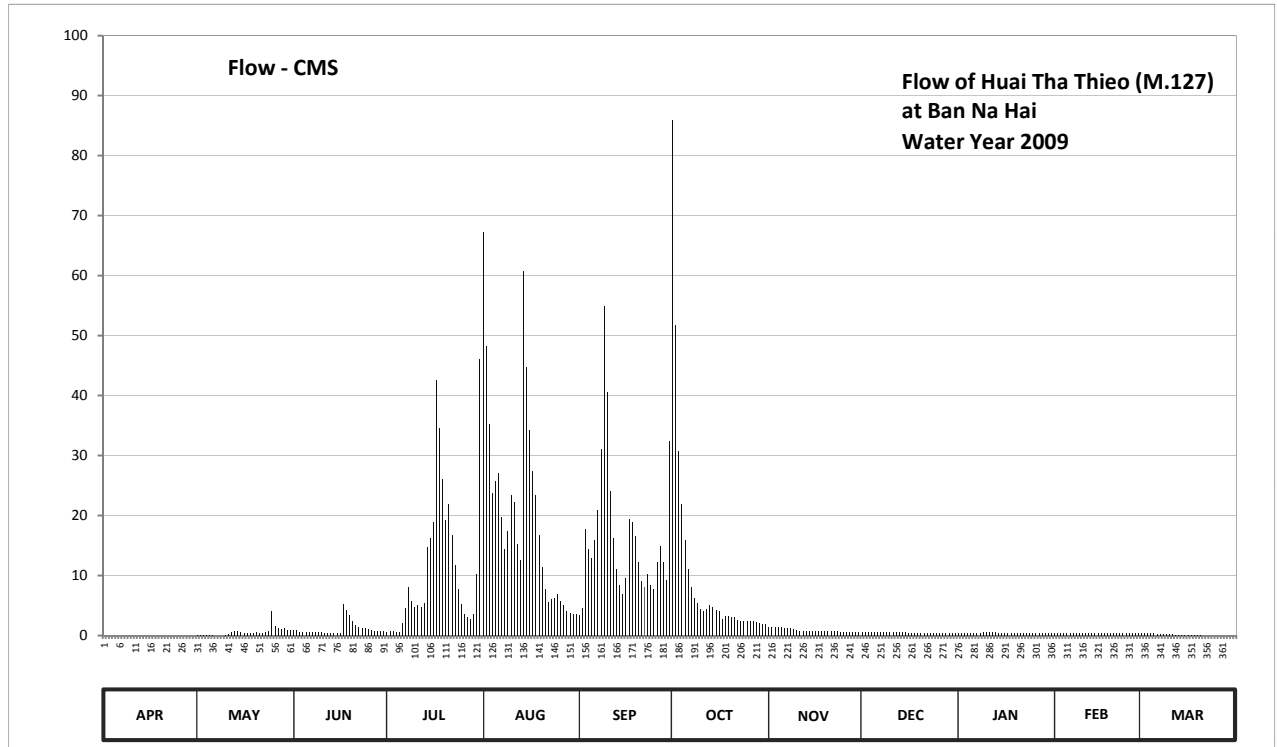
Lat 15 - 38 - 37 N Long 104 - 55 - 57 E

Location : on left bank at the bridge on road.

	Ban	Na Hai	Amphoe	Trakan Phutphon	Changwat	Ubon Ratchathani
Drainage Area	424	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+115.340 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank downstream side at the abutment of the bridge.				Elevation	+126.870 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. The weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.32	116.52	116.69	116.62	118.83	116.87	119.30	116.74	116.60	116.58	116.59	116.57	
2	116.32	116.52	116.69	116.63	118.32	116.93	118.42	116.74	116.60	116.58	116.59	116.57	
3	116.31	116.52	116.62	116.63	117.95	117.39	117.82	116.74	116.60	116.58	116.59	116.57	
4	116.31	116.51	116.62	116.60	117.59	117.28	117.53	116.74	116.60	116.58	116.59	116.57	
5	116.31	116.51	116.60	116.62	117.66	117.23	117.33	116.74	116.60	116.58	116.59	116.57	
6	116.30	116.51	116.60	116.80	117.70	117.33	117.17	116.73	116.60	116.57	116.59	116.56	
7	116.30	116.50	116.60	116.93	117.46	117.50	117.07	116.73	116.60	116.57	116.59	116.56	
8	116.30	116.50	116.60	117.07	117.28	117.83	117.01	116.72	116.60	116.57	116.59	116.56	
9	116.29	116.50	116.60	116.99	117.38	118.51	116.97	116.71	116.60	116.60	116.59	116.55	
10	116.29	116.52	116.60	116.94	117.58	118.10	116.92	116.68	116.60	116.60	116.59	116.54	
11	116.32	116.54	116.59	116.95	117.54	117.60	116.90	116.66	116.60	116.60	116.59	116.54	
12	116.32	116.62	116.58	116.94	117.31	117.34	116.92	116.65	116.60	116.60	116.59	116.52	
13	116.32	116.63	116.58	116.97	117.22	117.17	116.95	116.65	116.60	116.60	116.59	116.52	
14	116.36	116.63	116.57	117.29	118.67	117.08	116.94	116.65	116.60	116.59	116.59	116.52	
15	116.37	116.60	116.57	117.34	118.22	117.03	116.91	116.64	116.60	116.59	116.59	116.52	
16	116.37	116.59	116.58	117.43	117.92	117.12	116.90	116.64	116.59	116.59	116.59	116.52	
17	116.38	116.59	116.96	118.16	117.71	117.45	116.84	116.64	116.59	116.59	116.58	116.52	
18	116.38	116.58	116.91	117.93	117.58	117.43	116.86	116.64	116.59	116.59	116.58	116.52	
19	116.37	116.57	116.87	117.67	117.36	117.35	116.86	116.64	116.59	116.59	116.58	116.52	
20	116.34	116.60	116.82	117.44	117.18	117.21	116.85	116.64	116.59	116.59	116.58	116.51	
21	116.34	116.59	116.78	117.53	117.06	117.10	116.85	116.64	116.59	116.59	116.58	116.50	
22	116.39	116.59	116.75	117.36	116.98	117.07	116.83	116.64	116.59	116.59	116.58	116.50	
23	116.44	116.62	116.72	117.19	117.00	117.14	116.82	116.64	116.59	116.59	116.58	116.50	
24	116.43	116.66	116.72	117.06	117.01	117.08	116.82	116.62	116.58	116.59	116.57	116.49	
25	116.42	116.90	116.71	116.96	117.03	117.06	116.82	116.62	116.58	116.59	116.57	116.49	
26	116.42	116.76	116.67	116.88	116.99	117.21	116.82	116.62	116.58	116.59	116.57	116.48	
27	116.42	116.72	116.64	116.85	116.95	117.30	116.82	116.61	116.58	116.59	116.57	116.47	
28	116.42	116.70	116.64	116.84	116.90	117.21	116.81	116.60	116.58	116.59	116.57	116.47	
29	116.43	116.72	116.64	116.88	116.89	117.11	116.80	116.60	116.58	116.59		116.45	
30	116.48	116.68	116.64	117.14	116.88	117.87	116.79	116.60	116.58	116.59		116.45	
31		116.68		118.26	116.88		116.79		116.58	116.59		116.45	
Mean	116.36	116.60	116.67	117.13	117.45	117.33	117.08	116.66	116.59	116.59	116.58	116.52	
Max	116.48	116.90	116.96	118.26	118.83	118.51	119.30	116.74	116.60	116.60	116.59	116.57	119.30
Min	116.29	116.50	116.57	116.60	116.88	116.87	116.79	116.60	116.58	116.57	116.57	116.45	116.29
Annual Max Momentary Gage Height	119.58		m. (MSL.) ,				at 09.00 Hours , on Oct 1, 2009						
Zero Gage at Bottom Elevation	115.34		m. (MSL.) ,			River Bed	114.83		m. (MSL)				
Left Bank Elevation		126.61		m. (MSL.) ,									
Right Bank Elevation		126.02		m. (MSL.) ,		Drainage Area	424		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.10	0.95	0.60	67.20	3.40	86.00	1.40	0.50	0.40	0.45	0.35	
2	0.00	0.10	0.95	0.65	48.20	4.60	51.70	1.40	0.50	0.40	0.45	0.35	
3	0.00	0.10	0.60	0.65	35.25	17.70	30.70	1.40	0.50	0.40	0.45	0.35	
4	0.00	0.05	0.60	0.50	23.70	14.40	21.90	1.40	0.50	0.40	0.45	0.35	
5	0.00	0.05	0.50	0.60	25.80	12.90	15.90	1.40	0.50	0.40	0.45	0.35	
6	0.00	0.05	0.50	2.00	27.00	15.90	11.10	1.30	0.50	0.35	0.45	0.30	
7	0.00	0.00	0.50	4.60	19.80	21.00	8.10	1.30	0.50	0.35	0.45	0.30	
8	0.00	0.00	0.50	8.10	14.40	31.05	6.30	1.20	0.50	0.35	0.45	0.30	
9	0.00	0.00	0.50	5.80	17.40	54.85	5.40	1.10	0.50	0.50	0.45	0.25	
10	0.00	0.10	0.50	4.80	23.40	40.50	4.40	0.90	0.50	0.50	0.45	0.20	
11	0.00	0.20	0.45	5.00	22.20	24.00	4.00	0.80	0.50	0.50	0.45	0.20	
12	0.00	0.60	0.40	4.80	15.30	16.20	4.40	0.75	0.50	0.50	0.45	0.10	
13	0.00	0.65	0.40	5.40	12.60	11.10	5.00	0.75	0.50	0.50	0.45	0.10	
14	0.00	0.65	0.35	14.70	60.80	8.40	4.80	0.75	0.50	0.45	0.45	0.10	
15	0.00	0.50	0.35	16.20	44.70	6.90	4.20	0.70	0.50	0.45	0.45	0.10	
16	0.00	0.45	0.40	18.90	34.20	9.60	4.00	0.70	0.45	0.45	0.45	0.10	
17	0.00	0.45	5.20	42.60	27.30	19.50	2.80	0.70	0.45	0.45	0.40	0.10	
18	0.00	0.40	4.20	34.55	23.40	18.90	3.20	0.70	0.45	0.45	0.40	0.10	
19	0.00	0.35	3.40	26.10	16.80	16.50	3.20	0.70	0.45	0.45	0.40	0.10	
20	0.00	0.50	2.40	19.20	11.40	12.30	3.00	0.70	0.45	0.45	0.40	0.05	
21	0.00	0.45	1.80	21.90	7.80	9.00	3.00	0.70	0.45	0.45	0.40	0.00	
22	0.00	0.45	1.50	16.80	5.60	8.10	2.60	0.70	0.45	0.45	0.40	0.00	
23	0.00	0.60	1.20	11.70	6.00	10.20	2.40	0.70	0.45	0.45	0.40	0.00	
24	0.00	0.80	1.20	7.80	6.30	8.40	2.40	0.60	0.40	0.45	0.35	0.00	
25	0.00	4.00	1.10	5.20	6.90	7.80	2.40	0.60	0.40	0.45	0.35	0.00	
26	0.00	1.60	0.85	3.60	5.80	12.30	2.40	0.60	0.40	0.45	0.35	0.00	
27	0.00	1.20	0.70	3.00	5.00	15.00	2.40	0.55	0.40	0.45	0.35	0.00	
28	0.00	1.00	0.70	2.80	4.00	12.30	2.20	0.50	0.40	0.45	0.35	0.00	
29	0.00	1.20	0.70	3.60	3.80	9.30	2.00	0.50	0.40	0.45	0.35	0.00	
30	0.00	0.90	0.70	10.20	3.60	32.45	1.90	0.50	0.40	0.45	0.35	0.00	
31	0.00	0.90	46.10	3.60	1.90	0.40	0.45	0.00	0.00	0.00	0.00	0.00	
Total	0.00	18.40	34.10	348.45	629.25	484.55	305.70	26.00	14.30	13.65	11.75	4.15	1890.30 CMSDAY
Mean	0.00	0.59	1.14	11.24	20.30	16.15	9.86	0.87	0.46	0.44	0.42	0.13	5.18 CMS
Max	0.00	4.00	5.20	46.10	67.20	54.85	86.00	1.40	0.50	0.50	0.45	0.35	86.00 CMS
Min	0.00	0.00	0.35	0.50	3.60	3.40	1.90	0.50	0.40	0.35	0.35	0.00	0.00 CMS
Runoff	0.00	1.59	2.95	30.11	54.37	41.87	26.41	2.25	1.24	1.18	1.02	0.36	163.32 MCM
Momentary Peak	98.60 CMS, at 119.58 m.(MSL) , at 09.00 Hours , on Oct 1, 2009												
Runoff Yield	12.21 Liters/Second/Square KM.			Momentary Peak Yield			232.547 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Saphu at Ban Mon, Ubon Ratchathani (M.132)

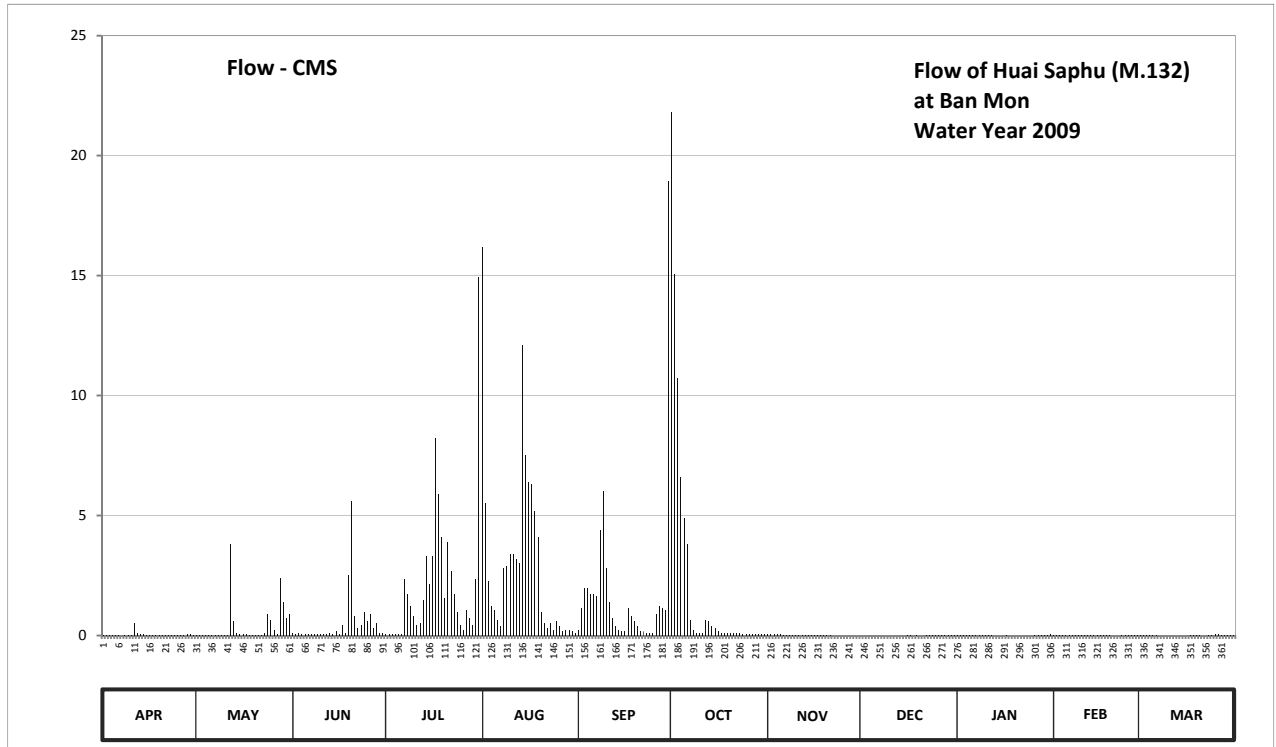
Lat 15 - 34 - 46 N Long 105 - 04 - 00 E

Location : on left bank at the bridge on highway at Ban Mon.

	Ban Mon	Amphoe Trakan Phutphon	Changwat Ubon Ratchathani
Drainage Area	101 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+116.890 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the footpath of the bridge.	Elevation	+125.200 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 means 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	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by Lam Phra Phloeng Dam about 5 kilometers upstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.46	117.46	117.58	117.54	119.02	117.62	119.35	117.52	117.39	117.44	117.43	117.43	
2	117.45	117.45	117.56	117.54	118.20	117.74	118.94	117.51	117.39	117.45	117.43	117.43	
3	117.45	117.43	117.57	117.53	117.87	117.84	118.63	117.51	117.38	117.45	117.41	117.43	
4	117.46	117.42	117.55	117.54	117.75	117.84	118.31	117.51	117.37	117.45	117.42	117.42	
5	117.42	117.41	117.56	117.53	117.73	117.81	118.14	117.51	117.36	117.45	117.43	117.42	
6	117.41	117.41	117.56	117.55	117.68	117.81	118.03	117.49	117.36	117.45	117.43	117.41	
7	117.40	117.41	117.53	117.88	117.64	117.80	117.68	117.48	117.35	117.44	117.43	117.40	
8	117.41	117.41	117.53	117.81	117.93	118.09	117.62	117.47	117.35	117.42	117.43	117.40	
9	117.45	117.41	117.51	117.75	117.94	118.25	117.59	117.46	117.35	117.42	117.48	117.39	
10	117.43	117.41	117.51	117.70	117.99	117.93	117.59	117.46	117.34	117.43	117.45	117.39	
11	117.66	117.43	117.51	117.65	117.99	117.77	117.59	117.45	117.34	117.43	117.48	117.40	
12	117.59	118.03	117.55	117.66	117.97	117.69	117.68	117.45	117.34	117.43	117.44	117.40	
13	117.51	117.67	117.57	117.78	117.95	117.64	117.67	117.44	117.34	117.40	117.43	117.39	
14	117.50	117.57	117.54	117.98	118.73	117.62	117.64	117.44	117.34	117.39	117.43	117.39	
15	117.49	117.53	117.61	117.86	118.40	117.61	117.63	117.44	117.38	117.39	117.43	117.39	
16	117.49	117.54	117.53	117.98	118.29	117.61	117.61	117.44	117.46	117.40	117.42	117.39	
17	117.48	117.50	117.65	118.45	118.28	117.74	117.60	117.43	117.44	117.41	117.42	117.42	
18	117.46	117.48	117.58	118.24	118.17	117.70	117.58	117.43	117.40	117.39	117.41	117.42	
19	117.45	117.49	117.90	118.06	118.06	117.67	117.58	117.42	117.43	117.39	117.41	117.41	
20	117.43	117.49	118.21	117.79	117.72	117.64	117.58	117.42	117.40	117.39	117.40	117.41	
21	117.41	117.49	117.70	118.04	117.66	117.61	117.58	117.42	117.39	117.39	117.40	117.40	
22	117.44	117.49	117.63	117.92	117.63	117.61	117.57	117.40	117.47	117.39	117.40	117.40	
23	117.45	117.59	117.65	117.81	117.66	117.60	117.57	117.39	117.48	117.39	117.42	117.41	
24	117.45	117.71	117.72	117.72	117.62	117.60	117.56	117.39	117.47	117.39	117.45	117.43	
25	117.43	117.68	117.67	117.65	117.67	117.60	117.55	117.39	117.46	117.39	117.45	117.52	
26	117.42	117.62	117.71	117.62	117.64	117.71	117.55	117.39	117.46	117.42	117.45	117.51	
27	117.41	117.56	117.63	117.73	117.61	117.75	117.55	117.39	117.45	117.47	117.44	117.45	
28	117.55	117.89	117.66	117.69	117.62	117.74	117.55	117.39	117.46	117.47	117.43	117.44	
29	117.50	117.77	117.59	117.65	117.62	117.73	117.55	117.39	117.47	117.43		117.44	
30	117.48	117.69	117.58	117.88	117.61	119.19	117.55	117.39	117.45	117.44		117.43	
31		117.71	118.93	117.59			117.55		117.44	117.56		117.43	
Mean	117.46	117.55	117.62	117.82	117.91	117.79	117.78	117.44	117.40	117.42	117.43	117.42	
Max	117.66	118.03	118.21	118.93	119.02	119.19	119.35	117.52	117.48	117.56	117.48	117.52	119.35
Min	117.40	117.41	117.51	117.53	117.59	117.60	117.55	117.39	117.34	117.39	117.40	117.39	117.34
Annual Max Momentary Gage Height	119.73		m. (MSL.) ,				at 17.00 Hours, on Jul 31,2009						
Zero Gage at Bottom Elevation	116.89		m. (MSL.) ,			River Bed	117.14	m. (MSL)					
Left Bank Elevation	125.19		m. (MSL.) ,										
Right Bank Elevation	125.19		m. (MSL.) ,			Drainage Area	101	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.03	0.09	0.07	16.18	0.24	21.80	0.06	0.00	0.02	0.01	0.01	
2	0.02	0.02	0.08	0.07	5.50	1.14	15.06	0.06	0.00	0.02	0.01	0.01	
3	0.02	0.01	0.09	0.06	2.25	1.99	10.72	0.06	0.00	0.02	0.01	0.01	
4	0.03	0.01	0.08	0.07	1.23	1.99	6.60	0.06	0.00	0.02	0.01	0.01	
5	0.01	0.01	0.08	0.06	1.06	1.73	4.90	0.06	0.00	0.02	0.01	0.01	
6	0.01	0.01	0.08	0.08	0.66	1.73	3.80	0.04	0.00	0.02	0.01	0.01	
7	0.00	0.01	0.06	2.33	0.38	1.65	0.66	0.04	0.00	0.02	0.01	0.00	
8	0.01	0.01	0.06	1.73	2.80	4.40	0.24	0.04	0.00	0.01	0.01	0.00	
9	0.02	0.01	0.06	1.23	2.90	6.00	0.09	0.03	0.00	0.01	0.04	0.00	
10	0.01	0.01	0.06	0.80	3.40	2.80	0.09	0.03	0.00	0.01	0.02	0.00	
11	0.52	0.01	0.06	0.45	3.40	1.39	0.09	0.02	0.00	0.01	0.04	0.00	
12	0.09	3.80	0.08	0.52	3.20	0.73	0.66	0.02	0.00	0.01	0.02	0.00	
13	0.06	0.59	0.09	1.48	3.00	0.38	0.59	0.02	0.00	0.00	0.01	0.00	
14	0.05	0.09	0.07	3.30	12.12	0.24	0.38	0.02	0.00	0.00	0.01	0.00	
15	0.04	0.06	0.17	2.16	7.50	0.17	0.31	0.02	0.00	0.00	0.01	0.00	
16	0.04	0.07	0.06	3.30	6.40	0.17	0.17	0.02	0.03	0.00	0.01	0.00	
17	0.04	0.05	0.45	8.20	6.30	1.14	0.10	0.01	0.02	0.01	0.01	0.01	
18	0.03	0.04	0.09	5.90	5.20	0.80	0.09	0.01	0.00	0.00	0.01	0.01	
19	0.02	0.04	2.50	4.10	4.10	0.59	0.09	0.01	0.01	0.00	0.01	0.01	
20	0.01	0.04	5.60	1.56	0.97	0.38	0.09	0.01	0.00	0.00	0.00	0.01	
21	0.01	0.04	0.80	3.90	0.52	0.17	0.09	0.01	0.00	0.00	0.00	0.00	
22	0.02	0.04	0.31	2.70	0.31	0.17	0.09	0.00	0.04	0.00	0.00	0.00	
23	0.02	0.09	0.45	1.73	0.52	0.10	0.09	0.00	0.04	0.00	0.01	0.01	
24	0.02	0.89	0.97	0.97	0.24	0.10	0.08	0.00	0.04	0.00	0.02	0.01	
25	0.01	0.66	0.59	0.45	0.59	0.10	0.08	0.00	0.03	0.00	0.02	0.06	
26	0.01	0.24	0.89	0.24	0.38	0.89	0.08	0.00	0.03	0.01	0.02	0.06	
27	0.01	0.08	0.31	1.06	0.17	1.23	0.08	0.00	0.02	0.04	0.02	0.02	
28	0.08	2.41	0.52	0.73	0.24	1.14	0.08	0.00	0.03	0.04	0.01	0.02	
29	0.05	1.39	0.09	0.45	0.24	1.06	0.08	0.00	0.04	0.01		0.02	
30	0.04	0.73	0.09	2.33	0.17	18.92	0.08	0.00	0.02	0.02		0.01	
31		0.89		14.92	0.09		0.08		0.02	0.08		0.01	
Total	1.33	12.38	14.93	66.95	92.02	53.54	67.44	0.65	0.37	0.40	0.37	0.32	310.70 CMSDAY
Mean	0.04	0.40	0.50	2.16	2.97	1.78	2.18	0.02	0.01	0.01	0.01	0.01	0.85 CMS
Max	0.52	3.80	5.60	14.92	16.18	18.92	21.80	0.06	0.04	0.08	0.04	0.06	21.80 CMS
Min	0.00	0.01	0.06	0.06	0.09	0.10	0.08	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.12	1.07	1.29	5.78	7.95	4.63	5.83	0.06	0.03	0.04	0.03	0.03	26.84 MCM
Momentary Peak	28.64 CMS, at 119.73 m. (MSL) , at 17.00 Hours, on Jul 31, 2009												
Runoff Yield	8.43 Liters/Second/Square KM.			Momentary Peak Yield			283.564 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Nua at Ban Raka, Si Sa Ket (M.137)

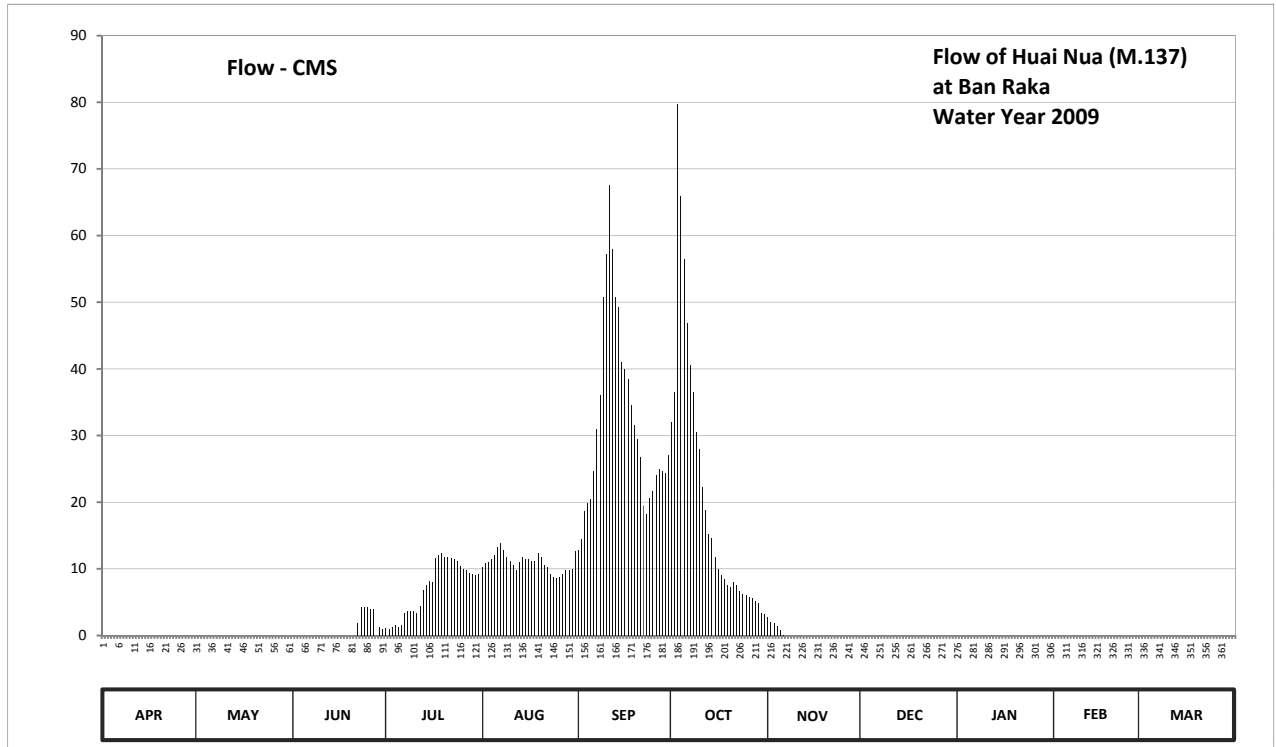
Lat 14 - 47 - 28 N Long 104 - 10 - 35 E

Location : on left bank at the bridge on road.

	Ban Raka	Amphoe Khu Khan	Changwat Si Sa Ket
Drainage Area	478 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+139.160 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank upstream side at the abutment of the bridge.	Elevation	+143.750 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 means of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.02	139.03	139.16	140.11	140.61	140.73	141.30	140.24	139.78	139.60	139.47	139.33	
2	139.02	139.03	139.16	140.10	140.64	140.78	141.39	140.20	139.78	139.60	139.47	139.32	
3	139.01	139.02	139.17	140.12	140.65	140.92	141.83	140.18	139.78	139.60	139.47	139.31	
4	139.01	139.02	139.17	140.15	140.67	140.96	141.75	140.14	139.78	139.59	139.46	139.30	
5	139.01	139.02	139.18	140.13	140.70	140.98	141.68	140.08	139.78	139.59	139.46	139.29	
6	139.00	139.01	139.18	140.15	140.74	141.12	141.56	140.01	139.77	139.59	139.45	139.29	
7	139.00	139.01	139.19	140.27	140.76	141.28	141.47	139.99	139.77	139.59	139.45	139.28	
8	139.00	139.01	139.20	140.28	140.73	141.38	141.39	139.98	139.77	139.59	139.44	139.28	
9	138.99	139.01	139.21	140.28	140.69	141.61	141.27	139.97	139.77	139.58	139.43	139.27	
10	138.99	139.01	139.26	140.28	140.66	141.69	141.22	139.96	139.77	139.58	139.42	139.26	
11	138.99	139.01	139.39	140.27	140.63	141.76	141.04	139.94	139.76	139.57	139.41	139.25	
12	138.98	139.01	139.48	140.32	140.59	141.70	140.93	139.92	139.74	139.57	139.40	139.24	
13	138.98	139.01	139.54	140.44	140.65	141.61	140.81	139.91	139.72	139.56	139.40	139.23	
14	138.98	139.01	139.57	140.48	140.69	141.59	140.79	139.89	139.71	139.56	139.40	139.22	
15	138.99	139.01	139.61	140.51	140.67	141.48	140.69	139.90	139.69	139.56	139.39	139.21	
16	139.00	139.00	139.64	140.50	140.67	141.46	140.60	139.90	139.68	139.55	139.39	139.20	
17	139.01	139.00	139.69	140.68	140.66	141.43	140.55	139.90	139.68	139.55	139.38	139.20	
18	139.01	139.00	139.76	140.70	140.66	141.35	140.52	139.89	139.68	139.55	139.37	139.19	
19	139.02	139.00	139.85	140.71	140.71	141.29	140.48	139.84	139.68	139.53	139.36	139.18	
20	139.02	139.00	139.94	140.69	140.69	141.25	140.46	139.83	139.68	139.53	139.36	139.17	
21	139.01	139.06	139.99	140.69	140.63	141.19	140.50	139.81	139.67	139.52	139.36	139.17	
22	139.00	139.10	140.19	140.68	140.61	140.95	140.48	139.80	139.67	139.52	139.36	139.16	
23	138.99	139.11	140.31	140.67	140.56	140.91	140.43	139.79	139.66	139.52	139.36	139.16	
24	138.98	139.11	140.31	140.66	140.54	140.99	140.41	139.79	139.66	139.52	139.36	139.15	
25	139.01	139.11	140.31	140.62	140.53	141.02	140.40	139.79	139.65	139.52	139.35	139.15	
26	139.02	139.11	140.30	140.60	140.54	141.10	140.39	139.79	139.64	139.51	139.35	139.14	
27	139.03	139.12	140.30	140.59	140.56	141.13	140.38	139.78	139.63	139.50	139.34	139.13	
28	139.03	139.12	139.97	140.57	140.59	141.12	140.36	139.78	139.62	139.49	139.34	139.13	
29	139.03	139.13	140.13	140.56	140.59	141.11	140.34	139.78	139.61	139.49		139.13	
30	139.02	139.14	140.09	140.55	140.60	141.20	140.27	139.78	139.61	139.49		139.12	
31		139.15		140.56	140.72		140.26		139.60	139.48		139.12	
Mean	139.00	139.05	139.68	140.45	140.64	141.24	140.84	139.92	139.70	139.55	139.40	139.21	
Max	139.03	139.15	140.31	140.71	140.76	141.76	141.83	140.24	139.78	139.60	139.47	139.33	141.83
Min	138.98	139.00	139.16	140.10	140.53	140.73	140.26	139.78	139.60	139.48	139.34	139.12	138.98
Annual Max Momentary Gage Height		141.86	m. (MSL.) ,					at 12.00 Hours , on Oct 3, 2009					
Zero Gage at Bottom Elevation		139.16	m. (MSL.) ,			River Bed	136.73	m. (MSL)					
Left Bank Elevation		143.71	m. (MSL.) ,										
Right Bank Elevation		143.73	m. (MSL.) ,			Drainage Area	478	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	1.10	10.20	12.90	32.00	2.80	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	1.00	10.80	14.40	36.50	2.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	1.20	11.00	18.60	79.70	1.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	1.50	11.40	19.80	66.00	1.40	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	1.30	12.00	20.40	56.40	0.80	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.50	13.20	24.60	46.80	0.10	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	3.40	13.80	31.00	40.50	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	3.60	12.90	36.00	36.50	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	3.60	11.80	50.80	30.50	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	3.60	11.20	57.20	28.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	3.40	10.60	67.60	22.20	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	4.40	9.80	58.00	18.90	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	6.80	11.00	50.80	15.30	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	7.60	11.80	49.20	14.70	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	8.20	11.40	41.00	11.80	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	8.00	11.40	40.00	10.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	11.60	11.20	38.50	9.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	12.00	11.20	34.50	8.40	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	12.30	12.30	31.50	7.60	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	11.80	11.80	29.50	7.20	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	11.80	10.60	26.70	8.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	1.90	11.60	10.20	19.50	7.60	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	4.20	11.40	9.20	18.30	6.60	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	4.20	11.20	8.80	20.70	6.20	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	4.20	10.40	8.60	21.60	6.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	4.00	10.00	8.80	24.00	5.80	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	4.00	9.80	9.20	24.90	5.60	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	9.40	9.80	24.60	5.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	1.30	9.20	9.80	24.30	4.80	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.90	9.00	10.00	27.00	3.40	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	9.20	12.60	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	24.70	220.90	338.40	957.90	640.40	8.90	0.00	0.00	0.00	0.00	2191.20 CMSDAY
Mean	0.00	0.00	0.82	7.13	10.92	31.93	20.66	0.30	0.00	0.00	0.00	0.00	6.00 CMS
Max	0.00	0.00	4.20	12.30	13.80	67.60	79.70	2.80	0.00	0.00	0.00	0.00	79.70 CMS
Min	0.00	0.00	0.00	1.00	8.60	12.90	3.20	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	2.13	19.09	29.24	82.76	55.33	0.77	0.00	0.00	0.00	0.00	189.32 MCM
Momentary Peak	85.40 CMS, at 141.86 m. (MSL) , at 12.00 Hours , on Oct 3, 2009												
Runoff Yield	12.56 Liters/Second/Square KM.			Momentary Peak Yield			178.661 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Sang Kot at Ban Nong Yai, Si Sa Ket (M.143)

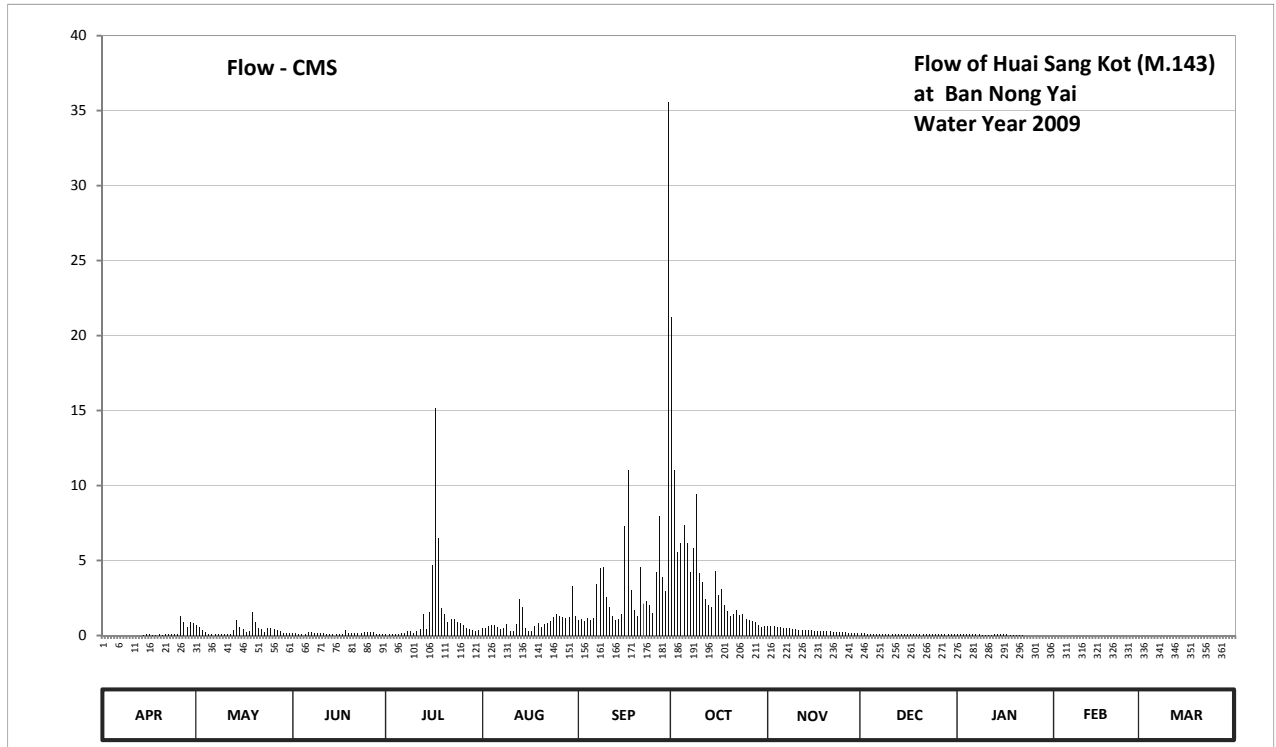
Lat 14 - 29 - 01 N Long 104 - 39 - 52 E

Location : on left bank at the bridge on road.

	Ban	Nong Yai	Amphoe	Kanthalak	Changwat	Si Sa Ket
Drainage Area	47	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+164.600 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank upstream at the abutment of the bridge.				Elevation	+171.124 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 means of 5 readings					
Period of Available Gage Records	1990 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
Rated by Current Meter	1990 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	165.31	165.93	165.49	165.46	165.78	166.16	168.85	165.90	165.50	165.37	165.36	165.32	
2	165.31	165.83	165.48	165.46	165.81	166.23	168.07	165.90	165.49	165.37	165.36	165.32	
3	165.31	165.70	165.47	165.46	165.87	166.11	167.41	165.88	165.47	165.36	165.35	165.32	
4	165.31	165.58	165.40	165.47	165.92	166.24	167.50	165.86	165.46	165.36	165.35	165.32	
5	165.31	165.45	165.46	165.47	165.92	166.14	167.67	165.83	165.46	165.35	165.35	165.32	
6	165.31	165.44	165.55	165.48	165.84	166.26	167.49	165.80	165.45	165.35	165.35	165.32	
7	165.31	165.43	165.55	165.48	165.71	166.96	167.15	165.77	165.44	165.35	165.35	165.32	
8	165.31	165.43	165.52	165.59	165.77	167.22	167.45	165.77	165.43	165.35	165.35	165.32	
9	165.31	165.44	165.49	165.59	165.97	167.24	167.91	165.75	165.43	165.34	165.35	165.32	
10	165.31	165.40	165.48	165.49	165.60	166.74	167.14	165.73	165.43	165.34	165.35	165.32	
11	165.30	165.40	165.48	165.64	165.60	166.57	166.99	165.70	165.42	165.34	165.35	165.32	
12	165.30	165.42	165.47	165.73	165.97	166.32	166.70	165.70	165.42	165.34	165.34	165.32	
13	165.30	165.70	165.45	166.41	166.71	166.16	166.60	165.66	165.42	165.35	165.34	165.32	
14	165.33	166.16	165.44	165.71	166.57	166.19	166.58	165.66	165.42	165.36	165.33	165.32	
15	165.43	165.83	165.43	166.48	165.80	166.43	167.17	165.66	165.42	165.37	165.33	165.32	
16	165.36	165.72	165.42	167.27	165.60	167.66	166.77	165.65	165.41	165.36	165.32	165.32	
17	165.33	165.57	165.46	168.42	165.65	168.07	166.87	165.65	165.41	165.35	165.32	165.32	
18	165.33	165.61	165.69	167.54	165.90	166.86	166.60	165.63	165.41	165.34	165.32	165.31	
19	165.36	166.47	165.48	166.55	166.03	166.53	166.50	165.62	165.41	165.34	165.32	165.29	
20	165.33	166.06	165.48	166.41	165.84	166.35	166.35	165.60	165.39	165.34	165.32	165.29	
21	165.35	165.80	165.48	166.09	165.99	167.24	166.42	165.60	165.39	165.34	165.32	165.29	
22	165.40	165.71	165.48	166.21	166.04	166.63	166.52	165.58	165.39	165.34	165.32	165.29	
23	165.44	165.58	165.48	166.23	166.13	166.68	166.36	165.58	165.39	165.42	165.32	165.29	
24	165.45	165.80	165.58	166.08	166.28	166.60	166.43	165.56	165.38	165.42	165.32	165.29	
25	165.46	165.77	165.58	166.02	166.42	166.46	166.19	165.55	165.38	165.42	165.32	165.29	
26	166.35	165.73	165.58	165.93	166.34	167.16	166.15	165.55	165.38	165.42	165.32	165.29	
27	166.08	165.66	165.54	165.80	166.28	167.75	166.11	165.53	165.38	165.39	165.32	165.29	
28	165.83	165.61	165.47	165.73	166.26	167.08	166.07	165.51	165.38	165.39	165.32	165.29	
29	166.06	165.53	165.46	165.69	166.28	166.84	165.95	165.50	165.38	165.39	165.32	165.29	
30	166.03	165.51	165.43	165.62	166.93	169.57	165.85	165.48	165.38	165.36	165.32	165.29	
31	165.49	165.49	165.67	166.32	166.32	165.90	165.90	165.37	165.36	165.36	165.32	165.29	
Mean	165.46	165.67	165.49	166.01	166.04	166.82	166.83	165.67	165.42	165.36	165.33	165.31	
Max	166.35	166.47	165.69	168.42	166.93	169.57	168.85	165.90	165.50	165.42	165.36	165.32	169.57
Min	165.30	165.40	165.40	165.46	165.60	166.11	165.85	165.48	165.37	165.34	165.32	165.29	165.29
Annual Max Momentary Gage Height	170.26		m. (MSL.) ,				at 15.00 Hours, on Sep 30, 2009						
Zero Gage at Bottom Elevation	164.60		m. (MSL.) ,			River Bed	165.14	m. (MSL)					
Left Bank Elevation		171.11		m. (MSL.) ,									
Right Bank Elevation		171.10		m. (MSL.) ,		Drainage Area	47	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.69	0.14	0.13	0.49	1.03	21.20	0.65	0.15	0.07	0.00	0.00	
2	0.00	0.55	0.14	0.13	0.52	1.13	11.00	0.65	0.14	0.07	0.00	0.00	
3	0.00	0.39	0.13	0.13	0.61	0.95	5.57	0.62	0.13	0.07	0.00	0.00	
4	0.00	0.25	0.09	0.13	0.68	1.15	6.20	0.59	0.13	0.07	0.00	0.00	
5	0.00	0.12	0.13	0.13	0.68	1.00	7.39	0.55	0.13	0.07	0.00	0.00	
6	0.00	0.11	0.21	0.14	0.57	1.18	6.13	0.51	0.12	0.07	0.00	0.00	
7	0.00	0.11	0.21	0.14	0.40	3.44	4.20	0.47	0.11	0.07	0.00	0.00	
8	0.00	0.11	0.17	0.26	0.47	4.48	5.85	0.47	0.11	0.07	0.00	0.00	
9	0.00	0.11	0.14	0.26	0.75	4.56	9.40	0.45	0.11	0.06	0.00	0.00	
10	0.00	0.09	0.14	0.14	0.27	2.56	4.16	0.43	0.11	0.06	0.00	0.00	
11	0.00	0.09	0.14	0.32	0.27	1.88	3.56	0.39	0.10	0.06	0.00	0.00	
12	0.00	0.10	0.13	0.43	0.75	1.27	2.40	0.39	0.10	0.06	0.00	0.00	
13	0.00	0.39	0.12	1.42	2.44	1.03	2.00	0.34	0.10	0.07	0.00	0.00	
14	0.06	1.03	0.11	0.40	1.88	1.08	1.92	0.34	0.10	0.07	0.00	0.00	
15	0.11	0.55	0.11	1.56	0.51	1.46	4.28	0.34	0.10	0.07	0.00	0.00	
16	0.07	0.41	0.10	4.68	0.27	7.32	2.68	0.33	0.10	0.07	0.00	0.00	
17	0.06	0.23	0.13	15.16	0.33	11.00	3.08	0.33	0.10	0.07	0.00	0.00	
18	0.06	0.28	0.38	6.48	0.65	3.04	2.00	0.31	0.10	0.06	0.00	0.00	
19	0.07	1.54	0.14	1.80	0.83	1.72	1.60	0.29	0.10	0.06	0.00	0.00	
20	0.06	0.88	0.14	1.42	0.57	1.32	1.32	0.27	0.09	0.06	0.00	0.00	
21	0.07	0.51	0.14	0.92	0.78	4.56	1.44	0.27	0.09	0.06	0.00	0.00	
22	0.09	0.40	0.14	1.11	0.85	2.12	1.68	0.25	0.09	0.06	0.00	0.00	
23	0.11	0.25	0.14	1.13	0.99	2.32	1.34	0.25	0.09	0.00	0.00	0.00	
24	0.12	0.51	0.25	0.91	1.21	2.00	1.46	0.22	0.08	0.00	0.00	0.00	
25	0.13	0.47	0.25	0.82	1.44	1.52	1.08	0.21	0.08	0.00	0.00	0.00	
26	1.32	0.43	0.25	0.69	1.30	4.24	1.01	0.21	0.08	0.00	0.00	0.00	
27	0.91	0.34	0.20	0.51	1.21	7.95	0.95	0.19	0.08	0.00	0.00	0.00	
28	0.55	0.28	0.13	0.43	1.18	3.92	0.90	0.16	0.08	0.00	0.00	0.00	
29	0.88	0.19	0.13	0.38	1.21	2.96	0.72	0.15	0.08	0.00	0.00	0.00	
30	0.83	0.16	0.11	0.29	3.32	35.54	0.58	0.14	0.08	0.00	0.00	0.00	
31		0.14		0.35	1.27		0.65		0.07	0.00		0.00	
Total	5.50	11.71	4.74	42.80	28.70	119.73	117.75	10.77	3.13	1.45	0.00	0.00	346.28 CMSDAY
Mean	0.18	0.38	0.16	1.38	0.93	3.99	3.80	0.36	0.10	0.05	0.00	0.00	0.95 CMS
Max	1.32	1.54	0.38	15.16	3.32	35.54	21.20	0.65	0.15	0.07	0.00	0.00	35.54 CMS
Min	0.00	0.09	0.09	0.13	0.27	0.95	0.58	0.14	0.07	0.00	0.00	0.00	0.00 CMS
Runoff	0.48	1.01	0.41	3.70	2.48	10.35	10.17	0.93	0.27	0.13	0.00	0.00	29.92 MCM
Momentary Peak	54.32 CMS, at 170.26 m. (MSL) , at 15.00 Hours , on Sep 30, 2009												
Runoff Yield	20.19 Liters/Second/Square KM.			Momentary Peak Yield			1155.745 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Phra Phloeng at Ban Wang Ta Kiam, Nakhon Ratchasima (M.145)

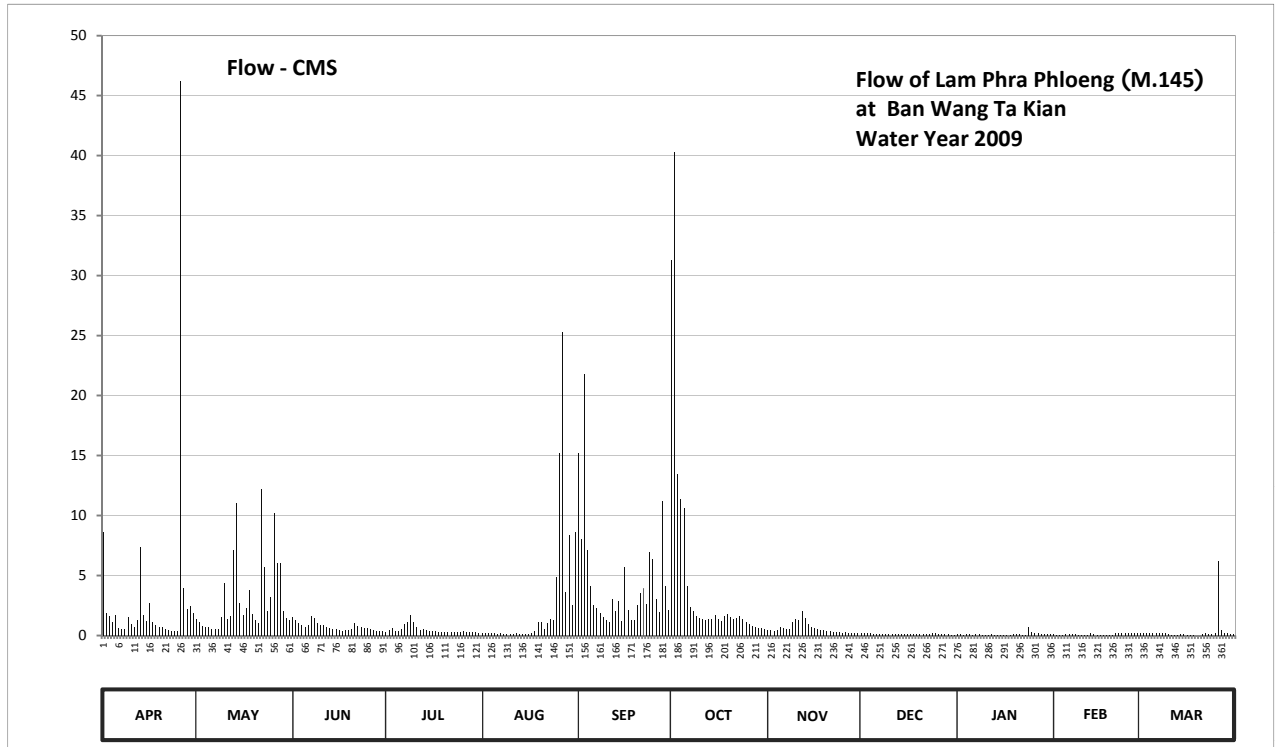
Lat 14 - 29 - 24 N Long 101 - 41 - 14 E

Location : on right bank at Ban Wang Ta Kiam.

	Ban	Wang Ta Kiam	Amphoe	Pak Chong	Changwat	Nakhon Ratchasima
Drainage Area	335	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+382.990 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 12 meters from the top staff gage.				Elevation	+390.970 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 means of 5 readings					
Period of Available Gage Records	1990 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
Rated by Current Meter	1990 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 59 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	387.23	386.58	386.60	386.34	386.31	387.56	388.16	386.39	386.27	386.20	386.19	386.31	
2	386.67	386.52	386.55	386.38	386.30	387.20	388.45	386.38	386.29	386.19	386.18	386.31	
3	386.62	386.46	386.50	386.43	386.30	387.83	387.47	386.37	386.27	386.18	386.18	386.31	
4	386.52	386.44	386.47	386.36	386.30	387.14	387.37	386.38	386.27	386.23	386.18	386.31	
5	386.64	386.44	386.45	386.35	386.28	386.94	387.33	386.44	386.26	386.20	386.24	386.31	
6	386.42	386.41	386.47	386.41	386.26	386.80	386.94	386.42	386.26	386.18	386.22	386.31	
7	386.40	386.41	386.62	386.49	386.27	386.76	386.77	386.40	386.25	386.23	386.20	386.31	
8	386.40	386.40	386.59	386.52	386.22	386.68	386.70	386.41	386.25	386.20	386.19	386.31	
9	386.61	386.60	386.51	386.64	386.25	386.60	386.63	386.53	386.25	386.18	386.18	386.31	
10	386.49	386.96	386.48	386.52	386.24	386.55	386.59	386.58	386.25	386.18	386.16	386.23	
11	386.45	386.57	386.47	386.44	386.23	386.53	386.57	386.56	386.24	386.18	386.15	386.17	
12	386.56	386.63	386.44	386.38	386.28	386.85	386.55	386.71	386.24	386.19	386.13	386.14	
13	387.16	387.14	386.43	386.40	386.22	386.70	386.57	386.59	386.23	386.18	386.31	386.11	
14	386.64	387.35	386.41	386.39	386.20	386.84	386.58	386.49	386.22	386.18	386.24	386.19	
15	386.54	386.82	386.40	386.37	386.22	386.54	386.64	386.44	386.22	386.17	386.17	386.22	
16	386.82	386.65	386.39	386.36	386.23	387.05	386.57	386.42	386.24	386.17	386.15	386.14	
17	386.53	386.75	386.37	386.35	386.29	386.72	386.54	386.41	386.22	386.17	386.14	386.12	
18	386.47	386.92	386.38	386.34	386.36	386.56	386.63	386.38	386.22	386.16	386.13	386.12	
19	386.44	386.66	386.39	386.34	386.52	386.55	386.66	386.39	386.22	386.19	386.13	386.09	
20	386.45	386.56	386.40	386.33	386.52	386.80	386.61	386.36	386.22	386.20	386.15	386.07	
21	386.41	386.51	386.50	386.32	386.41	386.90	386.58	386.35	386.21	386.19	386.31	386.23	
22	386.38	387.41	386.46	386.33	386.51	386.93	386.59	386.34	386.20	386.18	386.31	386.29	
23	386.37	387.05	386.44	386.33	386.58	386.81	386.62	386.33	386.20	386.18	386.30	386.26	
24	386.36	386.70	386.43	386.34	386.56	387.13	386.58	386.32	386.27	386.44	386.30	386.25	
25	386.37	386.87	386.43	386.34	386.99	387.09	386.53	386.31	386.27	386.34	386.30	386.31	
26	388.62	387.31	386.40	386.36	387.56	386.85	386.49	386.32	386.23	386.30	386.30	387.08	
27	386.93	387.07	386.38	386.34	387.96	386.69	386.46	386.31	386.20	386.28	386.31	386.38	
28	386.74	387.07	386.37	386.32	386.91	387.36	386.45	386.30	386.19	386.26	386.31	386.30	
29	386.79	386.71	386.35	386.32	387.22	386.94	386.43	386.29	386.19	386.23		386.28	
30	386.67	386.59	386.35	386.32	386.80	386.73	386.42	386.28	386.18	386.21		386.26	
31		386.55		386.31	387.23		386.41		386.18	386.20		386.20	
Mean	386.66	386.75	386.45	386.38	386.53	386.89	386.77	386.41	386.23	386.21	386.22	386.27	
Max	388.62	387.41	386.62	386.64	387.96	387.83	388.45	386.71	386.29	386.44	386.31	387.08	388.62
Min	386.36	386.40	386.35	386.31	386.20	386.53	386.41	386.28	386.18	386.16	386.13	386.07	386.07
Annual Max Momentary Gage Height	389.07		m. (MSL.) ,				at 01.00 Hours , on Aug 27, 2009						
Zero Gage at Bottom Elevation	382.99		m. (MSL.) ,			River Bed	385.89		m. (MSL)				
Left Bank Elevation	391.08		m. (MSL.) ,										
Right Bank Elevation	390.71		m. (MSL.) ,			Drainage Area	335		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.60	1.40	1.50	0.32	0.23	15.20	31.30	0.47	0.17	0.10	0.09	0.23	
2	1.85	1.10	1.25	0.44	0.20	8.00	40.25	0.44	0.19	0.09	0.08	0.23	
3	1.60	0.80	1.00	0.65	0.20	21.75	13.40	0.41	0.17	0.08	0.08	0.23	
4	1.10	0.70	0.85	0.38	0.20	7.10	11.40	0.44	0.17	0.13	0.08	0.23	
5	1.70	0.70	0.75	0.35	0.18	4.10	10.60	0.70	0.16	0.10	0.14	0.23	
6	0.60	0.55	0.85	0.55	0.16	2.50	4.10	0.60	0.16	0.08	0.12	0.23	
7	0.50	0.55	1.60	0.95	0.17	2.30	2.35	0.50	0.15	0.13	0.10	0.23	
8	0.50	0.50	1.45	1.10	0.12	1.90	2.00	0.55	0.15	0.10	0.09	0.23	
9	1.55	1.50	1.05	1.70	0.15	1.50	1.65	1.15	0.15	0.08	0.08	0.23	
10	0.95	4.40	0.90	1.10	0.14	1.25	1.45	1.40	0.15	0.08	0.06	0.13	
11	0.75	1.35	0.85	0.70	0.13	1.15	1.35	1.30	0.14	0.08	0.05	0.07	
12	1.30	1.65	0.70	0.44	0.18	3.00	1.25	2.05	0.14	0.09	0.03	0.04	
13	7.40	7.10	0.65	0.50	0.12	2.00	1.35	1.45	0.13	0.08	0.23	0.01	
14	1.70	11.00	0.55	0.47	0.10	2.90	1.40	0.95	0.12	0.08	0.14	0.09	
15	1.20	2.70	0.50	0.41	0.12	1.20	1.70	0.70	0.12	0.07	0.07	0.12	
16	2.70	1.75	0.47	0.38	0.13	5.75	1.35	0.60	0.14	0.07	0.05	0.04	
17	1.15	2.25	0.41	0.35	0.19	2.10	1.20	0.55	0.12	0.07	0.04	0.02	
18	0.85	3.80	0.44	0.32	0.38	1.30	1.65	0.44	0.12	0.06	0.03	0.02	
19	0.70	1.80	0.47	0.32	1.10	1.25	1.80	0.47	0.12	0.09	0.03	0.00	
20	0.75	1.30	0.50	0.29	1.10	2.50	1.55	0.38	0.12	0.10	0.05	0.00	
21	0.55	1.05	1.00	0.26	0.55	3.50	1.40	0.35	0.11	0.09	0.23	0.13	
22	0.44	12.20	0.80	0.29	1.05	3.95	1.45	0.32	0.10	0.08	0.23	0.19	
23	0.41	5.75	0.70	0.29	1.40	2.60	1.60	0.29	0.10	0.08	0.20	0.16	
24	0.38	2.00	0.65	0.32	1.30	6.95	1.40	0.26	0.17	0.70	0.20	0.15	
25	0.41	3.20	0.65	0.32	4.85	6.35	1.15	0.23	0.17	0.32	0.20	0.23	
26	46.20	10.20	0.50	0.38	15.20	3.00	0.95	0.26	0.13	0.20	0.20	6.20	
27	3.95	6.05	0.44	0.32	25.30	1.95	0.80	0.23	0.10	0.18	0.23	0.44	
28	2.20	6.05	0.41	0.26	3.65	11.20	0.75	0.20	0.09	0.16	0.23	0.20	
29	2.45	2.05	0.35	0.26	8.40	4.10	0.65	0.19	0.09	0.13		0.18	
30	1.85	1.45	0.35	0.26	2.50	2.15	0.60	0.18	0.08	0.11		0.16	
31		1.25		0.23	8.60		0.55		0.08	0.10		0.10	
Total	96.29	98.15	22.59	14.91	78.10	134.50	144.40	18.06	4.11	3.91	3.36	10.75	629.13 CMSDAY
Mean	3.21	3.17	0.75	0.48	2.52	4.48	4.66	0.60	0.13	0.13	0.12	0.35	1.72 CMS
Max	46.20	12.20	1.60	1.70	25.30	21.75	40.25	2.05	0.19	0.70	0.23	6.20	46.20 CMS
Min	0.38	0.50	0.35	0.23	0.10	1.15	0.55	0.18	0.08	0.06	0.03	0.00	0.00 CMS
Runoff	8.32	8.48	1.95	1.29	6.75	11.62	12.48	1.56	0.36	0.34	0.29	0.93	54.36 MCM
Momentary Peak	62.80 CMS, at 389.07 m. (MSL) , at 01.00 Hours , on Aug 27, 2009												
Runoff Yield	5.15 Liters/Second/Square KM.			Momentary Peak Yield			187.463 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Bon at Ban Phon Thong, Ubon Ratchathani (M.152)

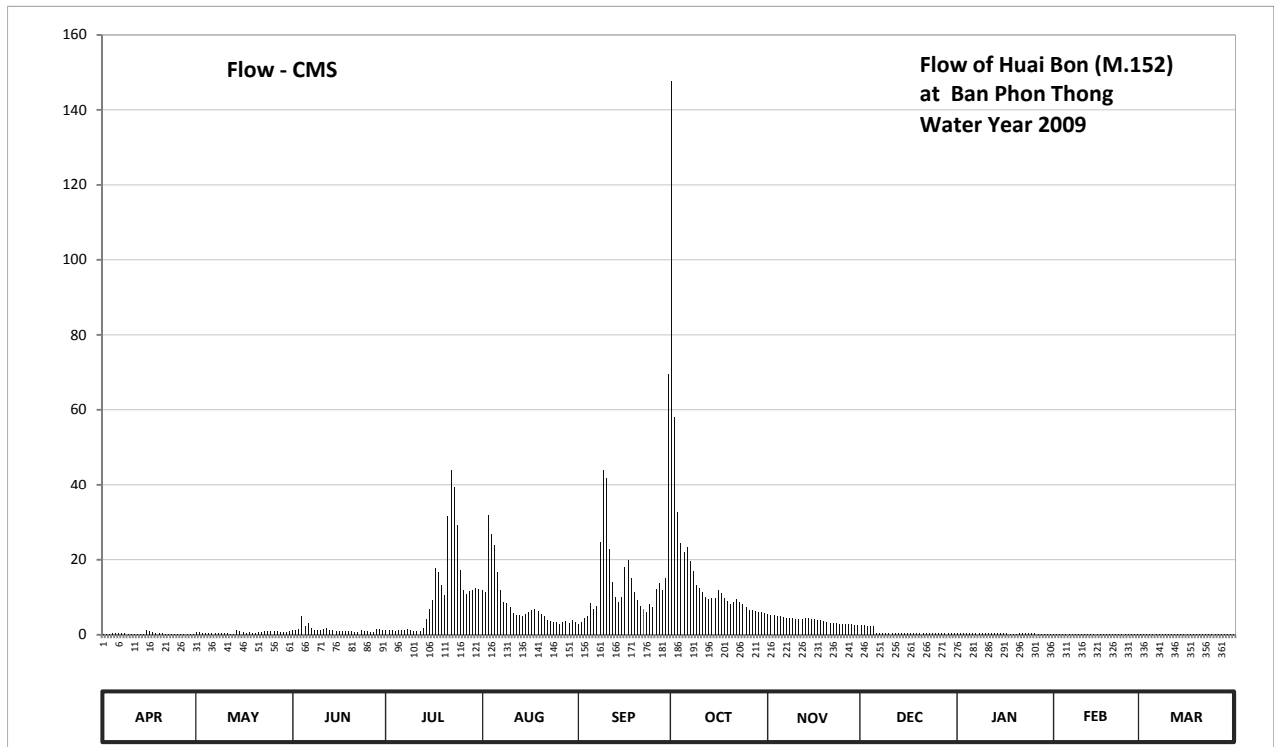
Lat 14 - 27 - 47 N Long 105 - 06 - 19 E

Location : on left bank at the bridge on road.

	Ban	Phon Thong	Amphoe	Nam Yuen	Changwat	Ubon Ratchathani
Drainage Area	214	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+147.530 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank downstream at the footpath of the bridge.				Elevation	+157.250 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 means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 57 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.60	148.71	148.81	148.83	149.95	149.08	154.98	149.36	149.05	148.97	148.94	148.91	
2	148.59	148.72	148.86	148.84	149.90	149.13	152.77	149.33	149.05	148.97	148.94	148.90	
3	148.59	148.68	148.91	148.83	151.38	149.25	151.42	149.31	149.04	148.97	148.94	148.90	
4	148.66	148.64	149.28	148.80	151.06	149.30	150.90	149.29	149.04	148.96	148.94	148.92	
5	148.66	148.64	149.03	148.81	150.86	149.64	150.73	149.28	149.03	148.96	148.94	148.91	
6	148.65	148.67	149.10	148.81	150.31	149.48	150.82	149.27	149.05	148.96	148.93	148.91	
7	148.65	148.66	148.93	148.85	149.94	149.55	150.53	149.25	149.07	148.96	148.92	148.90	
8	148.65	148.66	148.86	148.87	149.68	150.92	150.34	149.23	149.04	148.96	148.92	148.89	
9	148.61	148.65	148.82	148.82	149.63	152.06	150.05	149.23	149.03	148.96	148.92	148.88	
10	148.60	148.64	148.86	148.80	149.52	151.95	149.98	149.22	149.03	148.96	148.92	148.88	
11	148.59	148.63	148.91	148.79	149.38	150.78	149.91	149.21	149.02	148.95	148.91	148.88	
12	148.59	148.62	148.92	148.78	149.33	150.11	149.80	149.22	149.02	148.95	148.93	148.89	
13	148.59	148.61	148.86	148.93	149.31	149.80	149.75	149.25	149.02	148.95	148.91	148.89	
14	148.61	148.85	148.82	149.22	149.28	149.67	149.76	149.23	149.01	148.95	148.91	148.89	
15	148.81	148.76	148.78	149.47	149.34	149.80	149.78	149.21	149.00	148.95	148.91	148.88	
16	148.78	148.71	148.80	149.71	149.41	150.42	149.94	149.20	148.99	148.95	148.91	148.88	
17	148.74	148.69	148.79	150.39	149.44	150.55	149.89	149.19	148.99	148.95	148.91	148.88	
18	148.68	148.71	148.77	150.32	149.47	150.19	149.77	149.18	148.99	148.94	148.91	148.88	
19	148.64	148.70	148.76	150.05	149.43	149.90	149.70	149.16	148.99	148.93	148.91	148.88	
20	148.63	148.68	148.80	149.84	149.36	149.71	149.61	149.13	148.99	148.93	148.91	148.88	
21	148.61	148.74	148.75	151.35	149.28	149.57	149.67	149.11	148.98	148.98	148.91	148.88	
22	148.62	148.74	148.74	152.06	149.19	149.48	149.74	149.11	148.98	149.00	148.91	148.88	
23	148.62	148.76	148.81	151.82	149.16	149.40	149.67	149.10	148.98	149.00	148.91	148.88	
24	148.61	148.78	148.80	151.20	149.13	149.62	149.62	149.09	148.98	149.00	148.93	148.88	
25	148.60	148.78	148.76	150.36	149.13	149.54	149.53	149.09	148.98	148.99	148.93	148.88	
26	148.60	148.78	148.73	149.95	149.07	149.96	149.44	149.08	148.98	148.98	148.92	148.88	
27	148.60	148.76	148.73	149.87	149.12	150.09	149.44	149.07	148.97	148.94	148.92	148.87	
28	148.60	148.74	148.91	149.93	149.15	149.94	149.43	149.07	148.97	148.93	148.91	148.87	
29	148.60	148.74	148.87	149.95	149.11	150.20	149.41	149.06	148.97	148.93		148.87	
30	148.62	148.75	148.84	149.99	149.18	153.22	149.39	149.06	148.97	148.93		148.87	
31		148.76		149.97	149.14		149.37		148.97	148.93		148.87	
Mean	148.63	148.71	148.85	149.68	149.57	150.08	150.17	149.19	149.01	148.96	148.92	148.89	
Max	148.81	148.85	149.28	152.06	151.38	153.22	154.98	149.36	149.07	149.00	148.94	148.92	154.98
Min	148.59	148.61	148.73	148.78	149.07	149.08	149.37	149.06	148.97	148.93	148.91	148.87	148.59
Annual Max Momentary Gage Height	155.46		m. (MSL.) ,				at 06.00 Hours , on Oct 1, 2009						
Zero Gage at Bottom Elevation	147.53		m. (MSL.) ,			River Bed	147.29		m. (MSL)				
Left Bank Elevation		157.01		m. (MSL.) ,									
Right Bank Elevation		156.99		m. (MSL.) ,		Drainage Area	214		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.55	1.05	1.15	11.95	2.80	147.60	5.60	2.50	0.30	0.26	0.23	
2	0.18	0.60	1.30	1.20	11.30	3.30	58.11	5.30	2.50	0.30	0.26	0.22	
3	0.18	0.44	1.55	1.15	31.98	4.50	32.62	5.10	2.40	0.30	0.26	0.22	
4	0.38	0.32	4.80	1.00	26.86	5.00	24.30	4.90	2.40	0.29	0.26	0.24	
5	0.38	0.32	2.30	1.05	23.78	8.40	22.09	4.80	2.30	0.29	0.26	0.23	
6	0.35	0.41	3.00	1.05	16.63	6.80	23.26	4.70	0.38	0.29	0.25	0.23	
7	0.35	0.38	1.65	1.25	11.82	7.50	19.49	4.50	0.41	0.29	0.24	0.22	
8	0.35	0.38	1.30	1.35	8.80	24.62	17.02	4.30	0.37	0.29	0.24	0.21	
9	0.23	0.35	1.10	1.10	8.30	43.94	13.25	4.30	0.36	0.29	0.24	0.20	
10	0.20	0.32	1.30	1.00	7.20	41.85	12.34	4.20	0.36	0.29	0.24	0.20	
11	0.18	0.29	1.55	0.95	5.80	22.74	11.43	4.10	0.35	0.27	0.23	0.20	
12	0.18	0.26	1.60	0.90	5.30	14.03	10.00	4.20	0.35	0.27	0.25	0.21	
13	0.18	0.23	1.30	1.65	5.10	10.00	9.50	4.50	0.35	0.27	0.23	0.21	
14	0.23	1.25	1.10	4.20	4.80	8.70	9.60	4.30	0.34	0.27	0.23	0.21	
15	1.05	0.80	0.90	6.70	5.40	10.00	9.80	4.10	0.33	0.27	0.23	0.20	
16	0.90	0.55	1.00	9.10	6.10	18.06	11.82	4.00	0.32	0.27	0.23	0.20	
17	0.70	0.47	0.95	17.67	6.40	19.75	11.17	3.90	0.32	0.27	0.23	0.20	
18	0.44	0.55	0.85	16.76	6.70	15.07	9.70	3.80	0.32	0.26	0.23	0.20	
19	0.32	0.50	0.80	13.25	6.30	11.30	9.00	3.60	0.32	0.25	0.23	0.20	
20	0.29	0.44	1.00	10.52	5.60	9.10	8.10	3.30	0.32	0.25	0.23	0.20	
21	0.23	0.70	0.75	31.50	4.80	7.70	8.70	3.10	0.31	0.31	0.23	0.20	
22	0.26	0.70	0.70	43.94	3.90	6.80	9.40	3.10	0.31	0.33	0.23	0.20	
23	0.26	0.80	1.05	39.38	3.60	6.00	8.70	3.00	0.31	0.33	0.23	0.20	
24	0.23	0.90	1.00	29.10	3.30	8.20	8.20	2.90	0.31	0.33	0.25	0.20	
25	0.20	0.90	0.80	17.28	3.30	7.40	7.30	2.90	0.31	0.32	0.25	0.20	
26	0.20	0.90	0.65	11.95	2.70	12.08	6.40	2.80	0.31	0.31	0.24	0.20	
27	0.20	0.80	0.65	10.91	3.20	13.77	6.40	2.70	0.30	0.26	0.24	0.19	
28	0.20	0.70	1.55	11.69	3.50	11.82	6.30	2.70	0.30	0.25	0.23	0.19	
29	0.20	0.70	1.35	11.95	3.10	15.20	6.10	2.60	0.30	0.25		0.19	
30	0.26	0.75	1.20	12.47	3.80	69.60	5.90	2.60	0.30	0.25		0.19	
31		0.80		12.21	3.40		5.70		0.30	0.25		0.19	
Total	9.51	18.06	40.10	325.38	254.72	446.03	549.30	115.90	20.66	8.77	6.73	6.38	1801.54 CMSDAY
Mean	0.32	0.58	1.34	10.50	8.22	14.87	17.72	3.86	0.67	0.28	0.24	0.21	4.94 CMS
Max	1.05	1.25	4.80	43.94	31.98	69.60	147.60	5.60	2.50	0.33	0.26	0.24	147.60 CMS
Min	0.18	0.23	0.65	0.90	2.70	2.80	5.70	2.60	0.30	0.25	0.23	0.19	0.18 CMS
Runoff	0.82	1.56	3.47	28.11	22.01	38.54	47.46	10.01	1.79	0.76	0.58	0.55	155.65 MCM
Momentary Peak	185.70 CMS, at 155.46 m. (MSL) , at 06.00 Hours , on Oct 1, 2009												
Runoff Yield	23.06 Liters/Second/Square KM.			Momentary Peak Yield			867.757 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Dom Yai at Ban Kut Chiang Mun, Ubun Ratchathani (M.153)

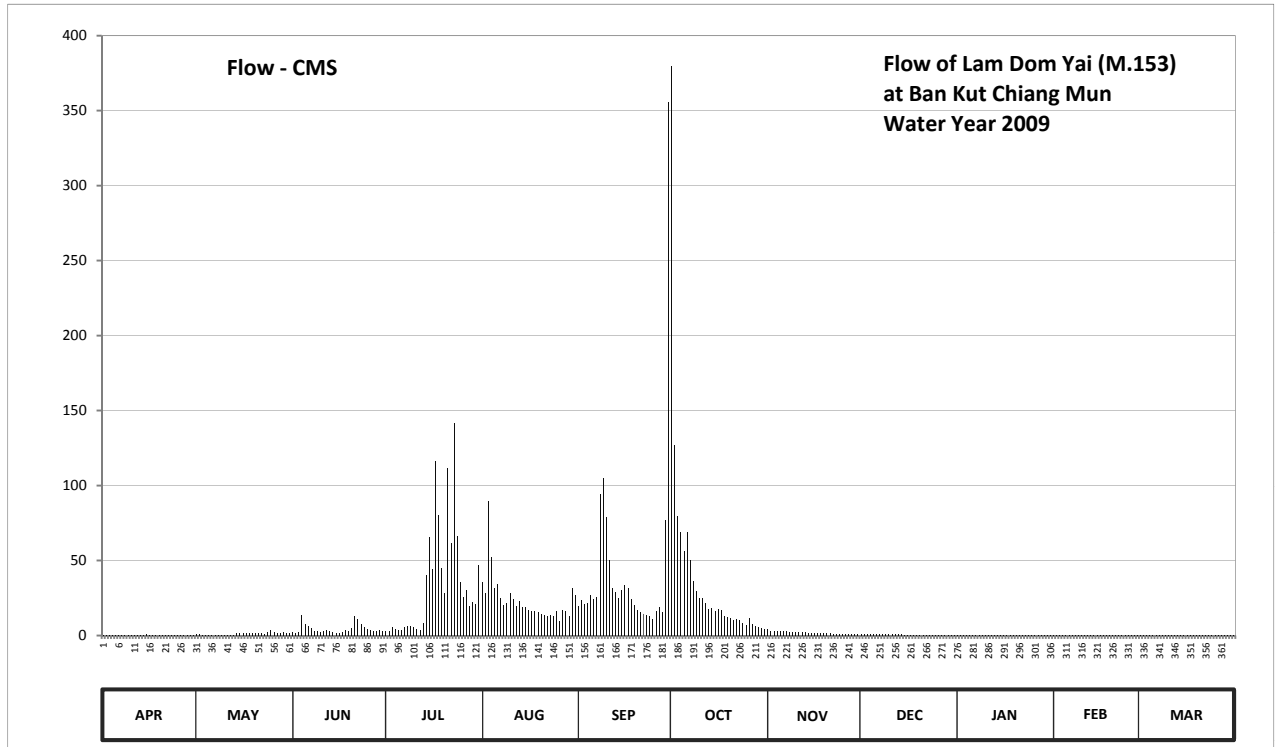
Lat 14 - 26 - 41 N Long 105 - 07 - 30 E

Location : on right bank at the bridge on road.

	Ban	Kut Chiang Mun	Amphoe	Nam Yuen	Changwat	Ubun Ratchathani
Drainage Area	373	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+144.270 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank downstream at the footpath of the bridge.				Elevation	+155.420 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 means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 61 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.94	145.14	145.39	145.58	147.39	146.59	152.34	145.71	145.23	145.02	144.95	144.91	
2	144.94	145.16	145.29	145.56	147.03	146.79	150.04	145.62	145.22	145.04	145.02	144.91	
3	144.93	145.02	145.50	145.85	149.14	146.65	148.86	145.60	145.22	145.03	144.99	144.91	
4	144.92	145.09	146.30	145.71	147.94	146.70	148.50	145.56	145.22	145.02	144.97	144.90	
5	144.91	145.09	145.97	145.69	147.19	146.94	148.07	145.56	145.22	145.02	144.96	144.90	
6	144.90	145.12	145.91	145.66	147.32	146.81	148.50	145.55	145.21	145.01	144.96	144.90	
7	144.97	145.11	145.80	145.89	146.85	146.89	147.88	145.52	145.21	145.00	144.95	144.90	
8	144.95	145.01	145.56	145.92	146.62	149.29	147.41	145.50	145.21	145.00	144.95	144.90	
9	144.94	144.95	145.55	145.91	146.70	149.54	147.07	145.48	145.16	145.00	144.95	144.90	
10	144.89	144.94	145.50	145.89	147.00	148.83	146.85	145.45	145.15	145.00	144.97	144.90	
11	144.87	144.91	145.55	145.71	146.81	147.87	146.85	145.41	145.14	144.99	144.97	144.89	
12	144.85	144.91	145.64	145.65	146.57	147.19	146.67	145.39	145.14	144.99	144.96	144.89	
13	144.84	144.92	145.56	146.00	146.76	147.04	146.49	145.39	145.14	144.99	144.96	144.89	
14	144.83	145.28	145.50	147.55	146.55	146.84	146.50	145.38	145.14	144.98	144.96	144.89	
15	145.19	145.30	145.38	148.38	146.53	147.13	146.40	145.38	145.12	144.98	144.96	144.94	
16	145.11	145.30	145.29	147.67	146.44	147.28	146.49	145.38	145.11	144.98	144.96	144.94	
17	145.02	145.29	145.40	149.82	146.40	147.19	146.45	145.36	145.11	144.97	144.95	144.94	
18	145.00	145.28	145.65	148.88	146.42	146.80	146.26	145.35	145.10	144.97	144.95	144.92	
19	144.94	145.36	145.63	147.70	146.37	146.60	146.22	145.33	145.10	144.97	144.95	144.92	
20	144.91	145.35	145.78	147.01	146.31	146.46	146.18	145.32	145.09	144.96	144.94	144.92	
21	144.89	145.30	146.24	149.72	146.29	146.37	146.11	145.27	145.09	145.07	144.93	144.92	
22	144.87	145.29	146.14	148.25	146.24	146.32	146.14	145.25	145.09	145.07	145.04	144.91	
23	144.89	145.19	145.98	150.33	146.27	146.28	146.10	145.24	145.07	145.07	145.03	144.91	
24	144.88	145.50	145.89	148.40	146.25	146.24	146.03	145.24	145.06	145.05	144.98	144.93	
25	144.87	145.64	145.75	147.37	146.42	146.16	145.96	145.24	145.05	145.02	144.98	144.93	
26	144.94	145.41	145.67	146.89	146.09	146.41	146.19	145.24	145.04	144.99	144.91	144.93	
27	144.93	145.32	145.62	147.12	146.45	146.56	145.99	145.24	145.04	144.98	144.91	144.93	
28	144.92	145.36	145.58	146.59	146.40	146.38	145.92	145.23	145.03	144.98	144.91	144.92	
29	144.93	145.40	145.65	146.72	146.25	148.76	145.90	145.23	145.03	144.97		144.92	
30	144.96	145.33	145.60	146.64	147.18	152.23	145.80	145.21	145.03	144.96		144.92	
31		145.35		147.77	146.95		145.75		145.03	144.95		144.92	
Mean	144.93	145.21	145.68	147.03	146.75	147.24	146.97	145.39	145.12	145.00	144.96	144.91	
Max	145.19	145.64	146.30	150.33	149.14	152.23	152.34	145.71	145.23	145.07	145.04	144.94	152.34
Min	144.83	144.91	145.29	145.56	146.09	146.16	145.75	145.21	145.03	144.95	144.91	144.89	144.83
Annual Max Momentary Gage Height	153.11		m. (MSL.) ,				at 18.00 Hours, on Sep 30, 2009						
Zero Gage at Bottom Elevation	144.27		m. (MSL.) ,			River Bed	144.63	m. (MSL)					
Left Bank Elevation		155.17		m. (MSL.) ,									
Right Bank Elevation		155.15		m. (MSL.) ,		Drainage Area	373	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.70	1.95	2.90	35.80	19.80	380.00	4.10	1.15	0.18	0.08	0.06	
2	0.08	0.80	1.45	2.80	28.60	23.80	127.00	3.20	1.10	0.26	0.18	0.06	
3	0.07	0.18	2.50	5.50	89.40	21.00	79.80	3.00	1.10	0.22	0.10	0.06	
4	0.07	0.46	14.00	4.10	52.20	22.00	69.00	2.80	1.10	0.18	0.09	0.06	
5	0.06	0.46	7.40	3.90	31.80	26.80	56.10	2.80	1.10	0.18	0.08	0.06	
6	0.06	0.60	6.20	3.60	34.40	24.20	69.00	2.75	1.05	0.14	0.08	0.06	
7	0.09	0.55	5.00	5.90	25.00	25.80	50.40	2.60	1.05	0.10	0.08	0.06	
8	0.08	0.14	2.80	6.40	20.40	94.65	36.30	2.50	1.05	0.10	0.08	0.06	
9	0.08	0.08	2.75	6.20	22.00	104.60	29.40	2.40	0.80	0.10	0.08	0.06	
10	0.06	0.08	2.50	5.90	28.00	78.90	25.00	2.25	0.75	0.10	0.09	0.06	
11	0.05	0.06	2.75	4.10	24.20	50.10	25.00	2.05	0.70	0.10	0.09	0.06	
12	0.04	0.06	3.40	3.50	19.40	31.80	21.40	1.95	0.70	0.10	0.08	0.06	
13	0.04	0.07	2.80	8.00	23.20	28.80	17.80	1.95	0.70	0.10	0.08	0.06	
14	0.03	1.40	2.50	40.50	19.00	24.80	18.00	1.90	0.70	0.09	0.08	0.06	
15	0.95	1.50	1.90	65.40	18.60	30.60	16.00	1.90	0.60	0.09	0.08	0.08	
16	0.55	1.50	1.45	44.10	16.80	33.60	17.80	1.90	0.55	0.09	0.08	0.08	
17	0.18	1.45	2.00	116.00	16.00	31.80	17.00	1.80	0.55	0.09	0.08	0.08	
18	0.10	1.40	3.50	80.40	16.40	24.00	13.20	1.75	0.50	0.09	0.08	0.07	
19	0.08	1.80	3.30	45.00	15.40	20.00	12.40	1.65	0.50	0.09	0.08	0.07	
20	0.06	1.75	4.80	28.20	14.20	17.20	11.60	1.60	0.46	0.08	0.08	0.07	
21	0.06	1.50	12.80	111.80	13.80	15.40	10.20	1.35	0.46	0.38	0.07	0.07	
22	0.05	1.45	10.80	61.50	12.80	14.40	10.80	1.25	0.46	0.38	0.26	0.06	
23	0.06	0.95	7.60	141.50	13.40	13.60	10.00	1.20	0.38	0.38	0.22	0.06	
24	0.05	2.50	5.90	66.00	13.00	12.80	8.60	1.20	0.34	0.30	0.09	0.07	
25	0.05	3.40	4.50	35.40	16.40	11.20	7.20	1.20	0.30	0.18	0.09	0.07	
26	0.08	2.05	3.70	25.80	9.80	16.20	11.80	1.20	0.26	0.10	0.06	0.07	
27	0.07	1.60	3.20	30.40	17.00	19.20	7.80	1.20	0.26	0.09	0.06	0.07	
28	0.07	1.80	2.90	19.80	16.00	15.60	6.40	1.15	0.22	0.09	0.06	0.07	
29	0.07	2.00	3.50	22.40	13.00	76.80	6.00	1.15	0.22	0.09		0.07	
30	0.08	1.65	3.00	20.80	31.60	356.00	5.00	1.05	0.22	0.08		0.07	
31		1.75		47.10	27.00		4.50		0.22	0.08		0.07	
Total	3.45	35.69	132.85	1064.90	734.60	1285.45	1180.50	58.80	19.55	4.63	2.66	2.04	4525.12 CMSDAY
Mean	0.11	1.15	4.43	34.35	23.70	42.85	38.08	1.96	0.63	0.15	0.10	0.07	12.40 CMS
Max	0.95	3.40	14.00	141.50	89.40	356.00	380.00	4.10	1.15	0.38	0.26	0.08	380.00 CMS
Min	0.03	0.06	1.45	2.80	9.80	11.20	4.50	1.05	0.22	0.08	0.06	0.06	0.03 CMS
Runoff	0.30	3.08	11.48	92.01	63.47	111.06	102.00	5.08	1.69	0.40	0.23	0.18	390.97 MCM
Momentary Peak	593.50 CMS, at 153.11 m. (MSL), at 18.00 Hours, on Sep 30, 2009												
Runoff Yield	33.24 Liters/Second/Square KM.			Momentary Peak Yield			1591.153 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Luang at Ban Na Chaluai, Ubon Ratchathani (M.154)

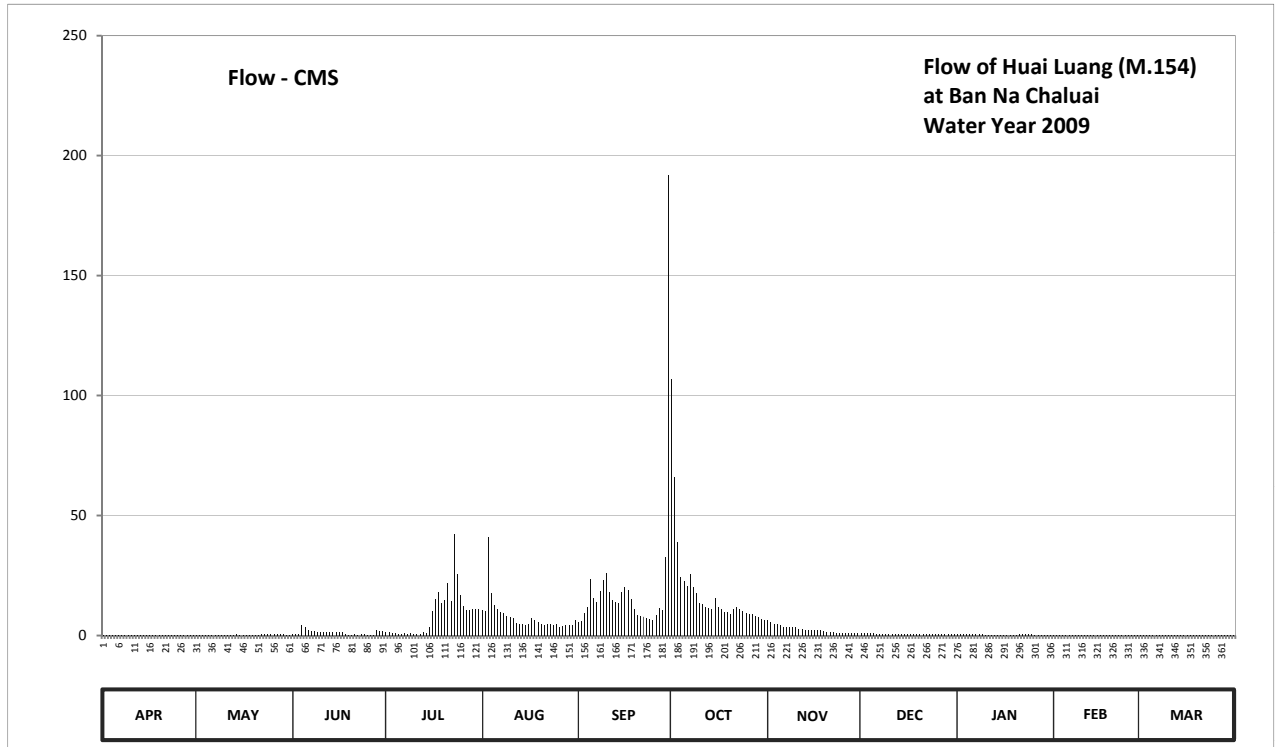
Lat 14 - 27 - 06 N Long 105 - 11 - 34 E

Location : on left bank at the bridge on road.

	Ban Nachaluai	Amphoe Na Chaluai	Changwat Ubon Ratchathani
Drainage Area	210 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+152.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath of the bridge.	Elevation	+162.170 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable		
Overbank Flow Conditions	No overbank flow		
General Description	Records very good. Stage-discharge relation defined by 52 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.97	152.95	153.20	153.56	154.90	154.29	158.83	154.37	153.39	153.19	153.10	153.07	
2	152.97	152.95	153.19	153.65	154.86	154.32	158.30	154.28	153.38	153.18	153.10	153.07	
3	152.96	152.95	153.20	153.51	157.35	154.76	157.25	154.19	153.38	153.18	153.10	153.07	
4	152.96	152.95	154.11	153.40	155.68	155.07	156.25	154.16	153.37	153.16	153.10	153.07	
5	152.96	152.95	153.97	153.27	155.15	156.20	156.14	154.08	153.36	153.16	153.08	153.07	
6	152.95	152.95	153.80	153.23	154.96	155.45	155.96	154.01	153.35	153.16	153.08	153.07	
7	152.95	152.94	153.77	153.41	154.79	155.31	156.36	154.00	153.35	153.16	153.08	153.07	
8	152.94	152.94	153.72	153.28	154.72	155.75	155.93	153.99	153.34	153.16	153.08	153.07	
9	152.94	152.94	153.69	153.36	154.60	156.16	155.68	153.97	153.33	153.16	153.08	153.07	
10	152.93	152.94	153.68	153.25	154.54	156.39	155.27	154.00	153.32	153.15	153.08	153.07	
11	152.93	152.94	153.70	153.22	154.50	155.69	155.19	153.88	153.31	153.15	153.08	153.07	
12	152.92	152.94	153.68	153.20	154.25	155.38	155.06	153.85	153.30	153.15	153.08	153.07	
13	152.92	152.97	153.65	153.57	154.17	155.30	154.99	153.82	153.29	153.15	153.08	153.04	
14	152.92	153.23	153.62	153.55	154.15	155.23	154.95	153.81	153.29	153.14	153.08	153.02	
15	153.05	153.12	153.62	153.97	154.13	155.71	155.46	153.80	153.28	153.14	153.08	153.02	
16	152.93	153.07	153.70	154.82	154.15	155.92	155.05	153.80	153.27	153.13	153.08	153.02	
17	152.90	152.96	153.62	155.41	154.48	155.81	154.95	153.80	153.27	153.12	153.08	153.00	
18	152.89	152.95	153.26	155.71	154.36	155.42	154.81	153.79	153.27	153.11	153.09	153.00	
19	152.89	152.95	153.14	155.23	154.27	154.93	154.77	153.77	153.26	153.10	153.09	152.98	
20	152.88	152.98	153.14	155.36	154.18	154.65	154.70	153.71	153.26	153.10	153.08	152.98	
21	152.88	152.98	153.16	156.06	154.10	154.57	154.93	153.64	153.25	153.20	153.07	152.98	
22	152.87	153.16	153.14	155.34	154.16	154.55	155.05	153.57	153.25	153.18	153.06	152.98	
23	152.87	153.17	153.20	157.42	154.16	154.51	154.94	153.55	153.24	153.18	153.05	152.98	
24	152.87	153.20	153.17	156.37	154.11	154.42	154.83	153.53	153.23	153.17	153.04	152.98	
25	152.88	153.20	153.14	155.60	154.16	154.38	154.73	153.50	153.23	153.16	153.02	152.98	
26	152.94	153.22	153.10	155.13	154.01	154.63	154.70	153.47	153.22	153.15	153.02	152.98	
27	152.93	153.19	153.09	154.90	154.06	155.02	154.68	153.45	153.22	153.14	153.00	152.98	
28	152.92	153.20	153.82	154.92	154.10	154.88	154.61	153.42	153.21	153.13	153.00	152.98	
29	152.92	153.19	153.77	154.94	154.10	156.91	154.53	153.40	153.20	153.13		152.98	
30	152.96	153.14	153.75	154.94	154.08	159.44	154.43	153.39	153.20	153.12		152.98	
31		153.14		154.96	154.39		154.38		153.20	153.12		152.98	
Mean	152.93	153.04	153.49	154.47	154.50	155.37	155.41	153.80	153.28	153.15	153.07	153.02	
Max	153.05	153.23	154.11	157.42	157.35	159.44	158.83	154.37	153.39	153.20	153.10	153.07	159.44
Min	152.87	152.94	153.09	153.20	154.01	154.29	154.38	153.39	153.20	153.10	153.00	152.98	152.87
Annual Max Momentary Gage Height	159.84		m. (MSL.) ,			at 18.00 Hours, on Sep 30, 2009							
Zero Gage at Bottom Elevation	152.00		m. (MSL.) ,		River Bed	151.63	m. (MSL)						
Left Bank Elevation	161.91		m. (MSL.) ,										
Right Bank Elevation	161.90		m. (MSL.) ,		Drainage Area	210	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.13	0.50	1.22	10.60	5.72	106.90	6.36	0.88	0.48	0.30	0.26	
2	0.15	0.13	0.48	1.40	10.28	5.96	66.00	5.64	0.86	0.46	0.30	0.26	
3	0.14	0.13	0.50	1.12	41.00	9.48	39.00	4.93	0.86	0.46	0.30	0.26	
4	0.14	0.13	4.37	0.90	17.80	11.96	24.25	4.72	0.84	0.42	0.30	0.26	
5	0.14	0.13	3.39	0.64	12.60	23.60	22.82	4.16	0.82	0.42	0.27	0.26	
6	0.13	0.13	2.20	0.56	11.08	15.50	20.60	3.67	0.80	0.42	0.27	0.26	
7	0.13	0.13	1.99	0.92	9.72	14.10	25.68	3.60	0.80	0.42	0.27	0.26	
8	0.13	0.13	1.64	0.66	9.16	18.50	20.30	3.53	0.78	0.42	0.27	0.26	
9	0.13	0.13	1.48	0.82	8.20	23.08	17.80	3.39	0.76	0.42	0.27	0.26	
10	0.12	0.13	1.46	0.60	7.72	26.07	13.70	3.60	0.74	0.40	0.27	0.26	
11	0.12	0.13	1.50	0.54	7.40	17.90	12.92	2.76	0.72	0.40	0.27	0.26	
12	0.11	0.13	1.46	0.50	5.40	14.80	11.88	2.55	0.70	0.40	0.27	0.26	
13	0.11	0.15	1.40	1.24	4.79	14.00	11.32	2.34	0.68	0.40	0.27	0.22	
14	0.11	0.56	1.34	1.20	4.65	13.30	11.00	2.27	0.68	0.38	0.27	0.20	
15	0.24	0.34	1.34	3.39	4.51	18.10	15.60	2.20	0.66	0.38	0.27	0.20	
16	0.12	0.26	1.50	9.96	4.65	20.20	11.80	2.20	0.64	0.36	0.27	0.20	
17	0.10	0.14	1.34	15.10	7.24	19.10	11.00	2.20	0.64	0.34	0.27	0.17	
18	0.09	0.13	0.62	18.10	6.28	15.20	9.88	2.13	0.64	0.32	0.29	0.17	
19	0.09	0.13	0.38	13.30	5.56	10.84	9.56	1.99	0.62	0.30	0.29	0.16	
20	0.09	0.16	0.38	14.60	4.86	8.60	9.00	1.57	0.62	0.30	0.27	0.16	
21	0.09	0.16	0.42	21.78	4.30	7.96	10.84	1.38	0.60	0.50	0.26	0.16	
22	0.08	0.42	0.38	14.40	4.72	7.80	11.80	1.24	0.60	0.46	0.25	0.16	
23	0.08	0.44	0.50	42.40	4.72	7.48	10.92	1.20	0.58	0.46	0.24	0.16	
24	0.08	0.50	0.44	25.81	4.37	6.76	10.04	1.16	0.56	0.44	0.22	0.16	
25	0.09	0.50	0.38	17.00	4.72	6.44	9.24	1.10	0.56	0.42	0.20	0.16	
26	0.13	0.54	0.30	12.44	3.67	8.44	9.00	1.04	0.54	0.40	0.20	0.16	
27	0.12	0.48	0.29	10.60	4.02	11.56	8.84	1.00	0.54	0.38	0.17	0.16	
28	0.11	0.50	2.34	10.76	4.30	10.44	8.28	0.94	0.52	0.36	0.17	0.16	
29	0.11	0.48	1.99	10.92	4.30	32.83	7.64	0.90	0.50	0.36		0.16	
30	0.14	0.38	1.85	10.92	4.16	191.80	6.84	0.88	0.50	0.34		0.16	
31		0.38		11.08	6.52		6.44		0.50	0.34		0.16	
Total	3.57	8.21	38.16	274.88	243.30	597.52	570.89	76.65	20.74	12.36	7.27	6.36	1859.91 CMSDAY
Mean	0.12	0.26	1.27	8.87	7.85	19.92	18.42	2.55	0.67	0.40	0.26	0.21	5.10 CMS
Max	0.24	0.56	4.37	42.40	41.00	191.80	106.90	6.36	0.88	0.50	0.30	0.26	191.80 CMS
Min	0.08	0.13	0.29	0.50	3.67	5.72	6.44	0.88	0.50	0.30	0.17	0.16	0.08 CMS
Runoff	0.31	0.71	3.30	23.75	21.02	51.63	49.33	6.62	1.79	1.07	0.63	0.55	160.70 MCM
Momentary Peak	259.80 CMS, at 159.84 m. (MSL), at 18.00 Hours, on Sep 30, 2009												
Runoff Yield	24.26 Liters/Second/Square KM.			Momentary Peak Yield			1237.143	Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

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

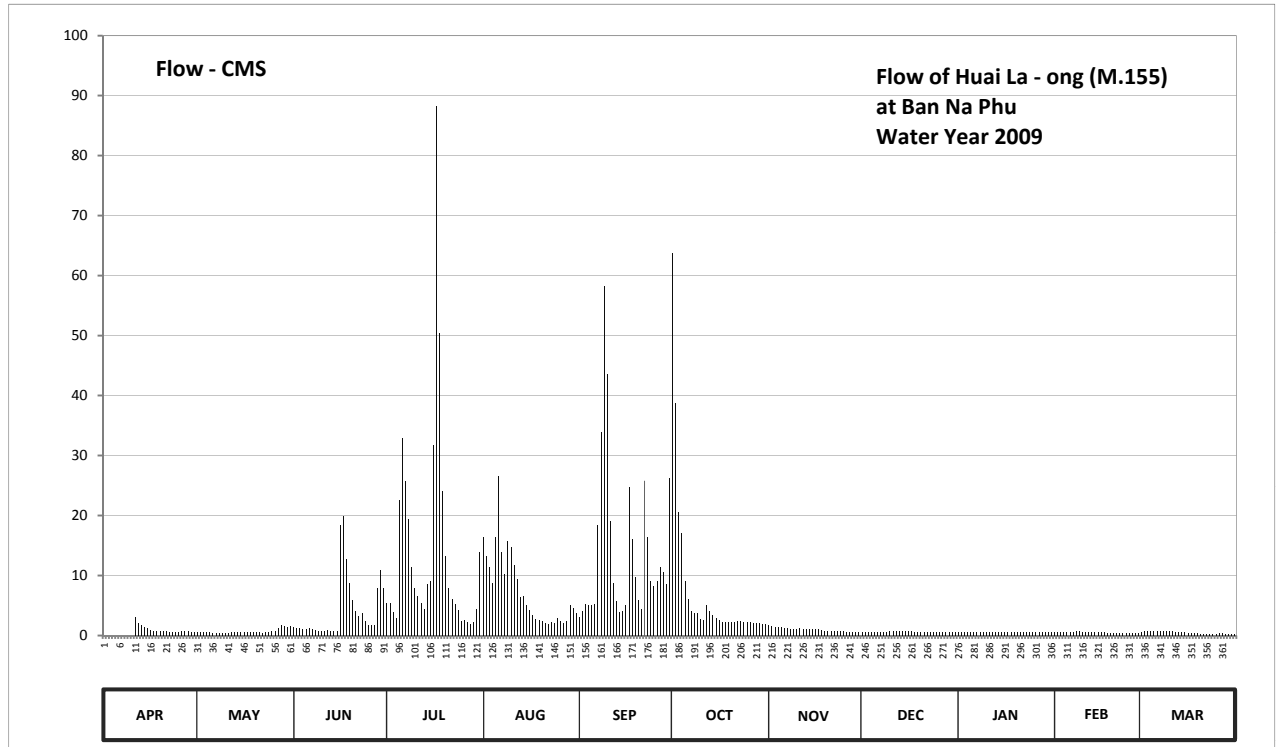
Lat 16 - 00 - 15 N Long 104 - 38 - 39 E

Location : on left bank at the bridge on road.

	Ban	Na Phu	Amphoe	Mueang	Changwat	Amnart Charoen
Drainage Area	219	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+136.185 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank upstream side at the footpath of the bridge.				Elevation	+145.730 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 means 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	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. The weir situated about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.81	136.83	136.96	137.33	137.71	137.20	139.02	137.02	136.84	136.83	136.82	136.84	
2	136.80	136.83	136.94	137.33	137.61	137.26	138.35	137.00	136.84	136.83	136.82	136.85	
3	136.80	136.83	136.93	137.25	137.55	137.32	137.83	136.98	136.84	136.83	136.82	136.85	
4	136.79	136.82	136.91	137.18	137.46	137.31	137.73	136.97	136.84	136.83	136.82	136.85	
5	136.79	136.82	136.92	137.89	137.71	137.31	137.47	136.96	136.84	136.83	136.82	136.85	
6	136.79	136.81	136.93	138.18	138.00	137.32	137.36	136.94	136.84	136.83	136.82	136.85	
7	136.79	136.81	136.91	137.98	137.63	137.77	137.26	136.93	136.84	136.83	136.82	136.85	
8	136.78	136.81	136.89	137.80	137.51	138.21	137.24	136.91	136.84	136.83	136.85	136.85	
9	136.78	136.81	136.87	137.55	137.69	138.88	137.24	136.91	136.84	136.83	136.85	136.86	
10	136.77	136.80	136.85	137.43	137.66	138.49	137.17	136.92	136.85	136.83	136.84	136.86	
11	137.20	136.80	136.85	137.38	137.56	137.79	137.14	136.93	136.86	136.83	136.84	136.85	
12	137.09	136.82	136.88	137.33	137.48	137.46	137.31	136.91	136.86	136.83	136.84	136.84	
13	137.02	136.83	136.87	137.28	137.37	137.34	137.26	136.91	136.86	136.83	136.83	136.84	
14	136.98	136.83	136.86	137.45	137.38	137.25	137.22	136.91	136.86	136.83	136.83	136.84	
15	136.93	136.82	136.86	137.47	137.31	137.26	137.18	136.91	136.85	136.83	136.82	136.82	
16	136.89	136.82	137.77	138.15	137.27	137.31	137.14	136.90	136.85	136.82	136.82	136.80	
17	136.86	136.82	137.81	139.63	137.22	137.95	137.11	136.90	136.85	136.82	136.82	136.78	
18	136.86	136.82	137.59	138.68	137.17	137.70	137.11	136.88	136.84	136.82	136.81	136.77	
19	136.86	136.82	137.46	137.93	137.15	137.49	137.10	136.87	136.84	136.82	136.81	136.77	
20	136.86	136.83	137.35	137.61	137.12	137.35	137.10	136.86	136.84	136.82	136.81	136.75	
21	136.85	136.82	137.26	137.43	137.09	137.28	137.11	136.86	136.84	136.82	136.81	136.74	
22	136.84	136.81	137.21	137.36	137.05	137.98	137.13	136.85	136.84	136.82	136.81	136.74	
23	136.84	136.84	137.24	137.32	137.10	137.71	137.12	136.85	136.84	136.82	136.81	136.76	
24	136.83	136.82	137.12	137.27	137.08	137.47	137.11	136.85	136.83	136.82	136.81	136.75	
25	136.83	136.86	137.03	137.12	137.18	137.44	137.10	136.85	136.83	136.82	136.81	136.75	
26	136.85	136.87	137.03	137.14	137.13	137.47	137.10	136.84	136.83	136.82	136.81	136.77	
27	136.85	136.95	137.02	137.10	137.09	137.55	137.09	136.84	136.83	136.82	136.81	136.77	
28	136.85	137.02	137.43	137.06	137.12	137.52	137.08	136.84	136.83	136.82	136.81	136.76	
29	136.84	136.99	137.53	137.10	137.31	137.45	137.07	136.84	136.83	136.82		136.75	
30	136.84	136.97	137.43	137.28	137.29	137.99	137.06	136.84	136.83	136.82		136.75	
31		136.99		137.63	137.24		137.04		136.83	136.82		136.74	
Mean	136.86	136.85	137.12	137.57	137.36	137.59	137.30	136.90	136.84	136.82	136.82	136.80	
Max	137.20	137.02	137.81	139.63	138.00	138.88	139.02	137.02	136.86	136.83	136.85	136.86	139.63
Min	136.77	136.80	136.85	137.06	137.05	137.20	137.04	136.84	136.83	136.82	136.81	136.74	136.74
Annual Max Momentary Gage Height	139.73		m. (MSL.) ,			at 12.00 Hours, on Jul 17, 2009							
Zero Gage at Bottom Elevation	136.18		m. (MSL.) ,			River Bed	135.71		m. (MSL)				
Left Bank Elevation		145.73		m. (MSL.) ,									
Right Bank Elevation		145.73		m. (MSL.) ,		Drainage Area	219		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.58	1.36	5.46	16.35	3.00	63.80	1.72	0.64	0.58	0.52	0.64	
2	0.00	0.58	1.24	5.46	13.30	4.08	38.75	1.60	0.64	0.58	0.52	0.70	
3	0.00	0.58	1.18	3.90	11.50	5.24	20.55	1.48	0.64	0.58	0.52	0.70	
4	0.00	0.52	1.06	2.84	8.80	5.02	17.05	1.42	0.64	0.58	0.52	0.70	
5	0.00	0.52	1.12	22.65	16.35	5.02	9.10	1.36	0.64	0.58	0.52	0.70	
6	0.00	0.46	1.18	32.80	26.50	5.24	6.12	1.24	0.64	0.58	0.52	0.70	
7	0.00	0.46	1.06	25.80	13.90	18.45	4.08	1.18	0.64	0.58	0.52	0.70	
8	0.00	0.46	0.94	19.50	10.30	33.85	3.72	1.06	0.64	0.58	0.70	0.70	
9	0.00	0.46	0.82	11.50	15.70	58.20	3.72	1.06	0.64	0.58	0.70	0.76	
10	0.00	0.40	0.70	7.90	14.80	43.65	2.76	1.12	0.70	0.58	0.64	0.76	
11	3.00	0.40	0.70	6.56	11.80	19.15	2.52	1.18	0.76	0.58	0.64	0.70	
12	2.14	0.52	0.88	5.46	9.40	8.80	5.02	1.06	0.76	0.58	0.64	0.64	
13	1.72	0.58	0.82	4.44	6.34	5.68	4.08	1.06	0.76	0.58	0.58	0.64	
14	1.48	0.58	0.76	8.50	6.56	3.90	3.36	1.06	0.76	0.58	0.58	0.64	
15	1.18	0.52	0.76	9.10	5.02	4.08	2.84	1.06	0.70	0.58	0.52	0.52	
16	0.94	0.52	18.45	31.75	4.26	5.02	2.52	1.00	0.70	0.52	0.52	0.40	
17	0.76	0.52	19.85	88.20	3.36	24.75	2.28	1.00	0.70	0.52	0.52	0.36	
18	0.76	0.52	12.70	50.30	2.76	16.00	2.28	0.88	0.64	0.52	0.46	0.34	
19	0.76	0.52	8.80	24.05	2.60	9.70	2.20	0.82	0.64	0.52	0.46	0.34	
20	0.76	0.58	5.90	13.30	2.36	5.90	2.20	0.76	0.64	0.52	0.46	0.30	
21	0.70	0.52	4.08	7.90	2.14	4.44	2.28	0.76	0.64	0.52	0.46	0.28	
22	0.64	0.46	3.18	6.12	1.90	25.80	2.44	0.70	0.64	0.52	0.46	0.28	
23	0.64	0.64	3.72	5.24	2.20	16.35	2.36	0.70	0.64	0.52	0.46	0.32	
24	0.58	0.52	2.36	4.26	2.08	9.10	2.28	0.70	0.58	0.52	0.46	0.30	
25	0.58	0.76	1.78	2.36	2.84	8.20	2.20	0.70	0.58	0.52	0.46	0.30	
26	0.70	0.82	1.78	2.52	2.44	9.10	2.20	0.64	0.58	0.52	0.46	0.34	
27	0.70	1.30	1.72	2.20	2.14	11.50	2.14	0.64	0.58	0.52	0.46	0.34	
28	0.70	1.72	7.90	1.96	2.36	10.60	2.08	0.64	0.58	0.52	0.46	0.32	
29	0.64	1.54	10.90	2.20	5.02	8.50	2.02	0.64	0.58	0.52		0.30	
30	0.64	1.42	7.90	4.44	4.62	26.15	1.96	0.64	0.58	0.52		0.30	
31		1.54		13.90	3.72		1.84		0.58	0.52		0.28	
Total	20.02	21.52	125.60	432.57	233.42	414.47	222.75	29.88	20.08	17.02	14.74	15.30	1567.37 CMSDAY
Mean	0.67	0.69	4.19	13.95	7.53	13.82	7.19	1.00	0.65	0.55	0.53	0.49	4.29 CMS
Max	3.00	1.72	19.85	88.20	26.50	58.20	63.80	1.72	0.76	0.58	0.70	0.76	88.20 CMS
Min	0.00	0.40	0.70	1.96	1.90	3.00	1.84	0.64	0.58	0.52	0.46	0.28	0.00 CMS
Runoff	1.73	1.86	10.85	37.37	20.17	35.81	19.25	2.58	1.74	1.47	1.27	1.32	135.42 MCM
Momentary Peak	92.20 CMS, at 139.73 m. (MSL), at 12.00 Hours, on Jul 17, 2009												
Runoff Yield	19.61 Liters/Second/Square KM.			Momentary Peak Yield			421.005 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

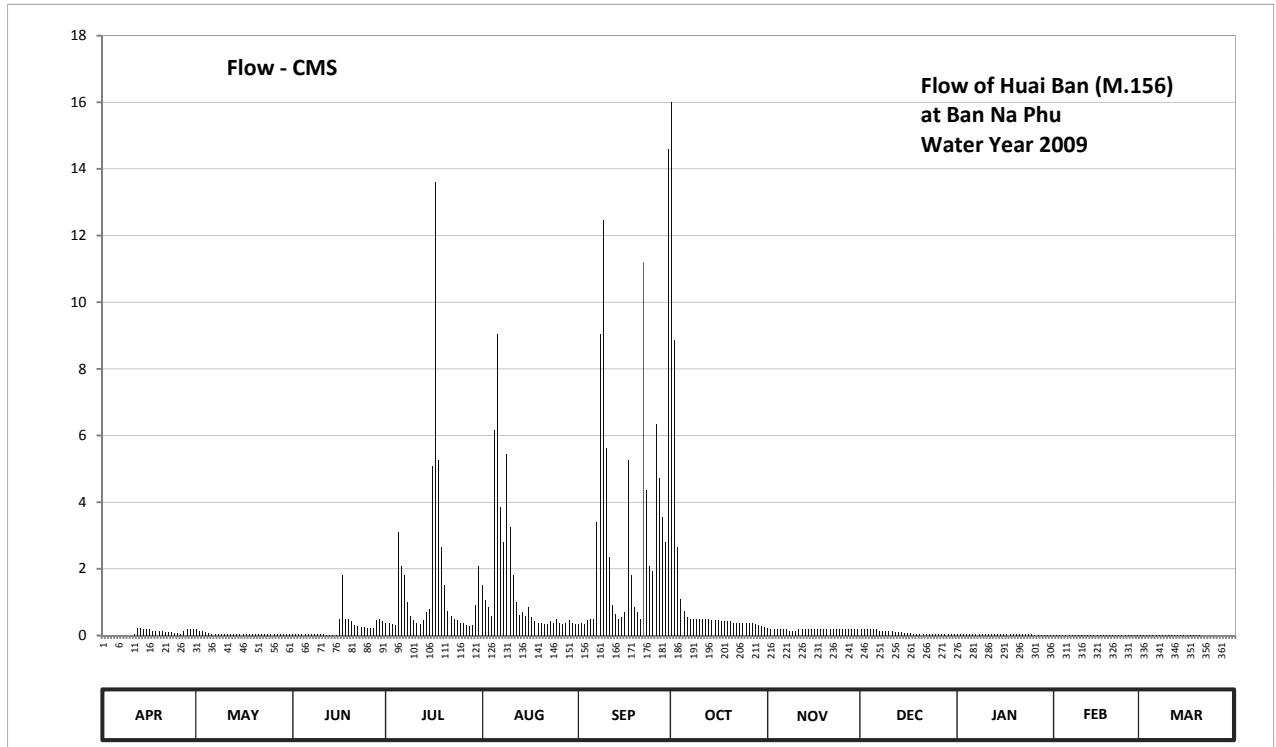
Lat 15 - 59 - 14 N Long 104 - 38 - 28 E

Location : on left bank at the bridge on road.

	Ban Na Phu	Amphoe Mueang	Changwat Amnart Charoen
Drainage Area	40	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+139.070 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the footpath of the bridge.		Elevation +145.300 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 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	Stable		
Overbank Flow Conditions	No overbank flow		
General Description	Records fair. The concrete weir situated about 250 meters downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.41	140.35	140.24	140.43	140.63	140.41	141.45	140.37	140.35	140.25	140.09	140.10	
2	139.41	140.34	140.23	140.42	140.59	140.42	141.07	140.36	140.35	140.25	140.08	140.10	
3	139.40	140.33	140.23	140.41	140.55	140.41	140.71	140.36	140.35	140.25	140.07	140.10	
4	139.40	140.32	140.23	140.40	140.49	140.45	140.60	140.36	140.35	140.24	140.07	140.09	
5	139.40	140.31	140.22	140.74	140.92	140.46	140.53	140.35	140.35	140.24	140.08	140.09	
6	139.39	140.30	140.21	140.67	141.08	140.47	140.48	140.35	140.35	140.23	140.09	140.09	
7	139.39	140.29	140.20	140.65	140.79	140.76	140.47	140.35	140.34	140.22	140.11	140.09	
8	139.39	140.28	140.19	140.58	140.72	141.08	140.47	140.34	140.34	140.22	140.12	140.09	
9	139.37	140.27	140.18	140.49	140.88	141.27	140.47	140.34	140.34	140.22	140.12	140.09	
10	139.37	140.26	140.17	140.45	140.75	140.89	140.47	140.34	140.33	140.21	140.12	140.09	
11	140.23	140.24	140.16	140.43	140.65	140.69	140.46	140.36	140.33	140.21	140.12	140.08	
12	140.37	140.22	140.15	140.41	140.58	140.56	140.46	140.36	140.32	140.20	140.11	140.08	
13	140.37	140.25	140.14	140.45	140.50	140.51	140.46	140.36	140.32	140.20	140.11	140.07	
14	140.36	140.26	140.13	140.52	140.52	140.46	140.45	140.36	140.32	140.19	140.11	140.07	
15	140.36	140.23	140.12	140.54	140.49	140.48	140.45	140.35	140.31	140.19	140.11	140.07	
16	140.35	140.21	140.46	140.86	140.55	140.52	140.45	140.35	140.31	140.18	140.11	140.07	
17	140.34	140.20	140.65	141.33	140.48	140.87	140.44	140.35	140.31	140.18	140.10	140.07	
18	140.34	140.19	140.47	140.87	140.44	140.65	140.44	140.35	140.30	140.18	140.10	140.06	
19	140.33	140.18	140.46	140.71	140.42	140.55	140.44	140.35	140.29	140.17	140.10	140.06	
20	140.33	140.18	140.44	140.63	140.42	140.52	140.44	140.35	140.29	140.16	140.10	140.04	
21	140.32	140.22	140.40	140.53	140.41	140.47	140.43	140.35	140.28	140.18	140.10	140.01	
22	140.32	140.21	140.39	140.49	140.41	141.20	140.43	140.35	140.28	140.19	140.09	139.98	
23	140.32	140.22	140.38	140.47	140.44	140.82	140.43	140.35	140.27	140.18	140.09	139.93	
24	140.31	140.23	140.38	140.45	140.42	140.67	140.43	140.35	140.27	140.17	140.11	139.87	
25	140.31	140.24	140.37	140.43	140.46	140.66	140.42	140.35	140.27	140.16	140.11	139.81	
26	140.30	140.26	140.37	140.43	140.42	140.93	140.42	140.35	140.26	140.15	140.11	139.74	
27	140.33	140.24	140.37	140.40	140.41	140.84	140.42	140.35	140.26	140.14	140.11	139.69	
28	140.36	140.23	140.45	140.39	140.42	140.77	140.41	140.35	140.26	140.13	140.10	139.63	
29	140.36	140.23	140.46	140.40	140.45	140.72	140.40	140.35	140.26	140.12		139.56	
30	140.36	140.23	140.44	140.56	140.42	141.38	140.39	140.35	140.26	140.11		139.50	
31		140.24		140.67	140.41		140.38		140.26	140.10		139.44	
Mean	140.02	140.25	140.31	140.56	140.55	140.70	140.51	140.35	140.31	140.19	140.10	139.96	
Max	140.37	140.35	140.65	141.33	141.08	141.38	141.45	140.37	140.35	140.25	140.12	140.10	141.45
Min	139.37	140.18	140.12	140.39	140.41	140.41	140.38	140.34	140.26	140.10	140.07	139.44	139.37
Annual Max Momentary Gage Height	141.77		m. (MSL.) ,				at 06.00 Hours, on Oct 1, 2009						
Zero Gage at Bottom Elevation	139.07		m. (MSL.) ,			River Bed	139.78	m. (MSL)					
Left Bank Elevation		145.30		m. (MSL.) ,									
Right Bank Elevation		145.33		m. (MSL.) ,		Drainage Area	40	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.18	0.04	0.39	1.52	0.33	16.00	0.22	0.18	0.04	0.01	0.02	
2	0.00	0.15	0.04	0.36	1.05	0.36	8.86	0.20	0.18	0.04	0.01	0.02	
3	0.00	0.13	0.04	0.33	0.85	0.33	2.65	0.20	0.18	0.04	0.01	0.02	
4	0.00	0.10	0.04	0.30	0.57	0.45	1.10	0.20	0.18	0.04	0.01	0.01	
5	0.00	0.07	0.04	3.10	6.16	0.48	0.75	0.18	0.18	0.04	0.01	0.01	
6	0.00	0.05	0.04	2.08	9.04	0.51	0.54	0.18	0.18	0.04	0.01	0.01	
7	0.00	0.05	0.03	1.80	3.85	3.40	0.51	0.18	0.15	0.04	0.02	0.01	
8	0.00	0.05	0.03	1.00	2.80	9.04	0.51	0.15	0.15	0.04	0.02	0.01	
9	0.00	0.05	0.03	0.57	5.44	12.46	0.51	0.15	0.15	0.04	0.02	0.01	
10	0.00	0.04	0.03	0.45	3.25	5.62	0.51	0.15	0.13	0.04	0.02	0.01	
11	0.04	0.04	0.03	0.39	1.80	2.36	0.48	0.20	0.13	0.04	0.02	0.01	
12	0.22	0.04	0.02	0.33	1.00	0.90	0.48	0.20	0.10	0.03	0.02	0.01	
13	0.22	0.04	0.02	0.45	0.60	0.65	0.48	0.20	0.10	0.03	0.02	0.01	
14	0.20	0.04	0.02	0.70	0.70	0.48	0.45	0.20	0.10	0.03	0.02	0.01	
15	0.20	0.04	0.02	0.80	0.57	0.54	0.45	0.18	0.07	0.03	0.02	0.01	
16	0.18	0.04	0.48	5.08	0.85	0.70	0.45	0.18	0.07	0.03	0.02	0.01	
17	0.15	0.03	1.80	13.60	0.54	5.26	0.42	0.18	0.07	0.03	0.02	0.01	
18	0.15	0.03	0.51	5.26	0.42	1.80	0.42	0.18	0.05	0.03	0.02	0.01	
19	0.13	0.03	0.48	2.65	0.36	0.85	0.42	0.18	0.05	0.03	0.02	0.01	
20	0.13	0.03	0.42	1.52	0.36	0.70	0.42	0.18	0.05	0.03	0.02	0.01	
21	0.10	0.04	0.30	0.75	0.33	0.51	0.39	0.18	0.05	0.03	0.02	0.00	
22	0.10	0.04	0.28	0.57	0.33	11.20	0.39	0.18	0.05	0.03	0.01	0.00	
23	0.10	0.04	0.25	0.51	0.42	4.36	0.39	0.18	0.05	0.03	0.01	0.00	
24	0.07	0.04	0.25	0.45	0.36	2.08	0.39	0.18	0.05	0.03	0.02	0.00	
25	0.07	0.04	0.22	0.39	0.48	1.94	0.36	0.18	0.05	0.03	0.02	0.00	
26	0.05	0.04	0.22	0.39	0.36	6.34	0.36	0.18	0.04	0.02	0.02	0.00	
27	0.13	0.04	0.22	0.30	0.33	4.72	0.36	0.18	0.04	0.02	0.02	0.00	
28	0.20	0.04	0.45	0.28	0.36	3.55	0.33	0.18	0.04	0.02	0.02	0.00	
29	0.20	0.04	0.48	0.30	0.45	2.80	0.30	0.18	0.04	0.02		0.00	
30	0.20	0.04	0.42	0.90	0.36	14.60	0.28	0.18	0.04	0.02		0.00	
31		0.04		2.08	0.33		0.25		0.04	0.02		0.00	
Total	2.84	1.67	7.25	48.08	45.84	99.32	40.21	5.49	2.94	0.98	0.48	0.23	255.33 CMSDAY
Mean	0.09	0.05	0.24	1.55	1.48	3.31	1.30	0.18	0.09	0.03	0.02	0.01	0.70 CMS
Max	0.22	0.18	1.80	13.60	9.04	14.60	16.00	0.22	0.18	0.04	0.02	0.02	16.00 CMS
Min	0.00	0.03	0.02	0.28	0.33	0.33	0.25	0.15	0.04	0.02	0.01	0.00	0.00 CMS
Runoff	0.25	0.14	0.63	4.15	3.96	8.58	3.47	0.47	0.25	0.09	0.04	0.02	22.06 MCM
Momentary Peak	23.75 CMS, at 141.77 m. (MSL), at 06.00 Hours, on Oct 1, 2009												
Runoff Yield	17.49 Liters/Second/Square KM.			Momentary Peak Yield			593.750 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

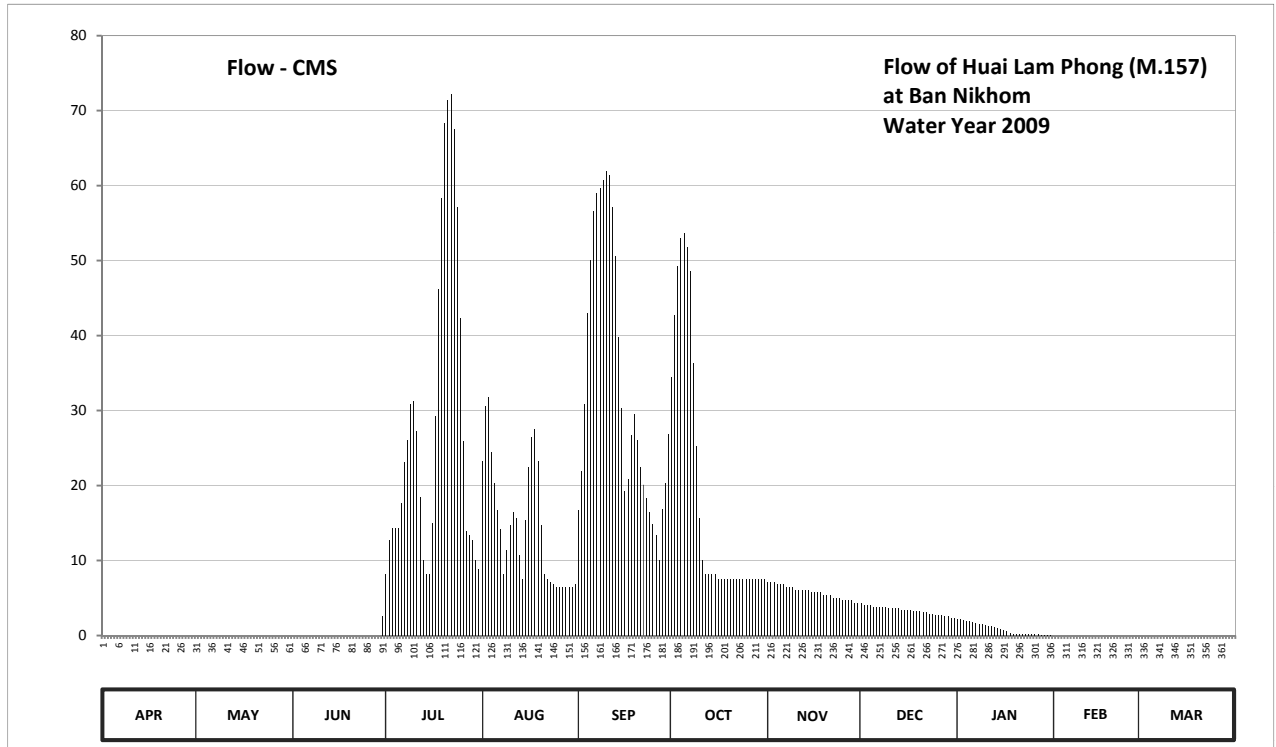
Lat 15 - 48 - 17 N Long 104 - 19 - 52 E

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

	Ban Nikhom	Amphoe Pa Tio	Changwat	Yasothon
Drainage Area	729	sq.km.		
Type of Gage	Staff gage.			
Zero Gage at Bottom	+121.510 m. (MSL.)			
Bench Mark	B.M.-H.D.			
Location BM	On right bank upstream side of the footpath of the bridge.			Elevation +131.600 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 means of 5 readings			
Period of Available Gage Records	1997 to date			
Rating Operation				
Period of Rating	1997 - 1999, 2001 to date			
Rated by Flot	-			
Rated by Current Meter	1997 - 1999, 2001 to date			
Stability of Channel Regimes	Stable.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2009.			

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.32	124.05	124.12	125.51	126.09	125.76	126.55	125.49	125.41	125.30	124.90	124.54	
2	124.32	124.05	124.13	125.58	126.42	126.02	126.79	125.49	125.40	125.29	124.89	124.51	
3	124.31	124.04	124.14	125.62	126.46	126.43	126.98	125.49	125.40	125.28	124.87	124.50	
4	124.30	124.04	124.16	125.62	126.15	126.80	127.05	125.48	125.40	125.26	124.86	124.48	
5	124.29	124.02	124.18	125.62	125.94	127.00	127.06	125.48	125.39	125.25	124.85	124.45	
6	124.27	124.00	124.20	125.81	125.76	127.11	127.03	125.48	125.39	125.23	124.84	124.44	
7	124.25	123.97	124.21	126.08	125.61	127.15	126.96	125.47	125.39	125.22	124.83	124.43	
8	124.24	123.95	124.21	126.23	125.51	127.16	126.61	125.47	125.39	125.20	124.82	124.42	
9	124.21	123.92	124.19	126.43	125.56	127.18	126.19	125.47	125.39	125.19	124.81	124.41	
10	124.19	123.90	124.14	126.44	125.65	127.20	125.71	125.46	125.38	125.18	124.79	124.39	
11	124.18	123.88	124.07	126.29	125.75	127.19	125.54	125.46	125.38	125.16	124.77	124.37	
12	124.18	123.95	124.01	125.85	125.71	127.12	125.51	125.46	125.38	125.15	124.76	124.34	
13	124.18	123.87	123.94	125.54	125.55	127.01	125.51	125.46	125.38	125.13	124.75	124.32	
14	124.18	123.86	123.82	125.51	125.50	126.71	125.51	125.46	125.37	125.11	124.74	124.29	
15	124.18	123.84	123.70	125.51	125.69	126.41	125.51	125.45	125.37	125.09	124.73	124.27	
16	124.17	123.82	123.60	125.67	126.05	125.89	125.50	125.45	125.37	125.07	124.72	124.26	
17	124.15	123.79	123.55	126.37	126.25	125.97	125.50	125.45	125.37	125.05	124.71	124.24	
18	124.14	123.76	123.54	126.89	126.30	126.26	125.50	125.45	125.36	125.02	124.70	124.23	
19	124.13	123.73	123.85	127.14	126.09	126.38	125.50	125.44	125.36	124.99	124.69	124.22	
20	124.12	123.70	124.07	127.29	125.65	126.23	125.50	125.44	125.36	124.98	124.68	124.19	
21	124.10	123.68	124.23	127.33	125.51	126.05	125.50	125.44	125.35	124.97	124.66	124.17	
22	124.07	123.65	124.33	127.34	125.50	125.93	125.50	125.43	125.35	124.99	124.64	124.15	
23	124.05	123.62	124.40	127.28	125.49	125.84	125.50	125.43	125.34	124.99	124.63	124.14	
24	124.04	123.81	124.41	127.12	125.48	125.75	125.50	125.43	125.34	124.99	124.62	124.12	
25	124.04	123.82	124.41	126.78	125.47	125.66	125.50	125.42	125.33	124.98	124.60	124.10	
26	124.04	123.89	124.38	126.22	125.47	125.59	125.50	125.42	125.33	124.97	124.57	124.09	
27	124.04	123.93	124.29	125.60	125.47	125.54	125.50	125.42	125.33	124.96	124.56	124.08	
28	124.04	123.96	124.26	125.59	125.47	125.77	125.50	125.42	125.32	124.95	124.55	124.07	
29	124.04	123.99	124.48	125.58	125.47	125.94	125.50	125.41	125.32	124.94		124.06	
30	124.05	124.04	125.32	125.54	125.47	126.27	125.50	125.41	125.31	124.92		124.05	
31		124.09		125.52	125.48		125.50		125.31	124.91		124.04	
Mean	124.16	123.89	124.14	126.16	125.74	126.38	125.89	125.45	125.36	125.09	124.73	124.27	
Max	124.32	124.09	125.32	127.34	126.46	127.20	127.06	125.49	125.41	125.30	124.90	124.54	127.34
Min	124.04	123.62	123.54	125.51	125.47	125.54	125.50	125.41	125.31	124.91	124.55	124.04	123.54
Annual Max Momentary Gage Height		127.34	m. (MSL.) ,				at 06.00 Hours, on Jul 22, 2009						
Zero Gage at Bottom Elevation		121.51	m. (MSL.) ,			River Bed	122.25	m. (MSL)					
Left Bank Elevation		131.26	m. (MSL.) ,										
Right Bank Elevation		131.35	m. (MSL.) ,			Drainage Area	729	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	8.15	23.30	16.70	34.50	7.15	4.35	2.20	0.00	0.00	
2	0.00	0.00	0.00	12.70	30.60	21.90	42.65	7.15	4.00	2.13	0.00	0.00	
3	0.00	0.00	0.00	14.30	31.80	30.90	49.30	7.15	4.00	2.07	0.00	0.00	
4	0.00	0.00	0.00	14.30	24.50	43.00	53.00	6.80	4.00	1.94	0.00	0.00	
5	0.00	0.00	0.00	14.30	20.30	50.00	53.60	6.80	3.82	1.87	0.00	0.00	
6	0.00	0.00	0.00	17.70	16.70	56.60	51.80	6.80	3.82	1.75	0.00	0.00	
7	0.00	0.00	0.00	23.10	14.15	59.00	48.60	6.45	3.82	1.68	0.00	0.00	
8	0.00	0.00	0.00	26.10	8.15	59.60	36.35	6.45	3.82	1.55	0.00	0.00	
9	0.00	0.00	0.00	30.90	11.40	60.80	25.30	6.45	3.82	1.49	0.00	0.00	
10	0.00	0.00	0.00	31.20	14.75	62.00	15.70	6.10	3.64	1.42	0.00	0.00	
11	0.00	0.00	0.00	27.30	16.50	61.40	10.10	6.10	3.64	1.29	0.00	0.00	
12	0.00	0.00	0.00	18.50	15.70	57.20	8.15	6.10	3.64	1.23	0.00	0.00	
13	0.00	0.00	0.00	10.10	10.75	50.60	8.15	6.10	3.64	1.09	0.00	0.00	
14	0.00	0.00	0.00	8.15	7.50	39.85	8.15	6.10	3.46	0.96	0.00	0.00	
15	0.00	0.00	0.00	8.15	15.35	30.30	8.15	5.75	3.46	0.83	0.00	0.00	
16	0.00	0.00	0.00	15.05	22.50	19.30	7.50	5.75	3.46	0.70	0.00	0.00	
17	0.00	0.00	0.00	29.25	26.50	20.90	7.50	5.75	3.46	0.58	0.00	0.00	
18	0.00	0.00	0.00	46.15	27.50	26.70	7.50	5.75	3.28	0.38	0.00	0.00	
19	0.00	0.00	0.00	58.40	23.30	29.50	7.50	5.40	3.28	0.22	0.00	0.00	
20	0.00	0.00	0.00	68.30	14.75	26.10	7.50	5.40	3.28	0.20	0.00	0.00	
21	0.00	0.00	0.00	71.40	8.15	22.50	7.50	5.40	3.10	0.18	0.00	0.00	
22	0.00	0.00	0.00	72.20	7.50	20.10	7.50	5.05	3.10	0.22	0.00	0.00	
23	0.00	0.00	0.00	67.60	7.15	18.30	7.50	5.05	2.92	0.22	0.00	0.00	
24	0.00	0.00	0.00	57.20	6.80	16.50	7.50	5.05	2.92	0.22	0.00	0.00	
25	0.00	0.00	0.00	42.30	6.45	14.90	7.50	4.70	2.74	0.20	0.00	0.00	
26	0.00	0.00	0.00	25.90	6.45	13.35	7.50	4.70	2.74	0.18	0.00	0.00	
27	0.00	0.00	0.00	14.00	6.45	10.10	7.50	4.70	2.74	0.15	0.00	0.00	
28	0.00	0.00	0.00	13.35	6.45	16.90	7.50	4.70	2.56	0.12	0.00	0.00	
29	0.00	0.00	0.00	12.70	6.45	20.30	7.50	4.35	2.56	0.10	0.00	0.00	
30	0.00	0.00	2.56	10.10	6.45	26.90	7.50	4.35	2.38	0.05	0.00	0.00	
31	0.00	0.00	8.80	6.80	7.50	7.50	2.38	0.03	0.00	0.00	0.00	0.00	
Total	0.00	0.00	2.56	877.65	451.10	1002.20	573.50	173.55	103.83	27.25	0.00	0.00	3211.64 CMSDAY
Mean	0.00	0.00	0.09	28.31	14.55	33.41	18.50	5.79	3.35	0.88	0.00	0.00	8.80 CMS
Max	0.00	0.00	2.56	72.20	31.80	62.00	53.60	7.15	4.35	2.20	0.00	0.00	72.20 CMS
Min	0.00	0.00	0.00	8.15	6.45	10.10	7.50	4.35	2.38	0.03	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.22	75.83	38.98	86.59	49.55	15.00	8.97	2.35	0.00	0.00	277.49 MCM
Momentary Peak	72.20 CMS, at 127.34 m. (MSL), at 06.00 Hours, on Jul 22, 2009												
Runoff Yield	12.07 Liters/Second/Square KM.			Momentary Peak Yield			99.040 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

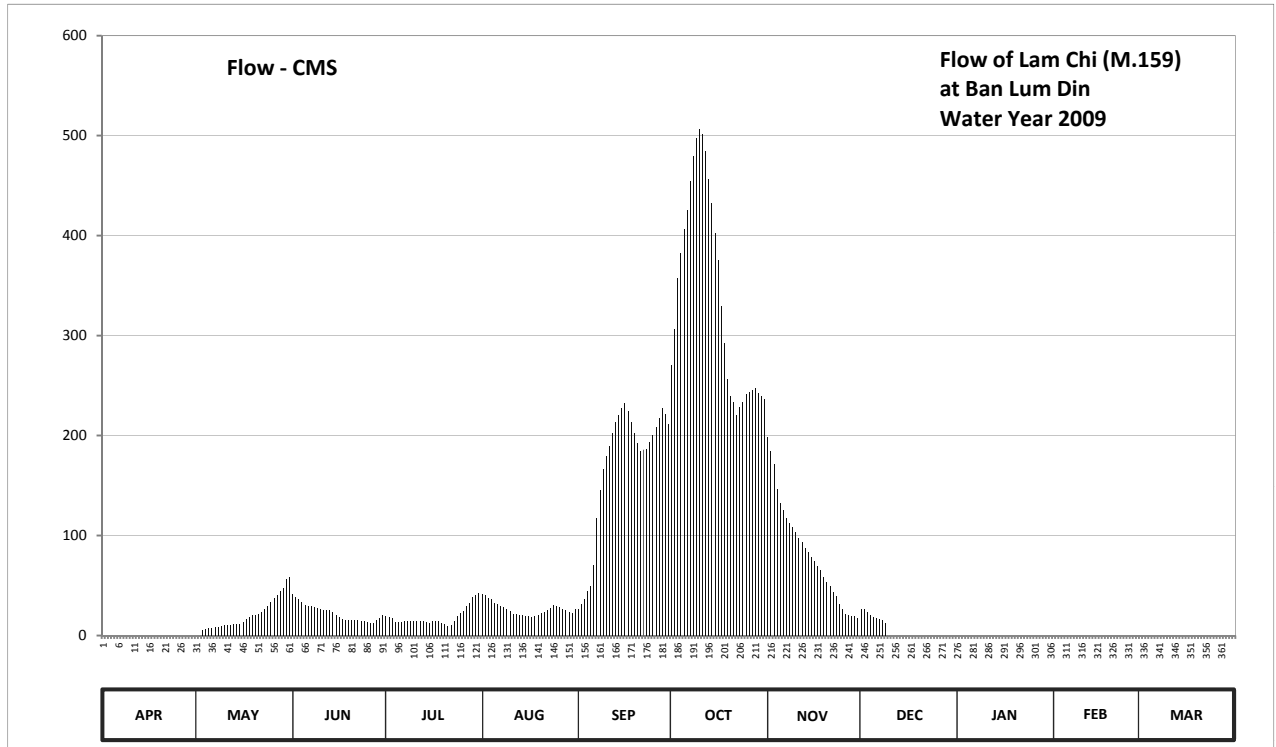
Lat 15 - 08 - 24 N Long 103 - 25 - 57 E

Location : on right bank at Ban Lum Din.

	Ban Lum Din	Amphoe Chom Phra	Changwat Surin
Drainage Area	4,806 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+120.850 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at staff gage line.	Elevation	+131.080 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 means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.40	122.38	123.83	123.14	123.83	123.38	128.00	126.98	123.38	122.74	122.04	121.65	
2	122.40	122.39	123.73	123.08	123.79	123.53	128.45	126.77	123.37	122.75	122.03	121.65	
3	122.40	122.43	123.68	123.03	123.72	123.69	129.05	126.56	123.27	122.75	122.01	121.63	
4	122.39	122.49	123.61	122.83	123.67	123.90	129.33	126.15	123.17	122.74	122.00	121.62	
5	122.39	122.51	123.51	122.82	123.57	124.05	129.60	125.86	123.09	122.73	121.99	121.60	
6	122.39	122.53	123.48	122.84	123.53	124.58	129.81	125.73	123.04	122.70	121.99	121.57	
7	122.39	122.55	123.47	122.85	123.49	125.58	130.13	125.58	122.98	122.67	121.98	121.54	
8	122.38	122.59	123.45	122.86	123.44	126.13	130.39	125.47	122.90	122.65	121.97	121.50	
9	122.38	122.62	123.42	122.87	123.39	126.49	130.58	125.39	122.77	122.63	121.96	121.45	
10	122.38	122.65	123.37	122.88	123.33	126.69	130.67	125.28	122.81	122.58	121.95	121.37	
11	122.38	122.66	123.36	122.88	123.23	126.85	130.62	125.17	122.89	122.53	121.95	121.35	
12	122.37	122.68	123.35	122.89	123.22	127.03	130.45	125.09	122.95	122.50	121.94	121.32	
13	122.37	122.70	123.35	122.85	123.20	127.19	130.15	124.97	122.96	122.48	121.94	121.30	
14	122.37	122.72	123.28	122.83	123.15	127.29	129.88	124.89	122.94	122.47	121.93	121.28	
15	122.37	122.74	123.18	122.80	123.13	127.39	129.55	124.78	122.92	122.45	121.92	121.26	
16	122.36	122.84	123.09	122.89	123.11	127.46	129.25	124.69	122.91	122.41	121.92	121.24	
17	122.36	123.00	122.98	122.87	123.09	127.35	128.74	124.57	122.90	122.38	121.91	121.23	
18	122.36	123.08	122.94	122.85	123.12	127.19	128.28	124.46	122.89	122.33	121.91	121.29	
19	122.36	123.15	122.93	122.80	123.16	127.03	127.81	124.29	122.88	122.32	121.89	121.29	
20	122.36	123.19	122.92	122.71	123.25	126.89	127.56	124.17	122.86	122.31	121.87	121.30	
21	122.36	123.23	122.91	122.61	123.29	126.77	127.47	124.07	122.82	122.30	121.85	121.37	
22	122.37	123.28	122.90	122.66	123.35	126.79	127.29	123.89	122.79	122.27	121.83	121.43	
23	122.37	123.38	122.89	122.87	123.42	126.80	127.40	123.78	122.78	122.24	121.81	121.51	
24	122.37	123.49	122.88	123.13	123.51	126.91	127.48	123.53	122.76	122.22	121.79	121.59	
25	122.37	123.59	122.84	123.26	123.47	127.01	127.59	123.39	122.74	122.19	121.75	121.62	
26	122.37	123.72	122.79	123.33	123.43	127.12	127.62	123.23	122.73	122.15	121.71	121.64	
27	122.37	123.81	122.80	123.48	123.39	127.24	127.65	123.19	122.72	122.12	121.68	121.68	
28	122.37	123.90	122.94	123.57	123.34	127.39	127.68	123.14	122.72	122.10	121.66	121.72	
29	122.37	124.00	123.01	123.74	123.29	127.30	127.61	123.11	122.72	122.07		121.78	
30	122.37	124.23	123.18	123.81	123.26	127.16	127.56	123.03	122.72	122.06		121.84	
31		124.28		123.86	123.37		127.52		122.72	122.05		121.89	
Mean	122.38	123.06	123.20	123.03	123.37	126.34	128.75	124.71	122.91	122.42	121.90	121.50	
Max	122.40	124.28	123.83	123.86	123.83	127.46	130.67	126.98	123.38	122.75	122.04	121.89	130.67
Min	122.36	122.38	122.79	122.61	123.09	123.38	127.29	123.03	122.72	122.05	121.66	121.23	121.23
Annual Max Momentary Gage Height	130.68		m. (MSL.) ,				at 18.00 Hours, on Oct 10, 2009						
Zero Gage at Bottom Elevation	120.85		m. (MSL.) ,			River Bed	120.68		m. (MSL)				
Left Bank Elevation		132.17		m. (MSL.) ,									
Right Bank Elevation		132.24		m. (MSL.) ,		Drainage Area	4806		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	41.55	19.80	41.55	26.40	270.00	198.60	26.40	0.00	0.00	0.00	
2	0.00	0.00	38.05	18.60	40.15	31.05	306.00	184.55	26.10	0.00	0.00	0.00	
3	0.00	5.60	36.30	17.60	37.70	36.65	357.50	170.90	23.10	0.00	0.00	0.00	
4	0.00	6.80	33.85	13.60	35.95	44.00	382.70	146.75	20.40	0.00	0.00	0.00	
5	0.00	7.20	30.35	13.40	32.45	49.25	407.00	132.00	18.80	0.00	0.00	0.00	
6	0.00	7.60	29.40	13.80	31.05	70.20	425.90	125.50	17.80	0.00	0.00	0.00	
7	0.00	8.00	29.10	14.00	29.70	118.00	454.70	118.00	16.60	0.00	0.00	0.00	
8	0.00	8.80	28.50	14.20	28.20	145.65	479.00	112.50	15.00	0.00	0.00	0.00	
9	0.00	9.40	27.60	14.40	26.70	166.35	498.00	108.50	12.40	0.00	0.00	0.00	
10	0.00	10.00	26.10	14.60	24.90	179.35	507.00	103.00	0.00	0.00	0.00	0.00	
11	0.00	10.20	25.80	14.60	21.90	189.75	502.00	97.50	0.00	0.00	0.00	0.00	
12	0.00	10.60	25.50	14.80	21.60	202.10	485.00	93.50	0.00	0.00	0.00	0.00	
13	0.00	11.00	25.50	14.00	21.00	213.30	456.50	87.50	0.00	0.00	0.00	0.00	
14	0.00	11.40	23.40	13.60	20.00	220.30	432.20	83.50	0.00	0.00	0.00	0.00	
15	0.00	11.80	20.60	13.00	19.60	227.30	402.50	78.20	0.00	0.00	0.00	0.00	
16	0.00	13.80	18.80	14.80	19.20	232.20	375.50	74.60	0.00	0.00	0.00	0.00	
17	0.00	17.00	16.60	14.40	18.80	224.50	329.60	69.80	0.00	0.00	0.00	0.00	
18	0.00	18.60	15.80	14.00	19.40	213.30	292.40	65.40	0.00	0.00	0.00	0.00	
19	0.00	20.00	15.60	13.00	20.20	202.10	256.70	58.60	0.00	0.00	0.00	0.00	
20	0.00	20.80	15.40	11.20	22.50	192.35	239.20	53.80	0.00	0.00	0.00	0.00	
21	0.00	21.90	15.20	9.20	23.70	184.55	232.90	49.95	0.00	0.00	0.00	0.00	
22	0.00	23.40	15.00	10.20	25.50	185.85	220.30	43.65	0.00	0.00	0.00	0.00	
23	0.00	26.40	14.80	14.40	27.60	186.50	228.00	39.80	0.00	0.00	0.00	0.00	
24	0.00	29.70	14.60	19.60	30.35	193.70	233.60	31.05	0.00	0.00	0.00	0.00	
25	0.00	33.15	13.80	22.80	29.10	200.70	241.30	26.70	0.00	0.00	0.00	0.00	
26	0.00	37.70	12.80	24.90	27.90	208.40	243.40	21.90	0.00	0.00	0.00	0.00	
27	0.00	40.85	13.00	29.40	26.70	216.80	245.50	20.80	0.00	0.00	0.00	0.00	
28	0.00	44.00	15.80	32.45	25.20	227.30	247.60	19.80	0.00	0.00	0.00	0.00	
29	0.00	47.50	17.20	38.40	23.70	221.00	242.70	19.20	0.00	0.00	0.00	0.00	
30	0.00	56.20	20.60	40.85	22.80	211.20	239.20	17.60	0.00	0.00	0.00	0.00	
31	0.00	58.20	15.40	42.60	26.10	192.35	236.40	15.20	0.00	0.00	0.00	0.00	
Total	0.00	627.60	676.60	576.20	821.20	5020.10	10470.30	2453.15	176.60	0.00	0.00	0.00	20821.75 CMSDAY
Mean	0.00	20.25	22.55	18.59	26.49	167.34	337.75	81.77	5.70	0.00	0.00	0.00	57.05 CMS
Max	0.00	58.20	41.55	42.60	41.55	232.20	507.00	198.60	26.40	0.00	0.00	0.00	507.00 CMS
Min	0.00	0.00	12.80	9.20	18.80	26.40	220.30	17.60	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	54.23	58.46	49.78	70.95	433.74	904.63	211.95	15.26	0.00	0.00	0.00	1799.00 MCM
Momentary Peak	508.00 CMS, at 130.68 m. (MSL), at 18.00 Hours, on Oct 10, 2009												
Runoff Yield	11.87 Liters/Second/Square KM.				Momentary Peak Yield				105.701 Liters/Second/Square KM.				

WATER YEAR : 2009

MUN RIVER BASIN

Lam Ta Khong at Mueang, Nakhon Ratchasima (M.164)

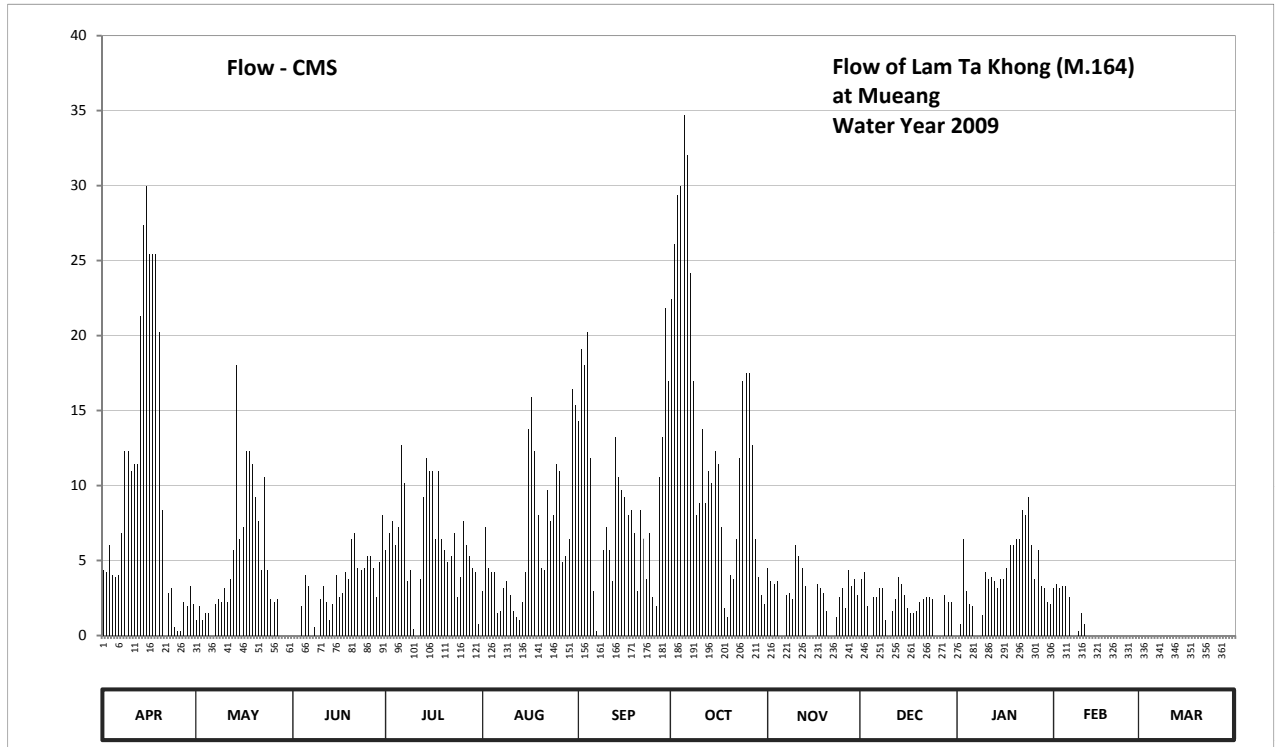
Lat 14 - 58 - 57 N Long 102 - 05 - 52 E

Location : on right bank at the bridge on highway.

	Ban	-	Amphoe	Mueang	Changwat	Nakhon Ratchasima
Drainage Area	3,012	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+173.800 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at staff gage line.				Elevation	+179.559 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 means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Rather unstable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.39	176.17	176.06	176.43	176.30	176.63	176.78	176.40	176.35	175.79	176.31	175.56	
2	176.38	176.23	176.04	176.46	176.47	176.72	176.84	176.34	176.38	176.15	176.33	175.53	
3	176.44	176.17	176.04	176.48	176.40	176.70	176.89	176.33	176.23	176.45	176.31	175.56	
4	176.37	176.20	176.23	176.44	176.38	176.74	176.90	176.34	176.08	176.30	176.32	175.52	
5	176.36	176.20	176.37	176.47	176.38	176.58	176.97	176.07	176.27	176.24	176.32	175.52	
6	176.37	176.03	176.32	176.60	176.20	176.30	176.93	175.77	176.27	176.23	176.27	175.52	
7	176.46	176.24	176.05	176.54	176.21	176.12	176.81	176.28	176.31	176.09	176.06	175.55	
8	176.59	176.26	176.14	176.34	176.31	175.84	176.68	176.29	176.31	175.88	175.86	175.56	
9	176.59	176.25	176.10	176.39	176.34	176.43	176.49	176.26	176.17	176.19	176.12	175.51	
10	176.56	176.31	176.26	176.13	176.28	176.47	176.51	176.44	176.09	176.38	176.20	175.43	
11	176.57	176.25	176.32	176.07	176.21	176.43	176.62	176.42	176.21	176.35	176.15	175.36	
12	176.57	176.35	176.25	176.35	176.18	176.34	176.51	176.40	176.26	176.36	175.92	175.31	
13	176.76	176.43	176.17	176.52	176.17	176.61	176.56	176.32	176.36	176.34	175.72	175.32	
14	176.86	176.70	176.24	176.58	176.25	176.55	176.54	175.98	176.33	176.31	175.63	175.57	
15	176.90	176.45	176.37	176.56	176.38	176.53	176.59	175.86	176.28	176.35	175.58	175.51	
16	176.83	176.47	176.27	176.56	176.62	176.52	176.57	176.09	176.22	176.35	175.73	175.46	
17	176.83	176.59	176.29	176.45	176.66	176.49	176.47	176.33	176.20	176.40	175.84	175.39	
18	176.83	176.59	176.38	176.56	176.59	176.50	176.22	176.31	176.20	176.44	175.66	175.29	
19	176.74	176.57	176.35	176.45	176.49	176.46	176.18	176.29	176.21	176.44	175.57	175.15	
20	176.50	176.52	176.45	176.43	176.40	176.30	176.37	176.21	176.25	176.45	175.82	174.96	
21	176.01	176.48	176.46	176.41	176.39	176.50	176.35	176.00	176.26	176.45	175.87	175.05	
22	176.29	176.39	176.40	176.42	176.53	176.45	176.45	175.94	176.27	176.50	175.91	175.45	
23	176.31	176.55	176.39	176.46	176.48	176.35	176.58	176.18	176.27	176.49	176.02	175.38	
24	176.14	176.39	176.40	176.27	176.49	176.46	176.68	176.27	176.26	176.52	175.94	175.28	
25	176.12	176.26	176.42	176.36	176.57	176.27	176.69	176.31	176.00	176.44	175.73	175.12	
26	176.12	176.25	176.42	176.48	176.56	176.23	176.69	176.22	175.77	176.35	175.66	175.12	
27	176.25	176.26	176.40	176.44	176.41	176.55	176.60	176.39	175.90	176.43	175.63	175.13	
28	176.23	176.08	176.27	176.42	176.42	176.61	176.45	176.32	176.28	176.32	175.59	175.03	
29	176.32	176.07	176.41	176.40	176.45	176.77	176.36	176.35	176.25	176.31		175.18	
30	176.24	176.05	176.49	176.38	176.67	176.68	176.28	176.28	176.25	176.25		175.04	
31		176.04		176.15	176.65		176.24		176.05	176.24		175.07	
Mean	176.46	176.32	176.29	176.42	176.41	176.47	176.57	176.23	176.21	176.32	175.93	175.34	
Max	176.90	176.70	176.49	176.60	176.67	176.77	176.97	176.44	176.38	176.52	176.33	175.57	176.97
Min	176.01	176.03	176.04	176.07	176.17	175.84	176.18	175.77	175.77	175.79	175.57	174.96	174.96
Annual Max Momentary Gage Height	176.97		m. (MSL.) ,				at 05.00 Hours, on Oct 5, 2009						
Zero Gage at Bottom Elevation	173.80		m. (MSL.) ,			River Bed	173.62		m. (MSL)				
Left Bank Elevation		178.89		m. (MSL.) ,									
Right Bank Elevation		179.18		m. (MSL.) ,		Drainage Area	3012		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.35	1.05	0.00	5.67	3.00	14.29	22.40	4.50	3.75	0.00	3.15	0.00	
2	4.20	1.95	0.00	6.84	7.23	19.10	26.10	3.60	4.20	0.75	3.45	0.00	
3	6.06	1.05	0.00	7.62	4.50	18.00	29.35	3.45	1.95	6.45	3.15	0.00	
4	4.05	1.50	1.95	6.06	4.20	20.20	30.00	3.60	0.00	3.00	3.30	0.00	
5	3.90	1.50	4.05	7.23	4.20	11.84	34.69	0.00	2.55	2.10	3.30	0.00	
6	4.05	0.00	3.30	12.70	1.50	3.00	32.01	0.00	2.55	1.95	2.55	0.00	
7	6.84	2.10	0.00	10.12	1.65	0.30	24.15	2.70	3.15	0.00	0.00	0.00	
8	12.27	2.40	0.60	3.60	3.15	0.00	16.94	2.85	3.15	0.00	0.00	0.00	
9	12.27	2.25	0.00	4.35	3.60	5.67	8.01	2.40	1.05	1.35	0.30	0.00	
10	10.98	3.15	2.40	0.45	2.70	7.23	8.83	6.06	0.00	4.20	1.50	0.00	
11	11.41	2.25	3.30	0.00	1.65	5.67	13.76	5.28	1.65	3.75	0.75	0.00	
12	11.41	3.75	2.25	3.75	1.20	3.60	8.83	4.50	2.40	3.90	0.00	0.00	
13	21.30	5.67	1.05	9.26	1.05	13.23	10.98	3.30	3.90	3.60	0.00	0.00	
14	27.40	18.00	2.10	11.84	2.25	10.55	10.12	0.00	3.45	3.15	0.00	0.00	
15	30.00	6.45	4.05	10.98	4.20	9.69	12.27	0.00	2.70	3.75	0.00	0.00	
16	25.45	7.23	2.55	10.98	13.76	9.26	11.41	0.00	1.80	3.75	0.00	0.00	
17	25.45	12.27	2.85	6.45	15.88	8.01	7.23	3.45	1.50	4.50	0.00	0.00	
18	25.45	12.27	4.20	10.98	12.27	8.40	1.80	3.15	1.50	6.06	0.00	0.00	
19	20.20	11.41	3.75	6.45	8.01	6.84	1.20	2.85	1.65	6.06	0.00	0.00	
20	8.40	9.26	6.45	5.67	4.50	3.00	4.05	1.65	2.25	6.45	0.00	0.00	
21	0.00	7.62	6.84	4.89	4.35	8.40	3.75	0.00	2.40	6.45	0.00	0.00	
22	2.85	4.35	4.50	5.28	9.69	6.45	6.45	0.00	2.55	8.40	0.00	0.00	
23	3.15	10.55	4.35	6.84	7.62	3.75	11.84	1.20	2.55	8.01	0.00	0.00	
24	0.60	4.35	4.50	2.55	8.01	6.84	16.94	2.55	2.40	9.26	0.00	0.00	
25	0.30	2.40	5.28	3.90	11.41	2.55	17.47	3.15	0.00	6.06	0.00	0.00	
26	0.30	2.25	5.28	7.62	10.98	1.95	17.47	1.80	0.00	3.75	0.00	0.00	
27	2.25	2.40	4.50	6.06	4.89	10.55	12.70	4.35	0.00	5.67	0.00	0.00	
28	1.95	0.00	2.55	5.28	5.28	13.23	6.45	3.30	2.70	3.30	0.00	0.00	
29	3.30	0.00	4.89	4.50	6.45	21.85	3.90	3.75	2.25	3.15	0.00	0.00	
30	2.10	0.00	8.01	4.20	16.41	16.94	2.70	2.70	2.25	2.25	0.00	0.00	
31	0.00	0.00	0.75	15.35	2.10	0.00	2.10	0.00	2.10	0.00	0.00	0.00	
Total	292.24	139.43	95.55	192.87	200.94	270.39	415.90	76.14	62.25	123.17	21.45	0.00	1890.33 CMSDAY
Mean	9.74	4.50	3.19	6.22	6.48	9.01	13.42	2.54	2.01	3.97	0.77	0.00	5.18 CMS
Max	30.00	18.00	8.01	12.70	16.41	21.85	34.69	6.06	4.20	9.26	3.45	0.00	34.69 CMS
Min	0.00	0.00	0.00	0.00	1.05	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	25.25	12.05	8.26	16.66	17.36	23.36	35.93	6.58	5.38	10.64	1.85	0.00	163.33 MCM
Momentary Peak	34.69 CMS, at 176.97 m. (MSL), at 05.00 Hours, on Oct 5, 2009												
Runoff Yield	1.72 Liters/Second/Square KM.			Momentary Peak Yield			11.517 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Khlong Ki at Ban Khlong Din Dam, Nakhon Ratchasima (M.169)

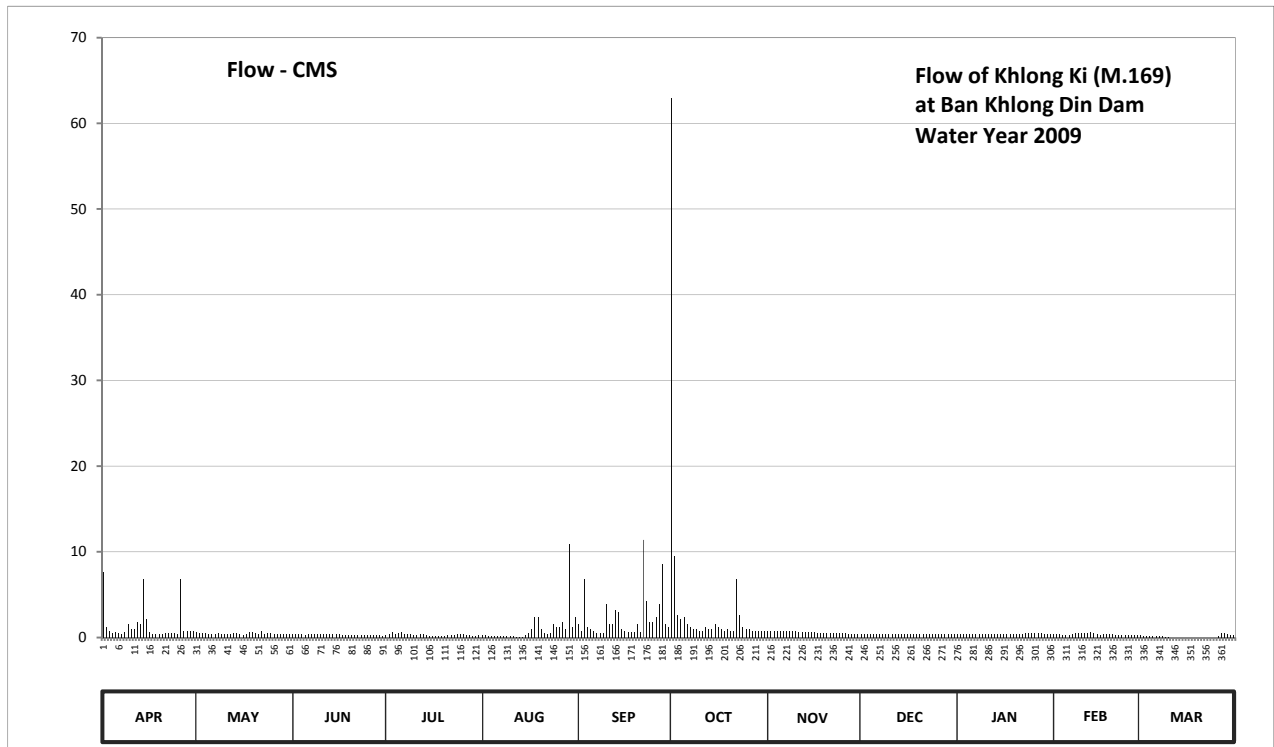
Lat 14 - 31 - 33 N Long 101 - 45 - 22 E

Location : on right bank at Ban Khlong Din Dam.

Ban	Khlong Din Dam	Amphoe	Wang Nam Khieo	Changwat	Nakhon Ratchasima
Drainage Area	134	sq.km.			
Type of Gage	Water - stage recorder.				
Zero Gage at Bottom	+260.800 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank near the automatic gage building			Elevation	+266.730m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings				
Period of Available Gage Records	2002 to date				
Rating Operation					
Period of Rating	2002 to date				
Rated by Flot	-				
Rated by Current Meter	2002 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2009.				

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.11	260.89	260.85	260.84	260.84	260.93	261.95	260.90	260.86	260.86	260.85	260.84	
2	260.92	260.88	260.86	260.86	260.84	260.90	261.15	260.90	260.86	260.86	260.85	260.83	
3	260.90	260.87	260.85	260.89	260.83	261.09	260.97	260.90	260.86	260.86	260.85	260.83	
4	260.88	260.87	260.85	260.86	260.83	260.92	260.95	260.90	260.86	260.86	260.84	260.83	
5	260.89	260.86	260.84	260.88	260.83	260.91	260.96	260.90	260.86	260.86	260.84	260.83	
6	260.88	260.85	260.86	260.89	260.83	260.90	260.93	260.90	260.86	260.86	260.84	260.83	
7	260.86	260.85	260.86	260.86	260.83	260.88	260.92	260.90	260.86	260.86	260.85	260.82	
8	260.89	260.88	260.86	260.86	260.82	260.87	260.91	260.90	260.86	260.86	260.87	260.82	
9	260.93	260.86	260.85	260.85	260.82	260.87	260.91	260.90	260.86	260.86	260.87	260.81	
10	260.91	260.86	260.85	260.84	260.82	261.01	260.90	260.90	260.86	260.86	260.87	260.81	
11	260.91	260.85	260.86	260.84	260.82	260.93	260.90	260.89	260.86	260.86	260.87	260.79	
12	260.94	260.86	260.86	260.85	260.81	260.93	260.92	260.89	260.86	260.85	260.87	260.78	
13	260.93	260.87	260.86	260.85	260.81	260.99	260.91	260.89	260.86	260.85	260.89	260.77	
14	261.09	260.87	260.85	260.84	260.81	260.98	260.91	260.89	260.86	260.85	260.87	260.77	
15	260.95	260.85	260.86	260.83	260.84	260.91	260.93	260.89	260.86	260.85	260.85	260.76	
16	260.89	260.84	260.86	260.83	260.88	260.90	260.92	260.89	260.86	260.85	260.84	260.76	
17	260.86	260.86	260.84	260.83	260.91	260.89	260.91	260.88	260.86	260.85	260.85	260.75	
18	260.85	260.89	260.84	260.83	260.96	260.89	260.90	260.88	260.86	260.85	260.85	260.75	
19	260.86	260.89	260.84	260.83	260.96	260.89	260.91	260.88	260.86	260.85	260.85	260.74	
20	260.86	260.88	260.84	260.83	260.91	260.93	260.90	260.88	260.86	260.85	260.85	260.74	
21	260.87	260.85	260.84	260.84	260.87	260.89	260.90	260.87	260.86	260.85	260.84	260.76	
22	260.87	260.90	260.84	260.84	260.86	261.19	261.09	260.87	260.86	260.85	260.84	260.77	
23	260.87	260.85	260.84	260.84	260.88	261.02	260.97	260.87	260.86	260.88	260.84	260.77	
24	260.87	260.87	260.84	260.85	260.93	260.94	260.92	260.87	260.86	260.88	260.84	260.77	
25	260.86	260.87	260.84	260.85	260.92	260.94	260.91	260.87	260.86	260.88	260.84	260.78	
26	261.09	260.86	260.84	260.85	260.92	260.96	260.91	260.87	260.86	260.87	260.84	260.83	
27	260.90	260.86	260.84	260.84	260.94	261.01	260.90	260.86	260.86	260.87	260.84	260.88	
28	260.90	260.86	260.84	260.84	260.91	261.13	260.90	260.86	260.86	260.87	260.84	260.87	
29	260.90	260.85	260.84	260.83	261.18	260.93	260.90	260.86	260.86	260.86		260.86	
30	260.90	260.85	260.83	260.83	260.92	260.92	260.90	260.86	260.86	260.86		260.84	
31		260.85		260.84	260.96		260.90		260.86	260.85		260.84	
Mean	260.91	260.86	260.85	260.85	260.88	260.95	260.96	260.88	260.86	260.86	260.85	260.80	
Max	261.11	260.90	260.86	260.89	261.18	261.19	261.95	260.90	260.86	260.88	260.89	260.88	261.95
Min	260.85	260.84	260.83	260.83	260.81	260.87	260.90	260.86	260.86	260.85	260.84	260.74	260.74
Annual Max Momentary Gage Height		262.03		m. (MSL.) ,			at 10.00 Hours, on Oct 1, 2009						
Zero Gage at Bottom Elevation		260.80		m. (MSL.) ,		River Bed	260.70		m. (MSL)				
Left Bank Elevation		264.62		m. (MSL.) ,									
Right Bank Elevation		267.93		m. (MSL.) ,		Drainage Area	134		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.66	0.63	0.35	0.28	0.28	1.54	63.00	0.70	0.42	0.42	0.35	0.28	
2	1.26	0.56	0.42	0.42	0.28	0.70	9.52	0.70	0.42	0.42	0.35	0.21	
3	0.70	0.49	0.35	0.63	0.21	6.83	2.66	0.70	0.42	0.42	0.35	0.21	
4	0.56	0.49	0.35	0.42	0.21	1.26	2.10	0.70	0.42	0.42	0.28	0.21	
5	0.63	0.42	0.28	0.56	0.21	0.98	2.38	0.70	0.42	0.42	0.28	0.21	
6	0.56	0.35	0.42	0.63	0.21	0.70	1.54	0.70	0.42	0.42	0.28	0.21	
7	0.42	0.35	0.42	0.42	0.21	0.56	1.26	0.70	0.42	0.42	0.35	0.14	
8	0.63	0.56	0.42	0.42	0.14	0.49	0.98	0.70	0.42	0.42	0.49	0.14	
9	1.54	0.42	0.35	0.35	0.14	0.49	0.98	0.70	0.42	0.42	0.49	0.07	
10	0.98	0.42	0.35	0.28	0.14	3.87	0.70	0.70	0.42	0.42	0.49	0.07	
11	0.98	0.35	0.42	0.28	0.14	1.54	0.70	0.63	0.42	0.42	0.49	0.00	
12	1.82	0.42	0.42	0.35	0.07	1.54	1.26	0.63	0.42	0.35	0.49	0.00	
13	1.54	0.49	0.42	0.35	0.07	3.22	0.98	0.63	0.42	0.35	0.63	0.00	
14	6.83	0.49	0.35	0.28	0.07	2.94	0.98	0.63	0.42	0.35	0.49	0.00	
15	2.10	0.35	0.42	0.21	0.28	0.98	1.54	0.63	0.42	0.35	0.35	0.00	
16	0.63	0.28	0.42	0.21	0.56	0.70	1.26	0.63	0.42	0.35	0.28	0.00	
17	0.42	0.42	0.28	0.21	0.98	0.63	0.98	0.56	0.42	0.35	0.35	0.00	
18	0.35	0.63	0.28	0.21	2.38	0.63	0.70	0.56	0.42	0.35	0.35	0.00	
19	0.42	0.63	0.28	0.21	2.38	0.63	0.98	0.56	0.42	0.35	0.35	0.00	
20	0.42	0.56	0.28	0.21	0.98	1.54	0.70	0.56	0.42	0.35	0.35	0.00	
21	0.49	0.35	0.28	0.28	0.49	0.63	0.70	0.49	0.42	0.35	0.28	0.00	
22	0.49	0.70	0.28	0.28	0.42	11.39	6.83	0.49	0.42	0.35	0.28	0.00	
23	0.49	0.35	0.28	0.28	0.56	4.24	2.66	0.49	0.42	0.56	0.28	0.00	
24	0.49	0.49	0.28	0.35	1.54	1.82	1.26	0.49	0.42	0.56	0.28	0.00	
25	0.42	0.49	0.28	0.35	1.26	1.82	0.98	0.49	0.42	0.56	0.28	0.00	
26	6.83	0.42	0.28	0.35	1.26	2.38	0.98	0.49	0.42	0.49	0.28	0.21	
27	0.70	0.42	0.28	0.28	1.82	3.87	0.70	0.42	0.42	0.49	0.28	0.56	
28	0.70	0.42	0.28	0.28	0.98	8.60	0.70	0.42	0.42	0.49	0.28	0.49	
29	0.70	0.35	0.28	0.21	10.92	1.54	0.70	0.42	0.42	0.42		0.42	
30	0.70	0.35	0.21	0.21	1.26	1.26	0.70	0.42	0.42	0.42		0.28	
31	0.35			0.28	2.38		0.70		0.42	0.35		0.28	
Total	42.46	14.00	10.01	10.08	32.83	69.32	112.11	17.64	13.02	12.81	10.08	3.99	348.35 CMSDAY
Mean	1.42	0.45	0.33	0.33	1.06	2.31	3.62	0.59	0.42	0.41	0.36	0.13	0.95 CMS
Max	7.66	0.70	0.42	0.63	10.92	11.39	63.00	0.70	0.42	0.56	0.63	0.56	63.00 CMS
Min	0.35	0.28	0.21	0.21	0.07	0.49	0.70	0.42	0.42	0.35	0.28	0.00	0.00 CMS
Runoff	3.669	1.21	0.865	0.871	2.837	5.989	9.686	1.524	1.125	1.107	0.871	0.345	30.097 MCM
Momentary Peak	70.35 CMS, at 262.03 m. (MSL), at 10.00 Hours, on Oct 1, 2009												
Runoff Yield	7.12 Liters/Second/Square KM.			Momentary Peak Yield			525.000 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

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

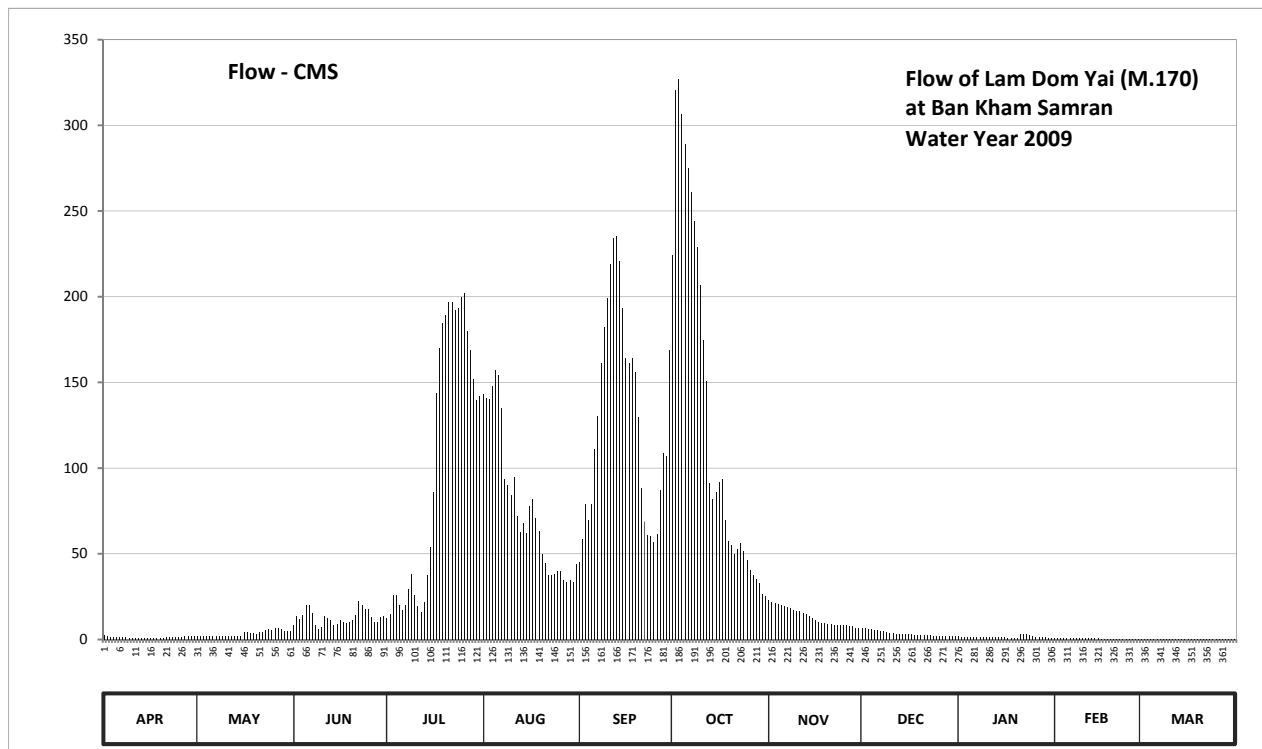
Lat 14 - 47 - 19 N Long 105 - 06 - 10 E

Location : on right bank at the bridge.

	Ban Kham Samran	Amphoe Det Udom	Changwat Ubon Ratchathani
Drainage Area	1,745 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+123.340 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank upstream at the footpath	Elevation	+133.740 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 51 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.07	123.99	124.49	124.79	128.77	126.19	130.54	125.32	124.39	123.99	123.91	123.75	
2	123.99	123.99	124.84	124.91	128.72	126.62	132.42	125.24	124.38	123.98	123.90	123.75	
3	123.97	124.04	124.74	125.44	128.71	127.21	132.54	125.21	124.36	123.98	123.90	123.75	
4	123.94	124.04	124.86	125.44	128.87	126.97	132.17	125.19	124.34	123.98	123.90	123.74	
5	123.93	124.04	125.17	125.17	129.08	127.21	131.84	125.17	124.33	123.97	123.89	123.74	
6	123.92	124.02	125.16	125.01	129.02	128.04	131.56	125.15	124.30	123.96	123.89	123.74	
7	123.92	124.02	124.94	125.17	128.59	128.49	131.28	125.11	124.28	123.94	123.89	123.74	
8	123.92	124.00	124.52	125.59	127.61	129.17	130.94	125.08	124.26	123.94	123.89	123.74	
9	123.91	124.00	124.37	125.94	127.51	129.64	130.64	125.03	124.23	123.94	123.89	123.74	
10	123.91	124.00	124.44	125.44	127.36	130.01	130.17	125.00	124.21	123.94	123.89	123.73	
11	123.90	124.00	124.84	125.14	127.64	130.43	129.47	124.98	124.18	123.93	123.88	123.73	
12	123.90	124.00	124.78	124.97	127.02	130.74	128.94	124.94	124.15	123.93	123.88	123.73	
13	123.89	123.99	124.72	125.24	126.76	130.77	127.54	124.90	124.14	123.92	123.88	123.73	
14	123.88	124.04	124.49	125.92	126.92	130.46	127.29	124.84	124.14	123.92	123.88	123.73	
15	123.88	124.04	124.56	126.49	126.74	129.89	127.41	124.78	124.14	123.92	123.88	123.73	
16	123.87	124.24	124.71	127.41	127.19	129.24	127.57	124.70	124.13	123.92	123.74	123.73	
17	123.87	124.23	124.62	128.79	127.29	129.17	127.61	124.63	124.12	123.91	123.74	123.74	
18	123.86	124.19	124.59	129.37	126.99	129.24	126.96	124.59	124.10	123.91	123.74	123.74	
19	123.85	124.20	124.63	129.69	126.77	129.06	126.59	124.57	124.09	123.91	123.74	123.75	
20	123.91	124.14	124.69	129.79	126.36	128.47	126.52	124.56	124.09	123.91	123.72	123.75	
21	123.94	124.22	124.87	129.97	126.17	127.47	126.35	124.54	124.09	124.14	123.72	123.76	
22	123.93	124.23	125.27	129.97	125.91	126.94	126.44	124.52	124.08	124.14	123.71	123.76	
23	123.93	124.31	125.16	129.86	125.91	126.70	126.56	124.51	124.05	124.12	123.71	123.77	
24	123.93	124.34	125.04	129.89	125.94	126.68	126.41	124.51	124.04	124.07	123.71	123.77	
25	123.93	124.33	125.04	130.03	126.00	126.57	126.24	124.50	124.04	123.99	123.72	123.78	
26	123.93	124.39	124.82	130.07	125.99	126.72	126.01	124.49	124.03	123.96	123.72	123.79	
27	124.01	124.39	124.61	129.59	125.79	127.44	125.92	124.48	124.02	123.95	123.71	123.79	
28	124.02	124.34	124.61	129.34	125.74	127.99	125.82	124.46	124.01	123.94	123.74	123.80	
29	124.00	124.29	124.82	128.96	125.79	127.94	125.72	124.40	124.00	123.92		123.80	
30	123.99	124.29	124.85	128.69	125.74	129.34	125.47	124.39	124.00	123.91		123.80	
31		124.27		128.74	126.14		125.43		123.99	123.90		123.79	
Mean	123.93	124.15	124.78	127.45	127.07	128.36	128.27	124.79	124.15	123.96	123.81	123.75	
Max	124.07	124.39	125.27	130.07	129.08	130.77	132.54	125.32	124.39	124.14	123.91	123.80	132.54
Min	123.85	123.99	124.37	124.79	125.74	126.19	125.43	124.39	123.99	123.90	123.71	123.73	123.71
Annual Max Momentary Gage Height		132.59		m. (MSL.) ,			at 18.00 Hours, on Oct 2, 2009						
Zero Gage at Bottom Elevation		123.34		m. (MSL.) ,		River Bed	123.09		m. (MSL)				
Left Bank Elevation			133.05		m. (MSL.) ,								
Right Bank Elevation			133.08		m. (MSL.) ,	Drainage Area	1745		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.47	1.74	8.15	12.65	143.05	45.13	224.32	23.20	6.65	1.74	1.08	0.16	
2	1.74	1.74	13.60	15.00	140.80	58.34	320.60	21.60	6.50	1.66	1.00	0.16	
3	1.57	2.19	11.90	25.80	140.35	78.77	327.20	21.00	6.20	1.66	1.00	0.16	
4	1.33	2.19	14.00	25.80	147.55	69.89	306.85	20.60	5.90	1.66	1.00	0.13	
5	1.25	2.19	20.20	20.20	157.00	78.77	289.00	20.20	5.75	1.57	0.93	0.13	
6	1.16	2.01	20.00	17.00	154.30	110.84	275.00	19.80	5.30	1.49	0.93	0.13	
7	1.16	2.01	15.60	20.20	134.95	130.45	261.00	19.00	5.00	1.33	0.93	0.13	
8	1.16	1.82	8.60	29.55	93.57	161.05	244.00	18.40	4.70	1.33	0.93	0.13	
9	1.08	1.82	6.35	38.38	89.87	182.20	229.12	17.40	4.25	1.33	0.93	0.13	
10	1.08	1.82	7.40	25.80	84.32	198.88	206.56	16.80	3.95	1.33	0.93	0.10	
11	1.00	1.82	13.60	19.60	94.68	219.04	174.55	16.40	3.59	1.25	0.86	0.10	
12	1.00	1.82	12.50	16.20	71.74	234.00	150.70	15.60	3.28	1.25	0.86	0.10	
13	0.93	1.74	11.60	21.60	62.82	235.50	90.98	14.80	3.17	1.16	0.86	0.10	
14	0.86	2.19	8.15	37.84	68.04	220.48	81.73	13.60	3.17	1.16	0.86	0.10	
15	0.86	2.19	9.20	54.18	62.18	193.45	86.17	12.50	3.17	1.16	0.86	0.10	
16	0.80	4.40	11.45	86.17	78.03	164.20	92.09	11.30	3.06	1.16	0.13	0.10	
17	0.80	4.25	10.10	143.95	81.73	161.05	93.57	10.25	2.96	1.08	0.13	0.13	
18	0.73	3.70	9.65	170.05	70.63	164.20	69.52	9.65	2.75	1.08	0.13	0.13	
19	0.66	3.80	10.25	184.45	63.14	156.10	57.38	9.35	2.66	1.08	0.13	0.16	
20	1.08	3.17	11.15	188.95	50.02	129.55	55.14	9.20	2.66	1.08	0.06	0.16	
21	1.33	4.10	14.20	197.05	44.59	88.39	49.70	8.90	2.66	3.17	0.06	0.19	
22	1.25	4.25	22.20	197.05	37.57	68.78	52.58	8.60	2.56	3.17	0.03	0.19	
23	1.25	5.45	20.00	192.10	37.57	60.90	56.42	8.45	2.29	2.96	0.03	0.22	
24	1.25	5.90	17.60	193.45	38.38	60.26	51.62	8.45	2.19	2.47	0.03	0.22	
25	1.25	5.75	17.60	199.84	40.00	56.74	46.48	8.30	2.19	1.74	0.06	0.26	
26	1.25	6.65	13.20	201.76	39.73	61.54	40.27	8.15	2.10	1.49	0.06	0.29	
27	1.91	6.65	9.95	179.95	34.55	87.28	37.84	8.00	2.01	1.41	0.03	0.29	
28	2.01	5.90	9.95	168.70	33.30	108.79	35.30	7.70	1.91	1.33	0.13	0.32	
29	1.82	5.15	13.20	151.60	34.55	106.74	32.80	6.80	1.82	1.16		0.32	
30	1.74	5.15	13.80	139.45	33.30	168.70	26.55	6.65	1.82	1.08		0.32	
31		4.85		141.70	43.78		25.55		1.74	1.00		0.29	
Total	37.78	108.41	385.15	3116.02	2406.09	3860.01	4090.59	400.65	107.96	47.54	14.97	5.45	14580.62 CMSDAY
Mean	1.26	3.50	12.84	100.52	77.62	128.67	131.95	13.35	3.48	1.53	0.53	0.18	39.95 CMS
Max	2.47	6.65	22.20	201.76	157.00	235.50	327.20	23.20	6.65	3.17	1.08	0.32	327.20 CMS
Min	0.66	1.74	6.35	12.65	33.30	45.13	25.55	6.65	1.74	1.00	0.03	0.10	0.03 CMS
Runoff	3.26	9.37	33.28	269.22	207.89	333.51	353.43	34.62	9.33	4.11	1.29	0.47	1259.77 MCM
Momentary Peak	329.95 CMS, at 132.59 m. (MSL), at 18.00 Hours, on Oct 2, 2009												
Runoff Yield	22.89 Liters/Second/Square KM.			Momentary Peak Yield				189.083 Liters/Second/Square KM.					

WATER YEAR : 2009

MUN RIVER BASIN

Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima (M.171)

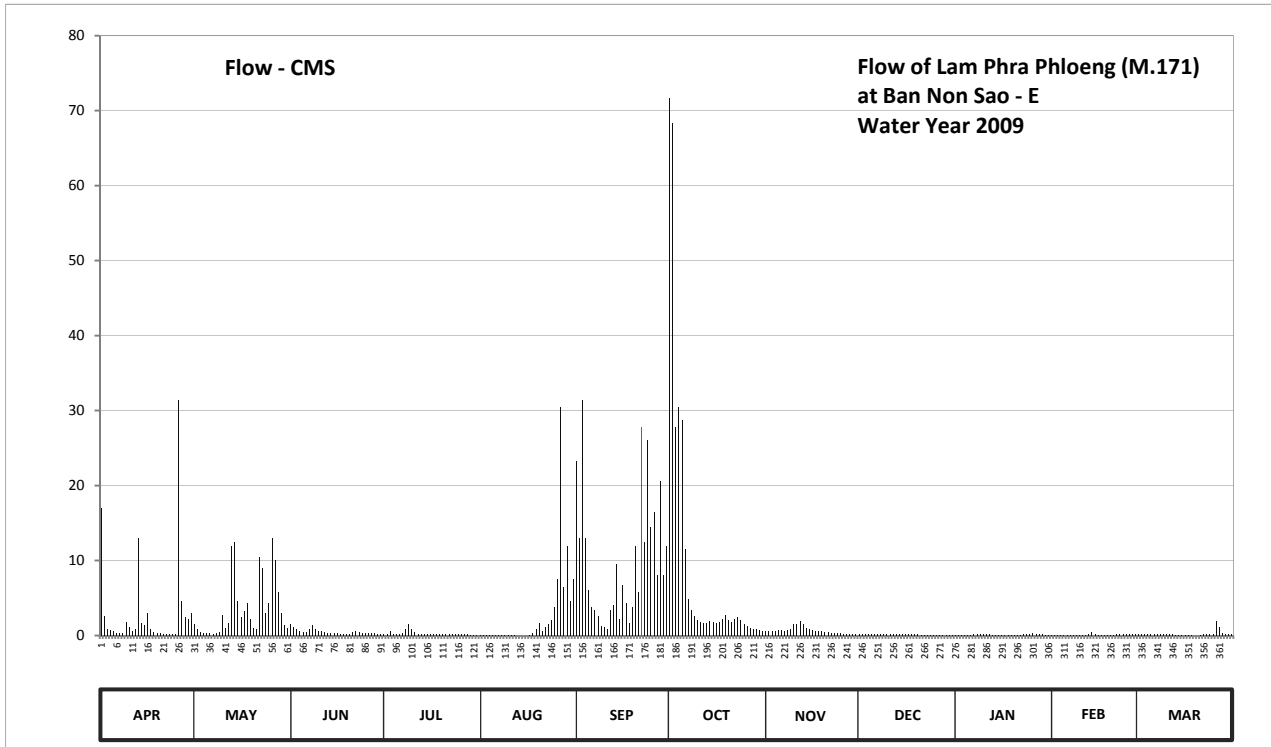
Lat 14 - 29 - 58 N Long 101 - 46 - 22 E

Location : on right bank at Ban Non Sao - E.

	Ban	Non Sao - E	Amphoe	Wang Nam Khieo	Changwat	Nakhon Ratchasima
Drainage Area	553	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+273.580 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank downstream at the footpath				Elevation	+281.110 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 means of 5 readings					
Period of Available Gage Records	2002 to date					
Rating Operation						
Period of Rating	2002 to date					
Rated by Flot	-					
Rated by Current Meter	2002 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 35 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	274.50	274.06	274.06	273.77	273.69	274.57	275.07	273.95	273.79	273.73	273.72	273.80	
2	274.13	273.98	274.02	273.80	273.69	274.42	275.04	273.93	273.78	273.73	273.73	273.80	
3	274.00	273.92	273.98	273.93	273.67	274.66	274.62	273.93	273.78	273.73	273.71	273.80	
4	273.96	273.85	273.94	273.81	273.66	274.42	274.65	273.95	273.78	273.73	273.71	273.80	
5	273.95	273.87	273.92	273.79	273.65	274.27	274.63	273.96	273.78	273.73	273.72	273.80	
6	273.88	273.85	273.91	273.80	273.64	274.19	274.39	273.97	273.78	273.73	273.70	273.79	
7	273.84	273.83	273.99	273.88	273.63	274.17	274.23	273.95	273.78	273.76	273.70	273.78	
8	273.84	273.86	274.04	273.99	273.63	274.13	274.17	273.96	273.77	273.76	273.70	273.78	
9	274.08	273.90	273.98	274.06	273.62	274.03	274.13	273.98	273.77	273.76	273.70	273.78	
10	274.02	274.14	273.94	273.98	273.61	274.02	274.10	274.06	273.77	273.76	273.70	273.78	
11	273.93	274.01	273.93	273.90	273.61	274.00	274.08	274.06	273.77	273.76	273.70	273.78	
12	274.00	274.07	273.91	273.82	273.62	274.17	274.07	274.09	273.76	273.75	273.70	273.75	
13	274.42	274.40	273.88	273.79	273.60	274.20	274.07	274.06	273.76	273.73	273.78	273.73	
14	274.07	274.41	273.87	273.81	273.60	274.35	274.09	274.01	273.76	273.73	273.91	273.70	
15	274.05	274.22	273.86	273.80	273.60	274.11	274.08	273.98	273.76	273.73	273.76	273.67	
16	274.15	274.12	273.86	273.77	273.59	274.29	274.07	273.96	273.76	273.73	273.71	273.65	
17	273.99	274.16	273.83	273.76	273.64	274.21	274.08	273.95	273.75	273.73	273.70	273.63	
18	273.90	274.21	273.81	273.75	273.84	274.07	274.11	273.94	273.75	273.73	273.69	273.61	
19	273.86	274.11	273.81	273.75	273.98	274.19	274.14	273.93	273.74	273.73	273.68	273.59	
20	273.85	274.01	273.83	273.75	274.07	274.40	274.10	273.92	273.74	273.73	273.66	273.56	
21	273.82	273.99	273.91	273.75	273.93	274.26	274.08	273.90	273.73	273.73	273.64	273.64	
22	273.80	274.37	273.93	273.75	274.02	274.62	274.11	273.89	273.73	273.73	273.75	273.80	
23	273.77	274.34	273.90	273.75	274.06	274.41	274.12	273.88	273.73	273.74	273.80	273.77	
24	273.76	274.15	273.88	273.75	274.10	274.60	274.10	273.86	273.73	273.75	273.79	273.76	
25	273.80	274.21	273.88	273.75	274.19	274.45	274.06	273.85	273.73	273.83	273.78	273.76	
26	274.66	274.42	273.85	273.75	274.31	274.49	274.03	273.83	273.72	273.84	273.78	274.09	
27	274.22	274.36	273.84	273.76	274.65	274.32	274.01	273.83	273.72	273.81	273.79	274.02	
28	274.12	274.26	273.84	273.74	274.28	274.54	274.00	273.82	273.72	273.77	273.80	273.84	
29	274.11	274.15	273.80	273.73	274.40	274.32	273.98	273.81	273.71	273.75		273.79	
30	274.15	274.05	273.78	273.70	274.22	274.40	273.97	273.80	273.71	273.71		273.78	
31		274.01		273.70	274.31		273.95		273.71	273.69		273.76	
Mean	274.02	274.11	273.90	273.80	273.87	274.31	274.20	273.93	273.75	273.75	273.73	273.76	
Max	274.66	274.42	274.06	274.06	274.65	274.66	275.07	274.09	273.79	273.84	273.91	274.09	275.07
Min	273.76	273.83	273.78	273.70	273.59	274.00	273.95	273.80	273.71	273.69	273.64	273.56	273.56
Annual Max Momentary Gage Height		275.63		m. (MSL.) ,			at 15.00 Hours, on Sep 22, 2009						
Zero Gage at Bottom Elevation		273.58		m. (MSL.) ,		River Bed	273.31		m. (MSL)				
Left Bank Elevation		280.84		m. (MSL.) ,									
Right Bank Elevation		280.91		m. (MSL.) ,		Drainage Area	553		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.00	1.56	1.56	0.17	0.09	23.30	71.70	0.65	0.19	0.13	0.12	0.20	
2	2.60	0.80	1.12	0.20	0.09	13.00	68.40	0.55	0.18	0.13	0.13	0.20	
3	0.90	0.50	0.80	0.55	0.07	31.40	27.80	0.55	0.18	0.13	0.11	0.20	
4	0.70	0.30	0.60	0.22	0.06	13.00	30.50	0.65	0.18	0.13	0.11	0.20	
5	0.65	0.34	0.50	0.19	0.05	6.10	28.70	0.70	0.18	0.13	0.12	0.20	
6	0.36	0.30	0.45	0.20	0.04	3.80	11.50	0.75	0.18	0.13	0.10	0.19	
7	0.28	0.26	0.85	0.36	0.03	3.40	4.90	0.65	0.18	0.16	0.10	0.18	
8	0.28	0.32	1.34	0.85	0.03	2.60	3.40	0.70	0.17	0.16	0.10	0.18	
9	1.78	0.40	0.80	1.56	0.02	1.23	2.60	0.80	0.17	0.16	0.10	0.18	
10	1.12	2.80	0.60	0.80	0.01	1.12	2.00	1.56	0.17	0.16	0.10	0.18	
11	0.55	1.01	0.55	0.40	0.01	0.90	1.78	1.56	0.17	0.16	0.10	0.18	
12	0.90	1.67	0.45	0.24	0.02	3.40	1.67	1.89	0.16	0.15	0.10	0.15	
13	13.00	12.00	0.36	0.19	0.00	4.00	1.67	1.56	0.16	0.13	0.18	0.13	
14	1.67	12.50	0.34	0.22	0.00	9.50	1.89	1.01	0.16	0.13	0.45	0.10	
15	1.45	4.60	0.32	0.20	0.00	2.20	1.78	0.80	0.16	0.13	0.16	0.07	
16	3.00	2.40	0.32	0.17	0.00	6.70	1.67	0.70	0.16	0.13	0.11	0.05	
17	0.85	3.20	0.26	0.16	0.04	4.30	1.78	0.65	0.15	0.13	0.10	0.03	
18	0.40	4.30	0.22	0.15	0.28	1.67	2.20	0.60	0.15	0.13	0.09	0.01	
19	0.32	2.20	0.22	0.15	0.80	3.80	2.80	0.55	0.14	0.13	0.08	0.00	
20	0.30	1.01	0.26	0.15	1.67	12.00	2.00	0.50	0.14	0.13	0.06	0.00	
21	0.24	0.85	0.45	0.15	0.55	5.80	1.78	0.40	0.13	0.13	0.04	0.04	
22	0.20	10.50	0.55	0.15	1.12	27.80	2.20	0.38	0.13	0.13	0.15	0.20	
23	0.17	9.00	0.40	0.15	1.56	12.50	2.40	0.36	0.13	0.14	0.20	0.17	
24	0.16	3.00	0.36	0.15	2.00	26.00	2.00	0.32	0.13	0.15	0.19	0.16	
25	0.20	4.30	0.36	0.15	3.80	14.50	1.56	0.30	0.13	0.26	0.18	0.16	
26	31.40	13.00	0.30	0.15	7.50	16.50	1.23	0.26	0.12	0.28	0.18	1.89	
27	4.60	10.00	0.28	0.16	30.50	8.00	1.01	0.26	0.12	0.22	0.19	1.12	
28	2.40	5.80	0.28	0.14	6.40	20.60	0.90	0.24	0.12	0.17	0.20	0.28	
29	2.20	3.00	0.20	0.13	12.00	8.00	0.80	0.22	0.11	0.15		0.19	
30	3.00	1.45	0.18	0.10	4.60	12.00	0.75	0.20	0.11	0.11		0.18	
31		1.01		0.10	7.50		0.65		0.11	0.09		0.16	
Total	92.68	114.38	15.28	8.66	80.84	299.12	286.02	20.32	4.67	4.60	3.85	7.18	937.60 CMSDAY
Mean	3.09	3.69	0.51	0.28	2.61	9.97	9.23	0.68	0.15	0.15	0.14	0.23	2.57 CMS
Max	31.40	13.00	1.56	1.56	30.50	31.40	71.70	1.89	0.19	0.28	0.45	1.89	71.70 CMS
Min	0.16	0.26	0.18	0.10	0.00	0.90	0.65	0.20	0.11	0.09	0.04	0.00	0.00 CMS
Runoff	8.008	9.882	1.32	0.748	6.985	25.844	24.712	1.756	0.403	0.397	0.333	0.62	81.009 MCM
Momentary Peak	137.60 CMS, at 275.63 m. (MSL), at 15.00 Hours, on Sep 22, 2009												
Runoff Yield	4.65 Liters/Second/Square KM.			Momentary Peak Yield			248,825 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima (M.172)

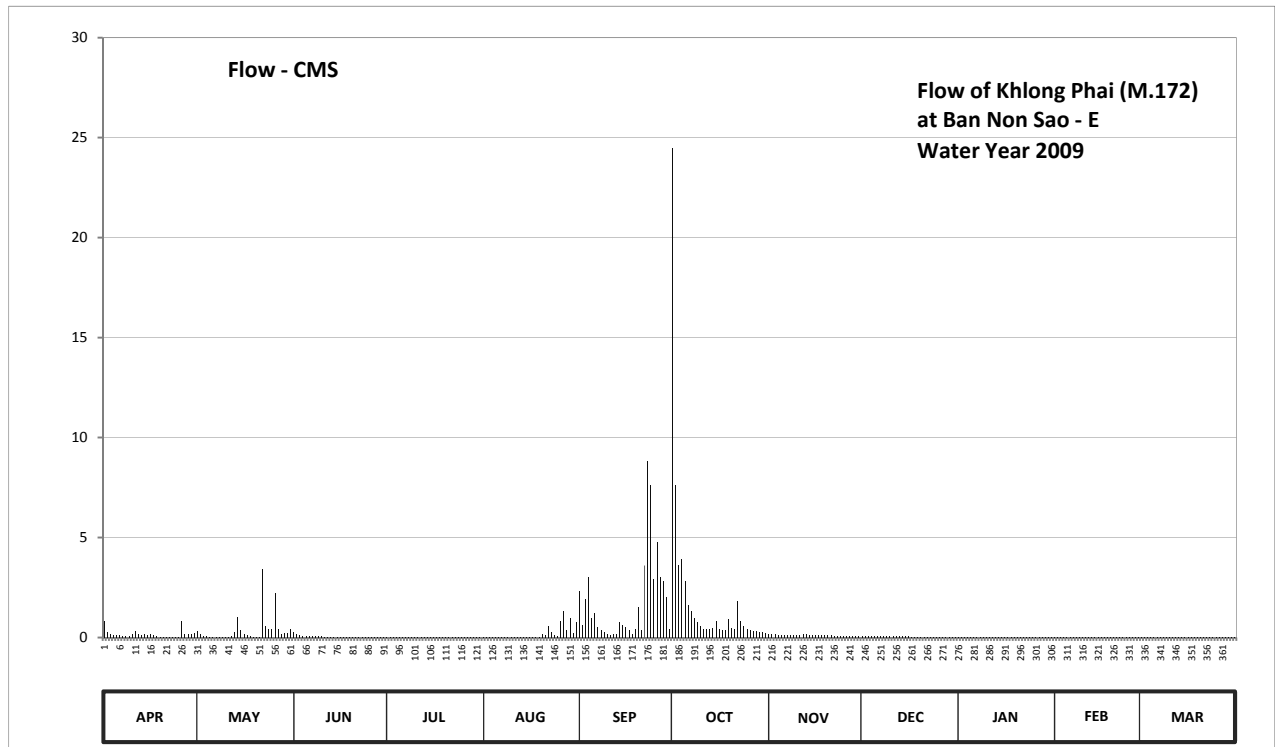
Lat 14 - 29 - 14 N Long 101 - 46 - 57 E

Location : on right bank at the bridge.

Ban	Non Sao - E	Amphoe	Wang Nam Khieo	Changwat	Nakhon Ratchasima
Drainage Area	143	sq.km.			
Type of Gage	Staff gage.				
Zero Gage at Bottom	+294.170 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank downstream side at the footpath of the bridge.			Elevation	+300.040 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 means of 5 readings				
Period of Available Gage Records	2003 to date				
Rating Operation					
Period of Rating	2003 to date				
Rated by Flot	-				
Rated by Current Meter	2003 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2009.				

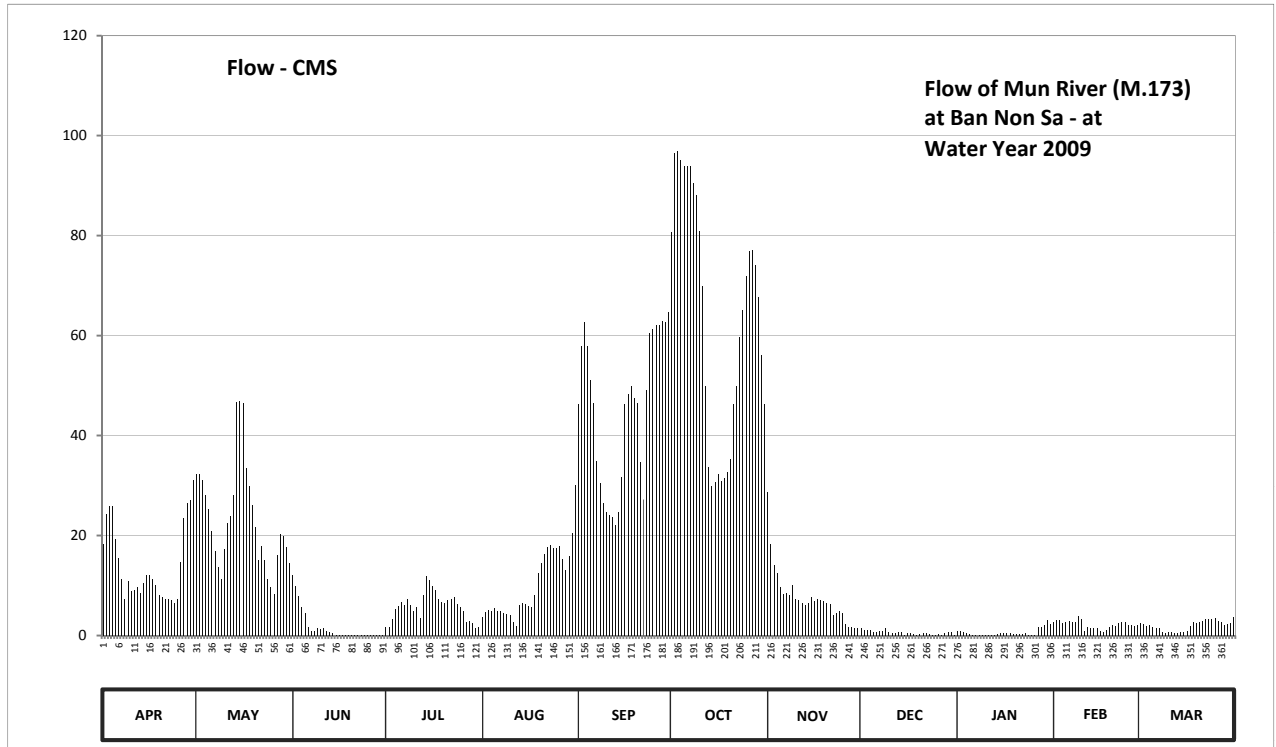
Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	294.46	294.34	294.33	294.01	294.01	294.63	295.37	294.26	294.11	294.01	294.01	293.97	
2	294.32	294.26	294.26	294.01	294.01	294.43	294.92	294.26	294.11	294.01	294.01	293.97	
3	294.25	294.18	294.20	294.01	294.01	294.59	294.74	294.25	294.11	294.01	294.01	293.97	
4	294.24	294.12	294.12	294.00	294.01	294.70	294.76	294.24	294.11	294.01	294.01	293.97	
5	294.22	294.06	294.10	294.00	294.03	294.49	294.68	294.24	294.11	294.01	294.01	293.96	
6	294.20	294.03	294.10	294.00	294.03	294.52	294.56	294.23	294.11	294.01	294.01	293.96	
7	294.18	294.00	294.10	294.00	294.02	294.40	294.53	294.23	294.10	294.01	294.01	293.96	
8	294.15	293.97	294.09	294.00	294.02	294.35	294.49	294.22	294.10	294.01	294.01	293.96	
9	294.09	293.98	294.09	294.00	294.02	294.32	294.45	294.21	294.10	294.01	294.01	293.95	
10	294.29	294.05	294.09	294.00	294.01	294.26	294.41	294.21	294.10	294.01	294.01	293.95	
11	294.34	294.06	294.08	294.00	294.01	294.24	294.38	294.22	294.10	294.01	294.01	293.95	
12	294.25	294.17	294.08	294.00	294.00	294.25	294.38	294.25	294.10	294.01	294.01	293.95	
13	294.24	294.33	294.08	294.01	294.02	294.25	294.37	294.25	294.09	294.01	294.01	293.94	
14	294.25	294.50	294.08	294.01	294.02	294.45	294.39	294.24	294.09	294.01	294.01	293.94	
15	294.23	294.35	294.08	294.01	294.02	294.42	294.47	294.23	294.09	294.01	294.01	293.94	
16	294.26	294.27	294.07	294.01	294.01	294.40	294.38	294.23	294.09	294.01	293.99	293.94	
17	294.22	294.21	294.07	294.01	294.00	294.35	294.36	294.23	294.08	294.01	293.99	293.93	
18	294.15	294.11	294.07	294.01	294.00	294.27	294.36	294.21	294.08	294.01	293.99	293.93	
19	294.03	294.05	294.07	294.02	294.00	294.38	294.48	294.21	294.08	294.01	293.99	293.93	
20	293.96	294.02	294.07	294.02	294.27	294.55	294.39	294.21	294.07	294.01	293.99	293.93	
21	293.94	294.07	294.07	294.03	294.22	294.35	294.37	294.20	294.07	294.02	293.98	293.93	
22	293.94	294.73	294.06	294.03	294.41	294.74	294.58	294.19	294.07	294.02	293.98	293.93	
23	293.97	294.41	294.05	294.04	294.33	294.96	294.47	294.18	294.05	294.02	293.97	293.93	
24	293.97	294.38	294.03	294.05	294.21	294.92	294.41	294.16	294.04	294.02	293.97	293.93	
25	294.00	294.37	294.02	294.05	294.19	294.69	294.38	294.14	294.04	294.02	293.97	293.93	
26	294.46	294.62	294.02	294.06	294.47	294.81	294.35	294.13	294.03	294.02	293.97	293.93	
27	294.28	294.37	294.01	294.05	294.53	294.70	294.34	294.12	294.03	294.02	293.97	293.93	
28	294.25	294.29	294.01	294.04	294.36	294.68	294.34	294.11	294.02	294.02	293.97	293.93	
29	294.27	294.30	294.01	294.03	294.49	294.60	294.32	294.11	294.01	294.02		293.93	
30	294.31	294.31	294.01	294.02	294.30	294.37	294.32	294.11	294.01	294.01		293.93	
31		294.38		294.01	294.45		294.31		294.01	294.01		293.93	
Mean	294.19	294.24	294.08	294.02	294.14	294.50	294.49	294.20	294.07	294.01	294.00	293.94	
Max	294.46	294.73	294.33	294.06	294.53	294.96	295.37	294.26	294.11	294.02	294.01	293.97	295.37
Min	293.94	293.97	294.01	294.00	294.00	294.24	294.31	294.11	294.01	294.01	293.97	293.93	293.93
Annual Max Momentary Gage Height		295.62	m. (MSL.) ,				at 14.00 Hours, on Sep 23, 2009						
Zero Gage at Bottom Elevation		294.17	m. (MSL.) ,			River Bed	293.85	m. (MSL)					
Left Bank Elevation		300.04	m. (MSL.) ,										
Right Bank Elevation		300.02	m. (MSL.) ,			Drainage Area	143	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.32	0.29	0.03	0.03	2.30	24.50	0.16	0.05	0.03	0.03	0.02	
2	0.26	0.16	0.16	0.03	0.03	0.65	7.60	0.16	0.05	0.03	0.03	0.02	
3	0.15	0.09	0.10	0.03	0.03	1.90	3.60	0.15	0.05	0.03	0.03	0.02	
4	0.14	0.06	0.06	0.03	0.03	3.00	3.90	0.14	0.05	0.03	0.03	0.02	
5	0.12	0.04	0.05	0.03	0.03	0.95	2.80	0.14	0.05	0.03	0.03	0.01	
6	0.10	0.03	0.05	0.03	0.03	1.20	1.60	0.13	0.05	0.03	0.03	0.01	
7	0.09	0.03	0.05	0.03	0.03	0.50	1.30	0.13	0.05	0.03	0.03	0.01	
8	0.07	0.02	0.05	0.03	0.03	0.35	0.95	0.12	0.05	0.03	0.03	0.01	
9	0.05	0.02	0.05	0.03	0.03	0.26	0.75	0.11	0.05	0.03	0.03	0.01	
10	0.19	0.04	0.05	0.03	0.03	0.16	0.55	0.11	0.05	0.03	0.03	0.01	
11	0.32	0.04	0.04	0.03	0.03	0.14	0.44	0.12	0.05	0.03	0.03	0.01	
12	0.15	0.09	0.04	0.03	0.03	0.15	0.44	0.15	0.05	0.03	0.03	0.01	
13	0.14	0.29	0.04	0.03	0.03	0.15	0.41	0.15	0.05	0.03	0.03	0.01	
14	0.15	1.00	0.04	0.03	0.03	0.75	0.47	0.14	0.05	0.03	0.03	0.01	
15	0.13	0.35	0.04	0.03	0.03	0.60	0.85	0.13	0.05	0.03	0.03	0.01	
16	0.16	0.17	0.04	0.03	0.03	0.50	0.44	0.13	0.05	0.03	0.02	0.01	
17	0.12	0.11	0.04	0.03	0.03	0.35	0.38	0.13	0.04	0.03	0.02	0.01	
18	0.07	0.05	0.04	0.03	0.03	0.17	0.38	0.11	0.04	0.03	0.02	0.01	
19	0.03	0.04	0.04	0.03	0.03	0.44	0.90	0.11	0.04	0.03	0.02	0.01	
20	0.01	0.03	0.04	0.03	0.17	1.50	0.47	0.11	0.04	0.03	0.02	0.01	
21	0.01	0.04	0.04	0.03	0.12	0.35	0.41	0.10	0.04	0.03	0.02	0.01	
22	0.01	3.45	0.04	0.03	0.55	3.60	1.80	0.09	0.04	0.03	0.02	0.01	
23	0.02	0.55	0.04	0.04	0.29	8.80	0.85	0.09	0.04	0.03	0.02	0.01	
24	0.02	0.44	0.03	0.04	0.11	7.60	0.55	0.08	0.04	0.03	0.02	0.01	
25	0.03	0.41	0.03	0.04	0.09	2.90	0.44	0.07	0.04	0.03	0.02	0.01	
26	0.80	2.20	0.03	0.04	0.85	4.75	0.35	0.06	0.03	0.03	0.02	0.01	
27	0.18	0.41	0.03	0.04	1.30	3.00	0.32	0.06	0.03	0.03	0.02	0.01	
28	0.15	0.19	0.03	0.04	0.38	2.80	0.32	0.05	0.03	0.03	0.02	0.01	
29	0.17	0.20	0.03	0.03	0.95	2.00	0.26	0.05	0.03	0.03		0.01	
30	0.23	0.23	0.03	0.03	0.20	0.41	0.26	0.05	0.03	0.03		0.01	
31		0.44		0.03	0.75		0.23		0.03	0.03		0.01	
Total	4.87	11.54	1.64	0.99	6.33	52.23	58.52	3.33	1.34	0.93	0.71	0.35	142.78 CMSDAY
Mean	0.16	0.37	0.05	0.03	0.20	1.74	1.89	0.11	0.04	0.03	0.03	0.01	0.39 CMS
Max	0.80	3.45	0.29	0.04	1.30	8.80	24.50	0.16	0.05	0.03	0.03	0.02	24.50 CMS
Min	0.01	0.02	0.03	0.03	0.03	0.14	0.23	0.05	0.03	0.03	0.02	0.01	0.01 CMS
Runoff	0.42	1.00	0.14	0.09	0.55	4.51	5.06	0.29	0.12	0.08	0.06	0.03	12.34 MCM
Momentary Peak	37.80 CMS, at 295.62 m. (MSL), at 14.00 Hours, on Sep 23, 2009												
Runoff Yield	2.74 Liters/Second/Square KM.			Momentary Peak Yield			264.336 Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.25	32.20	12.01	1.75	3.70	46.34	80.65	28.60	1.40	0.92	2.63	2.54	
2	24.23	32.20	9.90	1.80	4.70	57.80	96.50	18.25	1.10	0.92	3.00	2.36	
3	25.92	31.00	7.80	3.40	5.10	62.66	97.00	14.10	1.05	0.64	3.00	1.85	
4	25.92	28.00	5.70	5.30	4.80	57.80	95.00	12.45	1.10	0.52	2.45	2.09	
5	19.29	25.27	4.50	5.90	5.40	51.04	94.00	9.80	0.64	0.24	2.63	1.70	
6	15.44	20.98	1.65	6.70	4.90	46.48	94.00	8.30	0.76	0.14	2.90	1.45	
7	11.30	17.00	0.92	6.00	4.80	34.90	94.00	8.50	0.88	0.12	2.63	1.55	
8	7.20	13.77	0.92	7.20	4.40	30.55	90.50	8.20	0.84	0.12	2.72	0.68	
9	10.80	11.40	1.50	6.00	4.30	26.57	88.20	10.00	1.50	0.11	3.90	0.48	
10	8.90	17.36	1.35	5.00	4.10	24.75	81.00	7.20	0.68	0.12	3.40	0.72	
11	9.10	22.41	1.50	5.70	2.63	24.10	69.80	7.10	0.40	0.11	0.84	0.64	
12	9.60	23.84	0.96	3.50	1.85	23.71	49.96	6.40	0.40	0.15	1.70	0.40	
13	8.40	28.15	0.60	8.00	6.00	22.02	33.70	6.00	0.64	0.16	1.50	0.40	
14	10.60	46.58	0.40	11.90	6.50	24.62	29.95	6.60	0.60	0.28	1.55	0.60	
15	12.12	46.81	0.14	11.10	6.30	31.75	30.70	7.70	0.14	0.48	1.45	0.72	
16	12.01	46.42	0.07	9.90	5.90	46.27	32.20	6.80	0.44	0.48	0.96	0.88	
17	11.40	33.55	0.08	9.10	5.60	48.34	30.85	7.40	0.48	0.48	0.72	1.90	
18	10.00	29.80	0.11	7.40	8.20	49.78	31.45	7.10	0.36	0.44	1.15	2.72	
19	8.00	26.18	0.09	6.70	12.45	47.44	32.65	6.90	0.13	0.32	1.70	2.54	
20	7.70	21.76	0.10	6.40	14.43	46.47	35.35	6.60	0.24	0.20	2.18	2.63	
21	7.40	15.09	0.10	7.00	16.28	34.60	46.32	6.30	0.40	0.20	1.90	2.81	
22	7.20	17.99	0.09	7.20	17.73	27.22	49.78	4.10	0.40	0.24	2.45	3.30	
23	7.10	15.09	0.10	7.60	18.12	49.06	59.76	4.40	0.36	0.56	2.63	3.20	
24	6.60	11.30	0.10	6.30	17.48	60.42	65.00	5.00	0.12	0.17	2.63	3.30	
25	7.20	9.60	0.12	5.70	17.48	61.30	71.90	4.50	0.14	0.12	2.09	3.50	
26	14.76	8.30	0.12	5.00	17.86	61.96	76.80	2.36	0.20	0.14	2.09	2.81	
27	23.45	16.16	0.10	2.63	15.20	61.96	77.15	1.80	0.19	1.75	1.95	2.63	
28	26.44	20.33	0.11	2.90	13.11	62.92	74.00	1.60	0.48	1.70	2.18	2.18	
29	27.09	19.81	0.12	2.54	15.80	62.66	67.70	1.50	0.76	2.09		2.36	
30	31.00	17.60	0.14	1.55	20.59	64.74	56.00	1.50	0.76	3.00		2.54	
31		14.43		1.70	30.10		46.31		0.19	2.27		3.70	
Total	424.42	720.38	51.40	178.87	315.81	1350.23	1978.18	227.06	17.78	19.19	60.93	61.18	5405.43 CMSDAY
Mean	14.15	23.24	1.71	5.77	10.19	45.01	63.81	7.57	0.57	0.62	2.18	1.97	14.81 CMS
Max	31.00	46.81	12.01	11.90	30.10	64.74	97.00	28.60	1.50	3.00	3.90	3.70	97.00 CMS
Min	6.60	8.30	0.07	1.55	1.85	22.02	29.95	1.50	0.12	0.11	0.72	0.40	0.07 CMS
Runoff	36.67	62.24	4.44	15.45	27.29	116.66	170.92	19.62	1.54	1.66	5.26	5.29	467.03 MCM
Momentary Peak	98.00 CMS, at 6.98 m. (A.D.), at 12.00 Hours, on Oct 2, 2009												
Runoff Yield	3.52 Liters/Second/Square KM.			Momentary Peak Yield			23.272 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Khayung at Ban Non Si Khlai, Si Sa Ket (M.176)

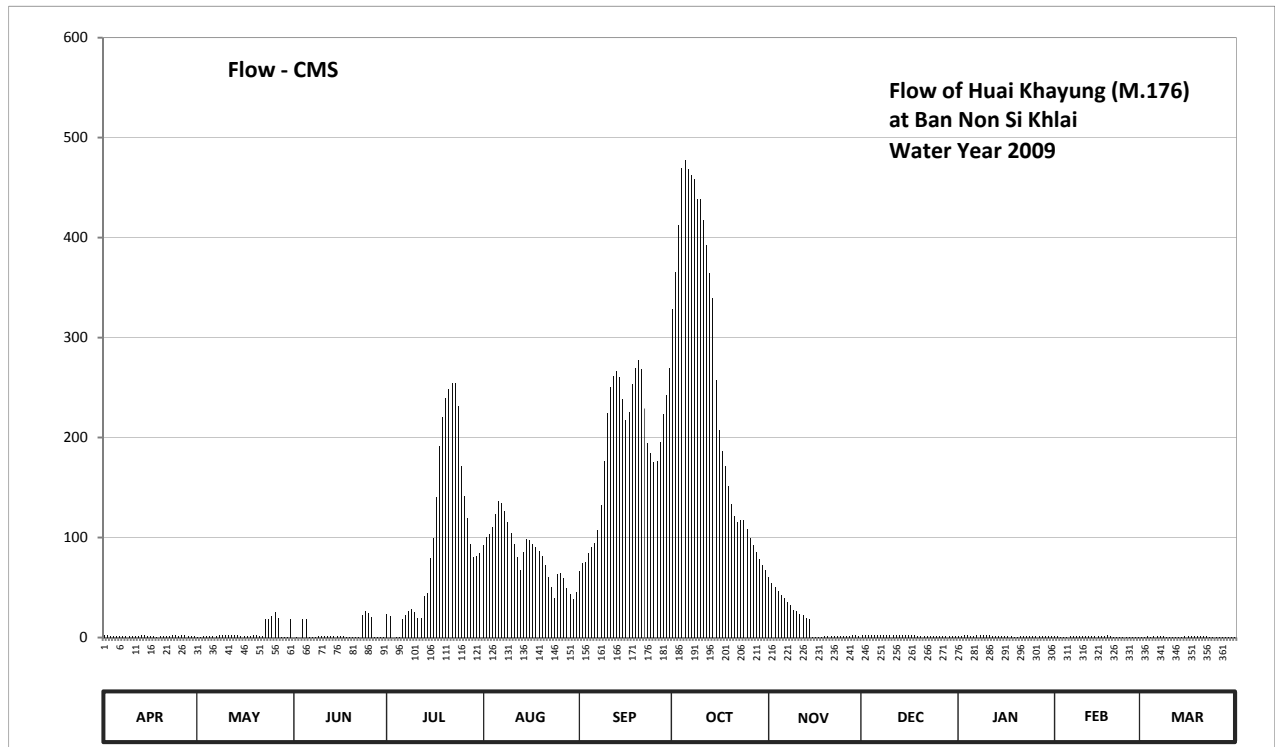
Lat 15 - 00 - 18 N Long 104 - 38 - 14 E

Location : on left bank at Ban Non Si Khlai.

	Ban	Non Si Khlai	Amphoe	Kanthararom	Changwat	Si Sa Ket
Drainage Area	3,131	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+110.210 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+124.130 m. (M.S.L.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow					
General Description	Records very good. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	111.06	111.82	112.39	112.69	115.40	114.50	120.42	114.33	111.03	110.90	110.88	110.80	
2	111.10	111.78	112.29	112.61	115.65	114.77	120.80	114.09	111.01	110.93	110.88	110.84	
3	111.21	111.66	112.40	112.38	115.76	114.81	121.28	113.92	111.01	110.99	110.83	110.85	
4	110.97	111.58	112.41	112.24	115.97	115.13	121.77	113.74	111.05	111.00	110.81	110.84	
5	110.85	111.51	112.41	112.34	116.40	115.33	121.84	113.57	111.08	110.97	110.79	110.88	
6	110.93	111.31	112.29	112.46	116.84	115.46	121.76	113.42	111.06	110.97	110.90	110.86	
7	110.90	111.18	112.02	112.65	116.78	115.89	121.71	113.26	111.05	111.01	110.88	110.87	
8	110.90	111.13	111.77	112.87	116.53	116.73	121.68	113.13	111.04	111.01	110.89	110.86	
9	110.89	111.06	111.48	112.96	116.14	117.98	121.51	112.91	111.02	110.99	110.85	110.82	
10	110.86	111.04	111.38	112.81	115.80	118.92	121.51	112.83	111.03	110.99	110.87	110.82	
11	110.87	111.04	111.50	112.47	115.41	119.35	121.32	112.70	111.03	110.99	110.92	110.79	
12	110.93	111.06	111.66	112.50	115.00	119.54	121.07	112.65	111.03	110.97	110.92	110.81	
13	111.01	111.10	111.76	113.53	114.56	119.62	120.79	112.51	111.14	110.95	110.94	110.82	
14	111.09	111.13	111.71	113.67	115.15	119.52	120.54	112.42	111.04	110.96	110.93	110.84	
15	111.24	111.21	111.55	114.94	115.57	119.15	119.47	112.29	111.01	110.92	110.91	110.89	
16	111.46	111.21	111.41	115.61	115.54	118.80	118.60	112.09	111.01	110.88	110.88	110.92	
17	111.75	111.21	111.61	116.98	115.41	118.94	118.18	111.91	111.00	110.87	110.86	110.91	
18	111.83	111.15	111.89	118.28	115.31	119.41	117.85	111.77	110.98	110.86	111.07	110.88	
19	111.66	111.07	112.23	118.85	115.19	119.67	117.34	111.68	110.97	110.84	110.88	110.87	
20	111.46	111.03	112.23	119.17	115.02	119.78	116.74	111.60	110.97	110.84	110.83	110.89	
21	111.30	111.18	112.19	119.32	114.71	119.65	116.34	111.53	110.92	110.86	110.81	110.89	
22	111.20	111.65	112.31	119.42	114.32	119.00	116.14	111.47	110.93	110.86	110.82	110.87	
23	111.08	112.41	112.67	119.42	113.91	118.35	116.22	111.46	110.92	110.89	110.74	110.77	
24	110.98	112.45	112.85	119.04	113.44	118.14	116.22	111.39	110.92	110.93	110.69	110.69	
25	110.96	112.61	112.77	117.87	114.43	117.95	115.93	111.33	110.92	110.91	110.71	110.75	
26	111.01	112.79	112.56	117.01	114.45	117.98	115.63	111.23	110.92	110.90	110.71	110.74	
27	111.08	112.50	112.19	116.29	114.26	118.36	115.39	111.18	110.91	110.91	110.72	110.76	
28	111.16	112.25	112.19	115.43	113.85	118.91	115.14	111.13	110.91	110.89	110.71	110.77	
29	111.59	112.34	112.16	114.99	113.62	119.23	114.92	111.08	110.91	110.97		110.79	
30	111.74	112.35	112.34	115.01	113.37	119.67	114.73	110.97	110.90	110.89		110.80	
31		112.41		115.11	113.68		114.56		110.90	110.88		110.80	
Mean	111.17	111.62	112.09	115.19	115.08	118.02	118.63	112.32	110.99	110.93	110.84	110.83	
Max	111.83	112.79	112.85	119.42	116.84	119.78	121.84	114.33	111.14	111.01	111.07	110.92	121.84
Min	110.85	111.03	111.38	112.24	113.37	114.50	114.56	110.97	110.90	110.84	110.69	110.69	110.69
Annual Max Momentary Gage Height		121.87		m. (MSL) ,									at 06.00 Hours, on Oct 5, 2009
Zero Gage at Bottom Elevation		110.21		m. (MSL) ,		River Bed	110.37		m. (MSL)				
Left Bank Elevation			123.90		m. (MSL) ,								
Right Bank Elevation			123.65		m. (MSL) ,	Drainage Area	3131		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.11	0.91	0.02	23.30	93.00	66.00	328.60	60.90	2.15	1.35	1.22	0.70	
2	2.04	0.97	0.17	21.70	100.50	74.10	365.00	54.75	2.18	1.60	1.22	0.96	
3	1.87	1.16	0.00	0.03	103.80	75.30	413.00	50.66	2.18	2.11	0.89	1.02	
4	1.95	1.29	18.15	0.25	110.10	84.90	469.40	46.52	2.12	2.20	0.76	0.96	
5	1.02	1.40	18.15	0.09	123.00	90.90	477.80	42.61	2.07	1.95	0.65	1.22	
6	1.60	1.71	0.17	18.90	136.20	94.80	468.20	39.16	2.11	1.95	1.35	1.09	
7	1.35	1.92	0.60	22.50	134.40	107.70	462.20	35.48	2.12	2.18	1.22	1.16	
8	1.35	2.00	0.99	26.90	126.90	132.90	458.60	32.49	2.14	2.18	1.28	1.09	
9	1.28	2.11	1.45	28.70	115.20	176.20	438.20	27.70	2.17	2.11	1.02	0.83	
10	1.09	2.14	1.60	25.70	105.00	224.20	438.20	26.10	2.15	2.11	1.16	0.83	
11	1.16	2.14	1.41	19.05	93.30	250.00	417.20	23.50	2.15	2.11	1.52	0.65	
12	1.60	2.11	1.16	19.50	81.00	261.40	392.00	22.50	2.15	1.95	1.52	0.76	
13	2.18	2.04	1.01	41.69	67.80	266.40	364.00	19.70	1.98	1.77	1.69	0.83	
14	2.06	2.00	1.08	44.91	85.50	260.20	339.00	18.30	2.14	1.86	1.60	0.96	
15	1.82	1.87	1.34	79.20	98.10	238.00	257.20	0.17	2.18	1.52	1.44	1.28	
16	1.48	1.87	1.56	99.30	97.20	217.00	207.00	0.49	2.18	1.22	1.22	1.52	
17	1.02	1.87	1.24	140.40	93.30	225.40	186.00	0.77	2.20	1.16	1.09	1.44	
18	0.90	1.96	0.80	191.00	90.30	253.60	171.00	0.99	2.03	1.09	2.09	1.22	
19	1.16	2.09	0.27	220.00	86.70	269.90	151.20	1.13	1.95	0.96	1.22	1.16	
20	1.48	2.15	0.27	239.20	81.60	277.60	133.20	1.26	1.95	0.96	0.89	1.28	
21	1.73	1.92	0.33	248.20	72.30	268.50	121.20	1.37	1.52	1.09	0.76	1.28	
22	1.89	1.18	0.14	254.20	60.60	229.00	115.20	1.46	1.60	1.09	0.83	1.16	
23	2.07	18.15	22.90	254.20	50.43	194.50	117.60	1.48	1.52	1.28	0.43	0.56	
24	2.03	18.75	26.50	231.40	39.62	184.00	117.60	1.59	1.52	1.60	0.23	0.23	
25	1.86	21.70	24.90	171.80	63.90	175.00	108.90	1.68	1.52	1.44	0.30	0.48	
26	2.18	25.30	20.70	141.30	64.50	176.20	99.90	1.84	1.52	1.35	0.30	0.43	
27	2.07	19.50	0.33	119.70	59.00	195.00	92.70	1.92	1.44	1.44	0.34	0.52	
28	1.95	0.24	0.33	93.90	49.05	223.60	85.20	2.00	1.44	1.28	0.30	0.56	
29	1.27	0.09	0.38	80.70	43.76	242.80	78.60	2.07	1.44	1.95		0.65	
30	1.04	0.08	0.09	81.30	38.01	269.90	72.90	1.95	1.35	1.28		0.70	
31		18.15		84.30	45.14		67.80		1.35	1.22		0.70	
Total	48.61	160.77	148.04	3023.32	2609.21	5805.00	8014.60	522.54	58.52	49.36	28.54	28.23	20496.74 CMSDAY
Mean	1.62	5.19	4.93	97.53	84.17	193.50	258.54	17.42	1.89	1.59	1.02	0.91	56.16 CMS
Max	2.18	25.30	26.50	254.20	136.20	277.60	477.80	60.90	2.20	2.20	2.09	1.52	477.80 CMS
Min	0.90	0.08	0.00	0.03	38.01	66.00	67.80	0.17	1.35	0.96	0.23	0.23	0.00 CMS
Runoff	4.20	13.89	12.79	261.22	225.44	501.55	692.46	45.15	5.06	4.27	2.47	2.44	1770.92 MCM
Momentary Peak	481.40 CMS, at 121.87 m. (MSL), at 06.00 Hours, on Oct 5, 2009												
Runoff Yield	17.94 Liters/Second/Square KM.			Momentary Peak Yield			153.753 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Ta Khong at ban Lat Bua Khaow, Nakhon Ratchasima (M.177)

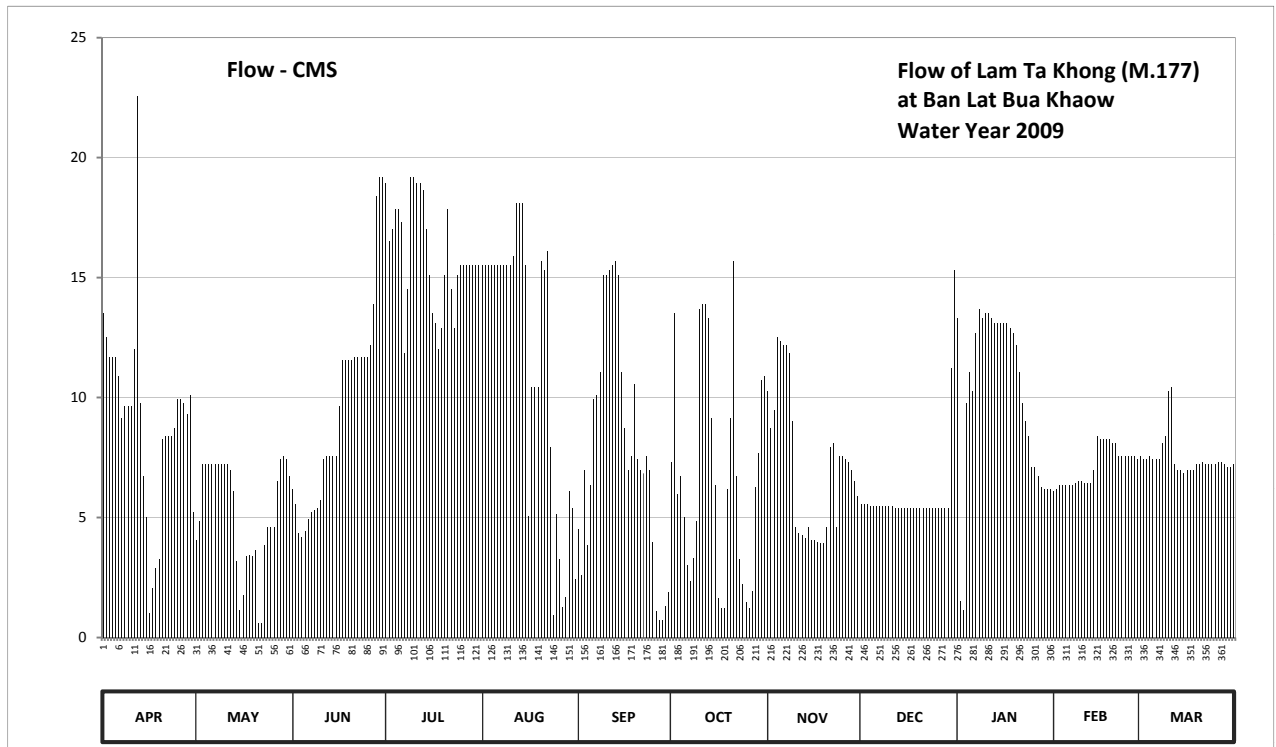
Lat 14 - 50 - 57 N Long 101 - 37 - 12 E

Location : on right bank at the bridge.

Ban	Lat Bua Khaow	Amphoe	Si Khiu	Changwat	Nakhon Ratchasima
Drainage Area	1,519 sq.km.				
Type of Gage	Water - stage recorder.				
Zero Gage at Bottom	+236.700 m. (M.S.L.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank at the footpath of the bridge.			Elevation	+243.940 m. (M.S.L.)
Gage Reading Frequency	Recording.				
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings				
Period of Available Gage Records	2003 to date				
Rating Operation					
Period of Rating	2003 to date				
Rated by Flot	-				
Rated by Current Meter	2003 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records very good. Stage-discharge relation defined by 37 discharge measurements made in 2009.				

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.75	238.98	239.25	239.99	239.85	239.04	239.36	239.56	239.17	239.74	239.24	239.38	
2	239.70	239.08	239.17	239.90	239.85	238.70	239.75	239.46	239.17	238.43	239.25	239.37	
3	239.65	239.35	239.02	239.92	239.85	239.33	239.22	239.51	239.17	238.27	239.27	239.37	
4	239.65	239.35	239.00	239.95	239.85	238.95	239.31	239.70	239.16	239.53	239.27	239.38	
5	239.65	239.35	239.03	239.95	239.85	239.27	239.10	239.69	239.16	239.61	239.27	239.37	
6	239.60	239.35	239.09	239.93	239.85	239.54	238.80	239.68	239.16	239.56	239.27	239.37	
7	239.49	239.35	239.13	239.66	239.85	239.55	238.64	239.68	239.16	239.71	239.27	239.37	
8	239.52	239.35	239.14	239.80	239.85	239.61	238.86	239.66	239.16	239.76	239.28	239.42	
9	239.52	239.35	239.15	240.00	239.85	239.83	239.08	239.48	239.16	239.74	239.29	239.44	
10	239.52	239.35	239.19	240.00	239.85	239.83	239.76	239.05	239.16	239.75	239.29	239.56	
11	239.67	239.35	239.37	239.99	239.87	239.84	239.77	239.02	239.16	239.75	239.28	239.57	
12	240.12	239.33	239.38	239.99	239.96	239.85	239.77	239.01	239.15	239.74	239.28	239.35	
13	239.53	239.24	239.38	239.98	239.96	239.86	239.74	238.99	239.15	239.73	239.28	239.33	
14	239.31	238.84	239.38	239.92	239.96	239.83	239.49	239.05	239.15	239.73	239.33	239.33	
15	239.10	238.27	239.38	239.83	239.85	239.61	239.27	238.98	239.15	239.73	239.44	239.32	
16	238.22	238.49	239.52	239.75	239.11	239.46	238.46	238.98	239.15	239.73	239.43	239.33	
17	238.57	238.88	239.64	239.73	239.57	239.33	238.32	238.97	239.15	239.73	239.43	239.33	
18	238.77	238.89	239.64	239.67	239.57	239.38	238.31	238.96	239.15	239.72	239.43	239.33	
19	238.85	238.88	239.64	239.72	239.57	239.58	239.25	238.96	239.15	239.71	239.43	239.35	
20	239.43	238.92	239.64	239.83	239.86	239.37	239.49	239.05	239.15	239.68	239.42	239.35	
21	239.44	237.98	239.65	239.95	239.84	239.33	239.86	239.41	239.15	239.61	239.42	239.36	
22	239.44	237.97	239.65	239.80	239.88	239.32	239.31	239.42	239.15	239.53	239.38	239.35	
23	239.44	238.95	239.65	239.72	239.41	239.38	238.85	239.05	239.15	239.48	239.38	239.35	
24	239.46	239.05	239.65	239.83	238.16	239.33	238.61	239.38	239.15	239.44	239.38	239.35	
25	239.54	239.05	239.65	239.85	239.12	238.97	238.42	239.38	239.15	239.34	239.38	239.35	
26	239.54	239.05	239.68	239.85	238.85	238.26	238.31	239.37	239.15	239.34	239.38	239.36	
27	239.53	239.29	239.77	239.85	238.33	238.06	238.53	239.36	239.15	239.31	239.38	239.36	
28	239.50	239.37	239.97	239.85	238.47	238.04	239.26	239.33	239.15	239.26	239.37	239.35	
29	239.55	239.38	240.00	239.85	239.24	238.36	239.39	239.29	239.15	239.25		239.34	
30	239.13	239.37	240.00	239.85	239.15	238.52	239.59	239.21	239.62	239.25		239.34	
31		239.31		239.85	238.66		239.60		239.84	239.25		239.35	
Mean	239.41	239.06	239.46	239.86	239.51	239.24	239.14	239.29	239.19	239.50	239.34	239.37	
Max	240.12	239.38	240.00	240.00	239.96	239.86	239.86	239.70	239.84	239.76	239.44	239.57	240.12
Min	238.22	237.97	239.00	239.66	238.16	238.04	238.31	238.96	239.15	238.27	239.24	239.32	237.97
Annual Max Momentary Gage Height		240.47		m. (MSL.) ,									at 06.00 Hours, on Apr 12, 2009
Zero Gage at Bottom Elevation		236.70		m. (MSL.) ,		River Bed	237.35		m. (MSL)				
Left Bank Elevation		243.95		m. (MSL.) ,									
Right Bank Elevation		243.51		m. (MSL.) ,		Drainage Area	1519		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.50	4.06	6.20	18.93	15.50	4.52	7.32	10.26	5.56	13.30	6.12	7.56		
2	12.50	4.84	5.56	16.50	15.50	2.60	13.50	8.70	5.56	1.52	6.20	7.44		
3	11.70	7.20	4.36	17.04	15.50	6.96	5.96	9.46	5.56	1.14	6.36	7.44		
4	11.70	7.20	4.20	17.85	15.50	3.85	6.72	12.50	5.48	9.78	6.36	7.56		
5	11.70	7.20	4.44	17.85	15.50	6.36	5.00	12.34	5.48	11.06	6.36	7.44		
6	10.90	7.20	4.92	17.31	15.50	9.94	3.00	12.18	5.48	10.26	6.36	7.44		
7	9.15	7.20	5.24	11.86	15.50	10.10	2.36	12.18	5.48	12.70	6.36	7.44		
8	9.62	7.20	5.32	14.50	15.50	11.06	3.30	11.86	5.48	13.70	6.44	8.10		
9	9.62	7.20	5.40	19.20	15.50	15.10	4.84	9.00	5.48	13.30	6.52	8.40		
10	9.62	7.20	5.72	19.20	15.50	15.10	13.70	4.60	5.48	13.50	6.52	10.26		
11	12.02	7.20	7.44	18.93	15.90	15.30	13.90	4.36	5.48	13.50	6.44	10.42		
12	22.56	6.96	7.56	18.93	18.12	15.50	13.90	4.28	5.40	13.30	6.44	7.20		
13	9.78	6.12	7.56	18.66	18.12	15.70	13.30	4.13	5.40	13.10	6.44	6.96		
14	6.72	3.20	7.56	17.04	18.12	15.10	9.15	4.60	5.40	13.10	6.96	6.96		
15	5.00	1.14	7.56	15.10	15.50	11.06	6.36	4.06	5.40	13.10	8.40	6.84		
16	1.04	1.76	9.62	13.50	5.08	8.70	1.64	4.06	5.40	13.10	8.25	6.96		
17	2.08	3.40	11.54	13.10	10.42	6.96	1.24	3.99	5.40	13.10	8.25	6.96		
18	2.88	3.45	11.54	12.02	10.42	7.56	1.22	3.92	5.40	12.90	8.25	6.96		
19	3.25	3.40	11.54	12.90	10.42	10.58	6.20	3.92	5.40	12.70	8.25	7.20		
20	8.25	3.64	11.54	15.10	15.70	7.44	9.15	4.60	5.40	12.18	8.10	7.20		
21	8.40	0.62	11.70	17.85	15.30	6.96	15.70	7.95	5.40	11.06	8.10	7.32		
22	8.40	0.61	11.70	14.50	16.10	6.84	6.72	8.10	5.40	9.78	7.56	7.20		
23	8.40	3.85	11.70	12.90	7.95	7.56	3.25	4.60	5.40	9.00	7.56	7.20		
24	8.70	4.60	11.70	15.10	0.92	6.96	2.24	7.56	5.40	8.40	7.56	7.20		
25	9.94	4.60	11.70	15.50	5.16	3.99	1.48	7.56	5.40	7.08	7.56	7.20		
26	9.94	4.60	12.18	15.50	3.25	1.12	1.22	7.44	5.40	7.08	7.56	7.32		
27	9.78	6.52	13.90	15.50	1.26	0.74	1.92	7.32	5.40	6.72	7.56	7.32		
28	9.30	7.44	18.39	15.50	1.68	0.71	6.28	6.96	5.40	6.28	7.44	7.20		
29	10.10	7.56	19.20	15.50	6.12	1.32	7.68	6.52	5.40	6.20		7.08		
30	5.24	7.44	19.20	15.50	5.40	1.88	10.74	5.88	11.22	6.20		7.08		
31		6.72		15.50	2.44		10.90		15.30	6.20		7.20		
Total	271.79	161.33	286.19	494.37	358.38	237.57	209.89	214.89	184.24	314.34	200.28	232.06	3165.33	CMSDAY
Mean	9.06	5.20	9.54	15.95	11.56	7.92	6.77	7.16	5.94	10.14	7.15	7.49	8.67	CMS
Max	22.56	7.56	19.20	19.20	18.12	15.70	15.70	12.50	15.30	13.70	8.40	10.42	22.56	CMS
Min	1.04	0.61	4.20	11.86	0.92	0.71	1.22	3.92	5.40	1.14	6.12	6.84	0.61	CMS
Runoff	23.48	13.94	24.73	42.71	30.96	20.53	18.13	18.57	15.92	27.16	17.30	20.05	273.49	MCM
Momentary Peak	34.40 CMS, at 240.47 m. (MSL), at 06.00 Hours, on Apr 12, 2009													
Runoff Yield	5.71 Liters/Second/Square KM.			Momentary Peak Yield				22.646 Liters/Second/Square KM.						

WATER YEAR : 2009**MUN RIVER BASIN****Lam Sa Bai at Ban Tha Wari, Ubon Ratchathani (M.179)**

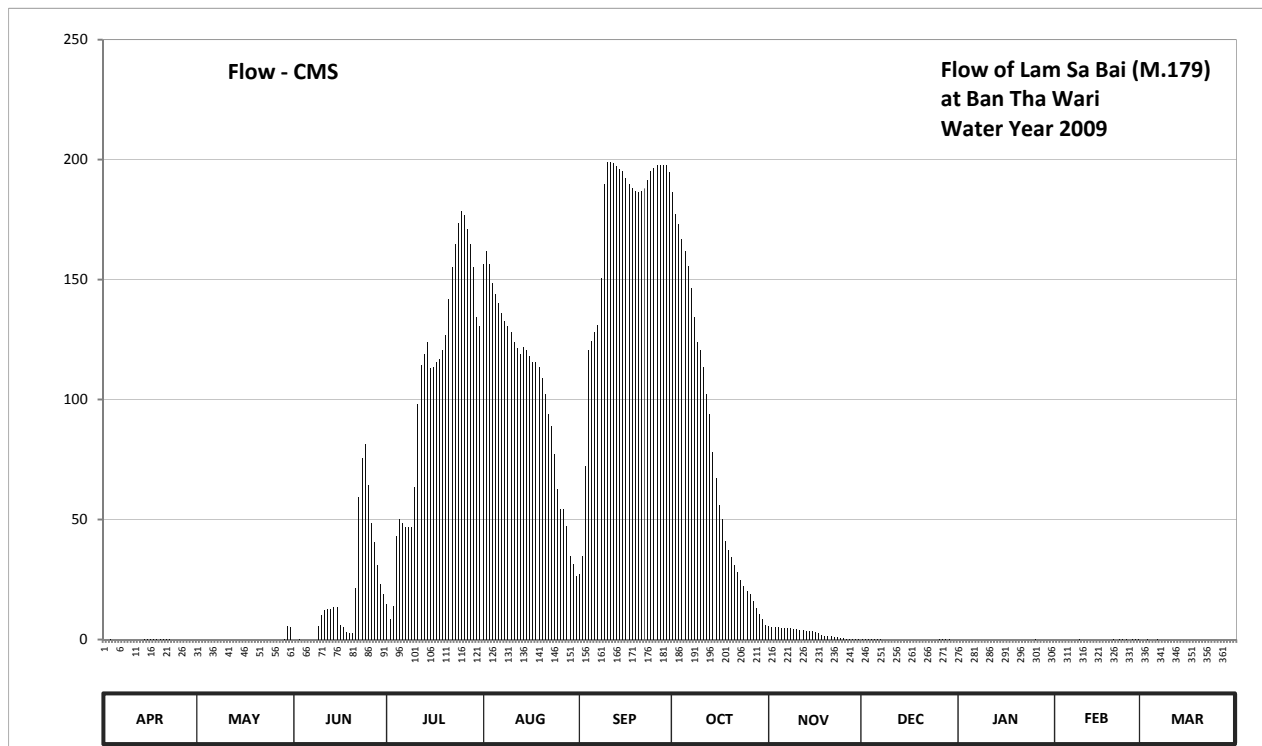
Lat 15 - 19 - 34 N Long 104 - 41 - 08 E

Location : on right bank at the bridge.

	Ban Tha Wari	Amphoe Khueang Nai	Changwat Ubon Ratchathani
Drainage Area	3,881	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+106.340 m. (M.S.L.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.		Elevation +120.090 m. (M.S.L.)
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 means of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	108.12	108.19	108.23	108.80	111.51	109.15	113.17	111.92	108.34	108.23	108.25	108.26	
2	108.20	108.18	108.23	108.63	111.61	109.36	113.35	111.82	108.33	108.23	108.29	108.29	
3	108.35	108.15	108.23	108.78	111.51	110.14	113.42	111.72	108.32	108.22	108.26	108.31	
4	108.30	108.13	108.22	109.56	111.37	110.91	113.48	111.62	108.32	108.21	108.22	108.29	
5	108.23	108.13	108.22	109.70	111.29	110.99	113.56	111.54	108.32	108.19	108.20	108.30	
6	108.23	108.13	108.21	109.67	111.25	111.06	113.63	111.48	108.32	108.18	108.20	108.36	
7	108.23	108.13	108.21	109.64	111.21	111.12	113.69	111.40	108.31	108.18	108.22	108.29	
8	108.23	108.13	108.20	109.64	111.15	111.41	113.73	111.34	108.30	108.18	108.30	108.25	
9	108.23	108.13	108.54	109.64	111.11	112.10	113.76	111.22	108.28	108.17	108.32	108.24	
10	108.23	108.13	108.67	109.90	111.06	112.53	113.77	111.11	108.28	108.14	108.29	108.23	
11	108.24	108.10	108.73	110.56	110.98	112.73	113.79	111.01	108.28	108.14	108.25	108.21	
12	108.27	108.07	108.74	110.79	110.93	112.82	113.78	110.90	108.28	108.19	108.23	108.26	
13	108.30	108.09	108.74	110.88	110.88	112.88	113.76	110.79	108.28	108.17	108.23	108.29	
14	108.32	108.17	108.77	110.98	110.94	112.94	113.72	110.67	108.27	108.12	108.22	108.20	
15	108.35	108.19	108.77	110.77	110.91	112.99	113.67	110.51	108.27	108.11	108.21	108.22	
16	108.35	108.19	108.56	110.78	110.86	113.05	113.56	110.32	108.26	108.09	108.20	108.28	
17	108.35	108.19	108.53	110.81	110.81	113.10	113.50	110.10	108.24	108.06	108.22	108.17	
18	108.34	108.19	108.48	110.84	110.81	113.14	113.41	109.52	108.24	108.04	108.20	108.14	
19	108.34	108.19	108.46	110.91	110.78	113.16	113.33	109.32	108.23	108.10	108.28	108.13	
20	108.33	108.19	108.46	111.04	110.71	113.17	113.25	109.24	108.23	108.24	108.33	108.13	
21	108.33	108.18	108.98	111.27	110.62	113.16	113.13	109.22	108.22	108.27	108.24	108.12	
22	108.32	108.19	109.89	111.49	110.50	113.14	113.03	109.08	108.22	108.20	108.35	108.11	
23	108.25	108.18	110.21	111.66	110.43	113.07	112.93	108.86	108.22	108.23	108.41	108.11	
24	108.23	108.18	110.32	111.81	110.24	112.99	112.82	108.73	108.22	108.23	108.32	108.09	
25	108.22	108.22	109.99	111.90	109.95	112.92	112.72	108.60	108.25	108.29	108.29	108.09	
26	108.21	108.23	109.67	111.87	109.79	112.86	112.65	108.55	108.33	108.32	108.36	108.09	
27	108.20	108.24	109.51	111.77	109.79	112.86	112.50	108.46	108.32	108.28	108.38	108.09	
28	108.19	108.24	109.25	111.66	109.65	112.86	112.35	108.41	108.32	108.24	108.31	108.07	
29	108.19	108.39	109.03	111.49	109.35	112.87	112.23	108.38	108.32	108.15		108.08	
30	108.19	108.54	108.91	111.19	109.26	113.00	112.12	108.34	108.26	108.15		108.12	
31		108.53		111.11	109.12		112.00		108.24	108.15		108.12	
Mean	108.26	108.20	108.83	110.63	110.66	112.28	113.22	110.14	108.28	108.18	108.27	108.19	
Max	108.35	108.54	110.32	111.90	111.61	113.17	113.79	111.92	108.34	108.32	108.41	108.36	113.79
Min	108.12	108.07	108.20	108.63	109.12	109.15	112.00	108.34	108.22	108.04	108.20	108.07	108.04
Annual Max Momentary Gage Height		113.79	m. (MSL.) ,				at 06.00 Hours, on Oct 10, 2009						
Zero Gage at Bottom Elevation		106.34	m. (MSL.) ,			River Bed	105.70	m. (MSL)					
Left Bank Elevation		119.02	m. (MSL.) ,										
Right Bank Elevation		120.27	m. (MSL.) ,			Drainage Area	3881	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	14.80	156.29	27.40	186.50	5.52	0.06	0.00	0.00	0.00	
2	0.00	0.00	0.00	8.68	162.00	34.96	177.50	5.28	0.05	0.00	0.00	0.00	
3	0.20	0.00	0.20	14.08	156.29	72.00	173.00	5.13	0.03	0.00	0.00	0.02	
4	0.00	0.00	0.00	43.00	148.50	120.50	167.00	4.98	0.03	0.00	0.00	0.00	
5	0.00	0.00	0.00	50.00	144.00	124.50	162.00	4.86	0.03	0.00	0.00	0.00	
6	0.00	0.00	0.00	48.50	140.00	128.00	155.50	4.77	0.03	0.00	0.00	0.09	
7	0.00	0.00	0.00	47.00	136.00	131.00	146.50	4.65	0.02	0.00	0.00	0.00	
8	0.00	0.00	0.00	47.00	132.50	150.57	134.50	4.56	0.00	0.00	0.00	0.00	
9	0.00	0.00	5.44	47.00	130.50	190.00	124.00	4.38	0.00	0.00	0.03	0.00	
10	0.00	0.00	10.12	63.50	128.00	199.00	120.50	4.21	0.00	0.00	0.00	0.00	
11	0.00	0.00	12.28	98.20	124.00	199.02	113.50	4.07	0.00	0.00	0.00	0.00	
12	0.00	0.00	12.64	114.30	121.50	198.62	102.00	3.90	0.00	0.00	0.00	0.00	
13	0.00	0.00	12.64	119.00	119.00	197.41	94.00	3.74	0.00	0.00	0.00	0.00	
14	0.08	0.00	13.72	124.00	122.00	196.20	78.00	3.56	0.00	0.00	0.00	0.00	
15	0.20	0.00	13.72	112.90	120.50	195.20	67.00	3.32	0.00	0.00	0.00	0.00	
16	0.20	0.00	6.16	113.60	118.00	192.50	56.00	3.03	0.00	0.00	0.00	0.00	
17	0.20	0.00	5.08	115.50	115.50	190.00	50.00	2.70	0.00	0.00	0.00	0.00	
18	0.16	0.00	3.26	117.00	115.50	188.00	41.00	1.83	0.00	0.00	0.00	0.00	
19	0.16	0.00	2.56	120.50	113.60	187.00	37.20	1.53	0.00	0.00	0.00	0.00	
20	0.12	0.00	2.56	127.00	108.70	186.50	34.50	1.41	0.00	0.00	0.05	0.00	
21	0.12	0.00	21.28	142.00	102.40	187.00	30.90	1.38	0.00	0.00	0.00	0.00	
22	0.08	0.00	59.50	155.14	94.00	188.00	27.90	1.17	0.00	0.00	0.07	0.00	
23	0.00	0.00	75.50	164.86	89.10	191.50	24.90	0.84	0.00	0.00	0.16	0.00	
24	0.00	0.00	81.40	173.43	77.00	195.20	22.40	0.65	0.00	0.00	0.03	0.00	
25	0.00	0.00	64.50	178.57	62.50	196.60	20.40	0.45	0.00	0.00	0.00	0.00	
26	0.00	0.00	48.50	176.86	54.50	197.81	19.00	0.37	0.05	0.03	0.09	0.00	
27	0.00	0.00	40.50	171.14	54.50	197.81	16.00	0.24	0.03	0.00	0.12	0.00	
28	0.00	0.00	31.00	164.86	47.50	197.81	13.00	0.16	0.03	0.00	0.02	0.00	
29	0.00	0.36	23.08	155.14	34.60	197.61	10.60	0.12	0.03	0.00	0.00	0.00	
30	0.00	5.44	18.76	134.50	31.36	195.00	8.40	0.06	0.00	0.00	0.00	0.00	
31	0.00	5.08	130.50	26.32	6.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	
Total	1.52	10.88	564.40	3292.56	3286.16	5052.72	2419.70	82.87	0.39	0.03	0.57	0.11	14711.91 CMSDAY
Mean	0.05	0.35	18.81	106.21	106.01	168.42	78.05	2.76	0.01	0.00	0.02	0.00	40.31 CMS
Max	0.20	5.44	81.40	178.57	162.00	199.02	186.50	5.52	0.06	0.03	0.16	0.09	199.02 CMS
Min	0.00	0.00	0.00	8.68	26.32	27.40	6.00	0.06	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.13	0.94	48.76	284.48	283.92	436.56	209.06	7.16	0.03	0.00	0.05	0.01	1271.11 MCM
Momentary Peak	194.16 CMS, at 113.79 m. (MSL), at 06.00 Hours, on Oct 10, 2009												
Runoff Yield	10.39 Liters/Second/Square KM.			Momentary Peak Yield			50.020 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Phra Phloeng at Ban Tha Yiam, Nakhon Ratchasima (M.180)

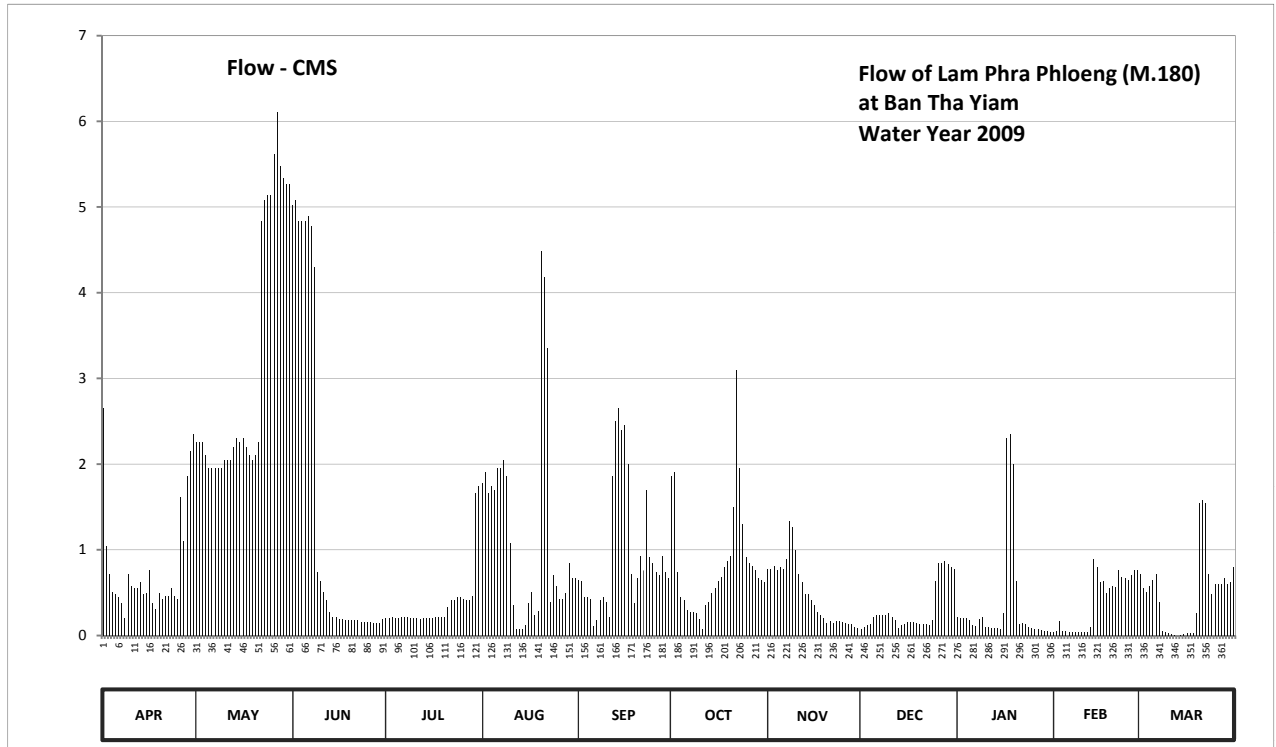
Lat 14 - 38 - 04 N Long 101 - 53 - 16 E

Location : on left bank at Ban Tha Yiam

	Ban	Tha Yiam	Amphoe	Pak Thong Chai	Changwat	Nakhon Ratchasima
Drainage Area	864	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+219.210 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+227.890 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	220.45	220.37	220.87	219.59	220.27	219.87	220.29	219.94	219.45	219.61	219.37	219.91	
2	220.07	220.37	220.88	219.59	220.30	219.86	220.30	219.94	219.50	219.59	219.40	219.81	
3	219.91	220.37	220.84	219.61	220.24	219.75	219.92	219.96	219.52	219.59	219.56	219.79	
4	219.79	220.34	220.84	219.59	220.26	219.75	219.75	219.93	219.53	219.59	219.39	219.83	
5	219.77	220.31	220.84	219.59	220.25	219.74	219.73	219.95	219.60	219.57	219.39	219.87	
6	219.75	220.31	220.85	219.60	220.31	219.51	219.66	219.94	219.62	219.52	219.38	219.91	
7	219.71	220.31	220.83	219.60	220.31	219.57	219.64	220.00	219.62	219.51	219.38	219.72	
8	219.59	220.31	220.75	219.60	220.33	219.73	219.64	220.16	219.62	219.58	219.38	219.40	
9	219.91	220.31	219.92	219.59	220.29	219.75	219.63	220.14	219.62	219.60	219.38	219.37	
10	219.83	220.33	219.86	219.59	220.09	219.72	219.58	220.05	219.63	219.50	219.37	219.34	
11	219.81	220.33	219.79	219.59	219.70	219.61	219.45	219.91	219.61	219.49	219.37	219.30	
12	219.81	220.33	219.73	219.58	219.46	220.29	219.69	219.85	219.57	219.48	219.37	219.25	
13	219.85	220.36	219.64	219.59	219.44	220.42	219.72	219.77	219.47	219.48	219.49	219.22	
14	219.77	220.38	219.60	219.59	219.45	220.45	219.78	219.77	219.52	219.47	220.00	219.26	
15	219.78	220.37	219.61	219.59	219.52	220.40	219.81	219.73	219.53	219.46	219.95	219.30	
16	219.93	220.38	219.58	219.59	219.71	220.41	219.86	219.70	219.55	219.63	219.85	219.32	
17	219.71	220.36	219.58	219.60	219.79	220.32	219.89	219.64	219.55	220.38	219.86	219.32	
18	219.67	220.34	219.57	219.60	219.62	219.91	219.95	219.62	219.55	220.39	219.78	219.33	
19	219.78	220.33	219.57	219.60	219.65	219.71	219.99	219.59	219.54	220.32	219.81	219.63	
20	219.74	220.34	219.57	219.60	220.78	219.88	220.02	219.54	219.53	219.86	219.83	220.21	
21	219.76	220.37	219.57	219.68	220.73	220.02	220.20	219.56	219.53	219.53	219.82	220.22	
22	219.76	220.84	219.57	219.73	220.59	219.93	220.54	219.54	219.53	219.54	219.93	220.21	
23	219.81	220.88	219.55	219.73	219.72	220.25	220.31	219.56	219.52	219.53	219.89	219.91	
24	219.76	220.89	219.55	219.75	219.90	220.01	220.15	219.56	219.57	219.49	219.88	219.77	
25	219.74	220.89	219.55	219.75	219.83	219.98	220.01	219.55	219.86	219.48	219.87	219.84	
26	220.23	220.96	219.55	219.74	219.74	219.92	219.98	219.54	219.98	219.44	219.90	219.84	
27	220.10	221.03	219.54	219.73	219.74	219.90	219.96	219.53	219.98	219.44	219.93	219.84	
28	220.29	220.94	219.54	219.73	219.78	220.02	219.93	219.53	219.99	219.43	219.93	219.88	
29	220.35	220.92	219.54	219.76	219.98	219.92	219.88	219.50	219.97	219.40		219.84	
30	220.39	220.91	219.58	220.24	219.88	219.88	219.87	219.48	219.95	219.39		219.85	
31		220.91		220.26	219.88		219.85		219.94	219.37		219.95	
Mean	219.89	220.53	219.94	219.68	219.99	219.95	219.90	219.75	219.64	219.60	219.66	219.69	
Max	220.45	221.03	220.88	220.26	220.78	220.45	220.54	220.16	219.99	220.39	220.00	220.22	221.03
Min	219.59	220.31	219.54	219.58	219.44	219.51	219.45	219.48	219.45	219.37	219.37	219.22	219.22
Annual Max Momentary Gage Height		221.04		m. (MSL.) ,			at 12.00 Hours, on May 27, 2009						
Zero Gage at Bottom Elevation		219.21		m. (MSL.) ,		River Bed	219.13		m. (MSL)				
Left Bank Elevation		227.58		m. (MSL.) ,									
Right Bank Elevation		227.51		m. (MSL.) ,		Drainage Area	864		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.65	2.25	5.02	0.20	1.78	0.65	1.86	0.78	0.08	0.22	0.04	0.72	
2	1.04	2.25	5.08	0.20	1.90	0.63	1.90	0.78	0.10	0.20	0.05	0.55	
3	0.72	2.25	4.84	0.22	1.66	0.45	0.74	0.81	0.12	0.20	0.17	0.51	
4	0.51	2.10	4.84	0.20	1.74	0.45	0.45	0.76	0.13	0.20	0.05	0.58	
5	0.48	1.95	4.84	0.20	1.70	0.43	0.41	0.80	0.21	0.18	0.05	0.65	
6	0.45	1.95	4.90	0.21	1.95	0.11	0.30	0.78	0.24	0.12	0.04	0.72	
7	0.38	1.95	4.78	0.21	1.95	0.18	0.27	0.89	0.24	0.11	0.04	0.39	
8	0.20	1.95	4.30	0.21	2.05	0.41	0.27	1.34	0.24	0.19	0.04	0.05	
9	0.72	1.95	0.74	0.20	1.86	0.45	0.26	1.26	0.24	0.21	0.04	0.04	
10	0.58	2.05	0.63	0.20	1.08	0.39	0.19	1.00	0.26	0.10	0.04	0.03	
11	0.55	2.05	0.51	0.20	0.36	0.22	0.08	0.72	0.22	0.10	0.04	0.02	
12	0.55	2.05	0.41	0.19	0.08	1.86	0.35	0.62	0.18	0.09	0.04	0.01	
13	0.62	2.20	0.27	0.20	0.07	2.50	0.39	0.48	0.09	0.09	0.10	0.00	
14	0.48	2.30	0.21	0.20	0.08	2.65	0.50	0.48	0.12	0.09	0.89	0.01	
15	0.50	2.25	0.22	0.20	0.12	2.40	0.55	0.41	0.13	0.08	0.80	0.02	
16	0.76	2.30	0.19	0.20	0.38	2.45	0.63	0.36	0.16	0.26	0.62	0.03	
17	0.38	2.20	0.19	0.21	0.51	2.00	0.68	0.27	0.16	2.30	0.63	0.03	
18	0.31	2.10	0.18	0.21	0.24	0.72	0.80	0.24	0.16	2.35	0.50	0.03	
19	0.50	2.05	0.18	0.21	0.28	0.38	0.87	0.20	0.14	2.00	0.55	0.26	
20	0.43	2.10	0.18	0.21	4.48	0.67	0.93	0.14	0.13	0.63	0.58	1.54	
21	0.46	2.25	0.18	0.33	4.18	0.93	1.50	0.17	0.13	0.13	0.56	1.58	
22	0.46	4.84	0.18	0.41	3.35	0.76	3.10	0.14	0.13	0.14	0.76	1.54	
23	0.55	5.08	0.16	0.41	0.39	1.70	1.95	0.17	0.12	0.13	0.68	0.72	
24	0.46	5.14	0.16	0.45	0.70	0.91	1.30	0.17	0.18	0.10	0.67	0.48	
25	0.43	5.14	0.16	0.45	0.58	0.85	0.91	0.16	0.63	0.09	0.65	0.60	
26	1.62	5.62	0.16	0.43	0.43	0.74	0.85	0.14	0.85	0.07	0.70	0.60	
27	1.10	6.11	0.14	0.41	0.43	0.70	0.81	0.13	0.85	0.07	0.76	0.60	
28	1.86	5.48	0.14	0.41	0.50	0.93	0.76	0.13	0.87	0.06	0.76	0.67	
29	2.15	5.34	0.14	0.46	0.85	0.74	0.67	0.10	0.83	0.05	0.60	0.60	
30	2.35	5.27	0.19	1.66	0.67	0.67	0.65	0.09	0.80	0.05	0.62	0.62	
31		5.27		1.74	0.67		0.62		0.78	0.04		0.80	
Total	24.25	97.79	44.12	11.24	37.02	28.93	25.55	14.52	9.52	10.65	10.85	15.00	329.44 CMSDAY
Mean	0.81	3.15	1.47	0.36	1.19	0.96	0.82	0.48	0.31	0.34	0.39	0.48	0.90 CMS
Max	2.65	6.11	5.08	1.74	4.48	2.65	3.10	1.34	0.87	2.35	0.89	1.58	6.11 CMS
Min	0.20	1.95	0.14	0.19	0.07	0.11	0.08	0.09	0.08	0.04	0.04	0.00	0.00 CMS
Runoff	2.10	8.45	3.81	0.97	3.20	2.50	2.21	1.26	0.82	0.92	0.94	1.30	28.46 MCM
Momentary Peak	6.18 CMS, at 221.04 m. (MSL), at 12.00 Hours, on May 27, 2009												
Runoff Yield	1.04 Liters/Second/Square KM.			Momentary Peak Yield			7.153 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Mun River at Ban Si Than, Si Sa Ket (M.182)

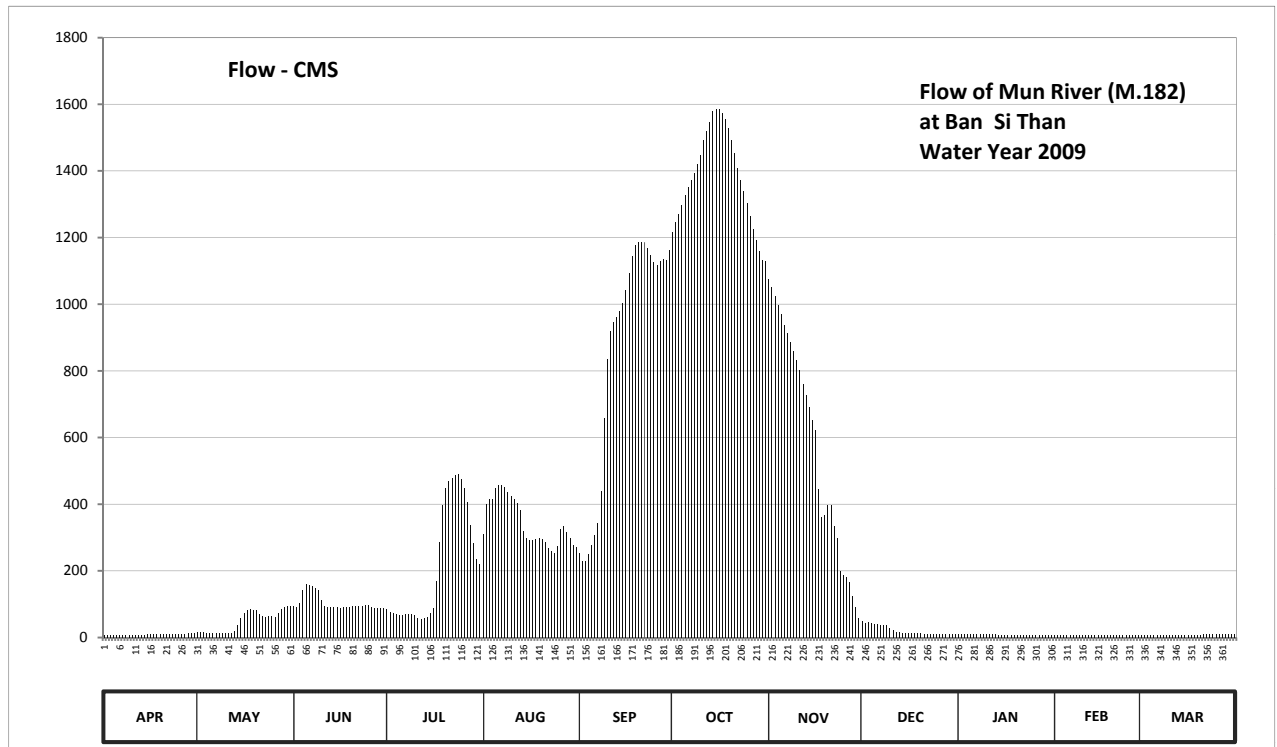
Lat 15 - 07 - 58 N Long 104 - 29 - 18 E

Location : on right bank at the bridge on highway.

	Ban	Si Than	Amphoe	Kanthararom	Changwat	Si Sa Ket
Drainage Area	49,778	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+106.490 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+119.797 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	107.79	108.12	109.21	109.12	110.65	110.31	115.48	114.87	108.71	107.94	107.85	107.84	
2	107.79	108.12	109.19	109.05	111.20	110.16	115.60	114.75	108.65	107.94	107.84	107.83	
3	107.79	108.12	109.28	109.02	111.29	110.16	115.69	114.62	108.68	107.93	107.84	107.83	
4	107.80	108.10	109.59	108.97	111.28	110.28	115.78	114.50	108.65	107.93	107.84	107.83	
5	107.80	108.08	109.72	108.95	111.48	110.45	115.88	114.37	108.61	107.93	107.84	107.83	
6	107.78	108.07	109.71	108.95	111.54	110.63	115.96	114.21	108.59	107.92	107.84	107.84	
7	107.76	108.08	109.68	108.98	111.53	110.86	116.03	114.09	108.58	107.92	107.84	107.84	
8	107.76	108.08	109.63	108.97	111.50	111.43	116.10	113.95	108.56	107.92	107.84	107.84	
9	107.76	108.08	109.59	108.97	111.42	112.70	116.17	113.81	108.53	107.91	107.85	107.84	
10	107.77	108.08	109.37	108.96	111.34	113.67	116.24	113.65	108.43	107.91	107.86	107.83	
11	107.81	108.09	109.21	108.85	111.28	114.12	116.34	113.49	108.27	107.91	107.86	107.82	
12	107.84	108.11	109.19	108.79	111.21	114.25	116.40	113.27	108.17	107.91	107.86	107.82	
13	107.84	108.20	109.20	108.83	111.08	114.32	116.46	113.09	108.12	107.90	107.85	107.82	
14	107.84	108.57	109.19	108.89	110.71	114.41	116.53	112.89	108.09	107.89	107.85	107.81	
15	108.00	108.84	109.18	109.02	110.58	114.53	116.54	112.67	108.07	107.88	107.85	107.82	
16	108.00	109.02	109.17	109.17	110.55	114.71	116.54	112.50	108.06	107.87	107.86	107.82	
17	107.99	109.11	109.19	109.79	110.54	114.96	116.52	111.46	108.05	107.86	107.86	107.82	
18	107.99	109.12	109.18	110.50	110.56	115.18	116.48	110.97	108.03	107.86	107.87	107.83	
19	108.00	109.11	109.20	111.18	110.58	115.32	116.42	111.00	108.02	107.85	107.88	107.83	
20	108.00	109.11	109.22	111.48	110.56	115.36	116.34	111.18	108.02	107.85	107.88	107.84	
21	108.00	108.99	109.22	111.60	110.51	115.36	116.25	111.18	108.01	107.85	107.87	107.90	
22	107.98	108.91	109.22	111.66	110.40	115.36	116.14	110.80	108.00	107.86	107.89	107.98	
23	107.95	108.89	109.22	111.72	110.34	115.28	116.03	110.57	107.99	107.86	107.89	108.00	
24	107.93	108.92	109.24	111.73	110.31	115.19	115.92	109.98	107.99	107.86	107.88	107.99	
25	107.94	108.91	109.23	111.65	110.44	115.10	115.80	109.91	107.97	107.86	107.86	107.98	
26	107.98	108.90	109.20	111.48	110.74	115.06	115.66	109.86	107.97	107.86	107.86	107.97	
27	108.00	109.02	109.16	111.24	110.80	115.11	115.52	109.77	107.96	107.86	107.85	107.97	
28	108.02	109.14	109.17	110.81	110.69	115.14	115.38	109.45	107.96	107.85	107.85	107.97	
29	108.04	109.19	109.17	110.49	110.57	115.13	115.25	109.19	107.95	107.85		107.97	
30	108.08	109.21	109.17	110.20	110.45	115.26	115.13	108.84	107.94	107.85		107.97	
31		109.21		110.11	110.42		115.11		107.94	107.85		107.97	
Mean	107.90	108.63	109.30	109.97	110.86	113.66	115.99	112.16	108.21	107.89	107.86	107.88	
Max	108.08	109.21	109.72	111.73	111.54	115.36	116.54	114.87	108.71	107.94	107.89	108.00	116.54
Min	107.76	108.07	109.16	108.79	110.31	110.16	115.11	108.84	107.94	107.85	107.84	107.81	107.76
Annual Max Momentary Gage Height		116.54		m. (MSL.) ,				at 18.00 Hours, on Oct 14, 2009					
Zero Gage at Bottom Elevation		106.49		m. (MSL.) ,		River Bed	106.16	m. (MSL)					
Left Bank Elevation		119.54		m. (MSL.) ,									
Right Bank Elevation		119.62		m. (MSL.) ,		Drainage Area	49778	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.30	15.30	93.30	84.00	310.30	254.10	1215.60	1075.20	47.80	9.70	7.60	7.40		
2	6.30	15.30	91.00	77.00	401.00	229.40	1247.00	1050.00	43.50	9.70	7.40	7.20		
3	6.30	15.30	102.00	74.00	415.90	229.40	1272.20	1022.70	45.60	9.40	7.40	7.20		
4	6.50	14.50	141.70	69.30	414.20	249.20	1298.20	997.50	43.50	9.40	7.40	7.20		
5	6.50	13.80	160.00	67.50	447.20	277.20	1328.00	970.20	40.70	9.40	7.40	7.20		
6	6.20	13.50	158.50	67.50	457.30	306.90	1352.00	937.50	39.40	9.20	7.40	7.40		
7	5.90	13.80	154.20	70.20	455.60	344.90	1373.30	913.50	38.80	9.20	7.40	7.40		
8	5.90	13.80	147.20	69.30	450.50	439.00	1395.00	886.20	37.60	9.20	7.40	7.40		
9	5.90	13.80	141.70	69.30	437.30	658.00	1419.50	860.30	35.80	9.00	7.60	7.40		
10	6.00	13.80	113.30	68.40	424.10	834.40	1448.00	830.80	29.80	9.00	7.80	7.20		
11	6.70	14.10	93.30	59.00	414.20	919.50	1493.00	801.10	21.60	9.00	7.80	6.90		
12	7.40	14.90	91.00	54.20	402.60	945.50	1520.00	760.40	17.30	9.00	7.80	6.90		
13	7.40	18.50	92.00	57.40	381.20	959.70	1547.00	727.10	15.30	8.80	7.60	6.90		
14	7.40	38.20	91.00	62.20	320.10	978.60	1580.00	691.20	14.10	8.50	7.60	6.70		
15	11.00	58.20	90.00	74.00	298.70	1003.80	1585.00	652.70	13.50	8.30	7.60	6.90		
16	11.00	74.00	89.00	89.00	293.80	1041.60	1585.00	623.00	13.10	8.10	7.80	6.90		
17	10.80	83.00	91.00	170.50	292.10	1094.40	1575.00	443.90	12.80	7.80	7.80	6.90		
18	10.80	84.00	90.00	285.50	295.40	1143.50	1556.00	363.10	12.00	7.80	8.10	7.20		
19	11.00	83.00	92.00	397.70	298.70	1176.40	1529.00	368.00	11.70	7.60	8.30	7.20		
20	11.00	83.00	94.50	447.20	295.40	1186.20	1493.00	397.70	11.70	7.60	8.30	7.40		
21	11.00	71.10	94.50	467.50	287.20	1186.20	1452.50	397.70	11.40	7.60	8.10	8.80		
22	10.60	63.90	94.50	477.70	269.00	1186.20	1409.00	335.00	11.00	7.80	8.50	10.60		
23	9.90	62.20	94.50	487.90	259.10	1166.80	1373.30	297.00	10.80	7.80	8.50	11.00		
24	9.40	64.80	97.00	489.60	254.10	1145.80	1340.00	199.80	10.80	7.80	8.30	10.80		
25	9.70	63.90	95.80	476.00	275.60	1125.50	1304.00	188.60	10.30	7.80	7.80	10.60		
26	10.60	63.00	92.00	447.20	325.10	1116.50	1263.80	181.00	10.30	7.80	7.80	10.30		
27	11.00	74.00	88.00	407.60	335.00	1127.80	1225.80	167.50	10.10	7.80	7.60	10.30		
28	11.70	86.00	89.00	336.60	316.90	1134.50	1191.10	123.50	10.10	7.60	7.60	10.30		
29	12.40	91.00	89.00	283.80	297.00	1132.20	1159.80	91.00	9.90	7.60		10.30		
30	13.80	93.30	89.00	236.00	277.20	1162.10	1132.20	58.20	9.70	7.60		10.30		
31		93.30		221.20	272.30		1127.80		9.70	7.60		10.30		
Total	266.40	1520.30	3140.00	6744.30	10674.10	25755.30	42791.10	17411.40	659.70	260.50	217.70	256.50	109697.30	CMSDAY
Mean	8.90	49.00	104.70	217.60	344.30	858.50	1380.40	580.40	21.30	8.40	7.80	8.30	300.50	CMS
Max	13.80	93.30	160.00	489.60	457.30	1186.20	1585.00	1075.20	47.80	9.70	8.50	11.00	1585.00	CMS
Min	5.90	13.50	88.00	54.20	254.10	229.40	1127.80	58.20	9.70	7.60	7.40	6.70	5.90	CMS
Runoff	23.02	131.35	271.30	582.71	922.24	2225.26	3697.15	1504.35	57.00	22.51	18.81	22.16	9477.85	MCM
Momentary Peak	1585.00 CMS, at 116.54 m. (MSL), at 18.00 Hours, on Oct 14, 2009													
Runoff Yield	6.04 Liters/Second/Square KM.			Momentary Peak Yield				31.841 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Hin Lap at Ban Hin Lap, Nakhon Ratchasima (M.183)

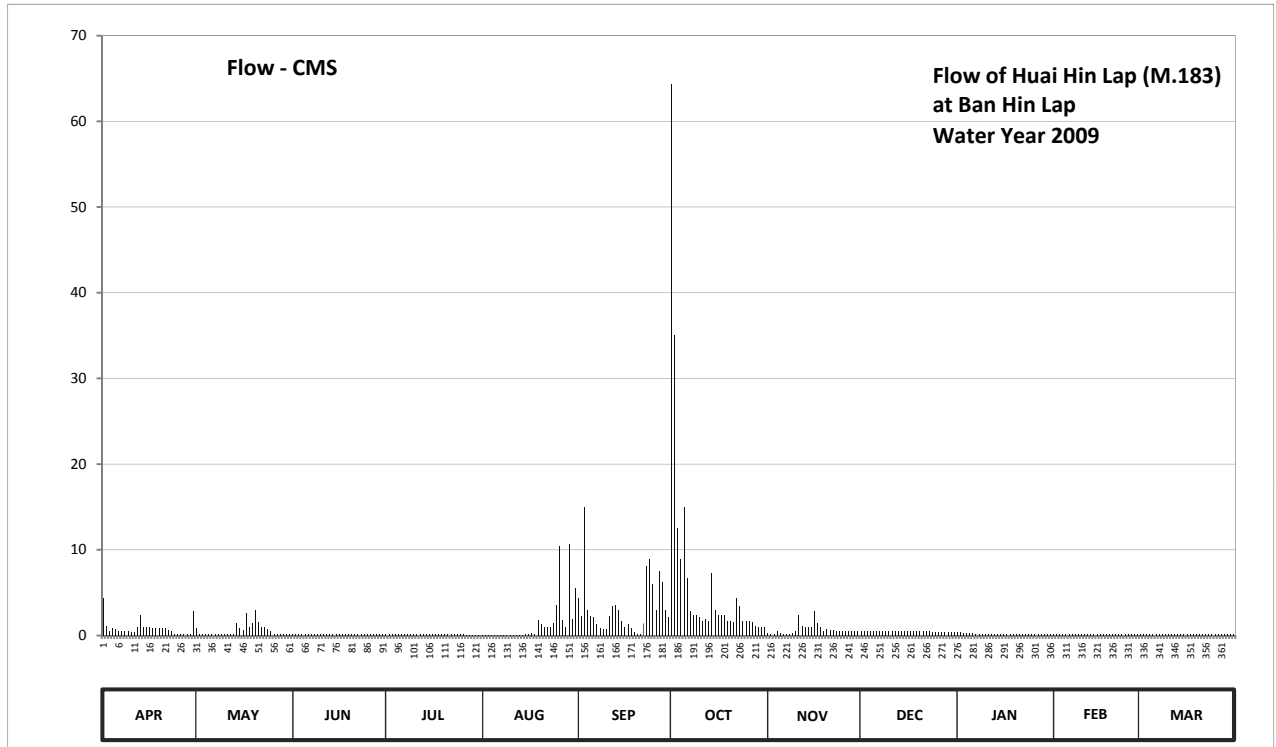
Lat 14 - 43 - 26 N Long 101 - 34 - 19 E

Location : on left bank at the bridge on highway.

	Ban Hin Lap	Amphoe Pak Chong	Changwat Nakhon Ratchasima
Drainage Area	250 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+300.800 m. (M.S.L.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+307.014 m. (M.S.L.)
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 means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 37 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.50	301.28	301.20	301.20	301.16	301.50	302.82	301.22	301.25	301.23	301.19	301.18	
2	301.31	301.20	301.20	301.20	301.16	301.39	302.35	301.20	301.25	301.23	301.19	301.18	
3	301.25	301.20	301.20	301.20	301.16	301.87	301.80	301.20	301.25	301.22	301.20	301.18	
4	301.28	301.20	301.20	301.20	301.16	301.43	301.68	301.25	301.25	301.22	301.20	301.17	
5	301.27	301.20	301.20	301.20	301.16	301.39	301.87	301.22	301.25	301.21	301.20	301.17	
6	301.25	301.20	301.20	301.20	301.16	301.38	301.60	301.20	301.25	301.21	301.20	301.17	
7	301.25	301.20	301.20	301.20	301.16	301.32	301.42	301.20	301.25	301.20	301.20	301.17	
8	301.25	301.20	301.20	301.20	301.16	301.28	301.40	301.20	301.25	301.20	301.20	301.17	
9	301.25	301.20	301.20	301.20	301.15	301.27	301.40	301.22	301.25	301.20	301.20	301.17	
10	301.23	301.20	301.20	301.20	301.15	301.27	301.38	301.25	301.25	301.20	301.20	301.17	
11	301.23	301.20	301.20	301.20	301.15	301.39	301.35	301.40	301.24	301.20	301.20	301.17	
12	301.30	301.20	301.20	301.20	301.15	301.45	301.37	301.31	301.24	301.20	301.20	301.17	
13	301.40	301.20	301.20	301.19	301.15	301.46	301.35	301.30	301.24	301.20	301.20	301.17	
14	301.30	301.33	301.20	301.19	301.16	301.43	301.62	301.30	301.24	301.20	301.20	301.17	
15	301.30	301.28	301.20	301.19	301.17	301.35	301.43	301.30	301.24	301.20	301.20	301.17	
16	301.29	301.26	301.20	301.19	301.17	301.29	301.40	301.42	301.24	301.20	301.20	301.17	
17	301.28	301.41	301.20	301.18	301.22	301.32	301.40	301.33	301.24	301.20	301.20	301.17	
18	301.28	301.30	301.20	301.18	301.20	301.28	301.40	301.29	301.24	301.20	301.20	301.17	
19	301.28	301.33	301.20	301.17	301.36	301.23	301.35	301.25	301.24	301.20	301.20	301.17	
20	301.28	301.43	301.20	301.17	301.32	301.20	301.35	301.27	301.24	301.20	301.19	301.17	
21	301.28	301.34	301.20	301.17	301.30	301.20	301.34	301.26	301.24	301.19	301.19	301.17	
22	301.26	301.30	301.20	301.17	301.29	301.33	301.50	301.26	301.24	301.19	301.19	301.17	
23	301.24	301.29	301.20	301.17	301.29	301.65	301.45	301.25	301.24	301.19	301.18	301.17	
24	301.20	301.27	301.20	301.17	301.33	301.68	301.35	301.25	301.23	301.18	301.18	301.17	
25	301.20	301.24	301.20	301.17	301.46	301.57	301.35	301.25	301.23	301.18	301.18	301.17	
26	301.20	301.20	301.20	301.17	301.73	301.43	301.35	301.25	301.23	301.18	301.18	301.17	
27	301.20	301.20	301.20	301.16	301.36	301.63	301.34	301.25	301.23	301.18	301.18	301.17	
28	301.20	301.20	301.20	301.16	301.30	301.58	301.31	301.25	301.23	301.18	301.18	301.17	
29	301.20	301.20	301.20	301.16	301.74	301.43	301.30	301.25	301.23	301.18		301.17	
30	301.42	301.20	301.20	301.16	301.37	301.38	301.30	301.25	301.23	301.18		301.17	
31		301.20		301.16	301.55		301.30		301.23	301.18		301.17	
Mean	301.27	301.25	301.20	301.18	301.27	301.41	301.50	301.26	301.24	301.20	301.19	301.17	
Max	301.50	301.43	301.20	301.20	301.74	301.87	302.82	301.42	301.25	301.23	301.20	301.18	302.82
Min	301.20	301.20	301.20	301.16	301.15	301.20	301.30	301.20	301.23	301.18	301.18	301.17	301.15
Annual Max Momentary Gage Height		303.20		m. (MSL.) ,			at 18.00 Hours, on Oct 1, 2009						
Zero Gage at Bottom Elevation		300.80		m. (MSL.) ,		River Bed	300.88		m. (MSL)				
Left Bank Elevation				306.98									
Right Bank Elevation			307.00										
Drainage Area						250			Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.40	0.83	0.17	0.17	0.10	4.40	64.34	0.34	0.58	0.42	0.15	0.14	
2	1.14	0.17	0.17	0.17	0.10	2.26	35.00	0.17	0.58	0.42	0.15	0.14	
3	0.58	0.17	0.17	0.17	0.10	14.95	12.50	0.17	0.58	0.34	0.17	0.14	
4	0.83	0.17	0.17	0.17	0.10	3.00	8.94	0.58	0.58	0.34	0.17	0.12	
5	0.75	0.17	0.17	0.17	0.10	2.26	14.95	0.34	0.58	0.25	0.17	0.12	
6	0.58	0.17	0.17	0.17	0.10	2.12	6.70	0.17	0.58	0.25	0.17	0.12	
7	0.58	0.17	0.17	0.17	0.10	1.28	2.80	0.17	0.58	0.17	0.17	0.12	
8	0.58	0.17	0.17	0.17	0.10	0.83	2.40	0.17	0.58	0.17	0.17	0.12	
9	0.58	0.17	0.17	0.17	0.08	0.75	2.40	0.34	0.58	0.17	0.17	0.12	
10	0.42	0.17	0.17	0.17	0.08	0.75	2.12	0.58	0.58	0.17	0.17	0.12	
11	0.42	0.17	0.17	0.17	0.08	2.26	1.70	2.40	0.50	0.17	0.17	0.12	
12	1.00	0.17	0.17	0.17	0.08	3.40	1.98	1.14	0.50	0.17	0.17	0.12	
13	2.40	0.17	0.17	0.15	0.08	3.60	1.70	1.00	0.50	0.17	0.17	0.12	
14	1.00	1.42	0.17	0.15	0.10	3.00	7.26	1.00	0.50	0.17	0.17	0.12	
15	1.00	0.83	0.17	0.15	0.12	1.70	3.00	1.00	0.50	0.17	0.17	0.12	
16	0.92	0.67	0.17	0.15	0.12	0.92	2.40	2.80	0.50	0.17	0.17	0.12	
17	0.83	2.60	0.17	0.14	0.34	1.28	2.40	1.42	0.50	0.17	0.17	0.12	
18	0.83	1.00	0.17	0.14	0.17	0.83	2.40	0.92	0.50	0.17	0.17	0.12	
19	0.83	1.42	0.17	0.12	1.84	0.42	1.70	0.58	0.50	0.17	0.17	0.12	
20	0.83	3.00	0.17	0.12	1.28	0.17	1.70	0.75	0.50	0.17	0.15	0.12	
21	0.83	1.56	0.17	0.12	1.00	0.17	1.56	0.67	0.50	0.15	0.15	0.12	
22	0.67	1.00	0.17	0.12	0.92	1.42	4.40	0.67	0.50	0.15	0.15	0.12	
23	0.50	0.92	0.17	0.12	0.92	8.10	3.40	0.58	0.50	0.15	0.14	0.12	
24	0.17	0.75	0.17	0.12	1.42	8.94	1.70	0.58	0.42	0.14	0.14	0.12	
25	0.17	0.50	0.17	0.12	3.60	6.01	1.70	0.58	0.42	0.14	0.14	0.12	
26	0.17	0.17	0.17	0.12	10.40	3.00	1.70	0.58	0.42	0.14	0.14	0.12	
27	0.17	0.17	0.17	0.10	1.84	7.54	1.56	0.58	0.42	0.14	0.14	0.12	
28	0.17	0.17	0.17	0.10	1.00	6.24	1.14	0.58	0.42	0.14	0.14	0.12	
29	0.17	0.17	0.17	0.10	10.70	3.00	1.00	0.58	0.42	0.14		0.12	
30	2.80	0.17	0.17	0.10	1.98	2.12	1.00	0.58	0.42	0.14		0.12	
31		0.17		0.10	5.55		1.00		0.42	0.14		0.12	
Total	26.32	19.56	5.10	4.38	44.50	96.72	198.55	22.02	15.66	5.97	4.48	3.78	447.04 CMSDAY
Mean	0.88	0.63	0.17	0.14	1.44	3.22	6.40	0.73	0.51	0.19	0.16	0.12	1.22 CMS
Max	4.40	3.00	0.17	0.17	10.70	14.95	64.34	2.80	0.58	0.42	0.17	0.14	64.34 CMS
Min	0.17	0.17	0.17	0.10	0.08	0.17	1.00	0.17	0.42	0.14	0.14	0.12	0.08 CMS
Runoff	2.27	1.69	0.44	0.38	3.85	8.36	17.16	1.90	1.35	0.52	0.39	0.33	38.62 MCM
Momentary Peak	95.50 CMS, at 303.20 m. (MSL), at 18.00 Hours, on Oct 1, 2009												
Runoff Yield	4.90 Liters/Second/Square KM.			Momentary Peak Yield			382.000 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Mun River at Ban Cum, Nakhon Ratchasima (M.184)

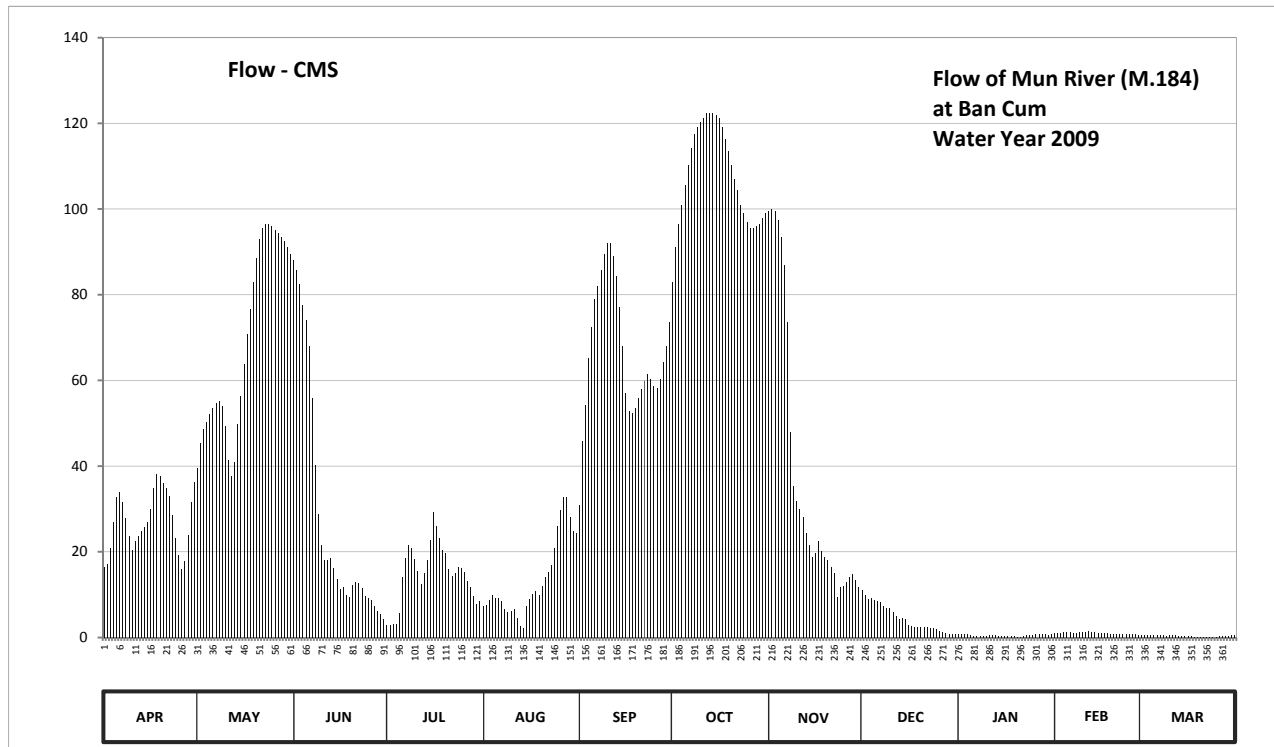
Lat 15 - 13 - 12 N Long 102 - 25 - 41 E

Location : on right at the bridge on highway.

	Ban Cum	Amphoe Phimai	Changwat	Nakhon Ratchasima
Drainage Area	11,489	sq.km.		
Type of Gage	Staff gage			
Zero Gage at Bottom	+0.000	m. (A.D.)		
Bench Mark	B.M.-H.D.			
Location BM	On right bank near the gage site.		Elevation	+6.121 m. (A.D.)
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 means of 5 readings			
Period of Available Gage Records	2008 to date			
Rating Operation				
Period of Rating	2008 to date			
Rated by Flot	-			
Rated by Current Meter	2008 to date			
Stability of Channel Regimes	Stable.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2009.			

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.62	3.40	4.62	1.51	2.18	3.13	4.51	4.85	2.40	0.78	0.81	0.71	
2	2.65	3.57	4.57	1.47	2.20	3.58	4.68	4.86	2.35	0.78	0.83	0.71	
3	2.80	3.66	4.50	1.57	2.28	3.82	4.79	4.85	2.30	0.78	0.86	0.70	
4	3.00	3.71	4.39	1.57	2.34	4.09	4.88	4.81	2.31	0.76	0.93	0.70	
5	3.19	3.76	4.31	2.04	2.31	4.27	4.97	4.73	2.28	0.66	0.95	0.70	
6	3.23	3.80	4.16	2.52	2.31	4.42	5.06	4.60	2.26	0.60	0.94	0.68	
7	3.15	3.83	3.86	2.70	2.27	4.49	5.13	4.30	2.25	0.55	0.90	0.66	
8	3.03	3.84	3.42	2.82	2.13	4.57	5.19	3.64	2.19	0.56	0.83	0.63	
9	2.89	3.81	3.06	2.80	2.09	4.65	5.22	3.28	2.16	0.61	0.92	0.60	
10	2.78	3.68	2.82	2.69	2.10	4.70	5.24	3.16	2.16	0.62	0.91	0.65	
11	2.85	3.45	2.68	2.58	2.13	4.70	5.26	3.10	2.07	0.64	0.99	0.68	
12	2.89	3.35	2.68	2.46	1.90	4.64	5.28	3.04	1.96	0.64	1.00	0.66	
13	2.93	3.44	2.70	2.56	1.41	4.54	5.28	2.91	1.87	0.63	0.96	0.60	
14	2.96	3.69	2.61	2.68	1.26	4.38	5.28	2.82	1.88	0.60	0.93	0.58	
15	3.00	3.87	2.51	2.86	2.18	4.16	5.27	2.71	1.84	0.59	0.88	0.56	
16	3.10	4.06	2.41	3.08	2.30	3.89	5.26	2.75	1.51	0.59	0.84	0.54	
17	3.26	4.23	2.43	2.97	2.36	3.78	5.22	2.85	1.41	0.58	0.81	0.52	
18	3.36	4.37	2.35	2.87	2.39	3.77	5.17	2.77	1.38	0.56	0.81	0.49	
19	3.35	4.51	2.32	2.78	2.35	3.80	5.12	2.71	1.37	0.52	0.80	0.48	
20	3.30	4.63	2.45	2.75	2.44	3.86	5.06	2.68	1.37	0.49	0.78	0.47	
21	3.26	4.72	2.48	2.60	2.52	3.91	5.00	2.62	1.32	0.51	0.77	0.44	
22	3.20	4.77	2.47	2.53	2.57	3.96	4.95	2.56	1.31	0.59	0.76	0.42	
23	3.05	4.79	2.42	2.56	2.64	4.00	4.88	2.32	1.28	0.67	0.75	0.41	
24	2.87	4.79	2.33	2.62	2.80	3.97	4.84	2.43	1.26	0.68	0.74	0.46	
25	2.73	4.78	2.31	2.61	2.97	3.93	4.80	2.44	1.16	0.71	0.72	0.50	
26	2.60	4.76	2.28	2.57	3.09	3.92	4.77	2.48	1.04	0.72	0.72	0.53	
27	2.67	4.75	2.18	2.49	3.19	3.97	4.77	2.52	0.92	0.73	0.72	0.59	
28	2.90	4.73	2.11	2.43	3.19	4.07	4.78	2.55	0.84	0.73	0.71	0.61	
29	3.15	4.71	2.01	2.33	3.04	4.16	4.79	2.50	0.78	0.72	0.72	0.62	
30	3.31	4.68	1.87	2.22	2.93	4.30	4.82	2.43	0.77	0.71	0.71	0.63	
31	4.65			2.26	2.91		4.84		0.78	0.79		0.64	
Mean	3.00	4.15	2.91	2.47	2.41	4.11	5.00	3.21	1.64	0.65	0.84	0.59	
Max	3.36	4.79	4.62	3.08	3.19	4.70	5.28	4.86	2.40	0.79	1.00	0.71	5.28
Min	2.60	3.35	1.87	1.47	1.26	3.13	4.51	2.32	0.77	0.49	0.71	0.41	0.41
Annual Max Momentary Gage Height	5.28		m. (A.D.) ,				at 06.00 Hours, on Oct 12, 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	-0.22	m. (A.D.)					
Left Bank Elevation	6.16		m. (A.D.) ,										
Right Bank Elevation	5.92		m. (A.D.) ,			Drainage Area	11489	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.50	39.50	88.00	2.99	7.22	30.90	82.95	99.50	11.00	0.85	0.93	0.67	
2	17.25	45.45	85.65	2.85	7.50	45.80	91.00	100.00	10.00	0.85	0.97	0.67	
3	21.00	48.60	82.50	3.20	8.70	54.30	96.50	99.50	9.00	0.85	1.05	0.65	
4	27.00	50.35	77.55	3.20	9.80	65.10	101.00	97.50	9.20	0.80	1.23	0.65	
5	32.70	52.10	73.95	5.62	9.20	72.30	105.50	93.50	8.70	0.55	1.27	0.65	
6	33.90	53.50	67.90	14.00	9.20	78.90	110.30	87.00	8.40	0.40	1.25	0.60	
7	31.50	54.70	55.90	18.50	8.55	82.05	114.15	73.50	8.25	0.30	1.15	0.55	
8	27.90	55.10	40.20	21.60	6.52	85.65	117.45	47.90	7.36	0.32	0.97	0.47	
9	23.70	53.90	28.80	21.00	6.02	89.50	119.10	35.40	6.94	0.42	1.20	0.40	
10	20.50	49.30	21.60	18.25	6.10	92.00	120.20	31.80	6.94	0.45	1.18	0.52	
11	22.50	41.25	18.00	15.50	6.52	92.00	121.30	30.00	5.86	0.50	1.38	0.60	
12	23.70	37.75	18.00	12.50	4.50	89.00	122.40	28.20	4.98	0.50	1.40	0.55	
13	24.90	40.90	18.50	15.00	2.63	84.30	122.40	24.30	4.38	0.47	1.30	0.40	
14	25.80	49.65	16.25	18.00	2.18	77.10	122.40	21.60	4.42	0.40	1.23	0.36	
15	27.00	56.30	13.75	22.80	7.22	67.90	121.85	18.75	4.26	0.38	1.10	0.32	
16	30.00	63.90	11.25	29.40	9.00	57.10	121.30	19.75	2.99	0.38	1.00	0.28	
17	34.80	70.70	11.75	26.10	10.20	52.80	119.10	22.50	2.63	0.36	0.93	0.24	
18	38.10	76.65	10.00	23.10	10.80	52.45	116.35	20.25	2.54	0.32	0.93	0.18	
19	37.75	82.95	9.40	20.50	10.00	53.50	113.60	18.75	2.51	0.24	0.90	0.16	
20	36.00	88.50	12.25	19.75	12.00	55.90	110.30	18.00	2.51	0.18	0.85	0.14	
21	34.80	93.00	13.00	16.00	14.00	57.90	107.00	16.50	2.36	0.22	0.82	0.08	
22	33.00	95.50	12.75	14.25	15.25	59.90	104.50	15.00	2.33	0.38	0.80	0.04	
23	28.50	96.50	11.50	15.00	17.00	61.50	101.00	9.40	2.24	0.58	0.78	0.02	
24	23.10	96.50	9.60	16.50	21.00	60.30	99.00	11.75	2.18	0.60	0.75	0.12	
25	19.25	96.00	9.20	16.25	26.10	58.70	97.00	12.00	1.88	0.67	0.70	0.20	
26	16.00	95.00	8.70	15.25	29.70	58.30	95.50	13.00	1.52	0.70	0.70	0.26	
27	17.75	94.50	7.22	13.25	32.70	60.30	95.50	14.00	1.20	0.73	0.70	0.38	
28	24.00	93.50	6.24	11.75	32.70	64.30	96.00	14.75	1.00	0.73	0.67	0.42	
29	31.50	92.50	5.38	9.60	28.20	67.90	96.50	13.50	0.85	0.70		0.45	
30	36.35	91.00	4.38	7.80	24.90	73.50	98.00	11.75	0.82	0.67		0.47	
31		89.50		8.40	24.30		99.00		0.85	0.88		0.50	
Total	816.75	2144.55	849.17	457.91	419.71	1.15	3338.15	1119.35	140.10	16.38	28.14	12.00	11343.36 CMSDAY
Mean	27.22	69.18	28.31	14.77	13.54	66.71	107.68	37.31	4.52	0.53	1.01	0.39	31.08 CMS
Max	38.10	96.50	88.00	29.40	32.70	92.00	122.40	100.00	11.00	0.88	1.40	0.67	122.40 CMS
Min	16.00	37.75	4.38	2.85	2.18	30.90	82.95	9.40	0.82	0.18	0.67	0.02	0.02 CMS
Runoff	70.57	185.29	73.37	39.56	36.26	172.90	288.42	96.71	12.11	1.42	2.43	1.04	980.07 MCM
Momentary Peak	122.40 CMS, at 5.28 m. (A.D.), at 06.00 Hours, on Oct 12, 2009												
Runoff Yield	2.70 Liters/Second/Square KM.			Momentary Peak Yield			10.654 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Plai Mat at Ban Phai Noi, Nakhon Ratchasima (M.185)

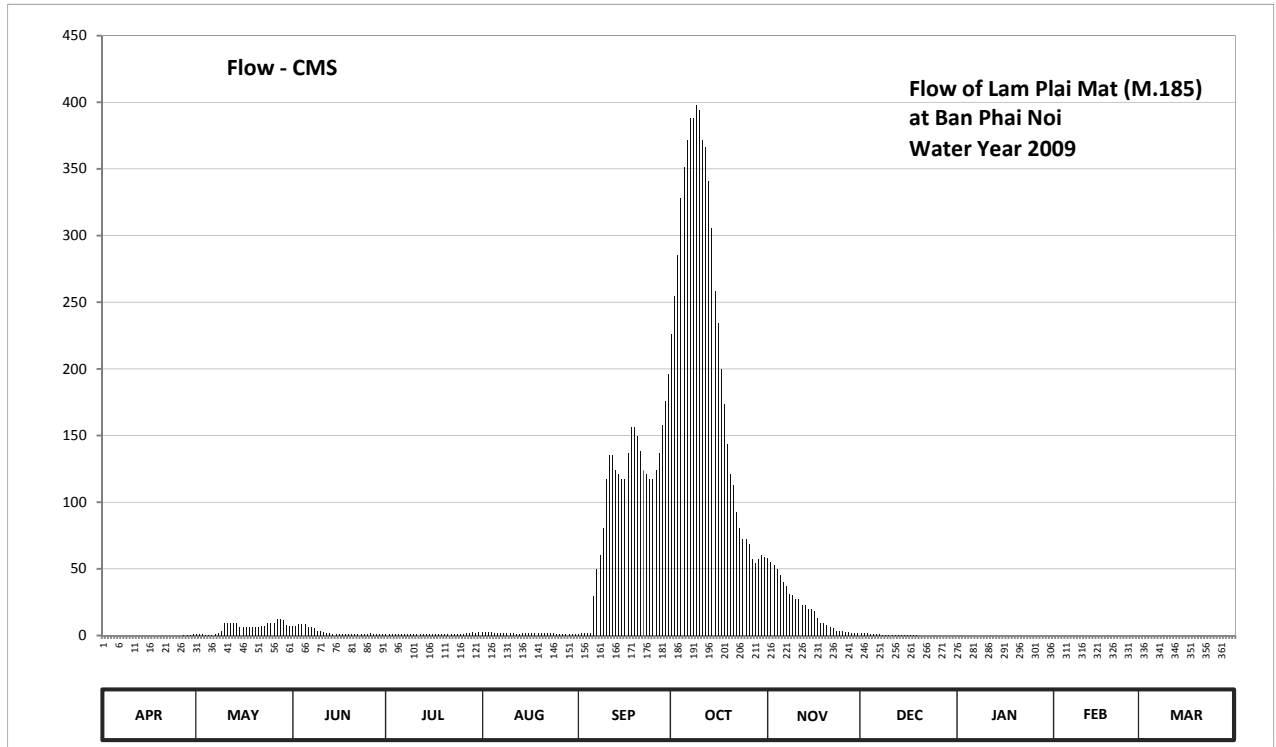
Lat 14 - 59 - 57 N Long 102 - 49 - 02 E

Location : on right at the bridge on highway.

	Ban	Phai Noi	Amphoe	Lam Plai Mat	Changwat	Nakhon Ratchasima
Drainage Area	4,880	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+8.140 m. (A.D.)
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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +8.130 m.(A.D.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2009.					

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.20	5.70	5.87	5.69	5.78	5.69	7.58	6.48	5.75	5.63	5.52	5.18	
2	5.20	5.70	5.87	5.69	5.78	5.75	7.71	6.45	5.75	5.62	5.52	5.18	
3	5.18	5.70	5.89	5.69	5.78	5.75	7.85	6.43	5.74	5.61	5.51	5.17	
4	5.18	5.68	5.89	5.69	5.77	5.76	8.03	6.40	5.71	5.60	5.50	5.17	
5	5.18	5.68	5.89	5.69	5.75	5.76	8.12	6.35	5.70	5.60	5.50	5.16	
6	5.18	5.68	5.86	5.69	5.75	6.18	8.20	6.30	5.70	5.60	5.49	5.16	
7	5.18	5.70	5.85	5.70	5.75	6.40	8.25	6.27	5.69	5.60	5.49	5.15	
8	5.18	5.75	5.84	5.70	5.75	6.50	8.25	6.20	5.68	5.59	5.48	5.15	
9	5.16	5.80	5.80	5.69	5.75	6.67	8.28	6.19	5.67	5.59	5.48	5.14	
10	5.16	5.90	5.80	5.69	5.74	6.95	8.27	6.15	5.65	5.59	5.47	5.10	
11	5.16	5.90	5.78	5.69	5.73	7.07	8.20	6.15	5.65	5.58	5.47	5.07	
12	5.16	5.90	5.76	5.69	5.70	7.07	8.18	6.10	5.64	5.58	5.46	5.05	
13	5.16	5.90	5.76	5.69	5.70	7.00	8.08	6.10	5.63	5.58	5.46	5.05	
14	5.15	5.90	5.70	5.69	5.75	6.98	7.94	6.05	5.62	5.58	5.45	5.05	
15	5.15	5.85	5.70	5.69	5.76	6.95	7.73	6.05	5.61	5.58	5.44	5.03	
16	5.10	5.85	5.70	5.69	5.76	6.95	7.62	6.03	5.60	5.58	5.43	5.02	
17	5.10	5.85	5.70	5.69	5.76	7.08	7.45	5.96	5.59	5.58	5.41	5.01	
18	5.10	5.85	5.70	5.69	5.75	7.20	7.31	5.90	5.58	5.58	5.43	4.99	
19	5.10	5.85	5.69	5.69	5.75	7.20	7.12	5.90	5.57	5.58	5.36	4.97	
20	5.13	5.85	5.69	5.69	5.74	7.16	6.98	5.88	5.60	5.57	5.35	4.96	
21	5.22	5.85	5.70	5.69	5.74	7.09	6.92	5.85	5.62	5.57	5.33	4.94	
22	5.28	5.87	5.70	5.69	5.74	7.00	6.77	5.84	5.64	5.57	5.31	4.91	
23	5.33	5.87	5.70	5.69	5.73	6.98	6.67	5.80	5.65	5.57	5.30	4.90	
24	5.40	5.90	5.72	5.70	5.73	6.95	6.60	5.80	5.67	5.57	5.27	4.89	
25	5.45	5.90	5.71	5.70	5.72	6.95	6.60	5.80	5.67	5.56	5.25	4.88	
26	5.50	5.91	5.74	5.72	5.70	7.00	6.57	5.78	5.67	5.56	5.24	4.87	
27	5.56	5.95	5.72	5.73	5.70	7.08	6.47	5.78	5.66	5.55	5.24	4.86	
28	5.60	5.95	5.72	5.75	5.70	7.21	6.44	5.76	5.65	5.55	5.24	4.85	
29	5.63	5.94	5.70	5.77	5.69	7.32	6.47	5.75	5.65	5.54		4.85	
30	5.70	5.88	5.70	5.75	5.69	7.43	6.50	5.75	5.65	5.54		4.85	
31		5.87		5.77	5.69		6.49		5.64	5.53		4.83	
Mean	5.26	5.83	5.76	5.70	5.74	6.77	7.41	6.04	5.65	5.58	5.41	5.01	
Max	5.70	5.95	5.89	5.77	5.78	7.43	8.28	6.48	5.75	5.63	5.52	5.18	8.28
Min	5.10	5.68	5.69	5.69	5.69	5.69	6.44	5.75	5.57	5.53	5.24	4.83	4.83
Annual Max Momentary Gage Height	8.28		m. (A.D.) ,				at 06.00 Hours, on Oct 9, 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	-0.10	m. (A.D.)					
Left Bank Elevation	8.12		m. (A.D.) ,										
Right Bank Elevation	8.14		m. (A.D.) ,			Drainage Area	4880	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.80	7.23	0.75	2.64	0.75	226.00	58.00	1.95	0.00	0.00	0.00	
2	0.00	0.80	7.23	0.75	2.64	1.95	254.20	55.00	1.95	0.00	0.00	0.00	
3	0.00	0.80	8.41	0.75	2.64	1.95	285.00	53.00	1.72	0.00	0.00	0.00	
4	0.00	0.70	8.41	0.75	2.41	2.18	327.80	50.00	1.03	0.00	0.00	0.00	
5	0.00	0.70	8.41	0.75	1.95	2.18	351.20	45.00	0.80	0.00	0.00	0.00	
6	0.00	0.70	6.64	0.75	1.95	29.40	372.00	40.00	0.80	0.00	0.00	0.00	
7	0.00	0.80	6.05	0.80	1.95	50.00	388.00	37.30	0.75	0.00	0.00	0.00	
8	0.00	1.95	5.46	0.80	1.95	60.00	388.00	31.00	0.70	0.00	0.00	0.00	
9	0.00	3.10	3.10	0.75	1.95	80.40	397.60	30.20	0.65	0.00	0.00	0.00	
10	0.00	9.00	3.10	0.75	1.72	117.00	394.40	27.00	0.55	0.00	0.00	0.00	
11	0.00	9.00	2.64	0.75	1.49	135.20	372.00	27.00	0.55	0.00	0.00	0.00	
12	0.00	9.00	2.18	0.75	0.80	135.20	366.80	23.00	0.50	0.00	0.00	0.00	
13	0.00	9.00	2.18	0.75	0.80	124.00	340.80	23.00	0.45	0.00	0.00	0.00	
14	0.00	9.00	0.80	0.75	1.95	121.20	305.60	19.50	0.40	0.00	0.00	0.00	
15	0.00	6.05	0.80	0.75	2.18	117.00	258.60	19.50	0.35	0.00	0.00	0.00	
16	0.00	6.05	0.80	0.75	2.18	117.00	234.40	18.10	0.30	0.00	0.00	0.00	
17	0.00	6.05	0.80	0.75	2.18	136.80	200.00	13.20	0.27	0.00	0.00	0.00	
18	0.00	6.05	0.80	0.75	1.95	156.00	173.80	9.00	0.24	0.00	0.00	0.00	
19	0.00	6.05	0.75	0.75	1.95	156.00	143.20	9.00	0.21	0.00	0.00	0.00	
20	0.00	6.05	0.75	0.75	1.72	149.60	121.20	7.82	0.00	0.00	0.00	0.00	
21	0.00	6.05	0.80	0.75	1.72	138.40	112.80	6.05	0.00	0.00	0.00	0.00	
22	0.00	7.23	0.80	0.75	1.72	124.00	92.40	5.46	0.00	0.00	0.00	0.00	
23	0.00	7.23	0.80	0.75	1.49	121.20	80.40	3.10	0.00	0.00	0.00	0.00	
24	0.00	9.00	1.26	0.80	1.49	117.00	72.00	3.10	0.00	0.00	0.00	0.00	
25	0.00	9.00	1.03	0.80	1.26	117.00	72.00	3.10	0.00	0.00	0.00	0.00	
26	0.00	9.70	1.72	1.26	0.80	124.00	68.40	2.64	0.00	0.00	0.00	0.00	
27	0.18	12.50	1.26	1.49	0.80	136.80	57.00	2.64	0.00	0.00	0.00	0.00	
28	0.30	12.50	1.26	1.95	0.80	157.60	54.00	2.18	0.00	0.00	0.00	0.00	
29	0.45	11.80	0.80	2.41	0.75	175.60	57.00	1.95	0.00	0.00	0.00	0.00	
30	0.80	7.82	0.80	1.95	0.75	196.00	60.00	1.95	0.00	0.00	0.00	0.00	
31		7.23		2.41	0.75		59.00		0.00	0.00		0.00	
Total	1.73	191.71	87.07	30.42	51.33	3101.41	6685.60	627.79	14.17	0.00	0.00	0.00	10791.23 CMSDAY
Mean	0.06	6.18	2.90	0.98	1.66	103.38	215.66	20.93	0.46	0.00	0.00	0.00	29.57 CMS
Max	0.80	12.50	8.41	2.41	2.64	196.00	397.60	58.00	1.95	0.00	0.00	0.00	397.60 CMS
Min	0.00	0.70	0.75	0.75	0.75	0.75	54.00	1.95	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.15	16.56	7.52	2.63	4.44	267.96	577.64	54.24	1.22	0.00	0.00	0.00	932.36 MCM
Momentary Peak	397.60 CMS. at 8.28 m. (A.D), at 06.00 Hours, on Oct 9, 2009												
Runoff Yield	6.06 Liters/Second/Square KM.			Momentary Peak Yield			81.475 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Chakkarat at Ban Non Koy, Nakhon Ratchasima (M.186)

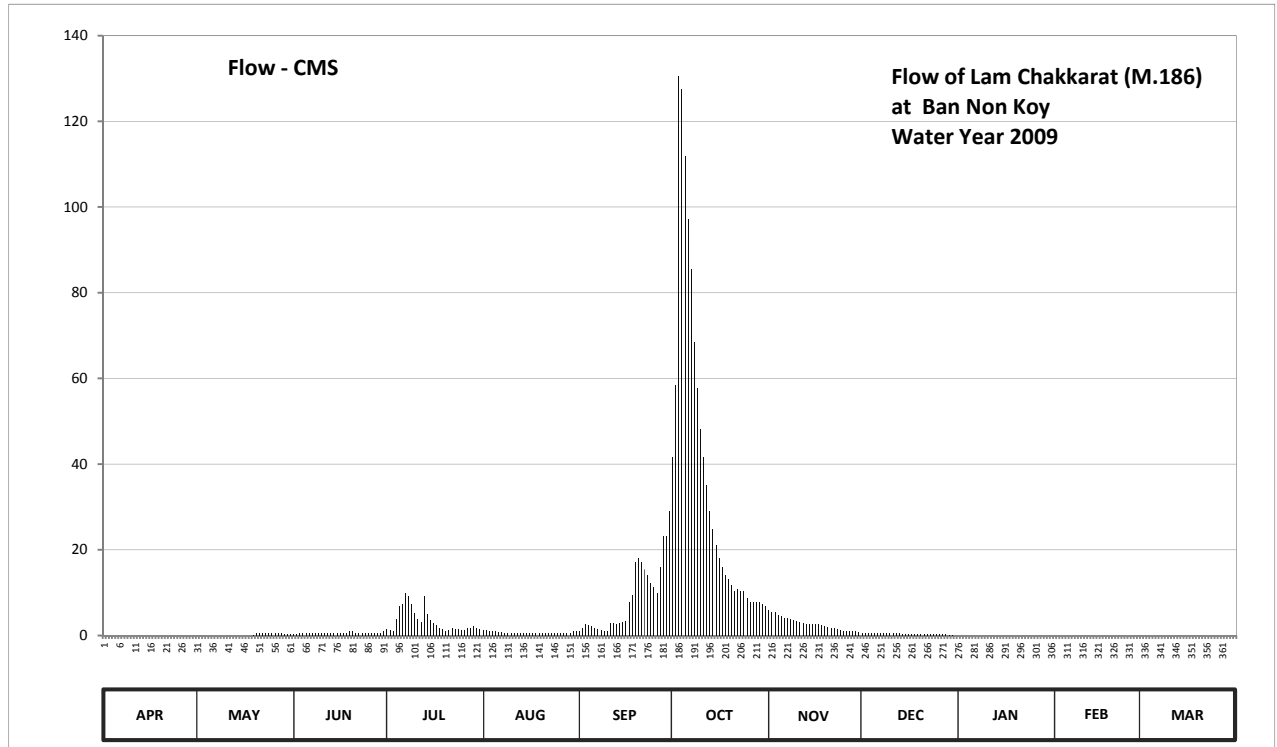
Lat 15 - 03 - 58 N Long 102 - 24 - 09 E

Location : on right at the bridge on highway.

	Ban	Non Koy	Amphoe	Chakkarat	Changwat	Nakhon Ratchasima
Drainage Area	1,337	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+4.787 m. (A.D.)
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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 22 discharge measurements made in 2009.					

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.65	1.74	2.45	2.54	2.53	2.51	3.41	2.71	2.49	2.38	2.30	2.01	
2	1.65	1.73	2.45	2.53	2.53	2.55	3.66	2.70	2.49	2.36	2.28	1.98	
3	1.64	1.72	2.48	2.52	2.52	2.59	4.49	2.70	2.49	2.35	2.34	1.98	
4	1.63	1.70	2.47	2.64	2.52	2.58	4.46	2.67	2.48	2.35	2.36	1.98	
5	1.62	1.69	2.47	2.73	2.51	2.57	4.30	2.66	2.48	2.34	2.36	1.98	
6	1.62	1.67	2.49	2.74	2.50	2.55	4.14	2.65	2.47	2.32	2.38	1.95	
7	1.62	1.66	2.49	2.80	2.50	2.54	4.01	2.65	2.47	2.32	2.37	1.88	
8	1.61	1.65	2.47	2.78	2.49	2.53	3.80	2.64	2.47	2.35	2.36	1.86	
9	1.60	1.64	2.47	2.74	2.49	2.52	3.65	2.63	2.47	2.38	2.35	1.83	
10	1.59	1.68	2.47	2.69	2.49	2.52	3.51	2.62	2.47	2.39	2.34	1.80	
11	1.68	1.71	2.47	2.64	2.48	2.60	3.41	2.61	2.47	2.39	2.33	1.77	
12	1.78	1.75	2.49	2.61	2.47	2.60	3.30	2.60	2.47	2.39	2.30	1.76	
13	1.84	1.80	2.49	2.78	2.47	2.59	3.19	2.59	2.47	2.38	2.29	1.74	
14	1.88	1.93	2.49	2.68	2.49	2.60	3.11	2.59	2.46	2.38	2.28	1.72	
15	1.90	2.01	2.48	2.63	2.49	2.61	3.04	2.59	2.46	2.37	2.26	1.72	
16	1.90	2.06	2.48	2.60	2.49	2.62	2.98	2.59	2.46	2.36	2.25	1.72	
17	1.90	2.10	2.49	2.58	2.48	2.75	2.93	2.59	2.46	2.33	2.21	1.71	
18	1.89	2.12	2.49	2.55	2.48	2.79	2.89	2.58	2.46	2.30	2.20	1.71	
19	1.87	2.41	2.51	2.54	2.48	2.96	2.87	2.57	2.45	2.29	2.18	1.71	
20	1.86	2.48	2.51	2.52	2.48	2.98	2.84	2.56	2.45	2.27	2.16	1.71	
21	1.85	2.48	2.49	2.53	2.48	2.96	2.81	2.55	2.45	2.26	2.15	1.71	
22	1.84	2.48	2.48	2.55	2.48	2.92	2.82	2.55	2.45	2.27	2.14	1.70	
23	1.82	2.48	2.48	2.54	2.48	2.89	2.81	2.54	2.45	2.31	2.13	1.70	
24	1.81	2.48	2.48	2.54	2.48	2.85	2.81	2.53	2.45	2.33	2.10	1.69	
25	1.79	2.47	2.48	2.53	2.48	2.83	2.77	2.52	2.45	2.36	2.08	1.67	
26	1.78	2.48	2.48	2.53	2.49	2.80	2.75	2.52	2.45	2.36	2.05	1.65	
27	1.78	2.47	2.47	2.55	2.49	2.93	2.75	2.51	2.45	2.35	2.02	1.64	
28	1.76	2.47	2.47	2.55	2.49	3.08	2.75	2.51	2.45	2.34	2.02	1.62	
29	1.77	2.46	2.47	2.57	2.49	3.08	2.75	2.51	2.43	2.33		1.60	
30	1.78	2.46	2.51	2.55	2.52	3.19	2.74	2.50	2.42	2.31		1.59	
31		2.46		2.54	2.52		2.73		2.40	2.31		1.59	
Mean	1.76	2.08	2.48	2.61	2.49	2.74	3.24	2.59	2.46	2.34	2.24	1.76	
Max	1.90	2.48	2.51	2.80	2.53	3.19	4.49	2.71	2.49	2.39	2.38	2.01	4.49
Min	1.59	1.64	2.45	2.52	2.47	2.51	2.73	2.50	2.40	2.26	2.02	1.59	1.59
Annual Max Momentary Gage Height	4.52		m. (A.D.) ,				at 18.00 Hours, on Oct 3, 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,				River Bed 0.05	m. (A.D.)					
Left Bank Elevation	4.81		m. (A.D.) ,										
Right Bank Elevation	4.79		m. (A.D.) ,				Drainage Area 1337	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.35	1.54	1.33	0.91	41.65	5.95	0.63	0.00	0.00	0.00	
2	0.00	0.00	0.35	1.33	1.33	1.75	58.35	5.50	0.63	0.00	0.00	0.00	
3	0.00	0.00	0.56	1.12	1.12	2.59	130.50	5.50	0.63	0.00	0.00	0.00	
4	0.00	0.00	0.49	3.88	1.12	2.38	127.50	4.69	0.56	0.00	0.00	0.00	
5	0.00	0.00	0.49	6.85	0.91	2.17	112.00	4.42	0.56	0.00	0.00	0.00	
6	0.00	0.00	0.63	7.30	0.70	1.75	97.10	4.15	0.49	0.00	0.00	0.00	
7	0.00	0.00	0.63	10.00	0.70	1.54	85.40	4.15	0.49	0.00	0.00	0.00	
8	0.00	0.00	0.49	9.10	0.63	1.33	68.50	3.88	0.49	0.00	0.00	0.00	
9	0.00	0.00	0.49	7.30	0.63	1.12	57.63	3.61	0.49	0.00	0.00	0.00	
10	0.00	0.00	0.49	5.23	0.63	1.12	48.15	3.34	0.49	0.00	0.00	0.00	
11	0.00	0.00	0.49	3.88	0.56	2.80	41.65	3.07	0.49	0.00	0.00	0.00	
12	0.00	0.00	0.63	3.07	0.49	2.80	35.00	2.80	0.49	0.00	0.00	0.00	
13	0.00	0.00	0.63	9.10	0.49	2.59	29.13	2.59	0.49	0.00	0.00	0.00	
14	0.00	0.00	0.63	4.96	0.63	2.80	24.87	2.59	0.42	0.00	0.00	0.00	
15	0.00	0.00	0.56	3.61	0.63	3.07	21.13	2.59	0.42	0.00	0.00	0.00	
16	0.00	0.00	0.56	2.80	0.63	3.34	18.10	2.59	0.42	0.00	0.00	0.00	
17	0.00	0.00	0.63	2.38	0.56	7.75	15.85	2.59	0.42	0.00	0.00	0.00	
18	0.00	0.00	0.63	1.75	0.56	9.55	14.05	2.38	0.42	0.00	0.00	0.00	
19	0.00	0.07	0.91	1.54	0.56	17.20	13.15	2.17	0.35	0.00	0.00	0.00	
20	0.00	0.56	0.91	1.12	0.56	18.10	11.80	1.96	0.35	0.00	0.00	0.00	
21	0.00	0.56	0.63	1.33	0.56	17.20	10.45	1.75	0.35	0.00	0.00	0.00	
22	0.00	0.56	0.56	1.75	0.56	15.40	10.90	1.75	0.35	0.00	0.00	0.00	
23	0.00	0.56	0.56	1.54	0.56	14.05	10.45	1.54	0.35	0.00	0.00	0.00	
24	0.00	0.56	0.56	1.54	0.56	12.25	10.45	1.33	0.35	0.00	0.00	0.00	
25	0.00	0.49	0.56	1.33	0.56	11.35	8.65	1.12	0.35	0.00	0.00	0.00	
26	0.00	0.56	0.56	1.33	0.63	10.00	7.75	1.12	0.35	0.00	0.00	0.00	
27	0.00	0.49	0.49	1.75	0.63	15.85	7.75	0.91	0.35	0.00	0.00	0.00	
28	0.00	0.49	0.49	1.75	0.63	23.27	7.75	0.91	0.35	0.00	0.00	0.00	
29	0.00	0.42	0.49	2.17	0.63	23.27	7.75	0.91	0.21	0.00	0.00	0.00	
30	0.00	0.42	0.91	1.75	1.12	29.13	7.30	0.70	0.14	0.00	0.00	0.00	
31	0.00	0.42	1.54	1.12	1.12	6.85	6.85	0.00	0.00	0.00	0.00	0.00	
Total	0.00	6.16	17.36	105.64	22.33	258.43	1147.56	82.56	12.88	0.00	0.00	0.00	1652.92 CMSDAY
Mean	0.00	0.20	0.58	3.41	0.72	8.61	37.02	2.75	0.42	0.00	0.00	0.00	4.53 CMS
Max	0.00	0.56	0.91	10.00	1.33	29.13	130.50	5.95	0.63	0.00	0.00	0.00	130.50 CMS
Min	0.00	0.00	0.35	1.12	0.49	0.91	6.85	0.70	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.53	1.50	9.13	1.93	22.33	99.15	7.13	1.11	0.00	0.00	0.00	142.81 MCM
Momentary Peak	133.60 CMS. at 4.52 m. (A.D), at 18.00 Hours, on Oct 3, 2009												
Runoff Yield	3.39 Liters/Second/Square KM.			Momentary Peak Yield			99.925 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Sanaeng at Mueang, Surin (M.187)

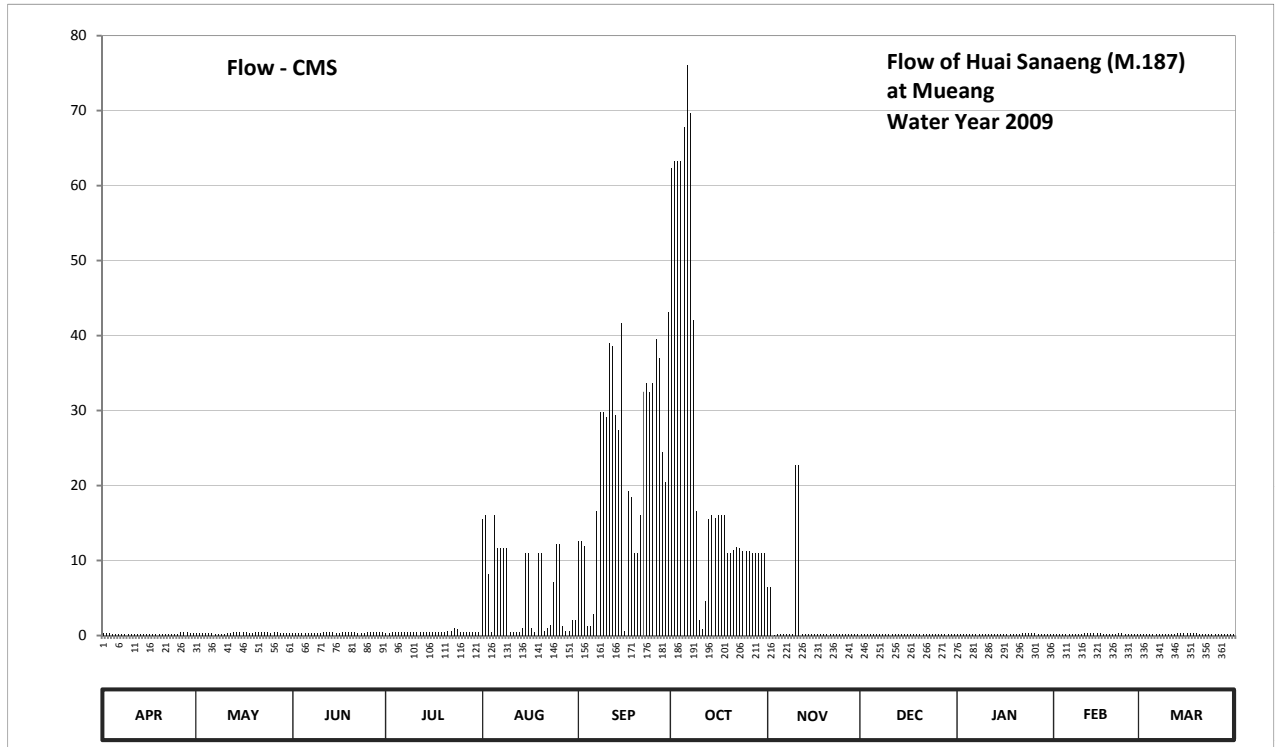
Lat 14 - 51 - 26 N Long 103 - 28 - 37 E

Location : on right at the bridge on highway.

	Ban	-	Amphoe	Mueang	Changwat	Surin
Drainage Area	614	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+6.850 m. (A.D.)
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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records very good. Stage-discharge relation defined by 21 discharge measurements made in 2009.					

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.47	1.46	1.47	1.46	2.45	2.18	4.02	1.85	1.43	1.45	1.44	1.45	
2	1.47	1.47	1.47	1.46	2.50	2.18	4.03	1.85	1.44	1.45	1.44	1.45	
3	1.46	1.47	1.47	1.48	1.95	2.15	4.03	1.41	1.44	1.45	1.44	1.45	
4	1.45	1.46	1.47	1.48	1.50	1.55	4.03	1.45	1.44	1.45	1.44	1.45	
5	1.44	1.46	1.47	1.48	2.50	1.55	4.08	1.45	1.44	1.44	1.44	1.45	
6	1.44	1.46	1.47	1.48	2.13	1.65	4.15	1.45	1.44	1.44	1.44	1.45	
7	1.44	1.45	1.47	1.48	2.13	2.54	4.10	1.45	1.44	1.44	1.44	1.45	
8	1.44	1.45	1.47	1.50	2.13	3.36	3.71	1.45	1.44	1.44	1.44	1.45	
9	1.44	1.45	1.47	1.50	2.13	3.36	2.54	1.45	1.44	1.43	1.45	1.45	
10	1.45	1.45	1.47	1.50	1.50	3.33	1.60	2.99	1.44	1.43	1.45	1.45	
11	1.45	1.46	1.50	1.49	1.49	3.64	1.52	2.99	1.44	1.44	1.46	1.45	
12	1.45	1.47	1.50	1.49	1.49	3.63	1.75	1.45	1.43	1.44	1.46	1.45	
13	1.45	1.50	1.50	1.49	1.50	3.34	2.45	1.45	1.45	1.44	1.46	1.46	
14	1.45	1.50	1.49	1.49	1.53	3.25	2.50	1.44	1.45	1.43	1.46	1.46	
15	1.45	1.48	1.47	1.50	2.10	3.70	2.46	1.44	1.45	1.43	1.46	1.46	
16	1.45	1.48	1.47	1.49	2.10	1.51	2.50	1.45	1.45	1.43	1.46	1.46	
17	1.45	1.48	1.49	1.49	1.53	2.76	2.50	1.45	1.44	1.43	1.44	1.46	
18	1.45	1.47	1.48	1.50	1.50	2.70	2.50	1.45	1.44	1.43	1.44	1.46	
19	1.45	1.47	1.48	1.50	2.10	2.10	2.10	1.45	1.44	1.43	1.44	1.46	
20	1.45	1.48	1.48	1.50	2.10	2.10	2.10	1.45	1.44	1.43	1.45	1.45	
21	1.45	1.49	1.48	1.51	1.51	2.50	2.12	1.45	1.45	1.44	1.45	1.44	
22	1.45	1.49	1.47	1.51	1.53	3.46	2.14	1.45	1.45	1.46	1.46	1.44	
23	1.44	1.48	1.47	1.53	1.56	3.50	2.13	1.45	1.45	1.46	1.46	1.44	
24	1.45	1.48	1.47	1.52	1.89	3.46	2.11	1.45	1.45	1.46	1.45	1.44	
25	1.45	1.47	1.48	1.50	2.16	3.50	2.11	1.45	1.45	1.46	1.45	1.44	
26	1.50	1.48	1.48	1.50	2.16	3.65	2.11	1.44	1.45	1.46	1.45	1.44	
27	1.48	1.48	1.48	1.50	1.55	3.59	2.10	1.44	1.45	1.44	1.45	1.45	
28	1.48	1.47	1.48	1.49	1.51	3.10	2.10	1.44	1.45	1.44	1.44	1.45	
29	1.47	1.47	1.48	1.49	1.51	2.85	2.10	1.43	1.45	1.44		1.45	
30	1.46	1.47	1.48	1.49	1.60	3.73	2.10	1.43	1.45	1.44		1.45	
31		1.47		1.49	1.60		2.10		1.45	1.44		1.45	
Mean	1.45	1.47	1.48	1.49	1.84	2.86	2.64	1.58	1.44	1.44	1.45	1.45	
Max	1.50	1.50	1.50	1.53	2.50	3.73	4.15	2.99	1.45	1.46	1.46	1.46	4.15
Min	1.44	1.45	1.47	1.46	1.49	1.51	1.52	1.41	1.43	1.43	1.44	1.44	1.41
Annual Max Momentary Gage Height	4.15		m. (A.D.) ,				at 06.00 Hours , on Oct 6 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,				River Bed -0.05	m. (A.D.)					
Left Bank Elevation	6.85		m. (A.D.) ,										
Right Bank Elevation	6.27		m. (A.D.) ,				Drainage Area 614	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.30	0.35	0.30	15.55	12.60	62.34	6.40	0.15	0.25	0.20	0.25	
2	0.35	0.35	0.35	0.30	16.10	12.60	63.26	6.40	0.20	0.25	0.20	0.25	
3	0.30	0.35	0.35	0.40	8.20	12.00	63.26	0.05	0.20	0.25	0.20	0.25	
4	0.25	0.30	0.35	0.40	0.50	1.25	63.26	0.25	0.20	0.25	0.20	0.25	
5	0.20	0.30	0.35	0.40	16.10	1.25	67.86	0.25	0.20	0.20	0.20	0.25	
6	0.20	0.30	0.35	0.40	11.60	2.85	76.10	0.25	0.20	0.20	0.20	0.25	
7	0.20	0.25	0.35	0.40	11.60	16.58	69.70	0.25	0.20	0.20	0.20	0.25	
8	0.20	0.25	0.35	0.50	11.60	29.82	42.09	0.25	0.20	0.20	0.20	0.25	
9	0.20	0.25	0.35	0.50	11.60	29.82	16.58	0.25	0.20	0.15	0.25	0.25	
10	0.25	0.25	0.35	0.50	0.50	29.16	2.00	22.74	0.20	0.15	0.25	0.25	
11	0.25	0.30	0.50	0.45	0.45	39.02	0.80	22.74	0.20	0.20	0.30	0.25	
12	0.25	0.35	0.50	0.45	0.45	38.59	4.60	0.25	0.15	0.20	0.30	0.25	
13	0.25	0.50	0.50	0.45	0.50	29.38	15.55	0.25	0.25	0.20	0.30	0.30	
14	0.25	0.50	0.45	0.45	0.95	27.40	16.10	0.20	0.25	0.15	0.30	0.30	
15	0.25	0.40	0.35	0.50	11.00	41.60	15.66	0.20	0.25	0.15	0.30	0.30	
16	0.25	0.40	0.35	0.45	11.00	0.65	16.10	0.25	0.25	0.15	0.30	0.30	
17	0.25	0.40	0.45	0.45	0.95	19.22	16.10	0.25	0.20	0.15	0.20	0.30	
18	0.25	0.35	0.40	0.50	0.50	18.50	16.10	0.25	0.20	0.15	0.20	0.30	
19	0.25	0.35	0.40	0.50	11.00	11.00	11.00	0.25	0.20	0.15	0.20	0.30	
20	0.25	0.40	0.40	0.50	11.00	11.00	11.00	0.25	0.20	0.15	0.25	0.25	
21	0.25	0.45	0.40	0.65	0.65	16.10	11.40	0.25	0.25	0.20	0.25	0.20	
22	0.25	0.45	0.35	0.65	0.95	32.50	11.80	0.25	0.25	0.30	0.30	0.20	
23	0.20	0.40	0.35	0.95	1.40	33.70	11.60	0.25	0.25	0.30	0.30	0.20	
24	0.25	0.40	0.35	0.80	7.12	32.50	11.20	0.25	0.25	0.30	0.25	0.20	
25	0.25	0.35	0.40	0.50	12.20	33.70	11.20	0.25	0.25	0.30	0.25	0.20	
26	0.50	0.40	0.40	0.50	12.20	39.45	11.20	0.20	0.25	0.30	0.25	0.20	
27	0.40	0.40	0.40	0.50	1.25	36.94	11.00	0.20	0.25	0.20	0.25	0.25	
28	0.40	0.35	0.40	0.45	0.65	24.50	11.00	0.20	0.25	0.20	0.20	0.25	
29	0.35	0.35	0.40	0.45	0.65	20.50	11.00	0.15	0.25	0.20		0.25	
30	0.30	0.35	0.40	0.45	2.00	43.07	11.00	0.15	0.25	0.20		0.25	
31		0.35		0.45	2.00		11.00		0.25	0.20		0.25	
Total	8.15	11.10	11.65	15.15	192.22	697.25	772.86	64.13	6.85	6.45	6.80	7.80	1800.41 CMSDAY
Mean	0.27	0.36	0.39	0.49	6.20	23.24	24.93	2.14	0.22	0.21	0.24	0.25	4.93 CMS
Max	0.50	0.50	0.50	0.95	16.10	43.07	76.10	22.74	0.25	0.30	0.30	0.30	76.10 CMS
Min	0.20	0.25	0.35	0.30	0.45	0.65	0.80	0.05	0.15	0.15	0.20	0.20	0.05 CMS
Runoff	0.70	0.96	1.01	1.31	16.61	60.24	66.78	5.54	0.59	0.56	0.59	0.67	155.56 MCM
Momentary Peak	76.10 CMS. at 4.15 m. (A.D), at 06.00 Hours, on Oct 6, 2009												
Runoff Yield	8.03 Liters/Second/Square KM.			Momentary Peak Yield			123.941 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Chiang Krai at Ban Bua, Nakhon Ratchasima (M.188)

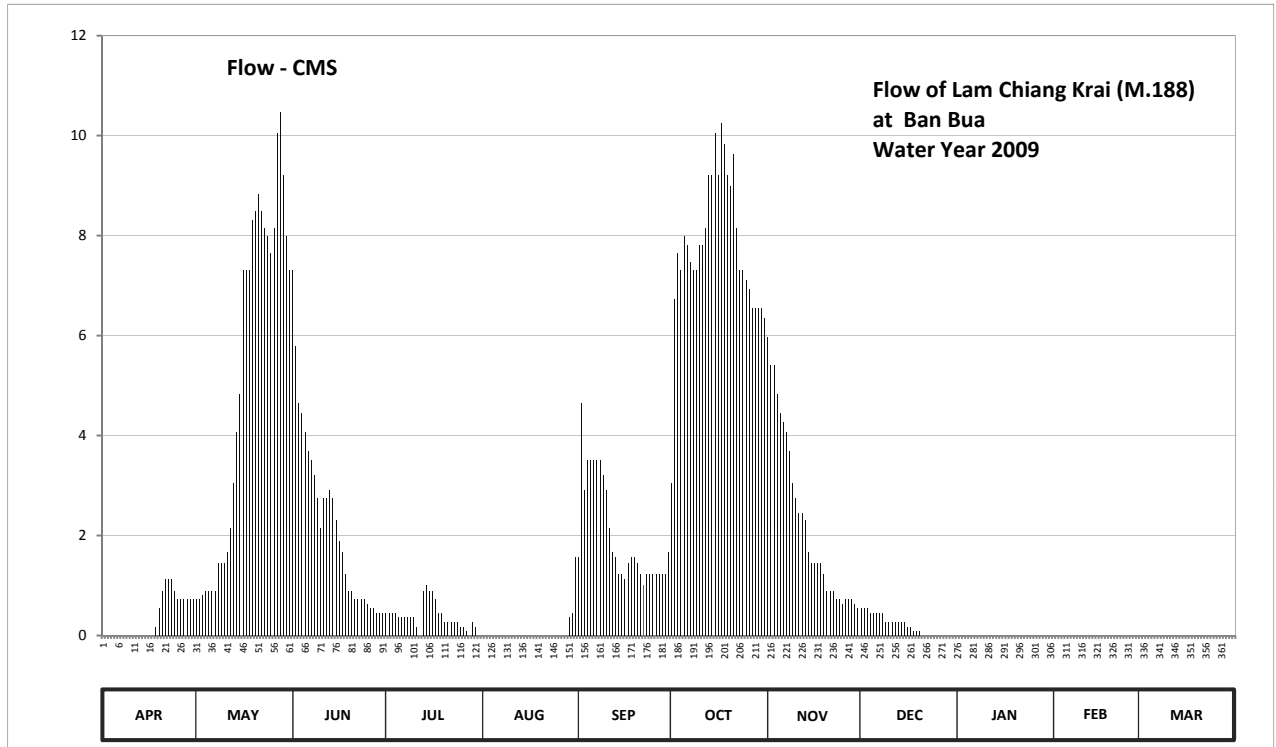
Lat 08 - 48 - 34 N Long 98 - 30 - 00 E

Location : on right at the bridge on highway.

	Ban	Bua	Amphoe	Non Sung	Changwat	Nakhon Ratchasima
Drainage Area	2,764	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+4.950 m. (A.D.)
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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2009.					

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.37	2.58	3.00	2.55	2.50	2.66	2.77	2.93	2.56	2.44	2.31	2.03	
2	2.37	2.58	2.92	2.55	2.50	2.86	2.97	2.90	2.56	2.44	2.29	2.03	
3	2.37	2.59	2.86	2.55	2.50	2.76	3.02	2.90	2.56	2.44	2.28	2.01	
4	2.37	2.60	2.85	2.55	2.50	2.80	3.00	2.87	2.55	2.44	2.27	2.01	
5	2.37	2.60	2.83	2.54	2.48	2.80	3.04	2.85	2.55	2.44	2.27	1.98	
6	2.37	2.60	2.81	2.54	2.47	2.80	3.03	2.84	2.55	2.43	2.27	2.00	
7	2.37	2.60	2.80	2.54	2.45	2.80	3.01	2.83	2.55	2.40	2.26	1.99	
8	2.37	2.65	2.78	2.54	2.40	2.80	3.00	2.81	2.55	2.40	2.26	1.98	
9	2.38	2.65	2.75	2.54	2.37	2.78	3.00	2.77	2.53	2.40	2.26	1.97	
10	2.39	2.65	2.71	2.54	2.35	2.76	3.03	2.75	2.53	2.40	2.25	1.96	
11	2.39	2.67	2.75	2.52	2.30	2.71	3.03	2.73	2.53	2.43	2.25	1.95	
12	2.41	2.71	2.75	2.48	2.26	2.67	3.05	2.73	2.53	2.43	2.22	1.94	
13	2.41	2.77	2.76	2.60	2.25	2.66	3.11	2.72	2.53	2.43	2.20	1.92	
14	2.43	2.83	2.75	2.61	2.25	2.63	3.11	2.67	2.53	2.41	2.18	1.89	
15	2.44	2.87	2.72	2.60	2.26	2.63	3.15	2.65	2.53	2.40	2.18	1.89	
16	2.47	3.00	2.69	2.60	2.26	2.62	3.11	2.65	2.52	2.38	2.18	1.88	
17	2.49	3.00	2.67	2.58	2.26	2.65	3.16	2.65	2.52	2.35	2.16	1.87	
18	2.52	3.00	2.63	2.55	2.26	2.66	3.14	2.65	2.51	2.34	2.16	1.86	
19	2.56	3.06	2.60	2.55	2.26	2.66	3.11	2.63	2.51	2.34	2.15	1.85	
20	2.60	3.07	2.60	2.53	2.26	2.65	3.10	2.60	2.51	2.34	2.14	1.84	
21	2.62	3.09	2.58	2.53	2.25	2.63	3.13	2.60	2.49	2.33	2.14	1.83	
22	2.62	3.07	2.58	2.53	2.29	2.61	3.05	2.60	2.49	2.32	2.13	1.83	
23	2.62	3.05	2.58	2.53	2.35	2.63	3.00	2.58	2.48	2.34	2.12	1.83	
24	2.60	3.04	2.58	2.53	2.38	2.63	3.00	2.58	2.46	2.35	2.12	1.82	
25	2.58	3.02	2.57	2.52	2.39	2.63	2.99	2.57	2.46	2.35	2.11	1.85	
26	2.58	3.05	2.56	2.52	2.40	2.63	2.98	2.58	2.45	2.35	2.08	1.93	
27	2.58	3.15	2.56	2.51	2.40	2.63	2.96	2.58	2.45	2.35	2.05	1.88	
28	2.58	3.17	2.55	2.50	2.40	2.63	2.96	2.58	2.45	2.35	2.04	1.86	
29	2.58	3.11	2.55	2.53	2.54	2.63	2.96	2.57	2.43	2.35		1.85	
30	2.58	3.04	2.55	2.52	2.55	2.67	2.96	2.56	2.42	2.34		1.85	
31		3.00		2.49	2.66		2.95		2.40	2.33		1.85	
Mean	2.48	2.87	2.70	2.54	2.38	2.69	3.03	2.70	2.51	2.38	2.19	1.91	
Max	2.62	3.17	3.00	2.61	2.66	2.86	3.16	2.93	2.56	2.44	2.31	2.03	3.17
Min	2.37	2.58	2.55	2.48	2.25	2.61	2.77	2.56	2.40	2.32	2.04	1.82	1.82
Annual Max Momentary Gage Height	3.25		m. (A.D.) ,				at 06.00 Hours , on Oct 21 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	-0.40	m. (A.D.)					
Left Bank Elevation		5.70		m. (A.D.) ,									
Right Bank Elevation		4.94		m. (A.D.) ,		Drainage Area	2764	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.72	7.30	0.45	0.00	1.56	3.05	5.97	0.54	0.00	0.00	0.00	
2	0.00	0.72	5.78	0.45	0.00	4.64	6.73	5.40	0.54	0.00	0.00	0.00	
3	0.00	0.81	4.64	0.45	0.00	2.90	7.64	5.40	0.54	0.00	0.00	0.00	
4	0.00	0.90	4.45	0.45	0.00	3.50	7.30	4.83	0.45	0.00	0.00	0.00	
5	0.00	0.90	4.07	0.36	0.00	3.50	7.98	4.45	0.45	0.00	0.00	0.00	
6	0.00	0.90	3.69	0.36	0.00	3.50	7.81	4.26	0.45	0.00	0.00	0.00	
7	0.00	0.90	3.50	0.36	0.00	3.50	7.47	4.07	0.45	0.00	0.00	0.00	
8	0.00	1.45	3.20	0.36	0.00	3.50	7.30	3.69	0.45	0.00	0.00	0.00	
9	0.00	1.45	2.75	0.36	0.00	3.20	7.30	3.05	0.27	0.00	0.00	0.00	
10	0.00	1.45	2.15	0.36	0.00	2.90	7.81	2.75	0.27	0.00	0.00	0.00	
11	0.00	1.67	2.75	0.18	0.00	2.15	7.81	2.45	0.27	0.00	0.00	0.00	
12	0.00	2.15	2.75	0.00	0.00	1.67	8.15	2.45	0.27	0.00	0.00	0.00	
13	0.00	3.05	2.90	0.90	0.00	1.56	9.21	2.30	0.27	0.00	0.00	0.00	
14	0.00	4.07	2.75	1.01	0.00	1.23	9.21	1.67	0.27	0.00	0.00	0.00	
15	0.00	4.83	2.30	0.90	0.00	1.23	10.05	1.45	0.27	0.00	0.00	0.00	
16	0.00	7.30	1.89	0.90	0.00	1.12	9.21	1.45	0.18	0.00	0.00	0.00	
17	0.00	7.30	1.67	0.72	0.00	1.45	10.26	1.45	0.18	0.00	0.00	0.00	
18	0.18	7.30	1.23	0.45	0.00	1.56	9.84	1.45	0.09	0.00	0.00	0.00	
19	0.54	8.32	0.90	0.45	0.00	1.56	9.21	1.23	0.09	0.00	0.00	0.00	
20	0.90	8.49	0.90	0.27	0.00	1.45	9.00	0.90	0.09	0.00	0.00	0.00	
21	1.12	8.83	0.72	0.27	0.00	1.23	9.63	0.90	0.00	0.00	0.00	0.00	
22	1.12	8.49	0.72	0.27	0.00	1.01	8.15	0.90	0.00	0.00	0.00	0.00	
23	1.12	8.15	0.72	0.27	0.00	1.23	7.30	0.72	0.00	0.00	0.00	0.00	
24	0.90	7.98	0.72	0.27	0.00	1.23	7.30	0.72	0.00	0.00	0.00	0.00	
25	0.72	7.64	0.63	0.18	0.00	1.23	7.11	0.63	0.00	0.00	0.00	0.00	
26	0.72	8.15	0.54	0.18	0.00	1.23	6.92	0.72	0.00	0.00	0.00	0.00	
27	0.72	10.05	0.54	0.09	0.00	1.23	6.54	0.72	0.00	0.00	0.00	0.00	
28	0.72	10.47	0.45	0.00	0.00	1.23	6.54	0.72	0.00	0.00	0.00	0.00	
29	0.72	9.21	0.45	0.27	0.36	1.23	6.54	0.63	0.00	0.00	0.00	0.00	
30	0.72	7.98	0.45	0.18	0.45	1.67	6.54	0.54	0.00	0.00	0.00	0.00	
31		7.30		0.00	1.56		6.35		0.00	0.00		0.00	
Total	10.20	158.93	67.51	11.72	2.37	60.20	241.26	67.87	6.39	0.00	0.00	0.00	626.45 CMSDAY
Mean	0.34	5.13	2.25	0.38	0.08	2.01	7.78	2.26	0.21	0.00	0.00	0.00	1.72 CMS
Max	1.12	10.47	7.30	1.01	1.56	4.64	10.26	5.97	0.54	0.00	0.00	0.00	10.47 CMS
Min	0.00	0.72	0.45	0.00	0.00	1.01	3.05	0.54	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.88	13.73	5.83	1.01	0.21	5.20	20.85	5.86	0.55	0.00	0.00	0.00	54.13 MCM
Momentary Peak	12.55 CMS. at 3.25 m. (A.D), at 06.00 Hours, on Oct 21, 2009												
Runoff Yield	0.62 Liters/Second/Square KM.			Momentary Peak Yield			4.541 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Lam Ta Khong at Ban Duae, Nakhon Ratchasima (M.189)

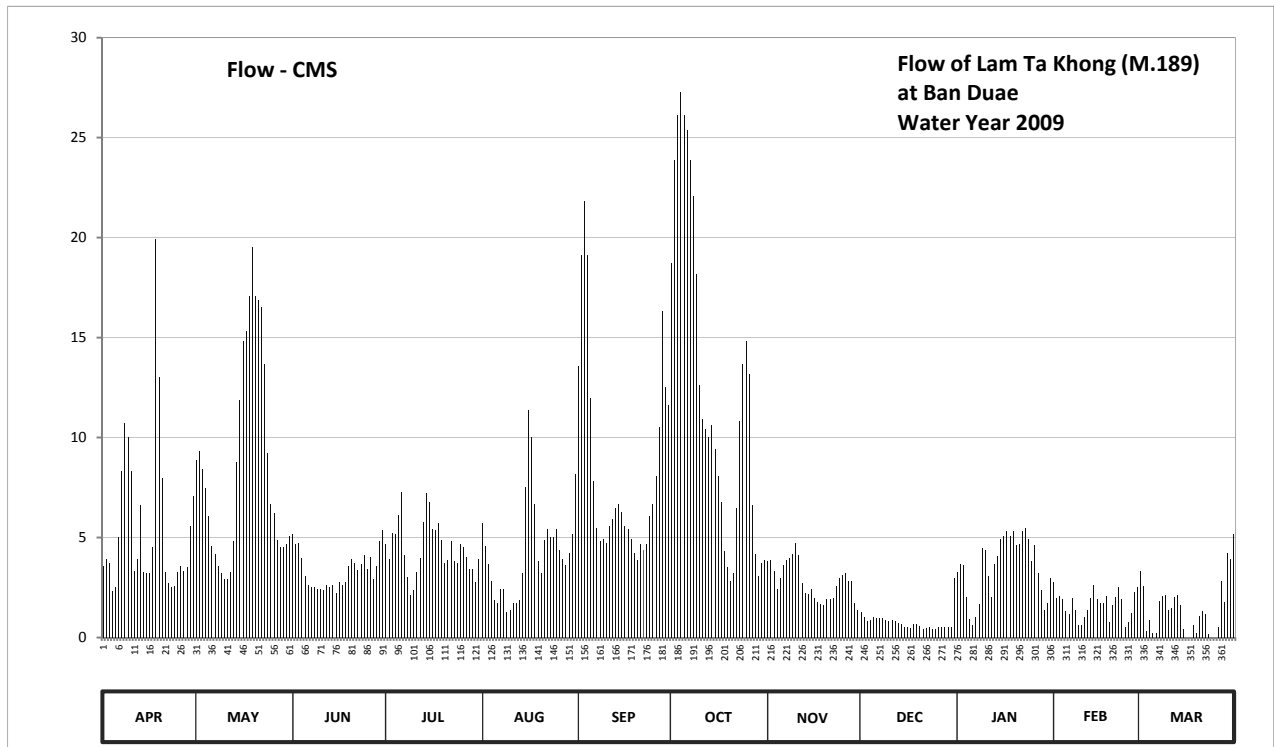
Lat 08 - 01 - 10 N Long 98 - 18 - 56 E

Location : on right at the bridge on highway.

	Ban Duae	Amphoe Mueang	Changwat	Nakhon Ratchasima
Drainage Area	2,918	sq.km.		
Type of Gage	Staff gage			
Zero Gage at Bottom	+0.000	m. (A.D.)		
Bench Mark	B.M.-H.D.			
Location BM	On right bank near the gage site.		Elevation	+3.592 m. (A.D.)
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 means of 5 readings			
Period of Available Gage Records	2008 to date			
Rating Operation				
Period of Rating	2008 to date			
Rated by Flot	-			
Rated by Current Meter	2008 to date			
Stability of Channel Regimes	Fairly stable.			
Overbank Flow Conditions	Overbank flow starts at elevation +3.030 m.(A.D.), records are channel flow only.			
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2009.			

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.41	2.13	1.65	1.58	1.73	2.55	2.86	1.45	0.94	0.81	0.74	0.82	
2	1.47	2.18	1.58	1.47	1.57	2.88	3.10	1.46	0.87	0.87	0.61	0.71	
3	1.44	2.08	1.59	1.66	1.43	3.01	3.19	1.37	0.81	0.86	0.63	0.32	
4	1.18	1.97	1.48	1.65	1.29	2.88	3.23	1.21	0.83	0.62	0.60	0.43	
5	1.22	1.78	1.33	1.79	1.09	2.43	3.19	1.31	0.87	0.44	0.50	0.30	
6	1.63	1.57	1.25	1.95	1.05	2.01	3.16	1.42	0.86	0.38	0.48	0.30	
7	2.07	1.51	1.22	1.50	1.21	1.70	3.10	1.46	0.85	0.45	0.61	0.59	
8	2.32	1.41	1.22	1.32	1.21	1.60	3.02	1.48	0.85	0.56	0.51	0.63	
9	2.25	1.35	1.21	1.14	0.94	1.62	2.83	1.51	0.83	0.97	0.39	0.64	
10	2.07	1.30	1.20	1.19	0.97	1.59	2.48	1.59	0.80	0.96	0.39	0.51	
11	1.37	1.30	1.19	1.36	1.06	1.71	2.34	1.50	0.82	0.78	0.45	0.53	
12	1.47	1.36	1.25	1.48	1.05	1.76	2.29	1.26	0.80	0.62	0.51	0.62	
13	1.86	1.60	1.22	1.74	1.09	1.84	2.25	1.16	0.76	0.87	0.61	0.64	
14	1.36	2.12	1.24	1.94	1.35	1.87	2.31	1.15	0.74	0.92	0.72	0.55	
15	1.35	2.42	1.16	1.88	1.98	1.81	2.19	1.21	0.68	1.03	0.60	0.35	
16	1.35	2.64	1.27	1.69	2.38	1.71	2.04	1.11	0.68	1.05	0.57	0.17	
17	1.56	2.67	1.25	1.68	2.25	1.69	1.88	1.07	0.66	1.08	0.57	0.09	
18	2.92	2.77	1.27	1.73	1.87	1.62	1.53	1.04	0.75	1.05	0.63	0.39	
19	2.51	2.90	1.41	1.61	1.45	1.52	1.40	1.03	0.75	1.08	0.41	0.31	
20	2.03	2.77	1.47	1.44	1.35	1.46	1.28	1.10	0.70	0.99	0.55	0.46	
21	1.36	2.76	1.44	1.46	1.61	1.58	1.35	1.10	0.62	1.00	0.62	0.50	
22	1.26	2.74	1.38	1.60	1.69	1.54	1.84	1.11	0.66	1.08	0.70	0.48	
23	1.22	2.56	1.43	1.45	1.63	1.58	2.33	1.23	0.68	1.10	0.60	0.29	
24	1.23	2.17	1.50	1.44	1.63	1.78	2.56	1.31	0.63	1.03	0.36	0.20	
25	1.36	1.87	1.39	1.58	1.69	1.87	2.64	1.34	0.62	0.89	0.41	0.18	
26	1.41	1.80	1.49	1.56	1.54	2.04	2.52	1.35	0.68	0.99	0.49	0.36	
27	1.37	1.61	1.30	1.49	1.47	2.30	1.86	1.29	0.68	0.80	0.66	0.75	
28	1.40	1.56	1.41	1.39	1.42	2.73	1.51	1.29	0.68	0.68	0.70	0.58	
29	1.71	1.56	1.60	1.39	1.52	2.47	1.33	1.05	0.69	0.51		0.94	
30	1.92	1.58	1.68	1.27	1.65	2.40	1.44	0.97	0.69	0.57		0.90	
31		1.64		1.47	2.05		1.46		0.77	0.77		1.06	
Mean	1.64	1.99	1.37	1.55	1.49	1.99	2.27	1.26	0.75	0.83	0.56	0.50	
Max	2.92	2.90	1.68	1.95	2.38	3.01	3.23	1.59	0.94	1.10	0.74	1.06	3.23
Min	1.18	1.30	1.16	1.14	0.94	1.46	1.28	0.97	0.62	0.38	0.36	0.09	0.09
Annual Max Momentary Gage Height	3.24		m. (A.D.) ,				at 04.00 Hours , on Oct 4, 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	-0.30	m. (A.D.)					
Left Bank Elevation	3.31		m. (A.D.) ,										
Right Bank Elevation	3.02		m. (A.D.) ,			Drainage Area	2918	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.56	8.87	5.15	4.66	5.71	13.55	18.74	3.80	1.26	3.27	2.78	3.34	
2	3.92	9.32	4.66	3.92	4.59	19.12	23.90	3.86	1.01	3.69	1.96	2.57	
3	3.74	8.42	4.73	5.22	3.68	21.83	26.15	3.32	0.83	3.62	2.08	0.30	
4	2.30	7.46	3.98	5.15	2.85	19.12	27.30	2.45	0.89	2.02	1.90	0.88	
5	2.50	6.06	3.08	6.13	1.86	11.99	26.15	2.96	1.01	0.94	1.30	0.20	
6	5.01	4.59	2.65	7.30	1.70	7.79	25.40	3.62	0.98	0.60	1.18	0.20	
7	8.33	4.17	2.50	4.10	2.45	5.50	23.90	3.86	0.95	1.00	1.96	1.84	
8	10.72	3.56	2.50	3.02	2.45	4.80	22.06	3.98	0.95	1.66	1.36	2.08	
9	10.00	3.20	2.45	2.10	1.26	4.94	18.17	4.17	0.89	4.46	0.65	2.14	
10	8.33	2.90	2.40	2.35	1.38	4.73	12.64	4.73	0.80	4.38	0.65	1.36	
11	3.32	2.90	2.35	3.26	1.74	5.57	10.94	4.10	0.86	3.06	1.00	1.48	
12	3.92	3.26	2.65	3.98	1.70	5.92	10.40	2.70	0.80	2.02	1.36	2.02	
13	6.62	4.80	2.50	5.78	1.86	6.48	10.00	2.20	0.70	3.69	1.96	2.14	
14	3.26	8.78	2.60	7.22	3.20	6.69	10.61	2.15	0.66	4.06	2.64	1.60	
15	3.20	11.86	2.20	6.76	7.54	6.27	9.41	2.45	0.52	4.94	1.90	0.45	
16	3.20	14.84	2.75	5.43	11.38	5.57	8.06	1.95	0.52	5.10	1.72	0.00	
17	4.52	15.32	2.65	5.36	10.00	5.43	6.76	1.78	0.49	5.34	1.72	0.00	
18	19.92	17.06	2.75	5.71	6.69	4.94	4.31	1.66	0.68	5.10	2.08	0.65	
19	13.03	19.50	3.56	4.87	3.80	4.24	3.50	1.62	0.68	5.34	0.76	0.25	
20	7.97	17.06	3.92	3.74	3.20	3.86	2.80	1.90	0.56	4.62	1.60	1.06	
21	3.26	16.88	3.74	3.86	4.87	4.66	3.20	1.90	0.42	4.70	2.02	1.30	
22	2.70	16.52	3.38	4.80	5.43	4.38	6.48	1.95	0.49	5.34	2.50	1.18	
23	2.50	13.68	3.68	3.80	5.01	4.66	10.83	2.55	0.52	5.50	1.90	0.18	
24	2.55	9.23	4.10	3.74	5.01	6.06	13.68	2.96	0.43	4.94	0.50	0.00	
25	3.26	6.69	3.44	4.66	5.43	6.69	14.84	3.14	0.42	3.83	0.76	0.00	
26	3.56	6.20	4.04	4.52	4.38	8.06	13.16	3.20	0.52	4.62	1.24	0.50	
27	3.32	4.87	2.90	4.04	3.92	10.50	6.62	2.85	0.52	3.20	2.26	2.85	
28	3.50	4.52	3.56	3.44	3.62	16.34	4.17	2.85	0.52	2.38	2.50	1.78	
29	5.57	4.52	4.80	3.44	4.24	12.51	3.08	1.70	0.54	1.36		4.22	
30	7.06	4.66	5.36	2.75	5.15	11.60	3.74	1.38	0.54	1.72		3.90	
31		5.08		3.92	8.15		3.86		2.99	2.99		5.18	
Total	164.65	266.78	101.03	139.03	134.25	253.80	384.86	83.74	23.95	109.49	46.24	45.65	1753.47 CMSDAY
Mean	5.49	8.61	3.37	4.48	4.33	8.46	12.41	2.79	0.77	3.53	1.65	1.47	4.80 CMS
Max	19.92	19.50	5.36	7.30	11.38	21.83	27.30	4.73	2.99	5.50	2.78	5.18	27.30 CMS
Min	2.30	2.90	2.20	2.10	1.26	3.86	2.80	1.38	0.42	0.60	0.50	0.00	0.00 CMS
Runoff	14.23	23.05	8.73	12.01	11.60	21.93	33.25	7.24	2.07	9.46	4.00	3.94	151.50 MCM
Momentary Peak	27.60 CMS, at 3.24 m. (A.D), at 04.00 Hours, on Oct 4, 2009												
Runoff Yield	1.65 Liters/Second/Square KM.			Momentary Peak Yield			9.459 Liters/Second/Square KM.						

WATER YEAR : 2009

MUN RIVER BASIN

Huai Samran at Ban Khwaw, Si Sa Ket (M.190)

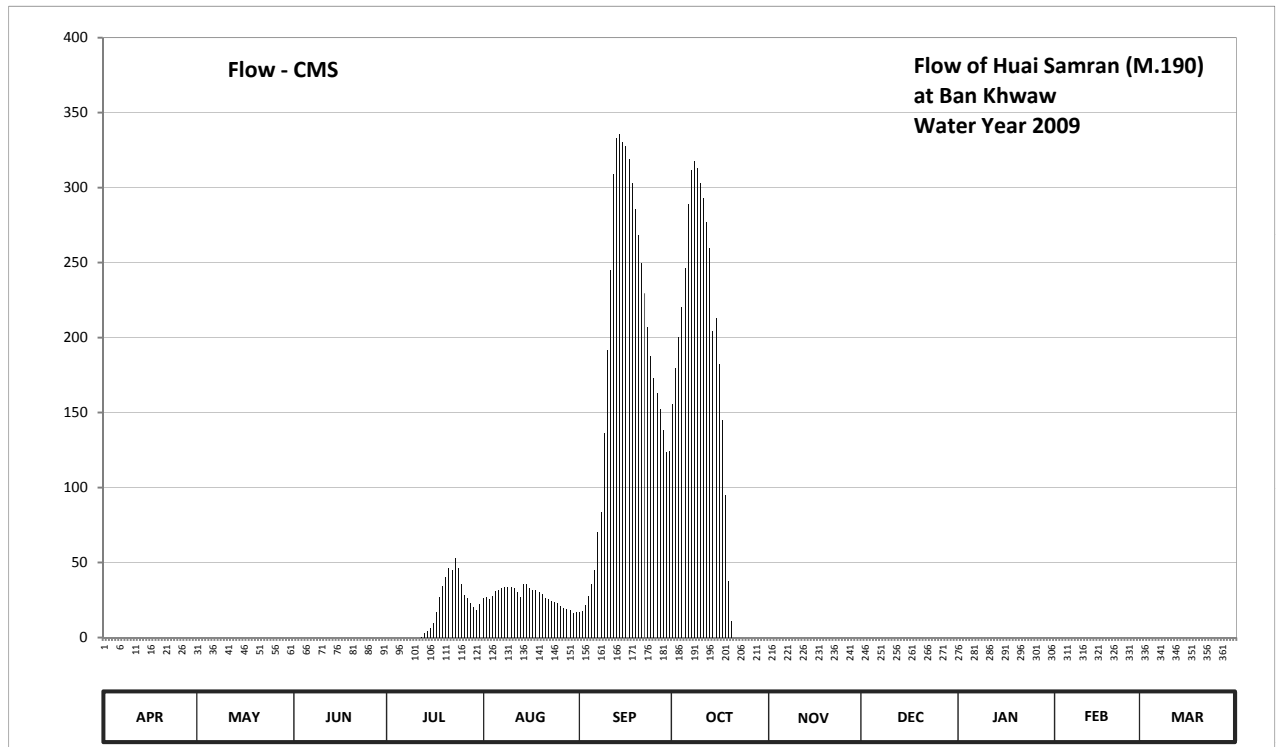
Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

Location : on right at the bridge on highway.

	Ban Khwaw	Amphoe Uthumphon	Changwat Si Sa Ket
Drainage Area	2,339 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	Elevation	+10.049 m. (A.D.)
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 means of 5 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2009.		

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.56	3.82	4.01	4.25	5.03	4.88	6.49	5.21	4.59	4.33	3.78	3.35	
2	3.56	3.82	4.02	4.25	5.04	4.89	6.74	5.16	4.56	4.29	3.79	3.33	
3	3.55	3.82	4.04	4.25	5.02	4.95	6.95	5.09	4.53	4.25	3.85	3.30	
4	3.54	3.82	4.05	4.26	5.05	5.05	7.12	5.03	4.53	4.23	3.86	3.27	
5	3.53	3.82	4.04	4.27	5.10	5.15	7.34	4.98	4.53	4.22	3.86	3.25	
6	3.53	3.81	4.04	4.27	5.11	5.24	7.69	4.94	4.52	4.20	3.85	3.21	
7	3.52	3.81	4.04	4.36	5.12	5.41	7.87	4.90	4.53	4.19	3.84	3.19	
8	3.51	3.81	4.03	4.36	5.13	5.65	7.92	4.91	4.56	4.18	3.82	3.17	
9	3.51	3.80	4.03	4.39	5.13	6.27	7.88	4.91	4.58	4.18	3.79	3.13	
10	3.51	3.80	4.03	4.39	5.13	6.86	7.80	4.87	4.58	4.17	3.76	3.10	
11	3.51	3.79	4.05	4.40	5.12	7.33	7.72	4.87	4.55	4.15	3.73	3.07	
12	3.50	3.81	4.06	4.43	5.09	7.85	7.59	4.76	4.52	4.14	3.70	3.04	
13	3.50	3.83	4.05	4.55	5.04	8.04	7.45	4.79	4.51	4.11	3.68	3.02	
14	3.52	3.84	4.06	4.60	5.15	8.06	6.99	4.84	4.51	4.09	3.67	2.99	
15	3.61	3.86	4.06	4.65	5.15	8.02	7.06	4.77	4.52	4.07	3.66	2.97	
16	3.62	3.86	4.05	4.73	5.12	8.00	6.77	4.72	4.54	4.04	3.64	2.95	
17	3.62	3.86	4.06	4.88	5.11	7.93	6.37	4.72	4.54	4.03	3.62	2.92	
18	3.61	3.86	4.07	5.04	5.11	7.80	5.83	4.71	4.53	4.00	3.60	2.88	
19	3.61	3.85	4.10	5.14	5.09	7.66	5.17	4.71	4.52	3.98	3.59	2.86	
20	3.60	3.86	4.10	5.20	5.07	7.52	4.76	4.69	4.51	3.97	3.56	2.83	
21	3.61	3.87	4.14	5.25	5.03	7.37	5.12	4.69	4.51	3.99	3.54	2.81	
22	3.61	3.89	4.16	5.24	5.02	7.20	5.60	4.68	4.50	3.98	3.55	2.79	
23	3.60	3.90	4.17	5.30	5.00	7.01	5.55	4.67	4.48	3.97	3.53	2.79	
24	3.59	3.95	4.18	5.25	4.99	6.82	5.49	4.67	4.47	3.95	3.51	2.79	
25	3.59	3.97	4.18	5.15	4.97	6.67	5.48	4.65	4.45	3.93	3.48	2.77	
26	3.67	3.98	4.18	5.06	4.94	6.57	5.48	4.60	4.43	3.90	3.47	2.77	
27	3.77	3.98	4.19	5.03	4.92	6.45	5.47	4.60	4.41	3.88	3.45	2.77	
28	3.79	3.88	4.23	4.97	4.91	6.30	5.43	4.60	4.38	3.86	3.40	2.77	
29	3.93	4.01	4.25	4.93	4.90	6.12	5.40	4.61	4.36	3.83		2.77	
30	3.81	4.01	4.25	4.90	4.86	6.13	5.35	4.61	4.35	3.80		2.77	
31		4.01		4.96	4.87		5.28		4.34	3.80		2.77	
Mean	3.60	3.87	4.10	4.73	5.04	6.64	6.42	4.80	4.50	4.06	3.66	2.98	
Max	3.93	4.01	4.25	5.30	5.15	8.06	7.92	5.21	4.59	4.33	3.86	3.35	8.06
Min	3.50	3.79	4.01	4.25	4.86	4.88	4.76	4.60	4.34	3.80	3.40	2.77	2.77
Annual Max Momentary Gage Height	8.06		m. (A.D.) ,				at 18.00 Hours, on Sep 13, 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	1.28		m. (A.D.)				
Left Bank Elevation	8.87		m. (A.D.) ,										
Right Bank Elevation	9.67		m. (A.D.) ,			Drainage Area	2339		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	26.45	17.30	155.60	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	27.10	17.90	179.50	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	25.80	21.50	200.50	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	27.75	27.75	219.90	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	31.00	35.50	246.30	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	31.90	45.20	289.25	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	32.80	70.60	311.75	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	33.70	84.00	318.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	33.70	135.95	313.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	33.70	191.50	303.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	32.80	245.10	293.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.60	30.35	309.25	276.75	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	3.25	27.10	333.20	259.50	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	4.50	35.50	335.80	204.50	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	6.25	35.50	330.60	212.70	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	9.35	32.80	328.00	182.50	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	17.30	31.90	319.25	144.80	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	27.10	31.90	303.00	95.15	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	34.60	30.35	285.50	37.30	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	40.00	29.05	268.00	10.70	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	46.50	26.45	249.90	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	45.20	25.80	229.50	0.01	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	53.00	24.50	206.70	0.01	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	46.50	23.90	187.50	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	35.50	22.70	172.65	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	28.40	20.90	163.15	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	26.45	19.70	152.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	22.70	19.10	138.50	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	20.30	18.50	123.20	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	18.50	16.10	124.05	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	22.10	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	508.10	855.50	5452.05	4253.72	0.00	0.00	0.00	0.00	0.00	11069.37 CMSDAY
Mean	0.00	0.00	0.00	16.39	27.60	181.74	137.22	0.00	0.00	0.00	0.00	0.00	30.33 CMS
Max	0.00	0.00	0.00	53.00	35.50	335.80	318.00	0.00	0.00	0.00	0.00	0.00	335.80 CMS
Min	0.00	0.00	0.00	0.00	16.10	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	43.90	73.92	471.06	367.52	0.00	0.00	0.00	0.00	0.00	956.39 MCM
Momentary Peak	335.80 CMS, at 8.06 m. (A.D), at 18.00 Hours, on Sep 13, 2009												
Runoff Yield	12.97 Liters/Second/Square KM.			Momentary Peak Yield				143.566 Liters/Second/Square KM.					

WATER YEAR : 2009**PING RIVER BASIN****Ping River at Nawarat Bridge , Chiang Mai (P.1)**

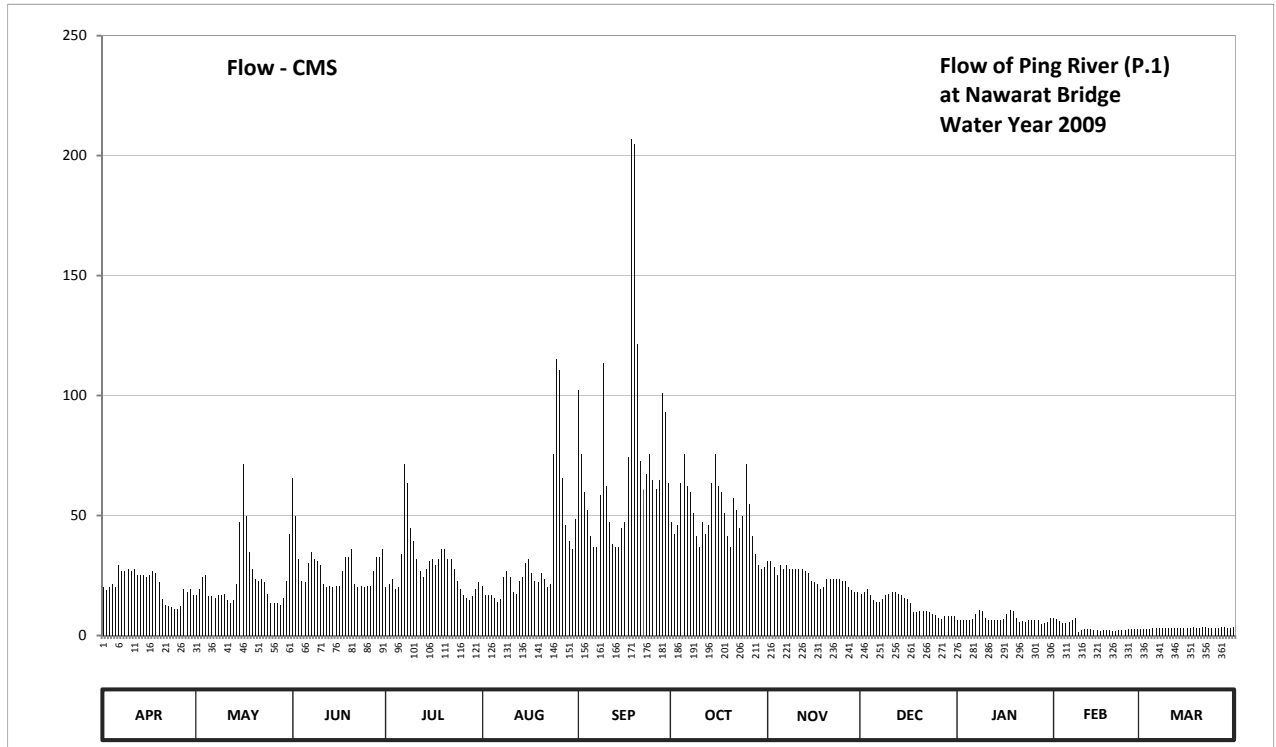
Lat 18 - 47 - 10 N Long 99 - 00 - 27 E

Location : on left bank about 100 meters downstream from Nawarat Bridge.

	Ban Nawarat Bridge	Amphoe Mueang	Changwat Chiang Mai
Drainage Area	6,350 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+300.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near automatic gage building	Elevation	+305.310 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1921 to date		
Rating Operation			
Period of Rating	1954 - 1960 , 1967 to date		
Rated by Flot	1936 - 1938		
Rated by Current Meter	1954 - 1960 , 1967 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. 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 40 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.75	301.70	302.19	301.75	301.76	302.44	302.04	301.89	301.71	301.50	301.52	301.80	
2	301.73	301.74	302.06	301.77	301.70	302.26	302.00	301.89	301.72	301.50	301.51	301.80	
3	301.75	301.81	301.90	301.80	301.70	302.14	302.03	301.86	301.74	301.50	301.49	301.80	
4	301.77	301.82	301.79	301.74	301.70	302.08	302.17	301.82	301.70	301.50	301.46	301.80	
5	301.75	301.69	301.78	301.75	301.68	301.99	302.26	301.87	301.66	301.50	301.46	301.84	
6	301.87	301.69	301.88	301.92	301.65	301.95	302.16	301.85	301.65	301.51	301.48	301.88	
7	301.84	301.68	301.93	302.23	301.67	301.95	302.14	301.87	301.65	301.55	301.50	301.86	
8	301.84	301.70	301.90	302.17	301.81	302.13	302.07	301.85	301.67	301.59	301.52	301.85	
9	301.85	301.70	301.89	302.02	301.84	302.51	301.99	301.85	301.70	301.58	301.53	301.86	
10	301.84	301.71	301.87	301.97	301.81	302.16	301.95	301.85	301.71	301.52	301.70	301.85	
11	301.85	301.66	301.77	301.90	301.72	302.04	302.04	301.85	301.72	301.50	301.77	301.86	
12	301.82	301.64	301.75	301.84	301.71	301.96	302.00	301.85	301.72	301.50	301.77	301.88	
13	301.82	301.66	301.76	301.81	301.79	301.95	302.03	301.84	301.71	301.50	301.79	301.84	
14	301.82	301.77	301.75	301.85	301.81	301.95	302.17	301.83	301.70	301.50	301.70	301.85	
15	301.81	302.04	301.76	301.89	301.88	302.02	302.26	301.79	301.68	301.50	301.68	301.85	
16	301.82	302.23	301.76	301.90	301.90	302.04	302.16	301.78	301.67	301.51	301.66	301.85	
17	301.84	302.06	301.84	301.87	301.83	302.25	302.14	301.77	301.64	301.55	301.68	301.88	
18	301.83	301.93	301.91	301.90	301.79	303.00	302.07	301.74	301.57	301.59	301.71	301.91	
19	301.78	301.85	301.91	301.94	301.78	302.99	301.99	301.75	301.57	301.58	301.71	301.87	
20	301.67	301.80	301.94	301.94	301.83	302.56	301.95	301.80	301.58	301.52	301.66	301.88	
21	301.63	301.79	301.77	301.90	301.80	302.24	302.12	301.80	301.58	301.47	301.60	301.90	
22	301.62	301.80	301.75	301.90	301.75	302.15	302.08	301.80	301.58	301.49	301.68	301.90	
23	301.61	301.78	301.76	301.85	301.77	302.20	302.02	301.80	301.57	301.48	301.68	301.89	
24	301.60	301.71	301.75	301.79	302.26	302.26	302.06	301.80	301.55	301.50	301.71	301.88	
25	301.60	301.64	301.76	301.74	302.52	302.18	302.23	301.79	301.54	301.50	301.77	301.87	
26	301.62	301.64	301.76	301.70	302.49	302.15	302.10	301.79	301.52	301.50	301.80	301.89	
27	301.74	301.64	301.84	301.68	302.19	302.18	301.99	301.75	301.51	301.50	301.80	301.91	
28	301.72	301.63	301.91	301.66	302.03	302.43	301.92	301.73	301.53	301.45	301.80	301.90	
29	301.74	301.68	301.91	301.69	301.97	302.38	301.87	301.72	301.53	301.46		301.88	
30	301.70	301.79	301.94	301.74	301.94	302.17	301.85	301.72	301.53	301.48		301.88	
31		302.00		301.78	302.05		301.86		301.53	301.52		301.93	
Mean	301.75	301.77	301.85	301.85	301.88	302.22	302.06	301.81	301.63	301.51	301.65	301.87	
Max	301.87	302.23	302.19	302.23	302.52	303.00	302.26	301.89	301.74	301.59	301.80	301.93	303.00
Min	301.60	301.63	301.75	301.66	301.65	301.95	301.85	301.72	301.51	301.45	301.46	301.80	301.45
Annual Max Momentary Gage Height		303.10		m. (MSL.) ,			at 20.00 Hours , on Sep 18 , 2009						
Zero Gage at Bottom Elevation		300.50		m. (MSL.) ,		River Bed	299.22		m. (MSL)				
Left Bank Elevation			307.73		m. (MSL.) ,								
Right Bank Elevation		307.63		m. (MSL.) ,		Drainage Area	6350		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.15	16.80	65.77	20.15	20.82	102.40	47.40	30.88	17.47	6.50	7.44	2.75	
2	18.81	19.48	49.85	21.49	16.80	75.70	42.50	30.88	18.14	6.50	6.97	2.75	
3	20.15	24.32	31.70	23.50	16.80	59.65	46.17	28.42	19.48	6.50	6.14	2.75	
4	21.49	25.14	22.83	19.48	16.80	52.30	63.33	25.14	16.80	6.50	5.06	2.75	
5	20.15	16.24	22.16	20.15	15.68	41.42	75.70	29.24	14.56	6.50	5.06	2.97	
6	29.24	16.24	30.06	33.86	14.00	37.10	62.10	27.60	14.00	6.97	5.78	3.19	
7	26.78	15.68	34.94	71.35	15.12	37.10	59.65	29.24	14.00	8.85	6.50	3.08	
8	26.78	16.80	31.70	63.33	24.32	58.42	51.08	27.60	15.12	10.73	7.44	3.03	
9	27.60	16.80	30.88	44.95	26.78	113.60	41.42	27.60	16.80	10.26	1.27	3.08	
10	26.78	17.47	29.24	39.26	24.32	62.10	37.10	27.60	17.47	7.44	2.20	3.03	
11	27.60	14.56	21.49	31.70	18.14	47.40	47.40	27.60	18.14	6.50	2.58	3.08	
12	25.14	13.44	20.15	26.78	17.47	38.18	42.50	27.60	18.14	6.50	2.58	3.19	
13	25.14	14.56	20.82	24.32	22.83	37.10	46.17	26.78	17.47	6.50	2.70	2.97	
14	25.14	21.49	20.15	27.60	24.32	37.10	63.33	25.96	16.80	6.50	2.20	3.03	
15	24.32	47.40	20.82	30.88	30.06	44.95	75.70	22.83	15.68	6.50	2.09	3.03	
16	25.14	71.35	20.82	31.70	31.70	47.40	62.10	22.16	15.12	6.97	1.98	3.03	
17	26.78	49.85	26.78	29.24	25.96	74.25	59.65	21.49	13.44	8.85	2.09	3.19	
18	25.96	34.94	32.78	31.70	22.83	207.00	51.08	19.48	9.79	10.73	2.25	3.36	
19	22.16	27.60	32.78	36.02	22.16	204.85	41.42	20.15	9.79	10.26	2.25	3.14	
20	15.12	23.50	36.02	36.02	25.96	121.60	37.10	23.50	10.26	7.44	1.98	3.19	
21	12.88	22.83	21.49	31.70	23.50	72.80	57.20	23.50	10.26	5.42	1.65	3.30	
22	12.32	23.50	20.15	31.70	20.15	60.87	52.30	23.50	10.26	6.14	2.09	3.30	
23	11.76	22.16	20.82	27.60	21.49	67.00	44.95	23.50	9.79	5.78	2.09	3.25	
24	11.20	17.47	20.15	22.83	75.70	75.70	49.85	23.50	8.85	6.50	2.25	3.19	
25	11.20	13.44	20.82	19.48	115.20	64.55	71.35	22.83	8.38	6.50	2.58	3.14	
26	12.32	13.44	20.82	16.80	110.40	60.87	54.75	22.83	7.44	6.50	2.75	3.25	
27	19.48	13.44	26.78	15.68	65.77	64.55	41.42	20.15	6.97	6.50	2.75	3.36	
28	18.14	12.88	32.78	14.56	46.17	100.80	33.86	18.81	7.91	4.70	2.75	3.30	
29	19.48	15.68	32.78	16.24	39.26	93.10	29.24	18.14	7.91	5.06		3.19	
30	16.80	22.83	36.02	19.48	36.02	63.33	27.60	18.14	7.91	5.78		3.19	
31		42.50		22.16	48.62		28.42		7.91	7.44		3.48	
Total	626.01	723.83	854.35	901.71	1035.15	2223.19	1543.84	736.65	402.06	219.82	95.47	96.54	9458.62 CMSDAY
Mean	20.87	23.35	28.48	29.09	33.39	74.11	49.80	24.56	12.97	7.09	3.41	3.11	25.91 CMS
Max	29.24	71.35	65.77	71.35	115.20	207.00	75.70	30.88	19.48	10.73	7.44	3.48	207.00 CMS
Min	11.20	12.88	20.15	14.56	14.00	37.10	27.60	18.14	6.97	4.70	1.27	2.75	1.27 CMS
Runoff	54.09	62.54	73.82	77.91	89.44	192.08	133.39	63.65	34.74	18.99	8.25	8.34	817.23 MCM
Momentary Peak	231.00 CMS. at 303.10 m. (MSL.) at 20.00 Hours , on Sep 18 , 2009												
Runoff Yield	4.08 Liters/Second/Square KM.			Momentary Peak Yield				36.378 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Tha Khae , Tak (P.2A)

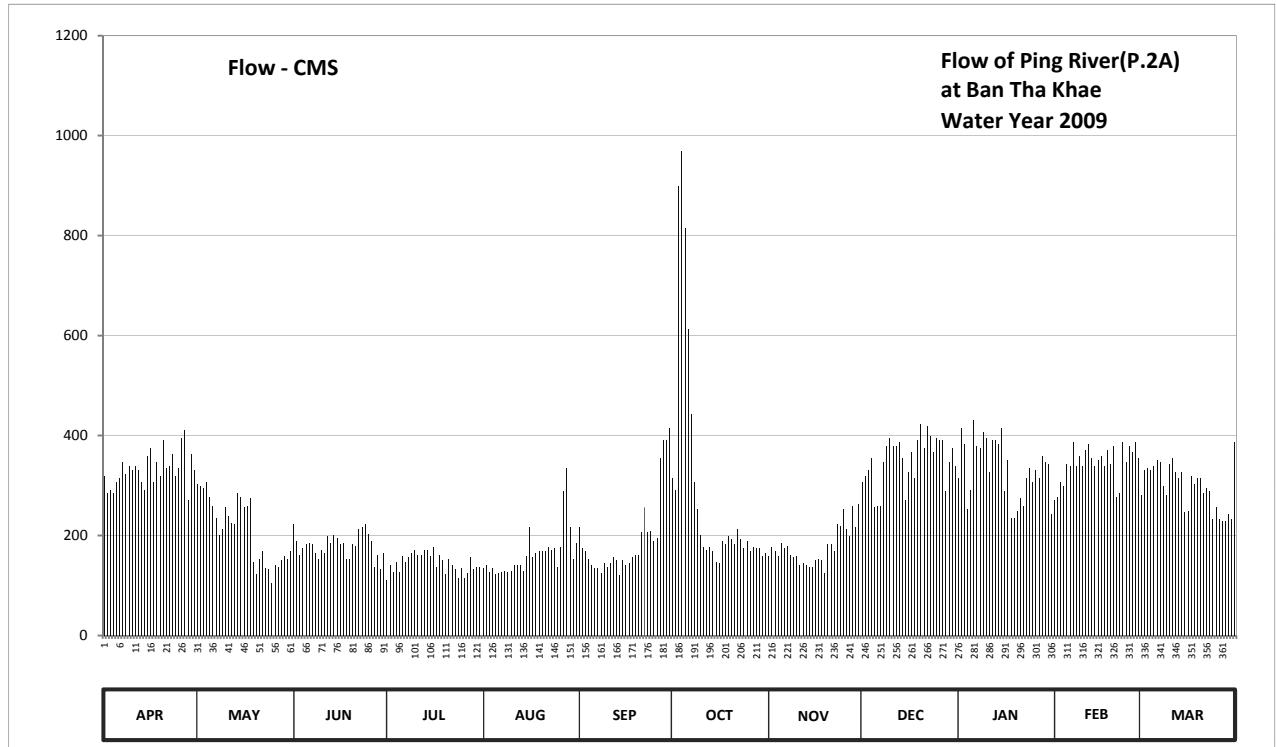
Lat 16 - 51 - 11 N Long 99 - 07 - 34 E

Location : on right bank about 200 meters downstream from Kittikhachon I Bridge.

	Ban Tha Khae	Amphoe Mueang	Changwat Tak
Drainage Area	38,681 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+104.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near automatic gage building	Elevation	+116.040 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1952 to date		
Rating Operation			
Period of Rating	1952 - 1960 , 1963 - 1967 , 1971 to date		
Rated by Flot	-		
Rated by Current Meter	1952 - 1960 , 1963 - 1967 , 1971 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phumiphol Dam reservoir since 1964. Stage-discharge relation defined by 29 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.36	105.32	105.09	104.70	104.80	105.07	105.35	104.88	105.33	105.35	105.23	105.26	
2	105.27	105.31	104.98	104.82	104.82	104.93	105.29	104.94	105.36	105.60	105.25	105.39	
3	105.29	105.30	104.89	104.77	104.77	104.91	106.64	104.91	105.39	105.52	105.33	105.40	
4	105.27	105.33	104.93	104.84	104.80	104.86	106.78	104.88	105.45	105.18	105.31	105.39	
5	105.33	105.25	104.96	104.77	104.75	104.82	106.47	104.97	105.19	105.29	105.42	105.41	
6	105.35	105.20	104.97	104.88	104.76	104.80	106.05	104.93	105.20	105.64	105.41	105.44	
7	105.43	105.13	104.96	104.84	104.77	104.80	105.67	104.95	105.20	105.51	105.53	105.43	
8	105.37	105.02	104.90	104.87	104.78	104.76	105.33	104.89	105.43	105.50	105.41	105.31	
9	105.41	105.06	104.86	104.90	104.77	104.83	105.18	104.87	105.51	105.58	105.46	105.26	
10	105.39	105.19	104.92	104.92	104.78	104.81	105.02	104.88	105.55	105.55	105.41	105.42	
11	105.41	105.14	104.90	104.89	104.82	104.83	104.94	104.82	105.51	105.38	105.49	105.45	
12	105.39	105.10	105.01	104.89	104.82	104.87	104.92	104.83	105.51	105.54	105.52	105.38	
13	105.33	105.09	104.97	104.92	104.82	104.85	104.94	104.82	105.53	105.54	105.45	105.35	
14	105.29	105.27	105.02	104.92	104.78	104.74	104.91	104.81	105.45	105.52	105.41	105.38	
15	105.46	105.25	105.00	104.88	104.88	104.85	104.84	104.81	105.23	105.60	105.44	105.16	
16	105.50	105.19	104.96	104.94	105.07	104.82	104.83	104.85	105.38	105.28	105.46	105.17	
17	105.33	105.20	104.97	104.81	104.87	104.83	104.98	104.86	105.48	105.44	105.41	105.36	
18	105.43	105.24	104.86	104.89	104.90	104.87	104.96	104.85	105.35	105.13	105.49	105.32	
19	105.36	104.84	104.86	104.85	104.91	104.89	105.01	104.76	105.54	105.13	105.42	105.35	
20	105.54	104.75	104.96	104.75	104.91	104.89	104.99	104.96	105.62	105.17	105.51	105.35	
21	105.40	104.86	104.95	104.86	104.91	105.04	104.96	104.96	105.50	105.24	105.25	105.27	
22	105.41	104.91	105.06	104.82	104.94	105.19	105.06	104.91	105.61	105.20	105.27	105.30	
23	105.47	104.80	105.07	104.79	104.92	105.04	104.99	105.09	105.56	105.35	105.53	105.28	
24	105.36	104.79	105.09	104.72	104.93	105.05	104.93	105.08	105.48	105.40	105.43	105.12	
25	105.40	104.68	105.03	104.80	104.81	104.98	104.98	105.18	105.55	105.33	105.51	105.19	
26	105.55	104.82	104.98	104.72	104.94	105.00	104.91	105.06	105.54	105.39	105.48	105.12	
27	105.59	104.81	104.81	104.76	105.28	105.45	104.94	105.01	105.54	105.35	105.53	105.11	
28	105.23	104.85	104.89	104.87	105.40	105.54	104.93	105.20	105.28	105.46	105.45	105.11	
29	105.47	104.88	104.79	104.79	105.07	105.54	104.93	105.07	105.43	105.43		105.15	
30	105.39	104.86	104.90	104.81	104.86	105.60	104.88	105.21	105.50	105.42		105.12	
31		104.91		104.81	104.97		104.90		105.41	105.15		105.53	
Mean	105.39	105.04	104.95	104.83	104.89	104.98	105.21	104.94	105.44	105.39	105.42	105.30	
Max	105.59	105.33	105.09	104.94	105.40	105.60	106.78	105.21	105.62	105.64	105.53	105.53	106.78
Min	105.23	104.68	104.79	104.70	104.75	104.74	104.83	104.76	105.19	105.13	105.23	105.11	104.68
Annual Max Momentary Gage Height		106.90	m. (MSL.) ,				at 06.00 Hours, on Oct 4, 2009						
Zero Gage at Bottom Elevation		104.00	m. (MSL.) ,			River Bed	102.15	m. (MSL)					
Left Bank Elevation			109.64	m. (MSL.) ,									
Right Bank Elevation			108.94	m. (MSL.) ,		Drainage Area	38681	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	319.00	303.00	222.00	110.00	135.00	216.00	315.00	159.00	307.00	315.00	270.50	281.00	
2	284.50	299.00	189.00	141.00	141.00	174.00	291.50	177.00	319.00	415.00	277.50	331.00	
3	291.50	295.00	162.00	127.50	127.50	168.00	900.00	168.00	331.00	383.00	307.00	335.00	
4	284.50	307.00	174.00	147.00	135.00	153.00	970.00	159.00	355.00	253.00	299.00	331.00	
5	307.00	277.50	183.00	127.50	122.50	141.00	815.00	186.00	256.50	291.50	343.00	339.00	
6	315.00	260.00	186.00	159.00	125.00	135.00	612.50	174.00	260.00	431.00	339.00	351.00	
7	347.00	235.50	183.00	147.00	127.50	135.00	443.00	180.00	260.00	379.00	387.00	347.00	
8	323.00	201.00	165.00	156.00	130.00	125.00	307.00	162.00	347.00	375.00	339.00	299.00	
9	339.00	213.00	153.00	165.00	127.50	144.00	253.00	156.00	379.00	407.00	359.00	281.00	
10	331.00	256.50	171.00	171.00	130.00	138.00	201.00	159.00	395.00	395.00	339.00	343.00	
11	339.00	239.00	165.00	162.00	141.00	144.00	177.00	141.00	379.00	327.00	371.00	355.00	
12	331.00	225.00	198.00	162.00	141.00	156.00	171.00	144.00	379.00	391.00	383.00	327.00	
13	307.00	222.00	186.00	171.00	141.00	150.00	177.00	141.00	387.00	391.00	355.00	315.00	
14	291.50	284.50	201.00	171.00	130.00	120.00	168.00	138.00	355.00	383.00	339.00	327.00	
15	359.00	277.50	195.00	159.00	159.00	150.00	147.00	138.00	270.50	415.00	351.00	246.00	
16	375.00	256.50	183.00	177.00	216.00	141.00	144.00	150.00	327.00	288.00	359.00	249.50	
17	307.00	260.00	186.00	138.00	156.00	144.00	189.00	153.00	367.00	351.00	339.00	319.00	
18	347.00	274.00	153.00	162.00	165.00	156.00	183.00	150.00	315.00	235.50	371.00	303.00	
19	319.00	147.00	153.00	150.00	168.00	162.00	198.00	125.00	391.00	235.50	343.00	315.00	
20	391.00	122.50	183.00	122.50	168.00	162.00	192.00	183.00	423.00	249.50	379.00	315.00	
21	335.00	153.00	180.00	153.00	168.00	207.00	183.00	183.00	375.00	274.00	277.50	284.50	
22	339.00	168.00	213.00	141.00	177.00	256.50	213.00	168.00	419.00	260.00	284.50	295.00	
23	363.00	135.00	216.00	132.50	171.00	207.00	192.00	222.00	399.00	315.00	387.00	288.00	
24	319.00	132.50	222.00	115.00	174.00	210.00	174.00	219.00	367.00	335.00	347.00	232.00	
25	335.00	105.00	204.00	135.00	138.00	189.00	189.00	253.00	395.00	307.00	379.00	256.50	
26	395.00	141.00	189.00	115.00	177.00	195.00	168.00	213.00	391.00	331.00	367.00	232.00	
27	411.00	138.00	138.00	125.00	288.00	355.00	177.00	198.00	391.00	315.00	387.00	228.50	
28	270.50	150.00	162.00	156.00	335.00	391.00	174.00	260.00	288.00	359.00	355.00	228.50	
29	363.00	159.00	132.50	132.50	216.00	391.00	174.00	216.00	347.00	347.00		242.50	
30	331.00	153.00	165.00	138.00	153.00	415.00	159.00	263.50	375.00	343.00		232.00	
31		168.00		138.00	186.00		165.00		339.00	242.50		387.00	
Total	9969.50	6558.00	5412.50	4506.50	5069.00	5830.50	8822.00	5338.50	889.00	10339.50	9634.00	9216.00	91585.00 CMSDAY
Mean	332.32	211.55	180.42	145.37	163.52	194.35	284.58	177.95	351.26	333.53	344.07	297.29	250.92 CMS
Max	411.00	307.00	222.00	177.00	335.00	415.00	970.00	263.50	423.00	431.00	387.00	387.00	970.00 CMS
Min	270.50	105.00	132.50	110.00	122.50	120.00	144.00	125.00	256.50	235.50	270.50	228.50	105.00 CMS
Runoff	861.365	566.611	467.64	389.362	437.962	503.755	762.221	461.246	940.81	893.333	832.378	796.262	7912.944 MCM
Momentary Peak	1030.00 CMS. at 106.90 m. (MSL.) at 06.00 Hours , on Oct 4, 2009												
Runoff Yield	6.49 Liters/Second/Square KM.			Momentary Peak Yield				26.628 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Taeng at Ban Sanmahaphon , Chiang Mai (P.4A)

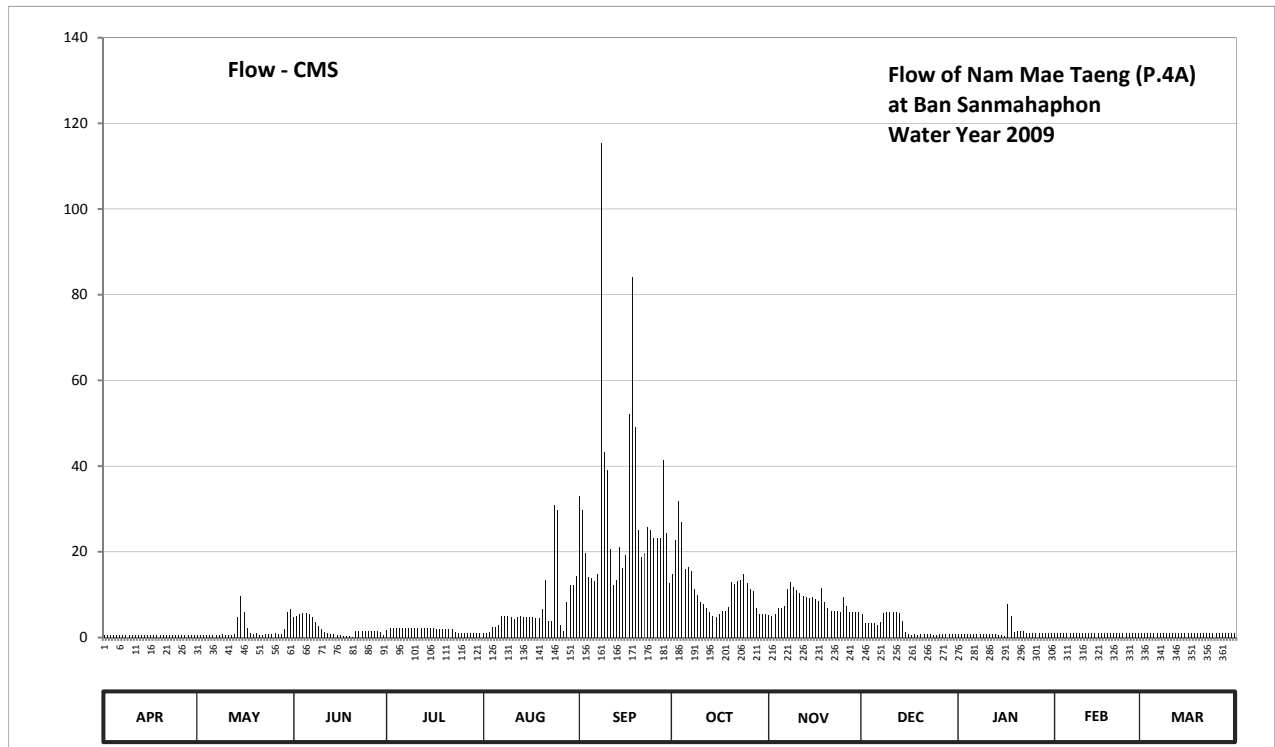
Lat 19 - 07 - 15 N Long 98 - 56 - 53 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	Ban Sanmahaphon	Amphoe Mae Taeng	Changwat Chiang Mai
Drainage Area	1,930 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+334.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In the vicinity of Amphoe Mae Taeng office	Elevation	+339.946 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1955 to date		
Rating Operation			
Period of Rating	1955 - 1960 , 1967 to date		
Rated by Flot	-		
Rated by Current Meter	1955 - 1960 , 1967 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by Mae Taeng weir about 7 kilometers above gage site. Stage-discharge relation defined by 33 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	334.48	334.50	334.96	334.11	334.03	335.26	334.75	334.35	334.36	334.00	334.66	334.65	
2	334.50	334.50	334.97	334.16	334.03	335.18	334.99	334.34	334.23	334.00	334.66	334.65	
3	334.50	334.50	334.98	334.16	334.07	334.90	335.23	334.36	334.23	334.00	334.66	334.65	
4	334.50	334.50	334.99	334.16	334.17	334.73	335.10	334.44	334.23	334.00	334.66	334.65	
5	334.50	334.50	334.99	334.16	334.17	334.72	334.79	334.44	334.23	334.00	334.66	334.65	
6	334.50	334.50	334.98	334.16	334.21	334.70	334.81	334.47	334.21	334.00	334.66	334.65	
7	334.50	334.50	334.96	334.16	334.34	334.75	334.78	334.63	334.25	334.00	334.66	334.65	
8	334.50	334.50	334.92	334.16	334.34	336.73	334.63	334.69	334.38	334.00	334.66	334.65	
9	334.50	334.52	334.86	334.16	334.34	335.49	334.58	334.65	334.39	334.00	334.66	334.65	
10	334.50	334.50	334.80	334.16	334.33	335.40	334.51	334.62	334.39	334.00	334.66	334.65	
11	334.48	334.50	334.72	334.16	334.30	334.93	334.49	334.59	334.39	334.00	334.65	334.65	
12	334.50	334.50	334.65	334.16	334.33	334.66	334.44	334.57	334.39	334.00	334.65	334.65	
13	334.50	334.52	334.59	334.16	334.34	334.71	334.39	334.56	334.38	333.99	334.64	334.65	
14	334.50	334.96	334.52	334.16	334.32	334.94	334.34	334.55	334.27	333.97	334.64	334.65	
15	334.50	335.06	334.45	334.16	334.32	334.80	334.32	334.56	334.08	333.94	334.64	334.65	
16	334.50	335.00	334.36	334.16	334.32	334.89	334.37	334.54	334.00	334.25	334.64	334.65	
17	334.50	334.83	334.27	334.14	334.32	335.68	334.41	334.52	333.97	335.03	334.64	334.65	
18	334.50	334.66	334.19	334.14	334.31	336.25	334.41	334.64	333.99	334.97	334.64	334.65	
19	334.50	334.58	334.14	334.14	334.31	335.62	334.45	334.51	333.97	334.72	334.64	334.65	
20	334.50	334.65	334.10	334.14	334.43	335.05	334.69	334.44	334.00	334.75	334.64	334.65	
21	334.50	334.50	334.10	334.14	334.71	334.87	334.67	334.41	334.00	334.75	334.64	334.65	
22	334.50	334.51	334.10	334.14	334.26	334.90	334.70	334.41	334.00	334.73	334.64	334.65	
23	334.50	334.61	334.10	334.07	334.27	335.07	334.71	334.41	334.00	334.66	334.65	334.65	
24	334.50	334.56	334.10	334.05	335.21	335.05	334.75	334.40	333.96	334.66	334.65	334.65	
25	334.50	334.58	334.10	334.05	335.18	335.00	334.68	334.56	333.97	334.66	334.65	334.65	
26	334.50	334.66	334.10	334.05	334.20	335.00	334.63	334.47	334.00	334.68	334.65	334.65	
27	334.50	334.59	334.10	334.05	334.09	335.00	334.61	334.39	334.00	334.66	334.65	334.65	
28	334.50	334.56	334.10	334.03	334.51	335.45	334.44	334.39	334.00	334.66	334.65	334.65	
29	334.50	334.78	334.07	334.03	334.66	335.03	334.36	334.39	334.00	334.66		334.65	
30	334.50	335.00	333.96	334.03	334.66	334.68	334.36	334.39	334.00	334.66		334.65	
31		335.01		334.03	334.74		334.36		334.00	334.66		334.65	
Mean	334.50	334.63	334.47	334.12	334.38	335.11	334.60	334.49	334.14	334.36	334.65	334.65	
Max	334.50	335.06	334.99	334.16	335.21	336.73	335.23	334.69	334.39	335.03	334.66	334.65	336.73
Min	334.48	334.50	333.96	334.03	334.03	334.66	334.32	334.34	333.96	333.94	334.64	334.65	333.94
Annual Max Momentary Gage Height		337.72	m. (MSL.) ,				at 10.00 Hours , on Sep 8 , 2009						
Zero Gage at Bottom Elevation		334.00	m. (MSL.) ,			River Bed	333.51	m. (MSL)					
Left Bank Elevation		339.86	m. (MSL.) ,										
Right Bank Elevation		339.86	m. (MSL.) ,			Drainage Area	1930	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.62	0.65	4.80	1.63	1.01	33.05	14.70	5.20	5.36	0.80	1.06	1.02		
2	0.65	0.65	5.10	2.28	1.01	29.77	22.85	5.04	3.28	0.80	1.06	1.02		
3	0.65	0.65	5.40	2.28	1.29	19.70	31.78	5.36	3.28	0.80	1.06	1.02		
4	0.65	0.65	5.70	2.28	2.41	14.10	26.85	6.80	3.28	0.80	1.06	1.02		
5	0.65	0.65	5.70	2.28	2.41	13.80	15.90	6.80	3.28	0.80	1.06	1.02		
6	0.65	0.65	5.40	2.28	2.96	13.20	16.55	7.40	2.96	0.80	1.06	1.02		
7	0.65	0.65	4.80	2.28	5.04	14.70	15.60	11.31	3.60	0.80	1.06	1.02		
8	0.65	0.65	3.60	2.28	5.04	115.28	11.31	12.93	5.68	0.80	1.06	1.02		
9	0.65	0.69	2.60	2.28	5.04	43.14	10.00	11.85	5.84	0.80	1.06	1.02		
10	0.65	0.65	2.00	2.28	4.88	39.00	8.25	11.04	5.84	0.80	1.06	1.02		
11	0.62	0.65	1.36	2.28	4.40	20.75	7.80	10.25	5.84	0.80	1.02	1.02		
12	0.65	0.65	1.02	2.28	4.88	12.12	6.80	9.75	5.84	0.80	1.02	1.02		
13	0.65	0.69	0.83	2.28	5.04	13.50	5.84	9.50	5.68	0.75	0.99	1.02		
14	0.65	4.80	0.69	2.28	4.72	21.10	5.04	9.25	3.92	0.65	0.99	1.02		
15	0.65	9.60	0.58	2.28	4.72	16.20	4.72	9.50	1.36	0.50	0.99	1.02		
16	0.65	6.00	0.46	2.28	4.72	19.35	5.52	9.00	0.80	0.35	0.99	1.02		
17	0.65	2.30	0.37	2.02	4.72	52.20	6.20	8.50	0.65	7.80	0.99	1.02		
18	0.65	1.06	0.29	2.02	4.56	84.12	6.20	11.58	0.75	5.10	0.99	1.02		
19	0.65	0.81	0.24	2.02	4.56	49.20	7.00	8.25	0.65	1.36	0.99	1.02		
20	0.65	1.02	0.20	2.02	6.60	25.02	12.93	6.80	0.80	1.60	0.99	1.02		
21	0.65	0.65	1.50	2.02	13.50	18.65	12.39	6.20	0.80	1.60	0.99	1.02		
22	0.65	0.67	1.50	2.02	3.76	19.70	13.20	6.20	0.80	1.44	0.99	1.02		
23	0.65	0.88	1.50	1.29	3.92	25.76	13.50	6.20	0.80	1.06	1.02	1.02		
24	0.65	0.77	1.50	1.15	30.92	25.02	14.70	6.00	0.60	1.06	1.02	1.02		
25	0.65	0.81	1.50	1.15	29.77	23.20	12.66	9.50	0.65	1.06	1.02	1.02		
26	0.65	1.06	1.50	1.15	2.80	23.20	11.31	7.40	0.80	1.13	1.02	1.02		
27	0.65	0.83	1.50	1.15	1.43	23.20	10.77	5.84	0.80	1.06	1.02	1.02		
28	0.65	0.77	1.50	1.01	8.25	41.30	6.80	5.84	0.80	1.06	1.02	1.02		
29	0.65	1.84	1.29	1.01	12.12	24.29	5.36	5.84	0.80	1.06		1.02		
30	0.65	6.00	0.60	1.01	12.12	12.66	5.36	5.84	0.80	1.06		1.02		
31		6.60		1.01	14.40		5.36		0.80	1.06		1.02		
Total	19.44	55.00	65.03	57.88	213.00	886.28	353.25	240.97	77.14	40.36	28.66	31.62	2068.63	CMSDAY
Mean	0.65	1.77	2.17	1.87	6.87	29.54	11.40	8.03	2.49	1.30	1.02	1.02	5.67	CMS
Max	0.65	9.60	5.70	2.28	30.92	115.28	31.78	12.93	5.84	7.80	1.06	1.02	115.28	CMS
Min	0.62	0.65	0.20	1.01	1.01	12.12	4.72	5.04	0.60	0.35	0.99	1.02	0.20	CMS
Runoff	1.68	4.75	5.62	5.00	18.40	76.58	30.52	20.82	6.67	3.49	2.48	2.73	178.73	MCM
Momentary Peak	187.30 CMS. at 337.72 m. (MSL.) at 10.00 Hours , on Sep 8 , 2009													
Runoff Yield	2.94 Liters/Second/Square KM.			Momentary Peak Yield				97.047 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Kuang at Tha Sing Phithak Bridge , Lamphun (P.5)

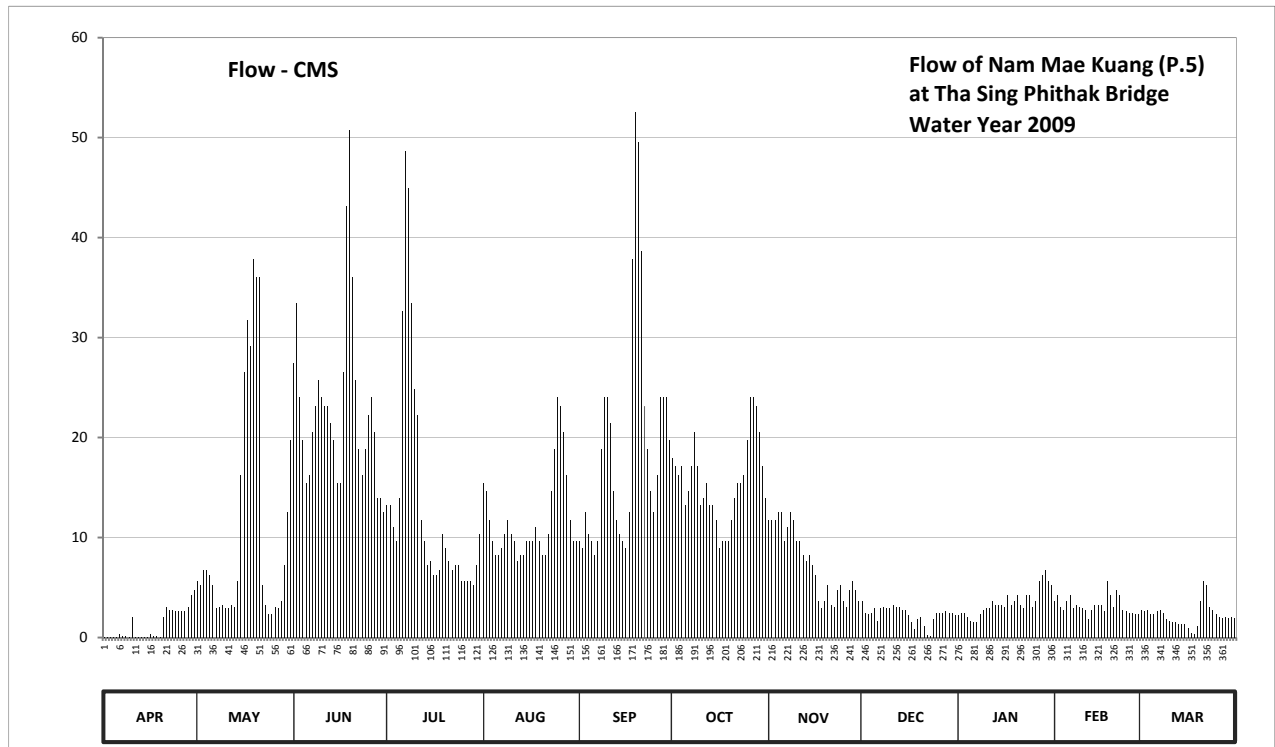
Lat 18 - 34 - 32 N Long 99 - 00 - 44 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	Ban Tha Sing Phithak	Amphoe Mueang	Changwat Lamphun
Drainage Area	1,569 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+288.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+294.592 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1978 - 1992 , 2006 to date		
Rating Operation			
Period of Rating	1978 - 1992 , 2006 to date		
Rated by Flot	-		
Rated by Current Meter	1978 - 1992 , 2006 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.81	291.25	291.54	291.37	291.40	291.32	291.43	291.35	291.21	291.13	291.21	291.17	
2	290.81	291.24	291.61	291.37	291.39	291.31	291.42	291.35	291.15	291.15	291.22	291.16	
3	290.81	291.27	291.50	291.34	291.35	291.36	291.41	291.35	291.14	291.15	291.19	291.17	
4	290.81	291.27	291.45	291.32	291.32	291.33	291.42	291.36	291.15	291.12	291.17	291.14	
5	290.86	291.26	291.40	291.38	291.30	291.32	291.37	291.36	291.18	291.09	291.21	291.14	
6	290.99	291.24	291.41	291.60	291.30	291.30	291.39	291.32	291.09	291.08	291.22	291.16	
7	290.93	291.18	291.46	291.78	291.31	291.32	291.42	291.34	291.18	291.08	291.18	291.17	
8	290.92	291.19	291.49	291.74	291.33	291.44	291.46	291.36	291.19	291.14	291.20	291.15	
9	290.84	291.20	291.52	291.61	291.35	291.50	291.42	291.35	291.18	291.17	291.19	291.10	
10	291.12	291.18	291.50	291.51	291.33	291.50	291.37	291.32	291.18	291.18	291.18	291.09	
11	290.81	291.18	291.49	291.48	291.32	291.47	291.38	291.32	291.20	291.18	291.17	291.08	
12	290.81	291.20	291.49	291.35	291.29	291.39	291.40	291.30	291.19	291.21	291.10	291.08	
13	290.81	291.19	291.47	291.32	291.30	291.35	291.37	291.29	291.19	291.20	291.17	291.07	
14	290.81	291.25	291.45	291.28	291.30	291.33	291.37	291.30	291.17	291.20	291.20	291.07	
15	290.86	291.41	291.40	291.29	291.32	291.32	291.35	291.28	291.17	291.20	291.20	291.07	
16	290.99	291.53	291.40	291.26	291.32	291.31	291.31	291.26	291.13	291.19	291.20	291.04	
17	290.93	291.59	291.53	291.26	291.32	291.36	291.32	291.21	291.08	291.22	291.16	291.00	
18	290.92	291.56	291.72	291.27	291.34	291.66	291.32	291.18	291.03	291.20	291.25	290.98	
19	290.84	291.66	291.81	291.33	291.32	291.87	291.32	291.21	291.10	291.21	291.22	291.05	
20	291.12	291.64	291.64	291.31	291.30	291.79	291.35	291.24	291.12	291.22	291.19	291.21	
21	291.19	291.64	291.52	291.29	291.30	291.67	291.38	291.20	291.05	291.20	291.23	291.25	
22	291.17	291.24	291.44	291.27	291.33	291.49	291.40	291.19	290.96	291.18	291.22	291.24	
23	291.17	291.20	291.41	291.28	291.39	291.44	291.40	291.23	290.93	291.22	291.17	291.19	
24	291.16	291.14	291.44	291.28	291.44	291.39	291.41	291.24	291.10	291.22	291.16	291.17	
25	291.16	291.14	291.48	291.25	291.50	291.36	291.45	291.21	291.15	291.19	291.15	291.14	
26	291.16	291.19	291.50	291.25	291.49	291.41	291.50	291.19	291.15	291.21	291.15	291.12	
27	291.16	291.18	291.46	291.25	291.46	291.50	291.50	291.23	291.15	291.25	291.14	291.11	
28	291.19	291.21	291.38	291.25	291.41	291.50	291.49	291.25	291.16	291.26	291.14	291.12	
29	291.22	291.28	291.38	291.24	291.35	291.50	291.46	291.23	291.15	291.27		291.11	
30	291.23	291.36	291.36	291.28	291.32	291.45	291.42	291.21	291.15	291.25		291.12	
31		291.45		291.33	291.32		291.38		291.13	291.24		291.11	
Mean	290.99	291.31	291.49	291.36	291.35	291.44	291.40	291.27	291.13	291.19	291.19	291.12	
Max	291.23	291.66	291.81	291.78	291.50	291.87	291.50	291.36	291.21	291.27	291.25	291.25	291.87
Min	290.81	291.14	291.36	291.24	291.29	291.30	291.31	291.18	290.93	291.08	291.10	290.98	290.81
Annual Max Momentary Gage Height		291.87	m. (MSL.) ,				at 01.00 Hours , on Sep 19 , 2009						
Zero Gage at Bottom Elevation		288.50	m. (MSL.) ,			River Bed	288.96	m. (MSL)					
Left Bank Elevation		295.79	m. (MSL.) ,										
Right Bank Elevation		295.73	m. (MSL.) ,			Drainage Area	1569	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	5.70	27.44	13.24	15.40	9.64	17.98	11.80	3.70	2.22	3.70	2.78	
2	0.01	5.20	33.47	13.24	14.68	8.92	17.12	11.80	2.50	2.50	4.20	2.64	
3	0.01	6.70	24.00	11.08	11.80	12.52	16.26	11.80	2.36	2.50	3.06	2.78	
4	0.01	6.70	19.70	9.64	9.64	10.36	17.12	12.52	2.50	2.08	2.78	2.36	
5	0.06	6.20	15.40	13.96	8.20	9.64	13.24	12.52	2.92	1.66	3.70	2.36	
6	0.37	5.20	16.26	32.60	8.20	8.20	14.68	9.64	1.66	1.52	4.20	2.64	
7	0.19	2.92	20.56	48.66	8.92	9.64	17.12	11.08	2.92	1.52	2.92	2.78	
8	0.16	3.06	23.14	44.98	10.36	18.84	20.56	12.52	3.06	2.36	3.20	2.50	
9	0.04	3.20	25.72	33.47	11.80	24.00	17.12	11.80	2.92	2.78	3.06	1.80	
10	2.08	2.92	24.00	24.86	10.36	24.00	13.24	9.64	2.92	2.92	2.92	1.66	
11	0.01	2.92	23.14	22.28	9.64	21.42	13.96	9.64	3.20	2.92	2.78	1.52	
12	0.01	3.20	23.14	11.80	7.70	14.68	15.40	8.20	3.06	3.70	1.80	1.52	
13	0.01	3.06	21.42	9.64	8.20	11.80	13.24	7.70	3.06	3.20	2.78	1.38	
14	0.01	5.70	19.70	7.20	8.20	10.36	13.24	8.20	2.78	3.20	3.20	1.38	
15	0.06	16.26	15.40	7.70	9.64	9.64	11.80	7.20	2.78	3.20	3.20	1.38	
16	0.37	26.58	15.40	6.20	9.64	8.92	8.92	6.20	2.22	3.06	3.20	0.96	
17	0.19	31.74	26.58	6.20	9.64	12.52	9.64	3.70	1.52	4.20	2.64	0.40	
18	0.16	29.16	43.14	6.70	11.08	37.82	9.64	2.92	0.82	3.20	5.70	0.34	
19	0.04	37.82	50.80	10.36	9.64	52.60	9.64	3.70	1.80	3.70	4.20	1.10	
20	2.08	36.08	36.08	8.92	8.20	49.58	11.80	5.20	2.08	4.20	3.06	3.70	
21	3.06	36.08	25.72	7.70	8.20	38.69	13.96	3.20	1.10	3.20	4.70	5.70	
22	2.78	5.20	18.84	6.70	10.36	23.14	15.40	3.06	0.28	2.92	4.20	5.20	
23	2.78	3.20	16.26	7.20	14.68	18.84	15.40	4.70	0.19	4.20	2.78	3.06	
24	2.64	2.36	18.84	7.20	18.84	14.68	16.26	5.20	1.80	4.20	2.64	2.78	
25	2.64	2.36	22.28	5.70	24.00	12.52	19.70	3.70	2.50	3.06	2.50	2.36	
26	2.64	3.06	24.00	5.70	23.14	16.26	24.00	3.06	2.50	3.70	2.50	2.08	
27	2.64	2.92	20.56	5.70	20.56	24.00	24.00	4.70	2.50	5.70	2.36	1.94	
28	3.06	3.70	13.96	5.70	16.26	24.00	23.14	5.70	2.64	6.20	2.36	2.08	
29	4.20	7.20	13.96	5.20	11.80	24.00	20.56	4.70	2.50	6.70		1.94	
30	4.70	12.52	12.52	7.20	9.64	19.70	17.12	3.70	2.50	5.70		2.08	
31		19.70		10.36	9.64		13.96		2.22	5.20		1.94	
Total	37.02	338.62	691.43	417.09	368.06	580.93	485.22	219.50	71.51	107.42	90.34	69.14	3476.28 CMSDAY
Mean	1.23	10.92	23.05	13.45	11.87	19.36	15.65	7.32	2.31	3.47	3.23	2.23	9.52 CMS
Max	4.70	37.82	50.80	48.66	24.00	52.60	24.00	12.52	3.70	6.70	5.70	5.70	52.60 CMS
Min	0.01	2.36	12.52	5.20	7.70	8.20	8.92	2.92	0.19	1.52	1.80	0.34	0.01 CMS
Runoff	3.20	29.26	59.74	36.04	31.80	50.19	41.92	18.97	6.18	9.28	7.81	5.97	300.35 MCM
Momentary Peak	52.60 CMS. at 291.87 m. (MSL.) at 01.00 Hours , on Sep 19 , 2009												
Runoff Yield	6.07 Liters/Second/Square KM.			Momentary Peak Yield			33.525 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Huai Yang , Kamphaeng Phet (P.7A)

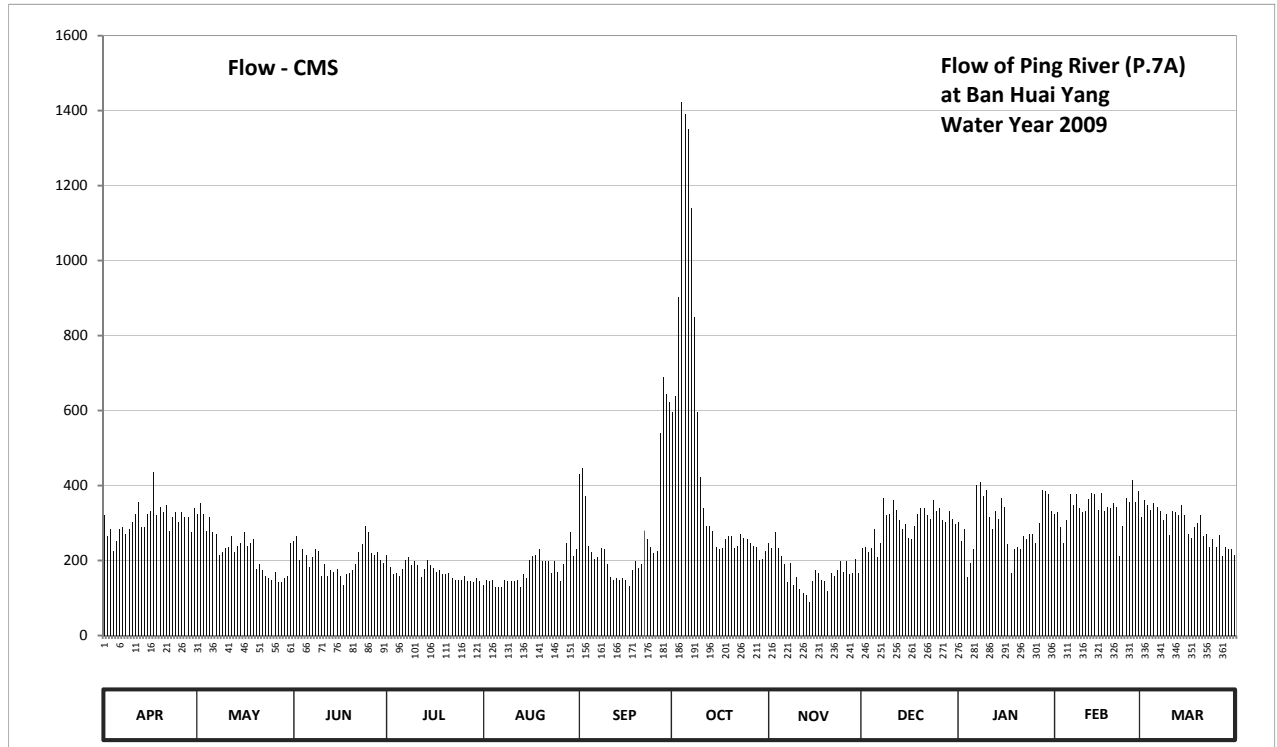
Lat 16 - 28 - 41 N Long 99 - 31 - 19 E

Location : on left bank about 100 meters upstream from the bridge on highway.

	Ban Huai Yang	Amphoe Mueang	Changwat Kamphaeng Phet
Drainage Area	42,464 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+71.730 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage observers house.	Elevation	+82.556 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 means of 5 readings		
Period of Available Gage Records	1960 to date		
Rating Operation			
Period of Rating	1960 - 1961 , 1967 to date		
Rated by Flot	-		
Rated by Current Meter	1960 - 1961 , 1967 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phumiphol Dam reservoir above gage site. Stage-discharge relation defined by 18 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.00	73.01	72.83	72.73	72.50	73.27	73.61	72.82	72.78	72.96	73.01	72.99	
2	72.86	73.08	72.86	72.64	72.54	73.30	73.69	72.78	72.79	72.83	73.02	73.10	
3	72.91	73.01	72.69	72.58	72.53	73.13	74.16	72.89	72.75	72.91	72.92	73.07	
4	72.76	72.90	72.77	72.59	72.54	72.80	75.02	72.78	72.78	72.56	72.82	73.04	
5	72.83	72.99	72.73	72.57	72.48	72.75	74.97	72.72	72.91	72.67	72.97	73.08	
6	72.91	72.89	72.64	72.62	72.48	72.70	74.91	72.66	72.71	72.77	73.14	73.06	
7	72.92	72.88	72.71	72.69	72.48	72.71	74.56	72.52	72.82	73.20	73.07	73.03	
8	72.88	72.73	72.77	72.71	72.54	72.78	74.07	72.67	73.12	73.22	73.14	72.97	
9	72.91	72.75	72.76	72.65	72.53	72.77	73.61	72.50	73.00	73.13	73.05	73.01	
10	72.96	72.78	72.57	72.68	72.53	72.66	73.25	72.56	73.01	73.17	73.02	72.87	
11	73.01	72.79	72.66	72.65	72.53	72.56	73.05	72.47	73.10	72.99	73.03	73.03	
12	73.09	72.86	72.57	72.56	72.54	72.54	72.93	72.44	73.04	72.91	73.11	73.02	
13	72.92	72.75	72.61	72.62	72.48	72.55	72.93	72.42	72.97	73.03	73.15	73.00	
14	72.92	72.80	72.60	72.69	72.58	72.54	72.90	72.37	72.91	72.98	73.14	73.07	
15	73.01	72.82	72.62	72.65	72.55	72.55	72.79	72.53	72.94	73.12	73.04	73.00	
16	73.03	72.89	72.57	72.63	72.69	72.54	72.77	72.61	72.85	73.06	73.15	72.88	
17	73.28	72.80	72.50	72.60	72.72	72.49	72.78	72.59	72.84	72.81	73.03	72.85	
18	73.00	72.82	72.58	72.61	72.73	72.61	72.84	72.54	72.93	72.59	73.06	72.92	
19	73.06	72.84	72.59	72.58	72.77	72.68	72.86	72.53	73.01	72.77	73.05	72.95	
20	73.02	72.62	72.61	72.58	72.68	72.63	72.86	72.45	73.05	72.79	73.08	73.00	
21	73.07	72.66	72.66	72.59	72.68	72.66	72.78	72.59	73.05	72.77	73.06	72.86	
22	72.90	72.61	72.75	72.55	72.68	72.90	72.80	72.57	73.00	72.86	72.72	72.88	
23	72.99	72.57	72.81	72.54	72.59	72.84	72.88	72.61	72.98	72.84	72.93	72.79	
24	73.02	72.55	72.93	72.54	72.68	72.79	72.85	72.68	73.10	72.88	73.12	72.84	
25	72.96	72.54	72.89	72.54	72.60	72.74	72.84	72.60	73.03	72.88	73.09	72.79	
26	73.02	72.60	72.74	72.57	72.53	72.76	72.82	72.68	73.05	72.82	73.23	72.87	
27	72.99	72.52	72.73	72.53	72.66	73.50	72.80	72.58	72.97	72.95	73.09	72.72	
28	72.99	72.52	72.75	72.53	72.82	73.78	72.79	72.59	72.96	73.17	73.16	72.79	
29	72.89	72.55	72.69	72.52	72.89	73.70	72.69	72.70	73.03	73.16		72.77	
30	73.05	72.57	72.67	72.55	72.72	73.66	72.70	72.59	72.98	73.14		72.77	
31		72.82		72.53	72.77		72.76		72.94	73.03		72.73	
Mean	72.97	72.76	72.70	72.60	72.61	72.86	73.27	72.60	72.95	72.93	73.05	72.93	
Max	73.28	73.08	72.93	72.73	72.89	73.78	75.02	72.89	73.12	73.22	73.23	73.10	75.02
Min	72.76	72.52	72.50	72.52	72.48	72.49	72.69	72.37	72.71	72.56	72.72	72.72	72.37
Annual Max Momentary Gage Height		75.03		m. (MSL.) ,			at 18.00 Hours , on Oct 4 , 2009						
Zero Gage at Bottom Elevation		71.73		m. (MSL.) ,		River Bed	67.51		m. (MSL)				
Left Bank Elevation		77.19		m. (MSL.) ,									
Right Bank Elevation		77.87		m. (MSL.) ,		Drainage Area	42464		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.00	324.00	252.00	215.50	135.00	431.50	595.50	248.00	233.00	304.00	324.00	316.00	
2	264.00	352.00	264.00	184.00	149.00	445.00	639.50	233.00	236.50	252.00	328.00	360.00	
3	284.00	324.00	201.50	163.00	145.50	372.00	901.00	276.00	222.50	284.00	288.00	348.00	
4	226.00	280.00	229.50	166.50	149.00	240.00	1423.00	233.00	233.00	156.00	248.00	336.00	
5	252.00	316.00	215.50	159.50	128.00	222.50	1390.50	212.00	284.00	194.50	308.00	352.00	
6	284.00	276.00	184.00	177.00	128.00	205.00	1351.50	191.00	208.50	229.50	376.00	344.00	
7	288.00	272.00	208.50	201.50	128.00	208.50	1141.00	142.00	248.00	400.00	348.00	332.00	
8	272.00	215.50	229.50	208.50	149.00	233.00	848.50	194.50	368.00	409.00	376.00	308.00	
9	284.00	222.50	226.00	187.50	145.50	229.50	595.50	135.00	320.00	372.00	340.00	324.00	
10	304.00	233.00	159.50	198.00	145.50	191.00	422.50	156.00	324.00	388.00	328.00	268.00	
11	324.00	236.50	191.00	187.50	145.50	156.00	340.00	124.50	360.00	316.00	332.00	332.00	
12	356.00	264.00	159.50	156.00	149.00	149.00	292.00	114.00	336.00	284.00	364.00	328.00	
13	288.00	222.50	173.50	177.00	128.00	152.50	292.00	107.00	308.00	332.00	380.00	320.00	
14	288.00	240.00	170.00	201.50	163.00	149.00	280.00	89.50	284.00	312.00	376.00	348.00	
15	324.00	248.00	177.00	187.50	152.50	152.50	236.50	145.50	296.00	368.00	336.00	320.00	
16	332.00	276.00	159.50	180.50	201.50	149.00	229.50	173.50	260.00	344.00	380.00	272.00	
17	436.00	240.00	135.00	170.00	212.00	131.50	233.00	166.50	256.00	244.00	332.00	260.00	
18	320.00	248.00	163.00	173.50	215.50	173.50	256.00	149.00	292.00	166.50	344.00	288.00	
19	344.00	256.00	166.50	163.00	229.50	198.00	264.00	145.50	324.00	229.50	340.00	300.00	
20	328.00	177.00	173.50	163.00	198.00	180.50	264.00	117.50	340.00	236.50	352.00	320.00	
21	348.00	191.00	191.00	166.50	198.00	191.00	233.00	166.50	340.00	229.50	344.00	264.00	
22	280.00	173.50	222.50	152.50	198.00	280.00	240.00	159.50	320.00	264.00	212.00	272.00	
23	316.00	159.50	244.00	149.00	166.50	256.00	272.00	173.50	312.00	256.00	292.00	236.50	
24	328.00	152.50	292.00	149.00	198.00	236.50	260.00	198.00	360.00	272.00	368.00	256.00	
25	304.00	149.00	276.00	149.00	170.00	219.00	256.00	170.00	332.00	272.00	356.00	236.50	
26	328.00	170.00	219.00	159.50	145.50	226.00	248.00	198.00	340.00	248.00	413.50	268.00	
27	316.00	142.00	215.50	145.50	191.00	540.00	240.00	163.00	308.00	300.00	356.00	212.00	
28	316.00	142.00	222.50	145.50	248.00	689.00	236.50	166.50	304.00	388.00	384.00	236.50	
29	276.00	152.50	201.50	142.00	276.00	645.00	201.50	205.00	332.00	384.00		229.50	
30	340.00	159.50	194.50	152.50	212.00	623.00	205.00	166.50	312.00	376.00		229.50	
31		248.00		145.50	229.50		226.00		296.00	332.00		215.50	
Total	9270.00	7062.50	6117.00	5277.00	5429.50	8275.00	14613.50	5119.50	9289.50	9143.00	9525.50	9032.00	98154.00
Mean	309.00	227.80	203.90	170.20	175.10	275.80	471.40	170.60	299.70	294.90	340.20	291.40	268.90
Max	436.00	352.00	292.00	215.50	276.00	689.00	1423.00	276.00	368.00	409.00	413.50	360.00	1423.00
Min	226.00	142.00	135.00	142.00	128.00	131.50	201.50	89.50	208.50	156.00	212.00	212.00	89.50
Runoff	800.93	610.20	528.51	455.93	469.11	714.96	1262.61	442.32	802.61	789.96	823.00	780.36	8480.51
Momentary Peak	1429.50 CMS. at 75.03 m. (MSL) at 18.00 Hours , on Oct 4 , 2009												
Runoff Yield	6.33 Liters/Second/Square KM.			Momentary Peak Yield				33.664 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Wang Kra Chao , Tak (P.12C)

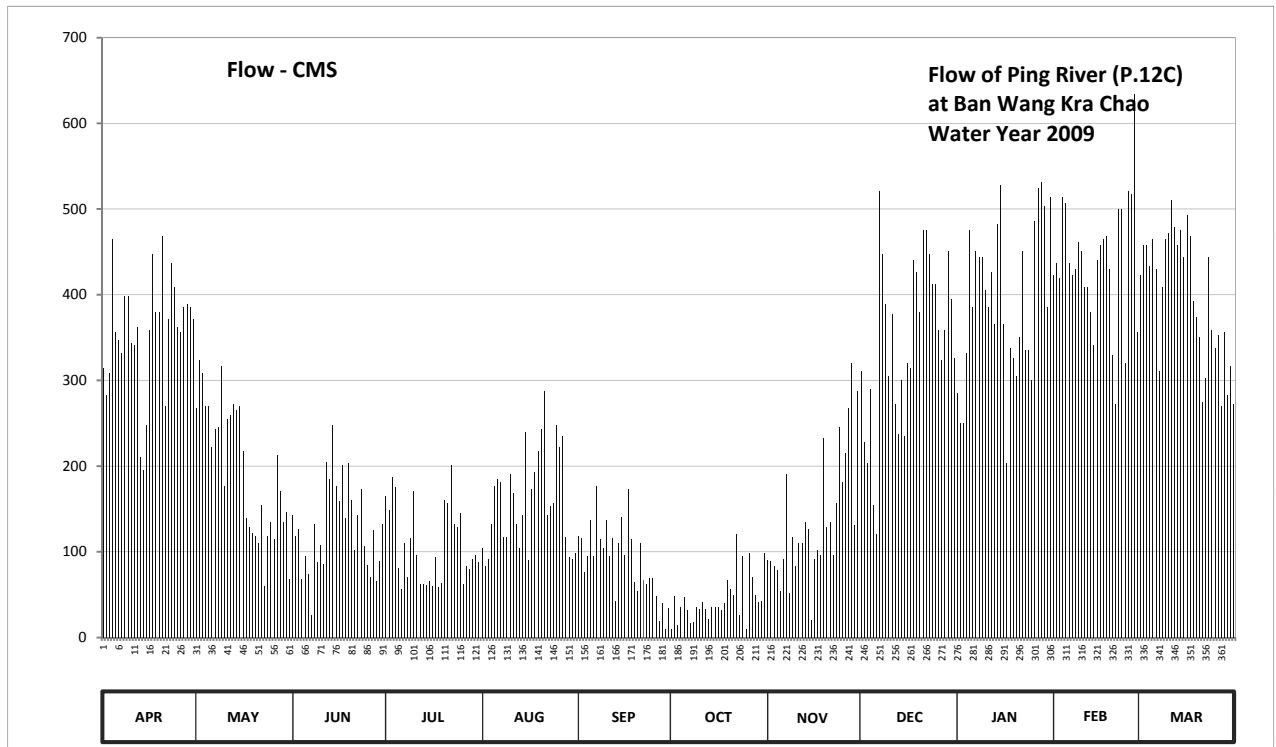
Lat 17 - 14 - 17 N Long 99 - 01 - 32 E

Location : on right bank about 3 kilometers from Phumiphol Dam reservoir.

	Ban Wang Kra Chao	Amphoe Sam Ngao	Changwat Tak
Drainage Area	26,241 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+129.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the pier of the bridge.	Elevation	+136.995 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 means of 5 readings		
Period of Available Gage Records	1995 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phumiphol Dam reservoir downstream from the gage site. Stage-discharge relation defined by 13 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.13	130.95	130.39	130.50	130.16	130.26	129.20	130.07	131.12	131.02	131.48	131.48	
2	131.01	131.16	130.26	130.42	130.02	130.24	129.68	130.06	130.79	130.88	131.52	131.58	
3	131.11	131.11	130.31	130.61	130.08	129.96	129.28	130.02	130.69	130.88	131.47	131.58	
4	131.60	130.96	129.88	130.55	130.34	130.10	129.55	129.99	131.04	131.19	131.74	131.51	
5	131.27	130.96	130.10	130.01	130.56	130.36	129.67	129.74	130.45	131.63	131.72	131.60	
6	131.24	130.77	129.94	129.76	130.60	130.10	129.52	130.08	130.27	131.37	131.52	131.50	
7	131.19	130.85	129.46	130.20	130.58	130.56	129.33	130.63	131.76	131.56	131.48	131.12	
8	131.41	130.86	130.34	129.90	130.25	130.23	129.36	129.72	131.55	131.54	131.50	131.44	
9	131.41	131.14	130.05	130.24	130.25	130.16	129.56	130.25	131.38	131.54	131.59	131.60	
10	131.23	130.56	130.19	130.53	130.63	130.36	129.53	130.02	131.10	131.43	131.56	131.62	
11	131.22	130.90	130.04	130.11	130.52	130.10	129.61	130.20	131.34	131.37	131.44	131.73	
12	131.29	130.92	130.70	129.82	130.34	130.24	129.53	130.20	130.97	131.49	131.44	131.64	
13	130.72	130.97	130.60	129.82	130.16	129.63	129.42	130.35	130.83	131.30	131.35	131.58	
14	130.65	130.94	130.87	129.81	130.39	130.20	129.55	130.31	131.08	131.65	131.22	131.63	
15	130.87	130.96	130.56	129.86	130.84	130.38	129.56	129.40	130.82	131.78	131.53	131.54	
16	131.28	130.75	130.47	129.80	130.07	130.11	129.56	130.08	131.15	131.30	131.58	131.68	
17	131.55	130.37	130.68	130.09	130.54	130.54	129.52	130.15	131.13	130.69	131.60	131.61	
18	131.35	130.32	130.37	129.79	130.64	130.23	129.60	130.11	131.53	131.21	131.61	131.39	
19	131.35	130.28	130.69	129.84	130.75	129.85	129.87	130.81	131.49	131.17	131.50	131.33	
20	131.61	130.26	130.48	130.48	130.85	129.74	129.76	130.32	131.35	131.10	131.18	131.25	
21	130.96	130.20	130.15	130.46	131.03	130.20	129.70	130.35	131.63	131.25	130.97	130.98	
22	131.32	130.45	130.39	130.68	130.39	129.87	130.27	130.11	131.63	131.56	131.70	131.09	
23	131.52	129.80	130.54	130.34	130.44	129.82	129.46	130.46	131.55	131.20	131.70	131.54	
24	131.44	130.26	130.18	130.32	130.46	129.89	130.10	130.86	131.45	131.20	131.15	131.28	
25	131.29	130.35	130.03	130.40	130.87	129.89	129.20	130.58	131.45	131.08	131.76	131.21	
26	131.27	130.23	129.90	129.82	130.77	129.68	130.12	130.74	131.28	131.66	131.75	131.26	
27	131.37	130.73	130.30	130.02	130.82	129.38	129.91	130.95	131.16	131.77	132.06	130.96	
28	131.38	130.53	129.86	130.00	130.25	129.60	129.70	131.15	131.28	131.79	131.27	131.27	
29	131.37	130.35	130.06	130.08	130.09	129.20	129.61	130.33	131.56	131.71		131.01	
30	131.32	130.41	130.34	130.11	130.08	129.54	129.62	131.03	131.40	131.37		131.14	
31		129.88		130.05	130.12		130.12		131.17	131.74		130.97	
Mean	131.26	130.62	130.27	130.14	130.45	130.01	129.63	130.30	131.21	131.37	131.51	131.39	
Max	131.61	131.16	130.87	130.68	131.03	130.56	130.27	131.15	131.76	131.79	132.06	131.73	132.06
Min	130.65	129.80	129.46	129.76	130.02	129.20	129.20	129.40	130.27	130.69	130.97	130.96	129.20
Annual Max Momentary Gage Height		132.90	m. (MSL.) ,				at 15.00 Hours , on Feb 2 , 2009						
Zero Gage at Bottom Elevation		129.00	m. (MSL.) ,			River Bed	127.67	m. (MSL)					
Left Bank Elevation			133.27	m. (MSL.) ,									
Right Bank Elevation			134.32	m. (MSL.) ,		Drainage Area	26241	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	314.00	267.50	143.00	165.00	104.00	119.00	10.00	90.50	311.00	285.00	423.00	423.00	
2	282.50	323.00	119.00	149.00	83.00	116.00	48.00	89.00	227.50	250.00	437.00	458.00	
3	308.00	308.00	127.00	187.00	92.00	76.00	14.00	83.00	203.00	250.00	419.50	458.00	
4	465.00	270.00	68.00	175.00	133.00	95.00	35.00	79.00	290.00	332.00	514.00	433.50	
5	356.00	270.00	95.00	81.50	177.00	137.00	47.00	54.00	155.00	475.50	507.00	465.00	
6	347.00	222.50	74.00	56.00	185.00	95.00	32.00	92.00	120.50	386.00	437.00	430.00	
7	332.00	242.50	26.00	110.00	181.00	177.00	16.50	191.00	521.00	451.00	423.00	311.00	
8	398.50	245.00	133.00	70.00	117.50	114.50	18.00	52.00	447.50	444.00	430.00	409.00	
9	398.50	317.00	87.50	116.00	117.50	104.00	36.00	117.50	389.00	444.00	461.50	465.00	
10	344.00	177.00	108.50	171.00	191.00	137.00	33.00	83.00	305.00	405.50	451.00	472.00	
11	341.00	255.00	86.00	96.50	169.00	95.00	41.00	110.00	377.00	386.00	409.00	510.50	
12	362.00	260.00	205.00	62.00	133.00	116.00	33.00	110.00	272.50	426.50	409.00	479.00	
13	210.00	272.50	185.00	62.00	104.00	43.00	22.00	135.00	237.50	365.00	380.00	458.00	
14	195.00	265.00	247.50	61.00	143.00	110.00	35.00	127.00	300.00	482.50	341.00	475.50	
15	247.50	270.00	177.00	66.00	240.00	141.00	36.00	20.00	235.00	528.00	440.50	444.00	
16	359.00	217.50	159.00	60.00	90.50	96.50	36.00	92.00	320.00	365.00	458.00	493.00	
17	447.50	139.00	201.00	93.50	173.00	173.00	32.00	102.50	314.00	203.00	465.00	468.50	
18	380.00	129.00	139.00	59.00	193.00	114.50	40.00	96.50	440.50	338.00	468.50	392.00	
19	380.00	122.00	203.00	64.00	217.50	65.00	67.00	232.50	426.50	326.00	430.00	374.00	
20	468.50	119.00	161.00	161.00	242.50	54.00	56.00	129.00	380.00	305.00	329.00	350.00	
21	270.00	110.00	102.50	157.00	287.50	110.00	50.00	135.00	475.50	350.00	272.50	275.00	
22	371.00	155.00	143.00	201.00	143.00	67.00	120.50	96.50	475.50	451.00	500.00	302.50	
23	437.00	60.00	173.00	133.00	153.00	62.00	26.00	157.00	447.50	335.00	500.00	444.00	
24	409.00	119.00	107.00	129.00	157.00	69.00	95.00	245.00	412.50	335.00	320.00	359.00	
25	362.00	135.00	84.50	145.00	247.50	69.00	10.00	181.00	412.50	300.00	521.00	338.00	
26	356.00	114.50	70.00	62.00	222.50	48.00	98.00	215.00	359.00	486.00	517.50	353.00	
27	386.00	212.50	125.00	83.00	235.00	19.00	71.00	267.50	323.00	524.50	634.00	270.00	
28	389.00	171.00	66.00	80.00	117.50	40.00	50.00	320.00	359.00	531.50	356.00	356.00	
29	386.00	135.00	89.00	92.00	93.50	10.00	41.00	131.00	451.00	503.50		282.50	
30	371.00	147.00	133.00	96.50	92.00	34.00	42.00	287.50	395.00	386.00		317.00	
31		68.00		87.50	98.00		98.00		326.00	514.00		272.50	
Total	10673.00	6118.50	3837.50	3331.50	4933.00	2706.50	1389.00	4121.00	10709.00	12164.50	12254.00	84576.00	CMSDAY
Mean	355.80	197.40	127.90	107.50	159.10	90.20	44.80	137.40	345.50	392.40	437.60	231.70	CMS
Max	468.50	323.00	247.50	201.00	287.50	177.00	120.50	320.00	521.00	531.50	634.00	634.00	CMS
Min	195.00	60.00	26.00	56.00	83.00	10.00	10.00	20.00	120.50	203.00	272.50	10.00	CMS
Runoff	922.15	528.64	331.56	287.84	426.21	233.84	120.01	356.05	925.26	1051.01	1058.75	7307.37	MCM
Momentary Peak	990.00 CMS. at 132.90 m. (MSL.) at 15.00 Hours , on Feb 2 , 2009												
Runoff Yield	8.83 Liters/Second/Square KM.			Momentary Peak Yield				37.727 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Wat Sri Phirom , Kamphaeng Phet (P.15)

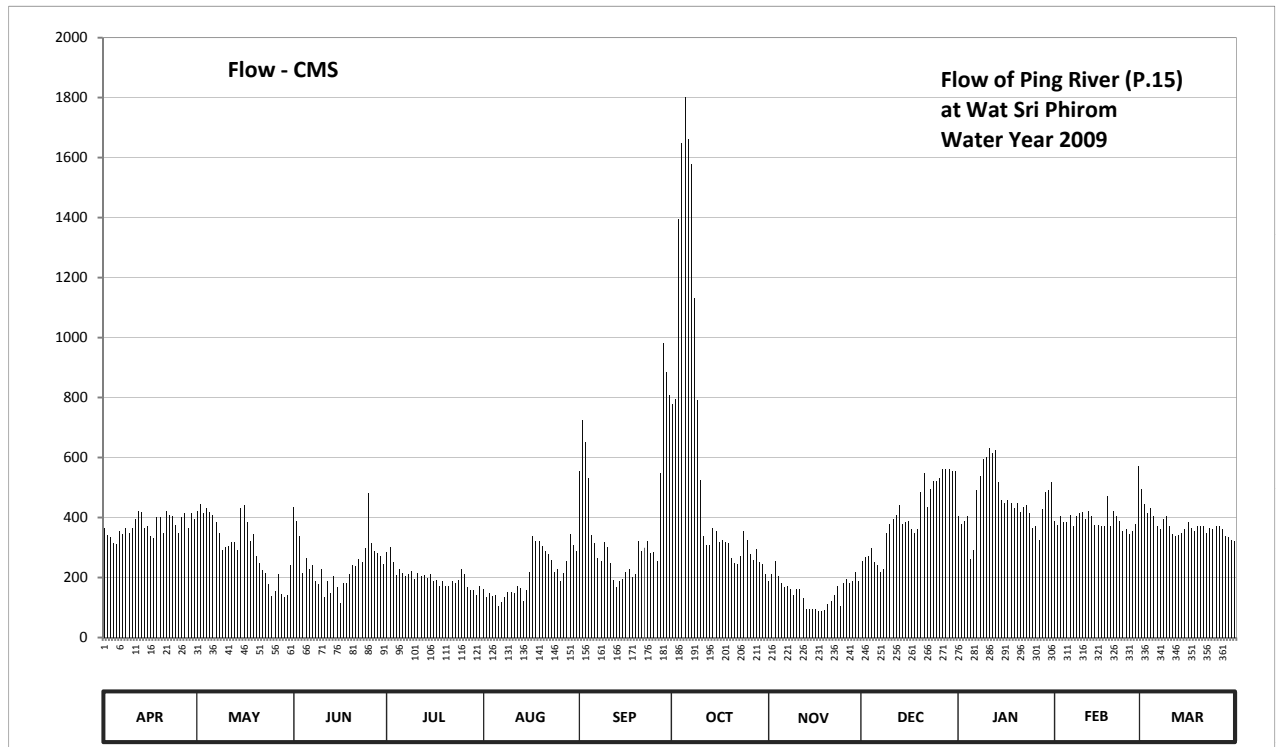
Lat 16 - 12 - 52 N Long 99 - 43 - 24 E

Location : on right bank in front of Amphoe Khlong Khlung Office.

	Ban Wat Sri Phirom	Amphoe Khlong Khlung	Changwat Kamphaeng Phet
Drainage Area	44,461 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+51.555 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 30 meters from the south of Wat Sri Phirom.	Elevation	+56.617 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 means of 5 readings		
Period of Available Gage Records	1954 to date		
Rating Operation			
Period of Rating	1964 - 1974 , 1997 to date		
Rated by Flot	-		
Rated by Current Meter	1964 - 1974 , 1997 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.53	53.65	53.68	53.29	52.87	53.94	54.38	52.98	53.20	53.61	53.58	53.81	
2	53.47	53.70	53.58	53.35	52.76	54.29	54.41	53.05	53.24	53.56	53.55	53.70	
3	53.45	53.63	53.46	53.19	52.81	54.14	55.35	53.20	53.25	53.58	53.61	53.63	
4	53.39	53.67	53.07	53.04	52.77	53.89	55.71	53.03	53.34	53.61	53.57	53.67	
5	53.38	53.64	53.23	53.11	52.79	53.47	55.93	52.95	53.19	53.22	53.57	53.61	
6	53.51	53.62	53.11	53.07	52.63	53.39	55.73	52.89	53.16	53.32	53.62	53.54	
7	53.48	53.57	53.15	53.03	52.69	53.23	55.61	52.90	53.08	53.80	53.54	53.52	
8	53.53	53.49	52.97	53.06	52.76	53.20	54.97	52.86	53.11	53.91	53.61	53.59	
9	53.49	53.32	52.93	53.09	52.83	53.40	54.40	52.79	53.50	54.03	53.63	53.61	
10	53.53	53.35	53.11	53.00	52.83	53.35	53.88	52.86	53.56	54.04	53.64	53.54	
11	53.59	53.36	52.76	53.07	52.82	53.18	53.46	52.86	53.59	54.10	53.59	53.48	
12	53.65	53.40	52.98	53.03	52.90	52.99	53.37	52.75	53.62	54.07	53.65	53.46	
13	53.64	53.40	52.82	53.04	52.88	52.89	53.37	52.58	53.69	54.09	53.61	53.47	
14	53.53	53.32	53.03	53.01	52.70	52.97	53.53	52.58	53.56	53.86	53.55	53.50	
15	53.54	53.67	52.89	53.06	52.85	53.00	53.51	52.57	53.57	53.73	53.55	53.52	
16	53.46	53.69	52.68	52.98	53.08	53.08	53.40	52.57	53.58	53.71	53.54	53.57	
17	53.44	53.57	52.94	52.99	53.46	53.11	53.42	52.54	53.52	53.73	53.54	53.53	
18	53.60	53.41	52.95	52.90	53.41	53.02	53.40	52.54	53.49	53.71	53.76	53.51	
19	53.60	53.48	53.05	52.97	53.41	53.06	53.39	52.56	53.52	53.67	53.54	53.54	
20	53.50	53.25	53.16	52.91	53.36	53.41	53.23	52.66	53.79	53.71	53.65	53.54	
21	53.65	53.18	53.14	52.90	53.30	53.30	53.18	52.70	53.93	53.64	53.61	53.54	
22	53.62	53.10	53.22	52.97	53.27	53.34	53.17	52.78	53.68	53.68	53.58	53.50	
23	53.61	53.07	53.19	52.94	53.21	53.41	53.25	52.91	53.81	53.69	53.51	53.53	
24	53.55	52.93	53.34	52.99	53.08	53.28	53.51	52.63	53.87	53.63	53.52	53.52	
25	53.49	52.77	53.78	53.11	53.11	53.29	53.42	52.94	53.87	53.53	53.48	53.54	
26	53.60	52.84	53.39	53.05	52.98	53.20	53.27	53.00	53.89	53.54	53.51	53.54	
27	53.63	53.05	53.30	52.89	53.07	53.93	53.21	52.94	53.96	53.42	53.56	53.52	
28	53.53	52.80	53.28	52.85	53.20	54.72	53.33	52.98	53.96	53.66	53.98	53.46	
29	53.63	52.76	53.25	52.85	53.48	54.56	53.19	53.08	53.96	53.79		53.45	
30	53.59	52.79	53.17	52.78	53.37	54.43	53.17	52.98	53.94	53.80		53.42	
31		53.15		52.90	53.30		53.06		53.94	53.86		53.41	
Mean	53.54	53.31	53.15	53.01	53.03	53.48	53.88	52.82	53.59	53.72	53.59	53.54	
Max	53.65	53.70	53.78	53.35	53.48	54.72	55.93	53.20	53.96	54.10	53.98	53.81	55.93
Min	53.38	52.76	52.68	52.78	52.63	52.89	53.06	52.54	53.08	53.22	53.48	53.41	52.54
Annual Max Momentary Gage Height	55.99		m. (MSL.) ,				at 18.00 Hours , on Oct 4 , 2009						
Zero Gage at Bottom Elevation	51.56		m. (MSL.) ,			River Bed	48.73		m. (MSL)				
Left Bank Elevation	57.48		m. (MSL.) ,										
Right Bank Elevation	57.53		m. (MSL.) ,			Drainage Area	44461		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	365.00	422.50	436.00	283.50	162.50	553.00	778.00	190.00	255.00	404.50	390.00	494.50		
2	340.50	445.00	390.00	302.50	135.00	725.00	796.00	210.00	267.70	380.00	375.00	445.00		
3	334.20	413.50	337.30	252.00	147.50	650.00	1395.00	255.00	270.80	390.00	404.50	413.50		
4	315.20	431.50	216.00	207.00	137.50	530.50	1647.00	204.00	299.30	404.50	385.00	431.50		
5	312.00	418.00	264.50	228.00	142.50	340.50	1801.00	182.50	252.00	261.30	385.00	404.50		
6	355.00	409.00	228.00	216.00	106.00	315.20	1661.00	167.50	243.00	293.00	409.00	370.00		
7	343.70	385.00	240.00	204.00	118.00	264.50	1577.00	170.00	219.00	490.00	370.00	360.00		
8	365.00	346.80	187.50	213.00	135.00	255.00	1132.00	160.00	228.00	539.50	404.50	395.00		
9	346.80	293.00	177.50	222.00	152.50	318.30	790.00	142.50	350.00	595.00	413.50	404.50		
10	365.00	302.50	228.00	195.00	152.50	302.50	526.00	160.00	380.00	600.00	418.00	370.00		
11	395.00	305.70	135.00	216.00	150.00	249.00	337.30	160.00	395.00	630.00	395.00	343.70		
12	422.50	318.30	190.00	204.00	170.00	192.50	308.80	132.50	409.00	615.00	422.50	337.30		
13	418.00	318.30	150.00	207.00	165.00	167.50	308.80	96.00	440.50	625.00	404.50	340.50		
14	365.00	293.00	204.00	198.00	120.00	187.50	365.00	96.00	380.00	517.00	375.00	350.00		
15	370.00	431.50	167.50	213.00	157.50	195.00	355.00	94.00	385.00	458.50	375.00	360.00		
16	337.30	440.50	116.00	190.00	219.00	219.00	318.30	94.00	390.00	449.50	370.00	385.00		
17	331.00	385.00	180.00	192.50	337.30	228.00	324.70	88.00	360.00	458.50	370.00	365.00		
18	400.00	321.50	182.50	170.00	321.50	201.00	318.30	88.00	346.80	449.50	472.00	355.00		
19	400.00	343.70	210.00	187.50	321.50	213.00	315.20	92.00	360.00	431.50	370.00	370.00		
20	350.00	270.80	243.00	172.50	305.70	321.50	264.50	112.00	485.50	449.50	422.50	370.00		
21	422.50	249.00	237.00	170.00	286.70	286.70	249.00	120.00	548.50	418.00	404.50	370.00		
22	409.00	225.00	261.30	187.50	277.20	299.30	246.00	140.00	436.00	436.00	390.00	350.00		
23	404.50	216.00	252.00	180.00	258.20	321.50	270.80	172.50	494.50	440.50	355.00	365.00		
24	375.00	177.50	299.30	192.50	219.00	280.30	355.00	106.00	521.50	413.50	360.00	360.00		
25	346.80	137.50	481.00	228.00	228.00	283.50	324.70	180.00	521.50	365.00	343.70	370.00		
26	400.00	155.00	315.20	210.00	190.00	255.00	277.20	195.00	530.50	370.00	355.00	370.00		
27	413.50	210.00	286.70	167.50	216.00	548.50	258.20	180.00	562.00	324.70	380.00	360.00		
28	365.00	145.00	280.30	157.50	255.00	982.00	296.20	190.00	562.00	427.00	571.00	337.30		
29	413.50	135.00	270.80	157.50	343.70	886.00	252.00	219.00	562.00	485.50		334.20		
30	395.00	142.50	246.00	140.00	308.80	808.00	246.00	190.00	553.00	490.00		324.70		
31		240.00		170.00	286.70		213.00		553.00	517.00		321.50		
Total	11176.00	9327.60	7412.40	6234.00	6525.80	11379.30	18307.00	4586.50	12561.10	14129.00	11090.20	11527.70	124256.60	CMSDAY
Mean	372.50	300.90	247.10	201.10	210.50	379.30	590.50	152.90	405.20	455.80	396.10	371.90	340.40	CMS
Max	422.50	445.00	481.00	302.50	343.70	982.00	1801.00	255.00	562.00	630.00	571.00	494.50	1801.00	CMS
Min	312.00	135.00	116.00	140.00	106.00	167.50	213.00	88.00	219.00	261.30	343.70	321.50	88.00	CMS
Runoff	965.61	805.9	640.43	538.62	563.83	983.17	1581.72	396.27	1085.28	1220.75	958.19	995.99	10735.77	MCM
Momentary Peak	1843.00 CMS. at 55.99 m. (MSL.) at 18.00 Hours , on Oct 4 , 2009													
Runoff Yield	7.66 Liters/Second/Square KM.			Momentary Peak Yield				41.452 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban San Tor , Kamphaeng Phet (P.16)

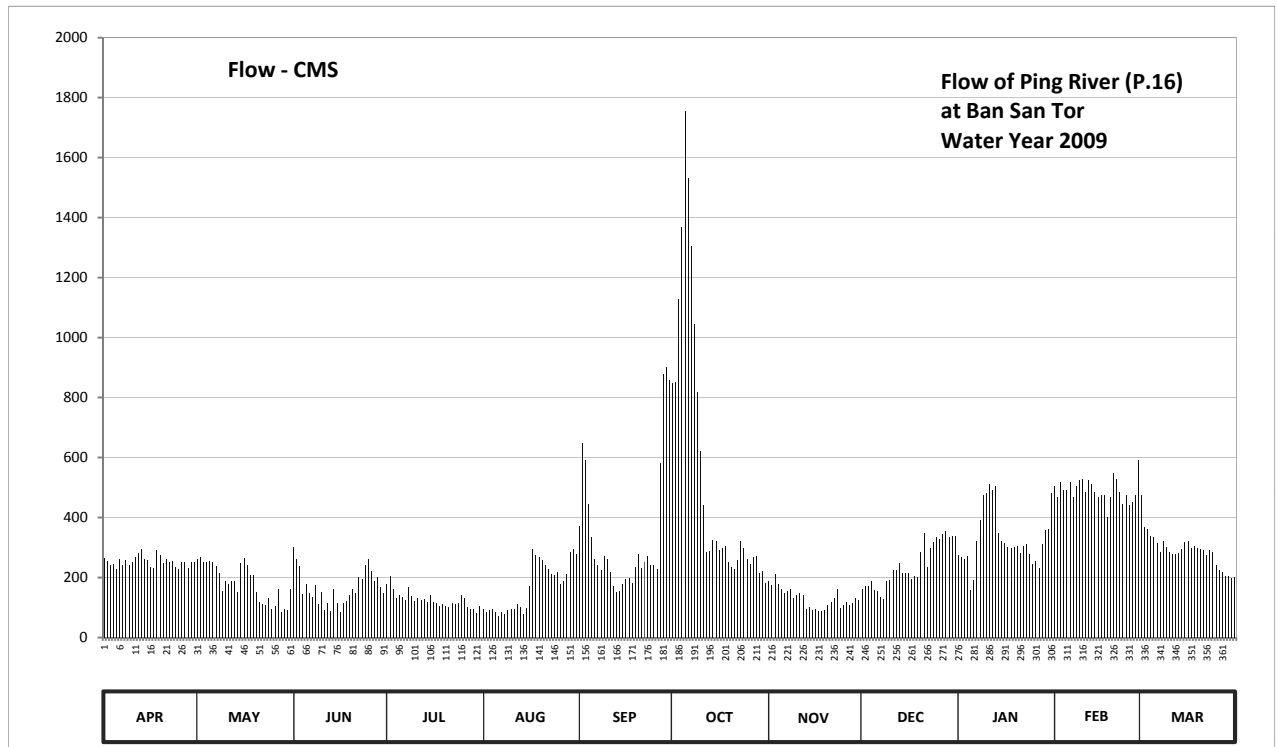
Lat 16 - 03 - 45 N Long 99 - 51 - 48 E

Location : on right bank behind the Post Office.

	Ban San Tor	Amphoe Khanu	Changwat Kamphaeng Phet
Drainage Area	45,076	sq.km.	
Type of Gage	Staff gage.		
Zero Gage at Bottom	+41.780	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the automatic gage building.		Elevation +46.604 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 means of 5 readings		
Period of Available Gage Records	1954 to date		
Rating Operation			
Period of Rating	1960 , 1967 - 1974 , 1990 to date		
Rated by Flot	-		
Rated by Current Meter	1960 , 1964 - 1975 , 1979 , 1990 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.34	41.32	41.48	40.99	40.57	41.73	43.05	41.03	41.47	41.84	42.31	42.26	
2	41.30	41.36	41.33	41.10	40.51	42.53	43.06	40.97	41.50	41.82	42.25	42.06	
3	41.25	41.28	41.23	40.91	40.55	42.37	43.72	41.13	41.51	41.80	42.33	42.05	
4	41.26	41.29	40.84	40.77	40.56	41.96	44.26	40.99	41.57	41.83	42.29	42.00	
5	41.19	41.30	40.99	40.82	40.51	41.60	45.08	40.92	41.45	41.45	42.29	41.99	
6	41.33	41.28	40.86	40.79	40.42	41.33	44.61	40.86	41.43	41.58	42.33	41.94	
7	41.25	41.23	40.80	40.75	40.51	41.25	44.12	40.88	41.34	41.96	42.25	41.87	
8	41.31	41.14	40.97	40.95	40.47	41.18	43.53	40.91	41.30	42.11	42.31	41.96	
9	41.25	40.88	40.66	40.81	40.54	41.37	42.98	40.78	41.57	42.26	42.34	41.91	
10	41.29	41.03	40.87	40.72	40.56	41.32	42.46	40.82	41.58	42.27	42.35	41.87	
11	41.36	40.99	40.55	40.77	40.57	41.15	41.95	40.85	41.70	42.32	42.28	41.85	
12	41.41	41.03	40.69	40.75	40.66	40.96	41.42	40.82	41.70	42.29	42.34	41.85	
13	41.45	41.04	40.53	40.76	40.61	40.87	41.43	40.57	41.77	42.31	42.32	41.86	
14	41.33	40.87	40.91	40.70	40.46	40.88	41.57	40.60	41.66	42.02	42.28	41.89	
15	41.31	41.27	40.68	40.82	40.59	40.99	41.55	40.55	41.66	41.96	42.25	41.95	
16	41.22	41.34	40.52	40.70	40.96	41.06	41.44	41.10	41.66	41.94	42.26	41.96	
17	41.21	41.24	40.69	40.68	41.45	41.07	41.47	41.05	41.59	41.91	42.26	41.90	
18	41.44	41.11	40.72	40.62	41.38	41.01	41.49	41.05	41.63	41.90	42.13	41.92	
19	41.38	41.11	40.83	40.67	41.36	41.22	41.28	41.06	41.61	41.91	42.25	41.90	
20	41.27	40.87	40.92	40.62	41.31	41.39	41.22	41.18	41.87	41.92	42.38	41.89	
21	41.32	40.71	40.86	40.60	41.24	41.21	41.19	41.24	42.02	41.86	42.35	41.88	
22	41.29	40.67	41.09	40.69	41.20	41.29	41.31	41.32	41.73	41.92	42.28	41.84	
23	41.30	40.65	41.06	40.67	41.13	41.37	41.55	41.46	41.90	41.93	42.21	41.88	
24	41.22	40.77	41.24	40.69	41.11	41.24	41.47	41.12	41.95	41.85	42.26	41.87	
25	41.20	40.57	41.33	40.83	41.15	41.25	41.33	41.20	41.99	41.76	42.20	41.75	
26	41.29	40.63	41.17	40.77	40.99	41.19	41.26	41.25	41.97	41.79	42.22	41.69	
27	41.29	40.92	41.03	40.61	41.04	42.35	41.35	41.19	42.01	41.72	42.26	41.67	
28	41.21	40.52	41.08	40.58	41.13	43.13	41.37	41.22	42.03	41.93	42.44	41.62	
29	41.29	40.56	40.94	40.58	41.42	43.18	41.14	41.32	41.99	42.04		41.62	
30	41.29	40.54	40.86	40.49	41.46	43.08	41.17	41.29	42.00	42.05		41.60	
31		40.92		40.62	41.39		41.00		42.00	42.27		41.61	
Mean	41.30	40.98	40.92	40.74	40.90	41.55	42.12	41.02	41.71	41.95	42.29	41.87	
Max	41.45	41.36	41.48	41.10	41.46	43.18	45.08	41.46	42.03	42.32	42.44	42.26	45.08
Min	41.19	40.52	40.52	40.49	40.42	40.87	41.00	40.55	41.30	41.45	42.13	41.60	40.42
Annual Max Momentary Gage Height	45.12		m. (MSL.) ,				at 09.00 Hours , on Oct 5 , 2009						
Zero Gage at Bottom Elevation	41.78		m. (MSL.) ,			River Bed	36.36	m. (MSL)					
Left Bank Elevation	49.12		m. (MSL.) ,										
Right Bank Elevation	51.45		m. (MSL.) ,			Drainage Area	45076	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.00	260.00	301.60	177.80	94.90	373.00	847.00	187.50	163.10	275.20	504.20	474.80	
2	255.00	270.00	262.50	205.00	84.70	646.40	851.00	173.40	170.00	267.60	469.00	367.60	
3	242.50	250.00	237.50	160.20	91.50	589.50	1127.60	212.50	172.80	260.00	516.60	363.00	
4	245.00	252.50	144.80	130.30	93.20	446.40	1368.60	177.80	189.60	271.40	492.20	340.00	
5	227.50	255.00	177.80	140.40	84.70	334.00	1753.60	162.40	158.50	158.50	492.20	335.80	
6	262.50	250.00	149.20	134.10	71.00	262.50	1532.70	149.20	153.90	192.40	516.60	314.80	
7	242.50	237.50	136.00	126.50	84.70	242.50	1304.20	153.60	135.00	323.20	469.00	286.60	
8	257.50	215.00	173.40	169.00	78.50	225.00	1045.90	160.20	127.00	391.40	504.20	323.20	
9	242.50	153.60	110.20	138.20	89.80	272.50	819.00	132.20	189.60	474.80	522.80	302.20	
10	252.50	187.50	151.40	120.80	93.20	260.00	621.00	140.40	192.40	480.60	529.00	286.60	
11	270.00	177.80	91.50	130.30	94.90	217.50	443.00	147.00	226.00	510.40	486.40	279.00	
12	282.70	187.50	115.30	126.50	110.20	171.20	285.40	140.40	226.00	492.20	522.80	279.00	
13	293.50	190.00	88.10	128.40	101.70	151.40	288.10	94.90	249.80	504.20	510.40	282.80	
14	262.50	151.40	160.20	117.00	77.00	153.60	325.90	100.00	214.80	349.20	486.40	294.20	
15	257.50	247.50	113.60	140.40	98.30	177.80	320.50	91.50	214.80	323.20	469.00	319.00	
16	235.00	265.00	86.40	117.00	171.20	195.00	290.80	96.00	214.80	314.80	474.80	323.20	
17	232.50	240.00	115.30	113.60	293.50	197.50	298.90	89.50	195.20	302.20	474.80	298.00	
18	290.80	207.50	120.80	103.40	275.00	182.50	304.30	89.50	206.40	298.00	402.20	306.40	
19	275.00	207.50	142.60	111.90	270.00	235.00	250.00	90.80	200.80	302.20	469.00	298.00	
20	247.50	151.40	162.40	103.40	257.50	277.50	235.00	107.20	286.60	306.40	547.60	294.20	
21	260.00	118.90	149.20	100.00	240.00	232.50	227.50	116.80	349.20	282.80	529.00	290.40	
22	252.50	111.90	202.50	115.30	230.00	252.50	257.50	131.00	236.20	306.40	486.40	275.20	
23	255.00	108.50	195.00	111.90	212.50	272.50	320.50	160.80	298.00	310.60	445.80	290.40	
24	235.00	130.30	240.00	115.30	207.50	240.00	298.90	98.80	319.00	279.00	474.80	286.60	
25	230.00	94.90	262.50	142.60	217.50	242.50	262.50	110.00	335.80	246.40	440.00	243.00	
26	252.50	105.10	222.50	130.30	177.80	227.50	245.00	118.50	327.40	256.60	451.60	223.20	
27	252.50	162.40	187.50	101.70	190.00	582.50	267.50	108.60	344.60	232.80	474.80	217.60	
28	232.50	86.40	200.00	96.60	212.50	879.30	272.50	113.40	353.80	310.60	590.00	203.60	
29	252.50	93.20	166.80	96.60	285.40	899.80	215.00	131.00	335.80	358.40		203.60	
30	252.50	89.80	149.20	81.50	296.20	859.00	222.50	125.30	340.00	363.00		198.00	
31		162.40		103.40	277.50		180.00		340.00	480.60		200.80	
Total	7614.50	5620.50	5015.80	3889.40	5162.40	10298.90	17081.90	3910.20	7466.90	10225.10	13751.60	9000.80	99038.00 CMSDAY
Mean	253.80	181.30	167.20	125.50	166.50	343.30	551.00	130.30	240.90	329.80	491.10	290.30	271.30 CMS
Max	293.50	270.00	301.60	205.00	296.20	899.80	1753.60	212.50	353.80	510.40	590.00	474.80	1753.60 CMS
Min	227.50	86.40	86.40	81.50	71.00	151.40	180.00	89.50	127.00	158.50	402.20	198.00	71.00 CMS
Runoff	657.89	485.61	433.37	336.04	446.03	889.82	1475.88	337.84	645.14	883.45	1188.14	777.67	8556.88 MCM
Momentary Peak	1772.40 CMS. at 45.12 m. (MSL) at 09.00 Hours , on Oct 5 , 2009												
Runoff Yield	6.02 Liters/Second/Square KM.			Momentary Peak Yield				39.320 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Tha Ngiu, Nakhon Sawan (P.17)

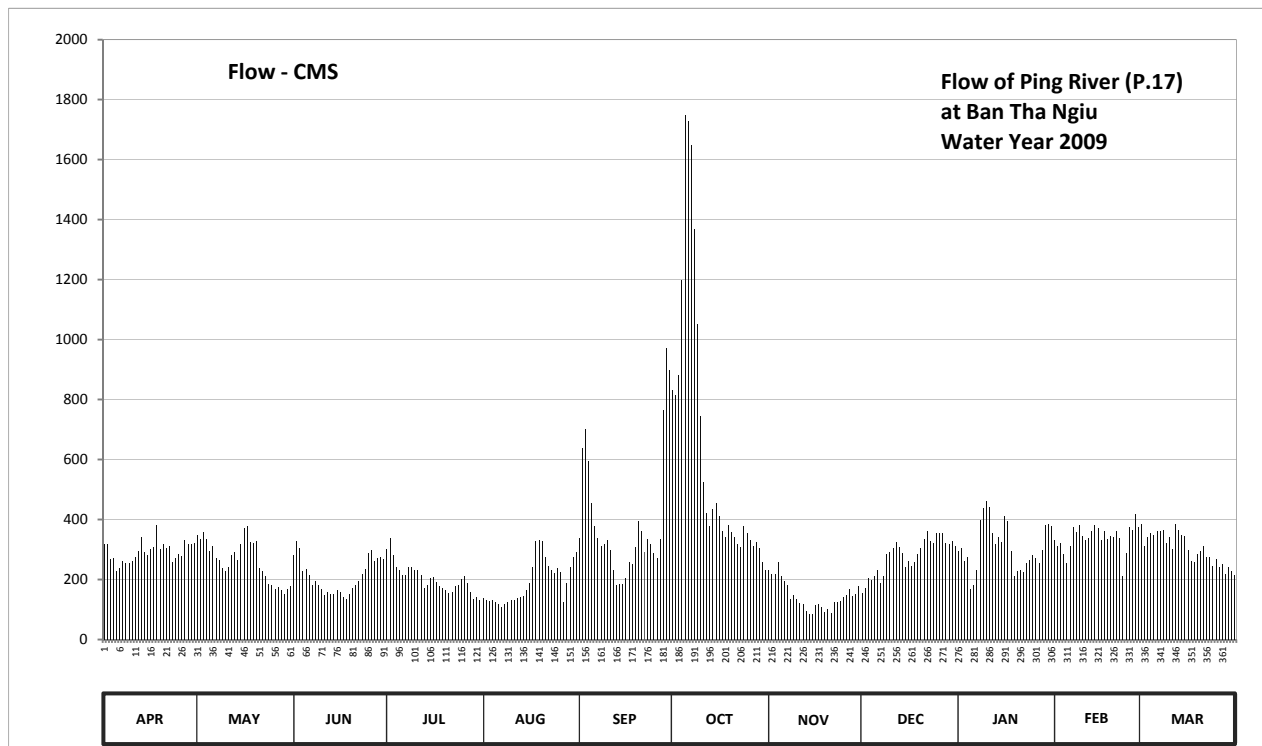
Lat 15 - 56 - 02 N Long 99 - 58 - 50 E

Location : on right bank at Som Sieo Market

	Ban	Tha Ngiu	Amphoe	Banphot Phisai	Changwat	Nakhon Sawan
Drainage Area	45,297	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+32.000	m. (M.S.L.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5.00 meters from the top staff gage				Elevation	+37.940 m. (M.S.L.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1960, 1967 - 1974, 1990 to date					
Rated by Flot	-					
Rated by Current Meter	1954 - 1979, 1990 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.21	35.30	35.11	35.17	34.64	35.27	36.32	34.96	34.71	35.15	35.25	35.39	
2	35.21	35.26	35.24	35.27	34.61	35.95	36.29	34.92	34.76	35.18	35.20	35.20	
3	35.07	35.32	35.18	35.11	34.60	36.08	36.41	34.92	34.87	35.05	35.22	35.28	
4	35.08	35.26	34.95	35.00	34.61	35.86	36.96	35.04	34.85	35.09	35.12	35.31	
5	34.95	35.15	34.97	34.96	34.59	35.56	37.83	34.89	34.90	34.75	35.03	35.30	
6	34.98	35.20	34.91	34.91	34.56	35.37	37.80	34.84	34.96	34.80	35.20	35.33	
7	35.05	35.08	34.80	34.91	34.52	35.27	37.68	34.79	34.82	34.96	35.36	35.33	
8	35.03	35.06	34.84	34.99	34.56	35.20	37.24	34.62	34.89	35.42	35.32	35.34	
9	35.03	34.98	34.80	35.00	34.59	35.21	36.71	34.68	35.12	35.52	35.38	35.22	
10	35.05	34.95	34.75	34.96	34.61	35.25	36.16	34.62	35.14	35.57	35.29	35.28	
11	35.09	35.00	34.68	34.96	34.61	35.16	35.71	34.57	35.18	35.53	35.25	35.17	
12	35.15	35.11	34.72	34.91	34.64	34.96	35.48	34.56	35.23	35.31	35.27	35.39	
13	35.28	35.14	34.70	34.76	34.65	34.80	35.37	34.46	35.19	35.21	35.33	35.34	
14	35.14	35.06	34.70	34.79	34.67	34.81	35.51	34.41	35.13	35.28	35.38	35.30	
15	35.11	35.21	34.74	34.87	34.74	34.81	35.56	34.40	35.00	35.23	35.35	35.29	
16	35.17	35.35	34.72	34.88	34.82	34.87	35.45	34.54	35.05	35.45	35.25	35.16	
17	35.19	35.37	34.65	34.83	34.99	35.04	35.33	34.55	35.01	35.41	35.33	35.05	
18	35.38	35.23	34.62	34.78	35.24	35.02	35.28	34.52	35.04	35.15	35.26	35.04	
19	35.17	35.22	34.70	34.76	35.25	35.19	35.38	34.43	35.12	34.90	35.29	35.12	
20	35.21	35.24	34.76	34.74	35.24	35.41	35.32	34.48	35.18	34.95	35.28	35.15	
21	35.18	34.98	34.79	34.71	35.09	35.33	35.28	34.42	35.26	34.96	35.33	35.20	
22	35.20	34.95	34.84	34.72	35.01	35.14	35.21	34.59	35.33	34.94	35.27	35.09	
23	35.04	34.89	34.92	34.78	34.96	35.26	35.19	34.59	35.24	35.03	34.90	35.09	
24	35.08	34.81	34.97	34.79	34.93	35.21	35.37	34.60	35.22	35.06	35.13	35.01	
25	35.12	34.79	35.13	34.86	34.98	35.13	35.31	34.65	35.31	35.11	35.36	35.07	
26	35.10	34.75	35.16	34.89	34.94	35.08	35.25	34.68	35.31	35.08	35.34	34.99	
27	35.25	34.77	35.05	34.82	34.58	35.26	35.20	34.75	35.31	35.03	35.47	35.02	
28	35.21	34.74	35.08	34.72	34.82	36.20	35.23	34.67	35.22	35.16	35.36	34.92	
29	35.21	34.70	35.09	34.62	34.99	36.57	35.18	34.69	35.21	35.38		34.99	
30	35.22	34.75	35.07	34.65	35.09	36.44	35.04	34.78	35.24	35.39		34.95	
31		34.78		34.61	35.14		34.96		35.20	35.37		34.91	
Mean	35.14	35.05	34.89	34.86	34.82	35.36	35.84	34.65	35.10	35.17	35.27	35.17	
Max	35.38	35.37	35.24	35.27	35.25	36.57	37.83	35.04	35.33	35.57	35.47	35.39	37.83
Min	34.95	34.70	34.62	34.61	34.52	34.80	34.96	34.40	34.71	34.75	34.90	34.91	34.40
Annual Max Momentary Gage Height	37.87		m. (MSL.) ,			at 18.00 Hours ,	on Oct 5 , 2009						
Zero Gage at Bottom Elevation	32.00		m. (MSL.) ,			River Bed	31.30	m. (MSL)					
Left Bank Elevation	38.81		m. (MSL.) ,										
Right Bank Elevation	38.11		m. (MSL.) ,			Drainage Area	45297	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	316.70	350.00	281.50	302.50	138.00	338.90	832.20	231.00	156.00	295.50	331.50	386.00		
2	316.70	335.20	327.80	338.90	130.50	637.50	815.40	219.00	171.00	306.00	313.00	313.00		
3	267.50	358.00	306.00	281.50	128.00	702.60	882.60	219.00	204.00	260.50	320.40	342.60		
4	271.00	335.20	228.00	243.00	130.50	595.20	1198.60	257.00	198.00	274.50	285.00	354.00		
5	228.00	295.50	234.00	231.00	125.70	455.80	1747.80	210.00	213.00	168.00	253.50	350.00		
6	237.00	313.00	216.00	216.00	118.80	378.00	1728.00	195.00	231.00	183.00	313.00	362.00		
7	260.50	271.00	183.00	216.00	109.60	338.90	1649.20	180.00	189.00	231.00	374.00	362.00		
8	253.50	264.00	195.00	240.00	118.80	313.00	1369.40	133.00	210.00	398.00	358.00	366.00		
9	253.50	237.00	183.00	243.00	125.70	316.70	1050.60	148.00	285.00	438.60	382.00	320.40		
10	260.50	228.00	168.00	231.00	130.50	331.50	744.20	133.00	292.00	460.10	346.30	342.60		
11	274.50	243.00	148.00	231.00	130.50	299.00	524.70	121.10	306.00	442.90	331.50	302.50		
12	295.50	281.50	159.00	216.00	138.00	231.00	422.00	118.80	324.10	354.00	338.90	386.00		
13	342.60	292.00	153.00	171.00	140.50	183.00	378.00	96.60	309.50	316.70	362.00	366.00		
14	292.00	264.00	153.00	180.00	145.50	186.00	434.30	86.10	288.50	342.60	382.00	350.00		
15	281.50	316.70	165.00	204.00	165.00	186.00	455.80	84.00	243.00	324.10	370.00	346.30		
16	302.50	370.00	159.00	207.00	189.00	204.00	410.00	114.20	260.50	410.00	331.50	299.00		
17	309.50	378.00	140.50	192.00	240.00	257.00	362.00	116.50	246.50	394.00	362.00	260.50		
18	382.00	324.10	133.00	177.00	327.80	250.00	342.60	109.60	257.00	295.50	335.20	257.00		
19	302.50	320.40	153.00	171.00	331.50	309.50	382.00	90.30	285.00	213.00	346.30	285.00		
20	316.70	327.80	171.00	165.00	327.80	394.00	358.00	100.80	306.00	228.00	342.60	295.50		
21	306.00	237.00	180.00	156.00	274.50	362.00	342.60	88.20	335.20	231.00	362.00	313.00		
22	313.00	228.00	195.00	159.00	246.50	292.00	316.70	125.70	362.00	225.00	338.90	274.50		
23	257.00	210.00	219.00	177.00	231.00	335.20	309.50	125.70	327.80	253.50	213.00	274.50		
24	271.00	186.00	234.00	180.00	222.00	316.70	378.00	128.00	320.40	264.00	288.50	246.50		
25	285.00	180.00	288.50	201.00	237.00	288.50	354.00	140.50	354.00	281.50	374.00	267.50		
26	278.00	168.00	299.00	210.00	225.00	271.00	331.50	148.00	354.00	271.00	366.00	240.00		
27	331.50	174.00	260.50	189.00	123.40	335.20	313.00	168.00	354.00	253.50	418.00	250.00		
28	316.70	165.00	271.00	159.00	189.00	765.00	324.10	145.50	320.40	299.00	374.00	219.00		
29	316.70	153.00	274.50	133.00	240.00	972.20	306.00	150.50	316.70	382.00		240.00		
30	320.40	168.00	267.50	140.50	274.50	899.40	257.00	177.00	327.80	386.00		228.00		
31		177.00		130.50	292.00		231.00		313.00	378.00		216.00		
Total	8759.50	8150.40	6345.80	6291.90	5946.60	11744.80	19550.80	4360.10	8660.40	9560.50	9513.10	9415.40	108299.30	CMSDAY
Mean	291.98	262.92	211.53	202.96	191.83	391.49	630.67	145.34	279.37	308.40	339.75	303.72	296.71	CMS
Max	382.00	378.00	327.80	338.90	331.50	972.20	1747.80	257.00	362.00	460.10	418.00	386.00	1747.80	CMS
Min	228.00	153.00	133.00	130.50	109.60	183.00	231.00	84.00	156.00	168.00	213.00	216.00	84.00	CMS
Runoff	756.82	704.20	548.28	543.62	513.79	1014.75	1689.19	376.71	748.26	826.03	821.93	813.49	9357.06	MCM
Momentary Peak	1774.20 CMS. at 37.87 m. (MSL) at 18.00 Hours , on Oct 5 , 2009													
Runoff Yield	6.55 Liters/Second/Square KM.			Momentary Peak Yield			39.168 Liters/Second/Square KM.							

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Chiang Dao , Chiang Mai (P.20)

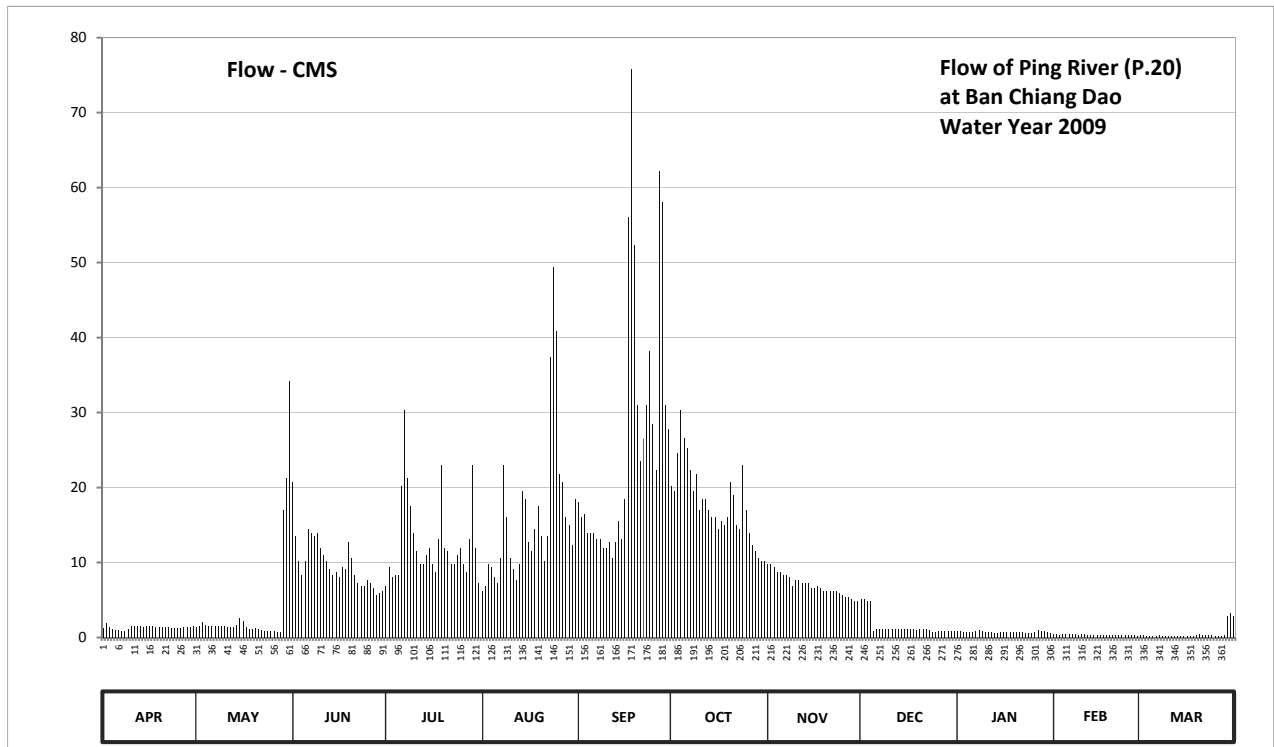
Lat 19 - 21 - 58 N Long 98 - 58 - 21 E

Location : on right bank near War Inthra Ram.

	Ban Chiang Dao	Amphoe Chiang Dao	Changwat Chiang Mai
Drainage Area	1,345 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+379.900 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 2 meters from automatic gage building.	Elevation	+384.033 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1954 to date		
Rating Operation			
Period of Rating	1979 - 1982 , 1989 to date		
Rated by Flot	-		
Rated by Current Meter	1979 - 1982 , 1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the local weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	380.37	380.40	380.53	380.22	380.20	380.48	380.52	380.30	380.16	380.25	380.13	380.06	
2	380.49	380.41	380.39	380.29	380.22	380.44	380.51	380.30	380.16	380.25	380.11	380.04	
3	380.40	380.50	380.31	380.25	380.30	380.45	380.60	380.29	380.15	380.21	380.09	380.03	
4	380.35	380.45	380.26	380.26	380.29	380.40	380.69	380.27	380.15	380.23	380.11	380.03	
5	380.30	380.43	380.31	380.26	380.25	380.40	380.63	380.27	380.26	380.23	380.10	380.02	
6	380.28	380.42	380.41	380.52	380.23	380.40	380.61	380.26	380.35	380.21	380.10	380.03	
7	380.27	380.41	380.40	380.69	380.32	380.38	380.56	380.26	380.35	380.25	380.10	380.04	
8	380.27	380.41	380.39	380.54	380.57	380.38	380.51	380.25	380.35	380.28	380.11	380.02	
9	380.34	380.41	380.40	380.47	380.44	380.35	380.55	380.22	380.35	380.25	380.09	380.01	
10	380.42	380.41	380.35	380.40	380.32	380.35	380.46	380.24	380.35	380.23	380.11	380.02	
11	380.43	380.40	380.33	380.34	380.28	380.37	380.49	380.24	380.33	380.21	380.10	380.03	
12	380.41	380.39	380.31	380.30	380.24	380.32	380.49	380.23	380.33	380.20	380.09	380.03	
13	380.41	380.39	380.28	380.30	380.30	380.37	380.46	380.23	380.33	380.17	380.08	380.02	
14	380.40	380.45	380.26	380.33	380.51	380.43	380.44	380.23	380.33	380.18	380.09	380.02	
15	380.43	380.59	380.27	380.35	380.49	380.38	380.44	380.21	380.33	380.19	380.07	380.02	
16	380.42	380.53	380.25	380.30	380.37	380.49	380.41	380.21	380.32	380.19	380.07	380.01	
17	380.43	380.40	380.29	380.27	380.34	380.98	380.43	380.22	380.33	380.19	380.07	380.00	
18	380.40	380.35	380.28	380.38	380.41	381.17	380.42	380.21	380.32	380.20	380.07	380.02	
19	380.39	380.33	380.37	380.57	380.47	380.94	380.44	380.20	380.31	380.19	380.06	380.06	
20	380.40	380.38	380.32	380.35	380.39	380.70	380.53	380.20	380.32	380.20	380.06	380.10	
21	380.40	380.35	380.26	380.34	380.31	380.58	380.50	380.20	380.32	380.19	380.05	380.09	
22	380.40	380.29	380.23	380.30	380.39	380.63	380.42	380.20	380.32	380.19	380.05	380.09	
23	380.38	380.27	380.22	380.30	380.78	380.70	380.41	380.20	380.28	380.18	380.05	380.08	
24	380.37	380.26	380.22	380.33	380.91	380.79	380.57	380.19	380.23	380.17	380.04	380.04	
25	380.37	380.24	380.24	380.35	380.82	380.66	380.46	380.18	380.23	380.16	380.05	380.00	
26	380.37	380.24	380.23	380.30	380.55	380.56	380.40	380.17	380.25	380.19	380.04	380.00	
27	380.39	380.23	380.21	380.27	380.53	381.04	380.36	380.17	380.25	380.30	380.04	380.00	
28	380.40	380.23	380.18	380.38	380.44	381.00	380.34	380.16	380.26	380.26	380.03	380.09	
29	380.40	380.46	380.19	380.57	380.42	380.70	380.32	380.15	380.25	380.25		380.62	
30	380.41	380.54	380.20	380.35	380.36	380.65	380.31	380.15	380.25	380.21		380.65	
31		380.74		380.23	380.49		380.31		380.24	380.18		380.62	
Mean	380.38	380.40	380.30	380.36	380.42	380.58	380.47	380.22	380.28	380.21	380.08	380.09	
Max	380.49	380.74	380.53	380.69	380.91	381.17	380.69	380.30	380.35	380.30	380.13	380.65	381.17
Min	380.27	380.23	380.18	380.22	380.20	380.32	380.31	380.15	380.15	380.16	380.03	380.00	380.00
Annual Max Momentary Gage Height	381.28		m. (MSL.) ,			at 05.00 Hours , on Sep 18 , 2009							
Zero Gage at Bottom Elevation	379.90		m. (MSL.) ,		River Bed	378.73	m. (MSL)						
Left Bank Elevation	385.59		m. (MSL.) ,										
Right Bank Elevation	386.68		m. (MSL.) ,		Drainage Area	1345	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.28	1.40	20.68	6.92	6.20	18.00	20.12	9.80	5.12	0.85	0.49	0.32	
2	1.94	1.46	13.58	9.44	6.92	16.00	19.56	9.80	5.12	0.85	0.43	0.28	
3	1.40	2.00	10.22	8.00	9.80	16.50	24.60	9.44	4.85	0.73	0.38	0.26	
4	1.20	1.70	8.36	8.36	9.44	14.00	30.36	8.72	4.85	0.79	0.43	0.26	
5	1.00	1.58	10.22	8.36	8.00	14.00	26.52	8.72	0.88	0.79	0.40	0.24	
6	0.94	1.52	14.50	20.12	7.28	14.00	25.24	8.36	1.20	0.73	0.40	0.26	
7	0.91	1.46	14.00	30.36	10.64	13.16	22.36	8.36	1.20	0.85	0.40	0.28	
8	0.91	1.46	13.58	21.24	22.92	13.16	19.56	8.00	1.20	0.94	0.43	0.24	
9	1.16	1.46	14.00	17.50	16.00	11.90	21.80	6.92	1.20	0.85	0.38	0.22	
10	1.52	1.46	11.90	14.00	10.64	11.90	17.00	7.64	1.20	0.79	0.43	0.24	
11	1.58	1.40	11.06	11.48	9.08	12.74	18.50	7.64	1.12	0.73	0.40	0.26	
12	1.46	1.36	10.22	9.80	7.64	10.64	18.50	7.28	1.12	0.70	0.38	0.26	
13	1.46	1.36	9.08	9.80	9.80	12.74	17.00	7.28	1.12	0.61	0.36	0.24	
14	1.40	1.70	8.36	11.06	19.56	15.50	16.00	7.28	1.12	0.64	0.38	0.24	
15	1.58	2.54	8.72	11.90	18.50	13.16	16.00	6.56	1.12	0.67	0.34	0.24	
16	1.52	2.18	8.00	9.80	12.74	18.50	14.50	6.56	1.08	0.67	0.34	0.22	
17	1.58	1.40	9.44	8.72	11.48	56.10	15.50	6.92	1.12	0.67	0.34	0.20	
18	1.40	1.20	9.08	13.16	14.50	75.85	15.00	6.56	1.08	0.70	0.34	0.24	
19	1.36	1.12	12.74	22.92	17.50	52.30	16.00	6.20	1.04	0.67	0.32	0.32	
20	1.40	1.32	10.64	11.90	13.58	31.00	20.68	6.20	1.08	0.70	0.32	0.40	
21	1.40	1.20	8.36	11.48	10.22	23.48	19.00	6.20	1.08	0.67	0.30	0.38	
22	1.40	0.97	7.28	9.80	13.58	26.52	15.00	6.20	1.08	0.67	0.30	0.38	
23	1.32	0.91	6.92	9.80	37.40	31.00	14.50	6.20	0.94	0.64	0.30	0.36	
24	1.28	0.88	6.92	11.06	49.45	38.20	22.92	5.93	0.79	0.61	0.28	0.28	
25	1.28	0.82	7.64	11.90	40.90	28.44	17.00	5.66	0.79	0.58	0.30	0.20	
26	1.28	0.82	7.28	9.80	21.80	22.36	14.00	5.39	0.85	0.67	0.28	0.20	
27	1.36	0.79	6.56	8.72	20.68	62.20	12.32	5.39	0.85	1.00	0.28	0.20	
28	1.40	0.79	5.66	13.16	16.00	58.00	11.48	5.12	0.88	0.88	0.26	0.38	
29	1.40	17.00	5.93	22.92	15.00	31.00	10.64	4.85	0.85	0.85		2.84	
30	1.46	21.24	6.20	11.90	12.32	27.80	10.22	4.85	0.85	0.73		3.20	
31		34.20		7.28	18.50		10.22		0.82	0.64		2.84	
Total	40.58	110.70	297.13	392.66	498.07	790.15	552.10	210.03	47.60	22.87	9.99	16.48	2988.36 CMSDAY
Mean	1.35	3.57	9.90	12.67	16.07	26.34	17.81	7.00	1.54	0.74	0.36	0.53	8.19 CMS
Max	1.94	34.20	20.68	30.36	49.45	75.85	30.36	9.80	5.12	1.00	0.49	3.20	75.85 CMS
Min	0.91	0.79	5.66	6.92	6.20	10.64	10.22	4.85	0.79	0.58	0.26	0.20	0.20 CMS
Runoff	3.51	9.56	25.67	33.93	43.03	68.27	47.70	18.15	4.11	1.98	0.86	1.42	258.19 MCM
Momentary Peak	89.00 CMS. at 381.28 m. (MSL.) at 05.00 Hours , on Sep 18 , 2009												
Runoff Yield	6.09 Liters/Second/Square KM.			Momentary Peak Yield				66.171 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Rim at Ban Mae Rim Tai , Chiang Mai (P.21)

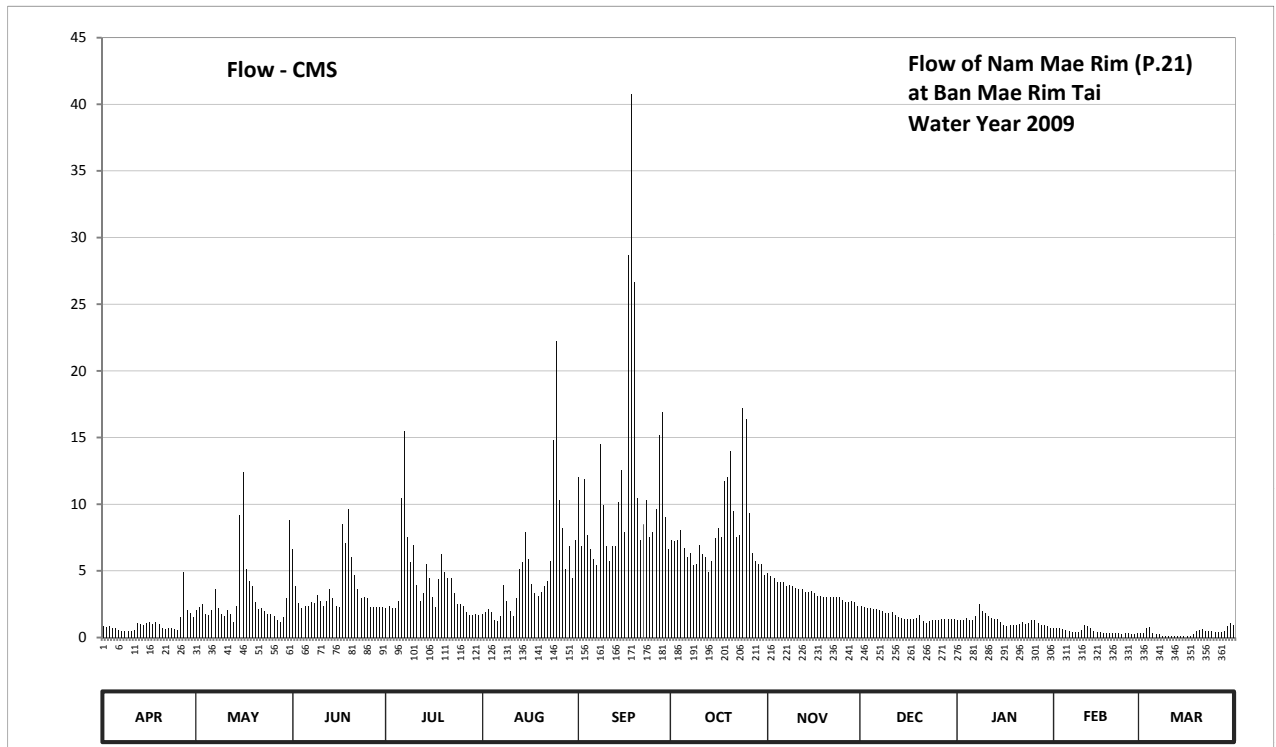
Lat 18 - 55 - 45 N Long 98 - 56 - 40 E

Location : on left bank about 100 meters downstream from the bridge of Chiang Mai - Fang Highway.

	Ban Mae Rim Tai	Amphoe Mae Rim	Changwat Chiang Mai
Drainage Area	452 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+319.700 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In the vicinity of gage observer's house.	Elevation	+325.270 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1954 to date		
Rating Operation			
Period of Rating	1954 - 1960 , 1977 to date		
Rated by Flot	-		
Rated by Current Meter	1954 - 1960 , 1977 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.48	320.67	321.10	320.69	320.63	321.49	321.16	320.95	320.71	320.57	320.45	320.35	
2	320.46	320.70	320.86	320.71	320.65	321.12	321.15	320.93	320.70	320.57	320.45	320.35	
3	320.47	320.72	320.73	320.69	320.68	321.48	321.16	320.92	320.69	320.57	320.44	320.45	
4	320.45	320.63	320.69	320.69	320.65	321.19	321.22	320.89	320.69	320.59	320.43	320.46	
5	320.44	320.62	320.71	320.75	320.56	321.10	321.11	320.89	320.68	320.57	320.41	320.35	
6	320.41	320.67	320.71	321.39	320.55	321.04	321.05	320.89	320.68	320.56	320.39	320.33	
7	320.40	320.84	320.74	321.70	320.61	321.00	321.08	320.86	320.67	320.61	320.38	320.33	
8	320.40	320.69	320.73	321.18	320.87	321.64	321.00	320.87	320.66	320.72	320.37	320.31	
9	320.40	320.63	320.80	321.02	320.75	321.35	321.01	320.86	320.64	320.66	320.38	320.31	
10	320.40	320.61	320.75	321.13	320.66	321.12	321.13	320.85	320.64	320.64	320.42	320.31	
11	320.41	320.67	320.71	320.87	320.61	321.03	321.07	320.84	320.65	320.61	320.49	320.31	
12	320.52	320.63	320.75	320.75	320.77	321.12	321.05	320.84	320.62	320.59	320.47	320.31	
13	320.51	320.54	320.84	320.81	320.98	321.12	320.96	320.82	320.60	320.58	320.44	320.31	
14	320.50	320.71	320.77	321.01	321.02	321.37	321.03	320.82	320.59	320.58	320.39	320.31	
15	320.52	321.30	320.71	320.92	321.21	321.52	321.17	320.83	320.58	320.54	320.38	320.31	
16	320.54	321.51	320.70	320.78	321.04	321.21	321.23	320.81	320.58	320.50	320.37	320.30	
17	320.51	320.98	321.25	320.70	320.88	322.35	321.18	320.79	320.58	320.48	320.35	320.29	
18	320.54	320.90	321.14	320.91	320.81	322.86	321.47	320.79	320.58	320.50	320.35	320.34	
19	320.51	320.86	321.33	321.07	320.79	322.26	321.49	320.78	320.59	320.49	320.35	320.40	
20	320.45	320.74	321.05	320.96	320.82	321.39	321.61	320.78	320.62	320.50	320.35	320.41	
21	320.43	320.68	320.94	320.92	320.86	321.16	321.32	320.78	320.55	320.51	320.36	320.43	
22	320.45	320.69	320.84	320.92	320.90	321.25	321.18	320.78	320.52	320.54	320.36	320.40	
23	320.45	320.66	320.77	320.81	321.03	321.38	321.19	320.78	320.55	320.51	320.34	320.40	
24	320.43	320.63	320.78	320.72	321.66	321.18	321.80	320.78	320.57	320.52	320.35	320.39	
25	320.42	320.63	320.77	320.72	322.05	321.21	321.75	320.76	320.57	320.56	320.35	320.38	
26	320.60	320.61	320.70	320.71	321.38	321.33	321.31	320.74	320.56	320.56	320.33	320.38	
27	320.96	320.56	320.70	320.65	321.23	321.68	321.08	320.74	320.58	320.52	320.34	320.38	
28	320.67	320.54	320.70	320.62	320.98	321.78	321.03	320.75	320.58	320.49	320.35	320.39	
29	320.64	320.60	320.70	320.62	321.12	321.29	321.01	320.74	320.58	320.50		320.47	
30	320.60	320.77	320.70	320.63	320.92	321.10	321.01	320.71	320.58	320.47		320.52	
31		321.27		320.62	321.16		320.94		320.58	320.45		320.49	
Mean	320.50	320.75	320.82	320.86	320.93	321.40	321.19	320.82	320.61	320.55	320.39	320.37	
Max	320.96	321.51	321.33	321.70	322.05	322.86	321.80	320.95	320.71	320.72	320.49	320.52	322.86
Min	320.40	320.54	320.69	320.62	320.55	321.00	320.94	320.71	320.52	320.45	320.33	320.29	320.29
Annual Max Momentary Gage Height		323.02	m. (MSL.) ,			at 18.00 Hours , on Sep 18 , 2009							
Zero Gage at Bottom Elevation		319.70	m. (MSL.) ,			River Bed	319.97	m. (MSL)					
Left Bank Elevation		325.16	m. (MSL.) ,										
Right Bank Elevation		325.17	m. (MSL.) ,			Drainage Area	452	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	2.06	6.60	2.22	1.74	12.04	7.32	4.83	2.39	1.34	0.73	0.30	
2	0.77	2.30	3.83	2.39	1.90	6.84	7.20	4.59	2.30	1.34	0.73	0.30	
3	0.82	2.48	2.57	2.22	2.14	11.88	7.32	4.48	2.22	1.34	0.68	0.73	
4	0.73	1.74	2.22	2.22	1.90	7.68	8.08	4.15	2.22	1.44	0.63	0.77	
5	0.68	1.66	2.39	2.75	1.28	6.60	6.72	4.15	2.14	1.34	0.55	0.30	
6	0.55	2.06	2.39	10.46	1.22	5.88	6.00	4.15	2.14	1.28	0.46	0.22	
7	0.50	3.62	2.66	15.50	1.58	5.40	6.36	3.83	2.06	1.58	0.42	0.22	
8	0.50	2.22	2.57	7.56	3.94	14.48	5.40	3.94	1.98	2.48	0.38	0.14	
9	0.50	1.74	3.20	5.64	2.75	9.90	5.52	3.83	1.82	1.98	0.42	0.14	
10	0.50	1.58	2.75	6.96	1.98	6.84	6.96	3.73	1.82	1.82	0.59	0.14	
11	0.55	2.06	2.39	3.94	1.58	5.76	6.24	3.62	1.90	1.58	0.90	0.14	
12	1.06	1.74	2.75	2.75	2.93	6.84	6.00	3.62	1.66	1.44	0.82	0.14	
13	1.01	1.17	3.62	3.31	5.17	6.84	4.94	3.41	1.50	1.39	0.68	0.14	
14	0.95	2.39	2.93	5.52	5.64	10.18	5.76	3.41	1.44	1.39	0.46	0.14	
15	1.06	9.20	2.39	4.48	7.94	12.52	7.44	3.51	1.39	1.17	0.42	0.14	
16	1.17	12.36	2.30	3.02	5.88	7.94	8.22	3.31	1.39	0.95	0.38	0.10	
17	1.01	5.17	8.50	2.30	4.04	28.68	7.56	3.11	1.39	0.86	0.30	0.09	
18	1.17	4.25	7.08	4.37	3.31	40.76	11.72	3.11	1.39	0.95	0.30	0.26	
19	1.01	3.83	9.62	6.24	3.11	26.65	12.04	3.02	1.44	0.90	0.30	0.50	
20	0.73	2.66	6.00	4.94	3.41	10.46	13.97	3.02	1.66	0.95	0.30	0.55	
21	0.63	2.14	4.71	4.48	3.83	7.32	9.48	3.02	1.22	1.01	0.34	0.63	
22	0.73	2.22	3.62	4.48	4.25	8.50	7.56	3.02	1.06	1.17	0.34	0.50	
23	0.73	1.98	2.93	3.31	5.76	10.32	7.68	3.02	1.22	1.01	0.26	0.50	
24	0.63	1.74	3.02	2.48	14.82	7.56	17.20	3.02	1.34	1.06	0.30	0.46	
25	0.59	1.74	2.93	2.48	22.22	7.94	16.35	2.84	1.34	1.28	0.30	0.42	
26	1.50	1.58	2.30	2.39	10.32	9.62	9.34	2.66	1.28	1.28	0.22	0.42	
27	4.94	1.28	2.30	1.90	8.22	15.16	6.36	2.66	1.39	1.06	0.26	0.42	
28	2.06	1.17	2.30	1.66	5.17	16.86	5.76	2.75	1.39	0.90	0.30	0.46	
29	1.82	1.50	2.30	1.66	6.84	9.06	5.52	2.66	1.39	0.95		0.82	
30	1.50	2.93	2.30	1.74	4.48	6.60	5.52	2.39	1.39	0.82		1.06	
31		8.78		1.66	7.32		4.71		1.39	0.73		0.90	
Total	31.26	93.35	107.47	127.03	156.67	343.11	246.25	102.86	50.66	38.79	12.77	12.05	1322.27 CMSDAY
Mean	1.04	3.01	3.58	4.10	5.05	11.44	7.94	3.43	1.63	1.25	0.46	0.39	3.62 CMS
Max	4.94	12.36	9.62	15.50	22.22	40.76	17.20	4.83	2.39	2.48	0.90	1.06	40.76 CMS
Min	0.50	1.17	2.22	1.66	1.22	5.40	4.71	2.39	1.06	0.73	0.22	0.09	0.09 CMS
Runoff	2.70	8.07	9.29	10.98	13.54	29.65	21.28	8.89	4.38	3.35	1.10	1.04	114.24 MCM
Momentary Peak	44.96 CMS. at 323.02 m. (MSL.) at 18.00 Hours , on Sep 18 , 2009												
Runoff Yield	8.01 Liters/Second/Square KM.			Momentary Peak Yield			99.469 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Klang at Pracha Uthit Bridge , Chiang Mai (P.24A)

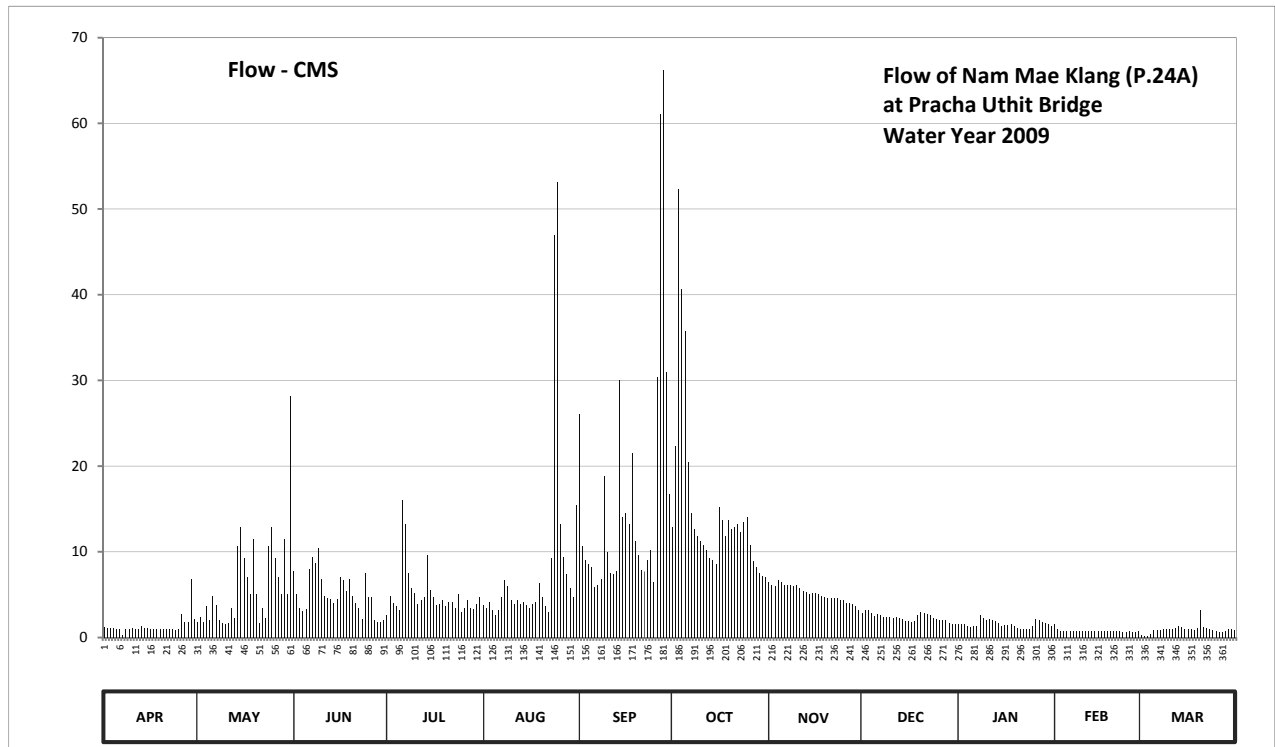
Lat 18 - 25 - 02 N Long 98 - 40 - 29 E

Location : on left bank at Pracha Uthit Bridge.

	Ban	Pracha Uthit Bridge	Amphoe	Chom Thong	Changwat	Chiang Mai
Drainage Area	452	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+275.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	near the gage observer's house.				Elevation	+277.954 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1973 to date					
Rated by Flot	-					
Rated by Current Meter	1973 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.80	275.88	276.30	275.95	276.04	277.07	276.57	276.23	275.97	275.85	275.85	275.52	
2	275.77	275.93	276.13	276.12	276.02	276.46	276.94	276.21	276.00	275.85	275.73	275.48	
3	275.78	275.88	276.02	276.06	276.07	276.38	277.79	276.20	276.00	275.84	275.68	275.49	
4	275.77	276.03	275.99	276.03	276.00	276.35	277.50	276.24	275.97	275.81	275.68	275.56	
5	275.76	275.90	276.01	276.00	275.95	276.33	277.37	276.23	275.94	275.80	275.69	275.71	
6	275.76	276.12	276.32	276.70	276.00	276.19	276.87	276.21	275.96	275.81	275.69	275.71	
7	275.51	276.04	276.40	276.59	276.11	276.21	276.64	276.21	275.95	275.82	275.68	275.71	
8	275.76	275.90	276.36	276.29	276.24	276.25	276.56	276.21	275.93	275.95	275.70	275.74	
9	275.76	275.86	276.45	276.18	276.20	276.81	276.52	276.20	275.93	275.92	275.70	275.76	
10	275.77	275.84	276.25	276.14	276.08	276.43	276.49	276.21	275.93	275.90	275.70	275.73	
11	275.76	275.86	276.12	276.05	276.05	276.29	276.47	276.18	275.92	275.91	275.70	275.76	
12	275.76	276.02	276.10	276.08	276.08	276.28	276.44	276.16	275.93	275.90	275.70	275.77	
13	275.81	275.92	276.09	276.11	276.05	276.30	276.39	276.15	275.92	275.89	275.70	275.81	
14	275.79	276.46	276.06	276.41	276.07	277.20	276.38	276.13	275.91	275.86	275.70	275.80	
15	275.78	276.57	276.09	276.17	276.04	276.62	276.35	276.14	275.89	275.81	275.70	275.74	
16	275.76	276.39	276.26	276.11	276.02	276.64	276.67	276.14	275.89	275.83	275.69	275.75	
17	275.76	276.26	276.24	276.04	276.05	276.59	276.61	276.13	275.88	275.83	275.68	275.75	
18	275.76	276.13	276.16	276.05	276.07	276.91	276.52	276.12	275.89	275.84	275.67	275.71	
19	275.76	276.50	276.25	276.08	276.22	276.49	276.61	276.11	275.95	275.81	275.68	275.79	
20	275.76	276.13	276.12	276.03	276.11	276.41	276.56	276.10	275.98	275.77	275.67	276.00	
21	275.74	275.86	276.06	276.07	276.03	276.31	276.57	276.10	275.97	275.76	275.68	275.80	
22	275.73	276.02	276.02	276.07	275.98	276.30	276.59	276.10	275.96	275.74	275.68	275.77	
23	275.73	275.92	275.91	276.02	276.39	276.38	276.54	276.10	275.95	275.75	275.66	275.76	
24	275.71	276.46	276.29	276.13	277.66	276.44	276.60	276.08	275.92	275.76	275.66	275.72	
25	275.73	276.57	276.11	275.98	277.81	276.23	276.62	276.08	275.91	275.82	275.67	275.67	
26	275.96	276.39	276.11	276.02	276.59	277.21	276.47	276.06	275.90	275.91	275.66	275.66	
27	275.88	276.26	275.90	276.08	276.40	277.98	276.37	276.06	275.90	275.90	275.66	275.66	
28	275.87	276.13	275.88	276.02	276.28	278.09	276.33	276.05	275.90	275.88	275.67	275.70	
29	276.25	276.50	275.88	276.01	276.18	277.23	276.29	276.03	275.86	275.86		275.74	
30	275.91	276.13	275.90	276.05	276.11	276.73	276.27	276.00	275.85	275.85		275.75	
31		277.14		276.11	276.68		276.26		275.85	275.82		275.72	
Mean	275.79	276.16	276.13	276.12	276.24	276.64	276.62	276.14	275.93	275.84	275.69	275.72	
Max	276.25	277.14	276.45	276.70	277.81	278.09	277.79	276.24	276.00	275.95	275.85	276.00	278.09
Min	275.51	275.84	275.88	275.95	275.95	276.19	276.26	276.00	275.85	275.74	275.66	275.48	275.48
Annual Max Momentary Gage Height	278.60	m. (MSL.) ,		at 06.00 Hours , on Sep 28 , 2009									
Zero Gage at Bottom Elevation	275.00	m. (MSL.) ,		River Bed	275.43	m. (MSL)							
Left Bank Elevation	280.09	m. (MSL.) ,											
Right Bank Elevation	280.08	m. (MSL.) ,		Drainage Area	452	Square Kilometers							



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	1.84	7.70	2.60	3.76	26.10	12.89	6.51	2.84	1.60	1.60	0.26	
2	1.08	2.36	5.02	4.88	3.48	10.63	22.35	6.17	3.20	1.60	0.92	0.16	
3	1.12	1.84	3.48	4.04	4.18	9.06	52.29	6.00	3.20	1.52	0.74	0.18	
4	1.08	3.62	3.08	3.62	3.20	8.55	40.60	6.68	2.84	1.28	0.74	0.38	
5	1.04	2.00	3.34	3.20	2.60	8.21	35.69	6.51	2.48	1.20	0.77	0.84	
6	1.04	4.88	8.04	16.00	3.20	5.86	20.43	6.17	2.72	1.28	0.77	0.84	
7	0.23	3.76	9.40	13.29	4.74	6.17	14.50	6.17	2.60	1.36	0.74	0.84	
8	1.04	2.00	8.72	7.53	6.68	6.85	12.68	6.17	2.36	2.60	0.80	0.96	
9	1.04	1.68	10.43	5.72	6.00	18.78	11.86	6.00	2.36	2.24	0.80	1.04	
10	1.08	1.52	6.85	5.16	4.32	10.01	11.24	6.17	2.36	2.00	0.80	0.92	
11	1.04	1.68	4.88	3.90	3.90	7.53	10.84	5.72	2.24	2.12	0.80	1.04	
12	1.04	3.48	4.60	4.32	4.32	7.36	10.22	5.44	2.36	2.00	0.80	1.08	
13	1.28	2.24	4.46	4.74	3.90	7.70	9.23	5.30	2.24	1.92	0.80	1.28	
14	1.16	10.63	4.04	9.61	4.18	30.00	9.06	5.02	2.12	1.68	0.80	1.20	
15	1.12	12.89	4.46	5.58	3.76	14.00	8.55	5.16	1.92	1.28	0.80	0.96	
16	1.04	9.23	7.02	4.74	3.48	14.50	15.25	5.16	1.92	1.44	0.77	1.00	
17	1.04	7.02	6.68	3.76	3.90	13.29	13.75	5.02	1.84	1.44	0.74	1.00	
18	1.04	5.02	5.44	3.90	4.18	21.53	11.86	4.88	1.92	1.52	0.71	0.84	
19	1.04	11.45	6.85	4.32	6.34	11.24	13.75	4.74	2.60	1.28	0.74	1.16	
20	1.04	5.02	4.88	3.62	4.74	9.61	12.68	4.60	2.96	1.08	0.71	3.20	
21	0.96	1.68	4.04	4.18	3.62	7.87	12.89	4.60	2.84	1.04	0.74	1.20	
22	0.92	3.48	3.48	4.18	2.96	7.70	13.29	4.60	2.72	0.96	0.74	1.08	
23	0.92	2.24	2.12	3.48	9.23	9.06	12.27	4.60	2.60	1.00	0.68	1.04	
24	0.84	10.63	7.53	5.02	46.96	10.22	13.50	4.32	2.24	1.04	0.68	0.88	
25	0.92	12.89	4.74	2.96	53.17	6.51	14.00	4.32	2.12	1.36	0.71	0.71	
26	2.72	9.23	4.74	3.48	13.29	30.33	10.84	4.04	2.00	2.12	0.68	0.68	
27	1.84	7.02	2.00	4.32	9.40	61.07	8.89	4.04	2.00	2.00	0.68	0.68	
28	1.76	5.02	1.84	3.48	7.36	66.27	8.21	3.90	2.00	1.84	0.71	0.80	
29	6.85	11.45	1.84	3.34	5.72	31.01	7.53	3.62	1.68	1.68		0.96	
30	2.12	5.02	2.00	3.90	4.74	16.75	7.19	3.20	1.60	1.60		1.00	
31		28.20		4.74	15.50		7.02		1.60	1.36		0.88	
Total	40.64	191.02	153.70	157.61	256.81	493.77	465.35	154.83	72.48	48.44	21.97	29.09	2085.71 CMSDAY
Mean	1.35	6.16	5.12	5.08	8.28	16.46	15.01	5.16	2.34	1.56	0.78	0.94	5.71 CMS
Max	6.85	28.20	10.43	16.00	53.17	66.27	52.29	6.68	3.20	2.60	1.60	3.20	66.27 CMS
Min	0.23	1.52	1.84	2.60	2.60	5.86	7.02	3.20	1.60	0.96	0.68	0.16	0.16 CMS
Runoff	3.51	16.50	13.28	13.62	22.19	42.66	40.21	13.38	6.26	4.19	1.90	2.51	180.21 MCM
Momentary Peak	92.00 CMS. at 278.60 m. (MSL.) at 06.00 Hours , on Sep 28 , 2009												
Runoff Yield	12.64 Liters/Second/Square KM.			Momentary Peak Yield				203.540 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Khlung Suan Mak at Ban Mai , Kamphaeng Phet (P.26A)

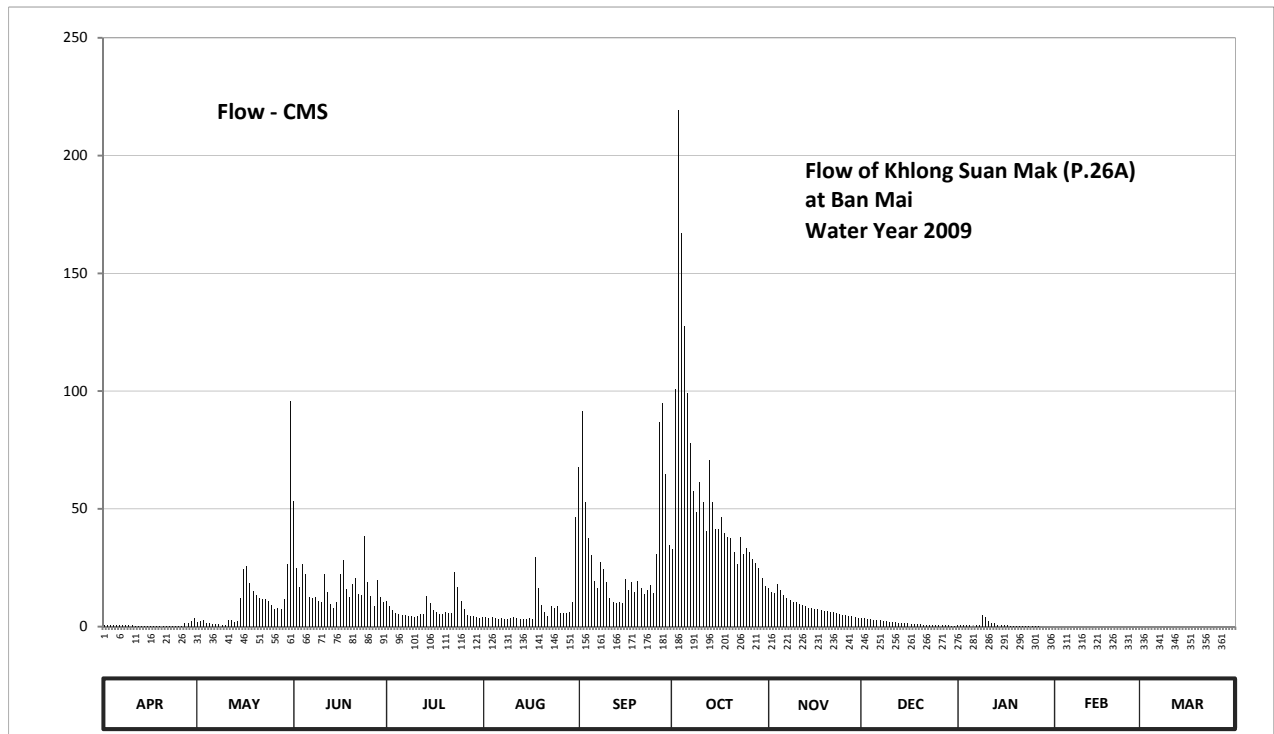
Lat 16 - 26 - 55 N Long 99 - 26 - 28 E

Location : on right bank about 615 meters downstream from tha Kradan Weir.

	Ban Mai	Amphoe Mueang	Changwat	Kamphaeng Phet
Drainage Area	974 sq.km.			
Type of Gage	Staff gage			
Zero Gage at Bottom	+84.110 m. (MSL.)			
Bench Mark	B.M.-H.D.			
Location BM	Near the automatic gage building		Elevation	+89.637 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.			
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings			
Period of Available Gage Records	1971 to date			
Rating Operation				
Period of Rating	1972 - 1974, 1980 to date			
Rated by Flot	-			
Rated by Current Meter	1972 - 1974, 1980 to date			
Stability of Channel Regimes	Stable.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records fair. Flow effected by Tha Kradan weir about 3.5 kilometers above gage site. Stage-discharge relation defined by 11 discharge measurements made in 2009.			

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.11	84.23	85.74	84.65	84.36	86.00	85.30	84.84	84.33	84.13	83.98	83.80	
2	84.11	84.26	85.10	84.57	84.36	86.40	86.53	84.79	84.32	84.13	83.98	83.80	
3	84.10	84.28	84.86	84.49	84.34	85.73	88.08	84.78	84.31	84.12	83.97	83.80	
4	84.10	84.21	85.14	84.43	84.36	85.40	87.44	84.90	84.30	84.12	83.97	83.80	
5	84.10	84.18	85.02	84.41	84.34	85.23	86.91	84.82	84.29	84.11	83.96	83.80	
6	84.10	84.17	84.72	84.40	84.31	84.94	86.51	84.75	84.28	84.11	83.95	83.80	
7	84.09	84.16	84.70	84.39	84.33	84.85	86.18	84.70	84.27	84.10	83.94	83.80	
8	84.09	84.15	84.72	84.38	84.30	85.16	85.82	84.67	84.26	84.10	83.93	83.80	
9	84.09	84.12	84.65	84.37	84.30	85.08	85.64	84.64	84.25	84.40	83.92	83.80	
10	84.09	84.11	84.63	84.36	84.33	84.93	85.89	84.63	84.24	84.35	83.91	83.79	
11	84.08	84.27	85.02	84.38	84.35	84.70	85.73	84.60	84.23	84.26	83.90	83.79	
12	84.08	84.28	84.79	84.42	84.32	84.64	85.47	84.58	84.22	84.21	83.89	83.79	
13	84.08	84.24	84.60	84.42	84.31	84.61	86.06	84.56	84.21	84.20	83.88	83.79	
14	84.08	84.25	84.54	84.73	84.31	84.64	85.73	84.54	84.20	84.11	83.87	83.79	
15	84.08	84.70	84.64	84.62	84.30	84.62	85.49	84.53	84.19	84.11	83.86	83.79	
16	84.07	85.08	85.02	84.50	84.33	84.96	85.49	84.52	84.18	84.10	83.85	83.79	
17	84.07	85.12	85.18	84.45	84.31	84.81	85.60	84.51	84.17	84.09	83.84	83.79	
18	84.07	84.91	84.83	84.42	85.21	84.92	85.45	84.49	84.16	84.08	83.83	83.79	
19	84.07	84.80	84.72	84.41	84.85	84.79	85.41	84.48	84.15	84.07	83.83	83.79	
20	84.07	84.74	84.90	84.46	84.58	84.94	85.40	84.47	84.14	84.06	83.83	83.79	
21	84.06	84.71	84.97	84.44	84.46	84.85	85.27	84.46	84.13	84.05	83.82	83.78	
22	84.06	84.69	84.76	84.43	84.37	84.76	85.14	84.45	84.12	84.04	83.82	83.78	
23	84.06	84.68	84.75	85.05	84.56	84.82	85.41	84.44	84.11	84.03	83.82	83.78	
24	84.06	84.65	85.42	84.86	84.54	84.89	85.24	84.41	84.10	84.02	83.81	83.78	
25	84.06	84.59	84.93	84.65	84.56	84.78	85.31	84.40	84.09	84.02	83.81	83.78	
26	84.07	84.52	84.73	84.51	84.44	85.25	85.27	84.39	84.09	84.01	83.81	83.78	
27	84.21	84.53	84.57	84.40	84.44	86.33	85.19	84.38	84.09	84.01	83.81	83.78	
28	84.21	84.51	84.95	84.38	84.43	86.45	85.15	84.37	84.09	84.00	83.81	83.78	
29	84.25	84.68	84.72	84.37	84.45	85.95	85.10	84.35	84.09	84.00		83.78	
30	84.32	85.14	84.63	84.36	84.63	85.34	84.98	84.34	84.08	83.99		83.78	
31		86.46		84.34	85.60		84.87		84.08	83.99		83.78	
Mean	84.10	84.56	84.86	84.49	84.47	85.16	85.71	84.56	84.19	84.10	83.88	83.79	
Max	84.32	86.46	85.74	85.05	85.60	86.45	88.08	84.90	84.33	84.40	83.98	83.80	88.08
Min	84.06	84.11	84.54	84.34	84.30	84.61	84.87	84.34	84.08	83.99	83.81	83.78	83.78
Annual Max Momentary Gage Height	88.32		m. (MSL.) ,				at 15.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	84.11		m. (MSL.) ,			River Bed	82.27		m. (MSL)				
Left Bank Elevation	89.31		m. (MSL.) ,										
Right Bank Elevation	91.50		m. (MSL.) ,			Drainage Area	974		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	1.95	53.50	10.75	4.20	67.50	33.00	16.20	3.60	0.80	0.00	0.00	
2	0.60	2.40	25.00	8.75	4.20	91.50	100.63	14.70	3.40	0.80	0.00	0.00	
3	0.50	2.70	16.80	6.80	3.80	53.00	219.30	14.40	3.20	0.70	0.00	0.00	
4	0.50	1.65	26.60	5.60	4.20	37.50	167.20	18.00	3.00	0.70	0.00	0.00	
5	0.50	1.30	22.20	5.20	3.80	30.20	127.61	15.60	2.85	0.60	0.00	0.00	
6	0.50	1.20	12.60	5.00	3.20	19.40	99.21	13.50	2.70	0.60	0.00	0.00	
7	0.45	1.10	12.00	4.80	3.60	16.50	77.80	12.00	2.55	0.50	0.00	0.00	
8	0.45	1.00	12.60	4.60	3.00	27.40	57.60	11.25	2.40	0.50	0.00	0.00	
9	0.45	0.70	10.75	4.40	3.00	24.30	48.50	10.50	2.25	5.00	0.00	0.00	
10	0.45	0.60	10.25	4.20	3.60	19.05	61.45	10.25	2.10	4.00	0.00	0.00	
11	0.40	2.55	22.20	4.60	4.00	12.00	53.00	9.50	1.95	2.40	0.00	0.00	
12	0.40	2.70	14.70	5.40	3.40	10.50	40.65	9.00	1.80	1.65	0.00	0.00	
13	0.40	2.10	9.50	5.40	3.20	9.75	70.80	8.50	1.65	1.50	0.00	0.00	
14	0.40	2.25	8.00	12.90	3.20	10.50	53.00	8.00	1.50	0.60	0.00	0.00	
15	0.40	12.00	10.50	10.00	3.00	10.00	41.55	7.75	1.40	0.60	0.00	0.00	
16	0.35	24.30	22.20	7.00	3.60	20.10	41.55	7.50	1.30	0.50	0.00	0.00	
17	0.35	25.80	28.20	6.00	3.20	15.30	46.50	7.25	1.20	0.45	0.00	0.00	
18	0.35	18.35	15.90	5.40	29.40	18.70	39.75	6.80	1.10	0.40	0.00	0.00	
19	0.35	15.00	12.60	5.20	16.50	14.70	37.95	6.60	1.00	0.35	0.00	0.00	
20	0.35	13.20	18.00	6.20	9.00	19.40	37.50	6.40	0.90	0.30	0.00	0.00	
21	0.30	12.30	20.45	5.80	6.20	16.50	31.80	6.20	0.80	0.25	0.00	0.00	
22	0.30	11.75	13.80	5.60	4.40	13.80	26.60	6.00	0.70	0.20	0.00	0.00	
23	0.30	11.50	13.50	23.25	8.50	15.60	37.95	5.80	0.60	0.15	0.00	0.00	
24	0.30	10.75	38.40	16.80	8.00	17.70	30.60	5.20	0.50	0.10	0.00	0.00	
25	0.30	9.25	19.05	10.75	8.50	14.40	33.45	5.00	0.45	0.10	0.00	0.00	
26	0.35	7.50	12.90	7.25	5.80	31.00	31.80	4.80	0.45	0.05	0.00	0.00	
27	1.65	7.75	8.75	5.00	5.80	86.95	28.60	4.60	0.45	0.05	0.00	0.00	
28	1.65	7.25	19.75	4.60	5.60	95.00	27.00	4.40	0.45	0.00	0.00	0.00	
29	2.25	11.50	12.60	4.40	6.00	64.75	25.00	4.00	0.45	0.00	0.00	0.00	
30	3.40	26.60	10.25	4.20	10.25	34.80	20.80	3.80	0.40	0.00	0.00	0.00	
31		95.70		3.80	46.50		17.10		0.40	0.00	0.00	0.00	
Total	19.55	344.70	533.55	219.65	230.65	917.80	1765.25	263.50	47.50	23.85	0.00	0.00	4366.00 CMSDAY
Mean	0.65	11.12	17.78	7.09	7.44	30.59	56.94	8.78	1.53	0.77	0.00	0.00	11.96 CMS
Max	3.40	95.70	53.50	23.25	46.50	95.00	219.30	18.00	3.60	5.00	0.00	0.00	219.30 CMS
Min	0.30	0.60	8.00	3.80	3.00	9.75	17.10	3.80	0.40	0.00	0.00	0.00	0.00 CMS
Runoff	1.69	29.78	46.10	18.98	19.93	79.30	152.52	22.77	4.10	2.06	0.00	0.00	377.22 MCM
Momentary Peak	239.70 CMS. at 88.32 m. (MSL) at 15.00 Hours , on Oct 3 , 2009												
Runoff Yield	12.28 Liters/Second/Square KM.			Momentary Peak Yield				245,990 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Khlong Suan Mak at Ban Pong Nam Ron , Kamphaeng Phet (P.47)

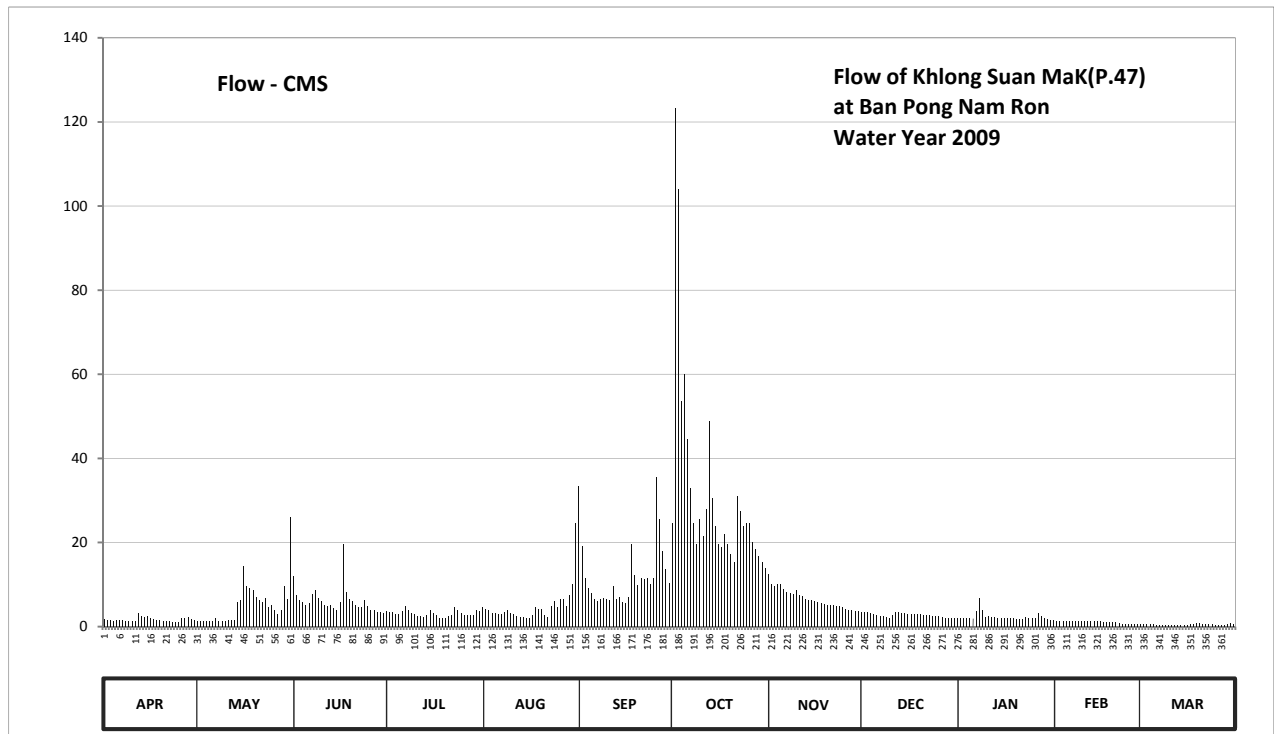
Lat 16 - 20 - 04 N Long 99 - 16 - 28 E

Location : on right bank at Ban Pong Ron.

	Ban Pong Nam Ron	Amphoe Khlong Lan	Changwat Kamphaeng Phet
Drainage Area	529 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+143.770 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 9 meters from the top staff gage.	Elevation	+153.134 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1983 to date		
Rated by Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.27	144.24	144.73	144.38	144.43	145.23	145.05	144.75	144.37	144.29	144.25	144.10	
2	144.26	144.23	144.57	144.37	144.41	144.93	146.41	144.67	144.37	144.29	144.24	144.10	
3	144.25	144.24	144.51	144.37	144.39	144.72	146.23	144.65	144.37	144.29	144.24	144.10	
4	144.24	144.24	144.49	144.35	144.36	144.64	145.61	144.67	144.36	144.29	144.24	144.10	
5	144.26	144.24	144.45	144.35	144.36	144.60	145.70	144.67	144.35	144.29	144.24	144.10	
6	144.25	144.23	144.48	144.38	144.35	144.53	145.45	144.63	144.34	144.29	144.23	144.09	
7	144.25	144.30	144.58	144.44	144.35	144.50	145.22	144.61	144.33	144.38	144.23	144.08	
8	144.24	144.24	144.62	144.39	144.37	144.53	145.05	144.60	144.32	144.54	144.23	144.07	
9	144.24	144.23	144.54	144.36	144.40	144.54	144.94	144.58	144.31	144.39	144.23	144.07	
10	144.23	144.23	144.50	144.35	144.36	144.53	145.07	144.62	144.30	144.31	144.23	144.07	
11	144.23	144.26	144.46	144.33	144.35	144.52	144.99	144.57	144.34	144.32	144.23	144.07	
12	144.36	144.25	144.44	144.32	144.33	144.65	145.12	144.56	144.37	144.31	144.22	144.07	
13	144.33	144.25	144.45	144.31	144.31	144.53	145.53	144.53	144.37	144.31	144.22	144.07	
14	144.31	144.49	144.42	144.34	144.31	144.55	145.17	144.52	144.36	144.30	144.22	144.07	
15	144.33	144.51	144.40	144.39	144.30	144.49	145.04	144.51	144.36	144.29	144.22	144.07	
16	144.30	144.81	144.49	144.36	144.30	144.48	144.94	144.50	144.35	144.29	144.22	144.08	
17	144.27	144.65	144.94	144.34	144.34	144.55	144.92	144.49	144.35	144.29	144.21	144.11	
18	144.26	144.64	144.61	144.29	144.43	144.94	145.00	144.48	144.35	144.29	144.21	144.10	
19	144.25	144.62	144.53	144.29	144.41	144.74	144.94	144.47	144.35	144.29	144.21	144.15	
20	144.24	144.55	144.50	144.29	144.41	144.66	144.88	144.46	144.35	144.28	144.21	144.15	
21	144.23	144.51	144.46	144.32	144.34	144.72	144.83	144.45	144.34	144.28	144.21	144.12	
22	144.23	144.49	144.43	144.34	144.31	144.71	145.18	144.45	144.34	144.28	144.16	144.10	
23	144.21	144.54	144.43	144.43	144.44	144.72	145.11	144.44	144.34	144.31	144.13	144.11	
24	144.21	144.43	144.52	144.40	144.50	144.67	145.04	144.44	144.33	144.30	144.12	144.10	
25	144.21	144.45	144.44	144.36	144.43	144.72	145.05	144.43	144.32	144.29	144.10	144.09	
26	144.30	144.39	144.40	144.34	144.53	145.27	145.05	144.41	144.32	144.29	144.10	144.08	
27	144.29	144.35	144.40	144.34	144.53	145.07	144.95	144.40	144.31	144.36	144.10	144.08	
28	144.31	144.39	144.37	144.34	144.44	144.90	144.91	144.39	144.30	144.33	144.10	144.08	
29	144.28	144.65	144.37	144.34	144.57	144.79	144.87	144.38	144.30	144.29		144.10	
30	144.26	144.53	144.36	144.40	144.67	144.68	144.83	144.38	144.30	144.28		144.16	
31		145.08		144.38	145.05		144.80		144.29	144.26		144.10	
Mean	144.26	144.43	144.50	144.35	144.42	144.70	145.16	144.52	144.34	144.31	144.20	144.09	
Max	144.36	145.08	144.94	144.44	145.05	145.27	146.41	144.75	144.37	144.54	144.25	144.16	146.41
Min	144.21	144.23	144.36	144.29	144.30	144.48	144.80	144.38	144.29	144.26	144.10	144.07	144.07
Annual Max Momentary Gage Height		147.07	m. (MSL.) ,				at 24.00 Hours , on Oct 2 , 2009						
Zero Gage at Bottom Elevation		143.77	m. (MSL.) ,			River Bed	143.88	m. (MSL)					
Left Bank Elevation		147.19	m. (MSL.) ,										
Right Bank Elevation		149.50	m. (MSL.) ,			Drainage Area	529	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.70	1.40	11.90	3.60	4.60	33.50	24.50	12.50	3.40	1.90	1.50	0.50	
2	1.60	1.30	7.40	3.40	4.20	19.20	123.30	10.10	3.40	1.90	1.40	0.50	
3	1.50	1.40	6.20	3.40	3.80	11.60	104.00	9.50	3.40	1.90	1.40	0.50	
4	1.40	1.40	5.80	3.00	3.20	9.20	53.70	10.10	3.20	1.90	1.40	0.50	
5	1.60	1.40	5.00	3.00	3.20	8.00	60.00	10.10	3.00	1.90	1.40	0.50	
6	1.50	1.30	5.60	3.60	3.00	6.60	44.50	8.90	2.80	1.90	1.30	0.45	
7	1.50	2.00	7.60	4.80	3.00	6.00	33.00	8.30	2.60	3.60	1.30	0.40	
8	1.40	1.40	8.60	3.80	3.40	6.60	24.50	8.00	2.40	6.80	1.30	0.35	
9	1.40	1.30	6.80	3.20	4.00	6.80	19.60	7.60	2.20	3.80	1.30	0.35	
10	1.30	1.30	6.00	3.00	3.20	6.60	25.50	8.60	2.00	2.20	1.30	0.35	
11	1.30	1.60	5.20	2.60	3.00	6.40	21.60	7.40	2.80	2.40	1.30	0.35	
12	3.20	1.50	4.80	2.40	2.60	9.50	28.00	7.20	3.40	2.20	1.20	0.35	
13	2.60	1.50	5.00	2.20	2.20	6.60	48.80	6.60	3.40	2.20	1.20	0.35	
14	2.20	5.80	4.40	2.80	2.20	7.00	30.50	6.40	3.20	2.00	1.20	0.35	
15	2.60	6.20	4.00	3.80	2.00	5.80	24.00	6.20	3.20	1.90	1.20	0.35	
16	2.00	14.40	5.80	3.20	2.00	5.60	19.60	6.00	3.00	1.90	1.20	0.40	
17	1.70	9.50	19.60	2.80	2.80	7.00	18.80	5.80	3.00	1.90	1.10	0.55	
18	1.60	9.20	8.30	1.90	4.60	19.60	22.00	5.60	3.00	1.90	1.10	0.50	
19	1.50	8.60	6.60	1.90	4.20	12.20	19.60	5.40	3.00	1.90	1.10	0.75	
20	1.40	7.00	6.00	1.90	4.20	9.80	17.20	5.20	3.00	1.80	1.10	0.75	
21	1.30	6.20	5.20	2.40	2.80	11.60	15.20	5.00	2.80	1.80	1.10	0.60	
22	1.30	5.80	4.60	2.80	2.20	11.30	31.00	5.00	2.80	1.80	0.80	0.50	
23	1.10	6.80	4.60	4.60	4.80	11.60	27.50	4.80	2.80	2.20	0.65	0.55	
24	1.10	4.60	6.40	4.00	6.00	10.10	24.00	4.80	2.60	2.00	0.60	0.50	
25	1.10	5.00	4.80	3.20	4.60	11.60	24.50	4.60	2.40	1.90	0.50	0.45	
26	2.00	3.80	4.00	2.80	6.60	35.50	24.50	4.20	2.40	1.90	0.50	0.40	
27	1.90	3.00	4.00	2.80	6.60	25.50	20.00	4.00	2.20	3.20	0.50	0.40	
28	2.20	3.80	3.40	2.80	4.80	18.00	18.40	3.80	2.00	2.60	0.50	0.40	
29	1.80	9.50	3.40	2.80	7.40	13.70	16.80	3.60	2.00	1.90		0.50	
30	1.60	6.60	3.20	4.00	10.10	10.40	15.20	3.60	2.00	1.80		0.80	
31		26.00		3.60	24.50		14.00		1.90	1.60		0.50	
Total	50.40	160.60	184.20	96.10	145.80	362.90	993.80	198.90	85.30	70.60	30.45	14.70	2393.75 CMSDAY
Mean	1.68	5.18	6.14	3.10	4.70	12.10	32.06	6.63	2.75	2.28	1.09	0.47	6.56 CMS
Max	3.20	26.00	19.60	4.80	24.50	35.50	123.30	12.50	3.40	6.80	1.50	0.80	123.30 CMS
Min	1.10	1.30	3.20	1.90	2.00	5.60	14.00	3.60	1.90	1.60	0.50	0.35	0.35 CMS
Runoff	4.36	13.88	15.92	8.30	12.60	31.36	85.86	17.19	7.37	6.10	2.63	1.27	206.82 MCM
Momentary Peak	225.30 CMS. at 147.07 m. (MSL.) at 24.00 Hours , on Oct 2 , 2009												
Runoff Yield	12.39 Liters/Second/Square KM.			Momentary Peak Yield				425.657 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Khlong Wang Chao at Ban Thai Tawee , Kamphaeng Phet (P.50A)

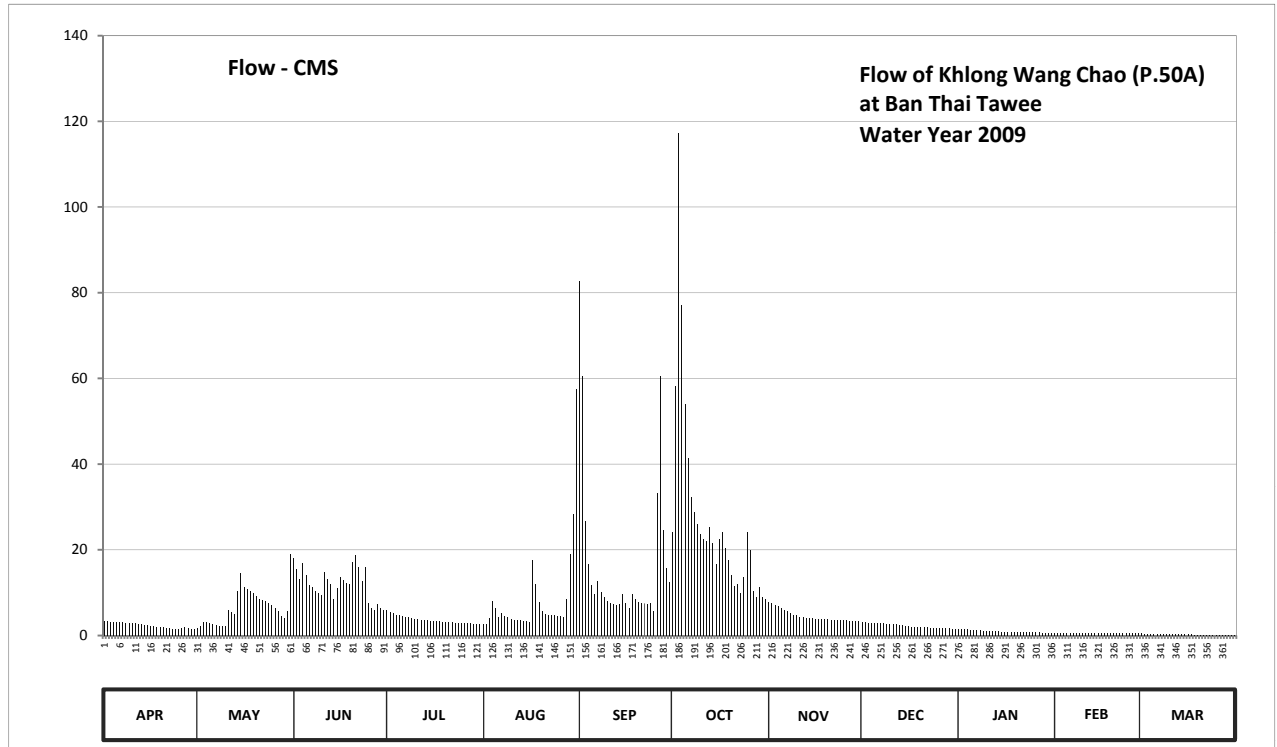
Lat 16 - 32 - 45 N Long 99 - 14 - 57 E

Location : on left bank at Ban Thai Tawee.

	Ban Thai Tawee	Amphoe Kosumpee Nakhon	Changwat Kamphaeng Phet
Drainage Area	480 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+104.360 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.	Elevation	+109.873 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.53	105.37	106.27	105.76	105.46	107.57	106.47	105.87	105.51	105.35	105.23	105.19	
2	105.53	105.42	106.18	105.73	105.46	107.26	107.22	105.85	105.51	105.35	105.23	105.18	
3	105.52	105.52	106.11	105.72	105.61	106.56	107.98	105.83	105.50	105.34	105.23	105.17	
4	105.52	105.52	106.23	105.69	105.88	106.22	107.50	105.82	105.50	105.34	105.23	105.15	
5	105.52	105.49	106.14	105.67	105.80	106.05	107.15	105.79	105.49	105.33	105.22	105.14	
6	105.51	105.46	106.05	105.66	105.62	105.96	106.91	105.76	105.49	105.33	105.22	105.14	
7	105.51	105.44	106.03	105.63	105.72	106.09	106.71	105.74	105.48	105.32	105.22	105.14	
8	105.50	105.43	105.99	105.62	105.66	105.98	106.62	105.72	105.48	105.32	105.22	105.14	
9	105.50	105.42	105.97	105.60	105.62	105.92	106.53	105.69	105.47	105.31	105.22	105.14	
10	105.49	105.42	105.95	105.59	105.59	105.88	106.46	105.67	105.47	105.31	105.22	105.13	
11	105.48	105.76	106.16	105.58	105.57	105.85	106.42	105.64	105.46	105.30	105.22	105.13	
12	105.47	105.73	106.11	105.57	105.56	105.84	106.40	105.62	105.46	105.30	105.22	105.13	
13	105.46	105.70	106.06	105.56	105.55	105.83	106.51	105.60	105.45	105.29	105.22	105.13	
14	105.45	105.99	105.90	105.55	105.54	105.84	106.39	105.60	105.44	105.29	105.22	105.12	
15	105.44	106.15	106.02	105.54	105.53	105.96	106.22	105.60	105.43	105.28	105.22	105.12	
16	105.43	106.03	106.12	105.54	105.52	105.85	106.42	105.59	105.42	105.28	105.22	105.12	
17	105.42	106.01	106.10	105.53	106.25	105.80	106.47	105.59	105.41	105.27	105.21	105.12	
18	105.41	105.99	106.07	105.53	106.06	105.96	106.35	105.59	105.40	105.27	105.21	105.11	
19	105.40	105.97	106.06	105.52	105.87	105.90	106.25	105.58	105.39	105.26	105.21	105.11	
20	105.39	105.93	106.24	105.52	105.75	105.87	106.14	105.58	105.39	105.26	105.21	105.11	
21	105.38	105.90	106.29	105.51	105.70	105.86	106.04	105.57	105.39	105.25	105.21	105.10	
22	105.37	105.89	106.20	105.51	105.69	105.85	106.06	105.57	105.39	105.25	105.21	105.10	
23	105.36	105.88	106.09	105.50	105.68	105.84	105.97	105.56	105.38	105.25	105.21	105.10	
24	105.35	105.85	106.20	105.50	105.67	105.86	106.12	105.56	105.38	105.25	105.21	105.10	
25	105.35	105.83	105.86	105.49	105.66	105.75	106.47	105.55	105.38	105.24	105.21	105.09	
26	105.38	105.80	105.79	105.49	105.65	106.73	106.33	105.55	105.38	105.24	105.20	105.09	
27	105.39	105.74	105.76	105.48	105.63	107.26	106.00	105.54	105.37	105.24	105.20	105.09	
28	105.37	105.65	105.84	105.48	105.90	106.49	105.92	105.54	105.37	105.23	105.20	105.09	
29	105.36	105.60	105.79	105.47	106.30	106.19	106.03	105.53	105.37	105.23	105.20	105.09	
30	105.36	105.74	105.77	105.47	106.61	106.08	105.92	105.53	105.36	105.22	105.20	105.08	
31	105.36	106.30	105.76	105.46	107.21	105.90	105.90	105.53	105.36	105.22	105.20	105.08	
Mean	105.44	105.74	106.05	105.56	105.78	106.14	106.45	105.64	105.43	105.28	105.22	105.12	
Max	105.53	106.30	106.29	105.76	107.21	107.57	107.98	105.87	105.51	105.35	105.23	105.19	107.98
Min	105.35	105.37	105.76	105.46	105.46	105.75	105.90	105.53	105.36	105.22	105.20	105.08	105.08
Annual Max Momentary Gage Height	108.19		m. (MSL.) ,				at 06.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	104.36		m. (MSL.) ,			River Bed	104.38	m. (MSL)					
Left Bank Elevation	109.77		m. (MSL.) ,										
Right Bank Elevation	109.79		m. (MSL.) ,			Drainage Area	480	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	1.70	18.10	5.90	2.60	82.60	24.10	7.90	3.10	1.50	0.65	0.47	
2	3.30	2.20	15.40	5.45	2.60	60.60	58.20	7.50	3.10	1.50	0.65	0.44	
3	3.20	3.20	13.30	5.30	4.10	26.80	117.20	7.10	3.00	1.40	0.65	0.41	
4	3.20	3.20	16.90	4.90	8.10	16.60	77.00	6.90	3.00	1.40	0.65	0.35	
5	3.20	2.90	14.20	4.70	6.50	11.75	54.00	6.35	2.90	1.30	0.60	0.32	
6	3.10	2.60	11.75	4.60	4.20	9.70	41.50	5.90	2.90	1.30	0.60	0.32	
7	3.10	2.40	11.25	4.30	5.30	12.75	32.40	5.60	2.80	1.20	0.60	0.32	
8	3.00	2.30	10.30	4.20	4.60	10.10	28.80	5.30	2.80	1.20	0.60	0.32	
9	3.00	2.20	9.90	4.00	4.20	8.90	25.90	4.90	2.70	1.10	0.60	0.32	
10	2.90	2.20	9.50	3.90	3.90	8.10	23.80	4.70	2.70	1.10	0.60	0.29	
11	2.80	5.90	14.80	3.80	3.70	7.50	22.60	4.40	2.60	1.00	0.60	0.29	
12	2.70	5.45	13.30	3.70	3.60	7.30	22.00	4.20	2.60	1.00	0.60	0.29	
13	2.60	5.00	12.00	3.60	3.50	7.10	25.30	4.00	2.50	0.95	0.60	0.29	
14	2.50	10.30	8.50	3.50	3.40	7.30	21.70	4.00	2.40	0.95	0.60	0.26	
15	2.40	14.50	11.00	3.40	3.30	9.70	16.60	4.00	2.30	0.90	0.60	0.26	
16	2.30	11.25	13.60	3.40	3.20	7.50	22.60	3.90	2.20	0.90	0.60	0.26	
17	2.20	10.75	13.00	3.30	17.50	6.50	24.10	3.90	2.10	0.85	0.55	0.26	
18	2.10	10.30	12.25	3.30	12.00	9.70	20.50	3.90	2.00	0.85	0.55	0.23	
19	2.00	9.90	12.00	3.20	7.90	8.50	17.50	3.80	1.90	0.80	0.55	0.23	
20	1.90	9.10	17.20	3.20	5.75	7.90	14.20	3.80	1.90	0.80	0.55	0.23	
21	1.80	8.50	18.70	3.10	5.00	7.70	11.50	3.70	1.90	0.75	0.55	0.20	
22	1.70	8.30	16.00	3.10	4.90	7.50	12.00	3.70	1.90	0.75	0.55	0.20	
23	1.60	8.10	12.75	3.00	4.80	7.30	9.90	3.60	1.80	0.75	0.55	0.20	
24	1.50	7.50	16.00	3.00	4.70	7.70	13.60	3.60	1.80	0.75	0.55	0.20	
25	1.50	7.10	7.70	2.90	4.60	5.75	24.10	3.50	1.80	0.70	0.55	0.18	
26	1.80	6.50	6.35	2.90	4.50	33.20	19.90	3.50	1.80	0.70	0.50	0.18	
27	1.90	5.60	5.90	2.80	4.30	60.60	10.50	3.40	1.70	0.70	0.50	0.18	
28	1.70	4.50	7.30	2.80	8.50	24.70	8.90	3.40	1.70	0.65	0.50	0.18	
29	1.60	4.00	6.35	2.70	19.00	15.70	11.25	3.30	1.70	0.65	0.50	0.18	
30	1.60	5.60	6.05	2.70	28.40	12.50	8.90	3.30	1.60	0.60	0.50	0.16	
31		19.00		2.60	57.60		8.50		1.60	0.60		0.16	
Total	71.50	202.05	361.35	113.25	256.25	509.55	829.05	137.05	70.80	29.60	16.25	8.18	2604.88 CMSDAY
Mean	2.38	6.52	12.05	3.65	8.27	16.99	26.74	4.57	2.28	0.95	0.58	0.26	7.14 CMS
Max	3.30	19.00	18.70	5.90	57.60	82.60	117.20	7.90	3.10	1.50	0.65	0.47	117.20 CMS
Min	1.50	1.70	5.90	2.60	2.60	5.75	8.50	3.30	1.60	0.60	0.50	0.16	0.16 CMS
Runoff	6.18	17.46	31.22	9.79	22.14	44.03	71.63	11.84	6.12	2.56	1.40	0.71	225.06 MCM
Momentary Peak	138.00 CMS. at 108.19 m. (MSL.) at 06.00 Hours , on Oct 3 , 2009												
Runoff Yield	14.87 Liters/Second/Square KM.			Momentary Peak Yield				287.500 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Ngat at Ban Sahakorn Romklao , Chiang Mai (P.56A)

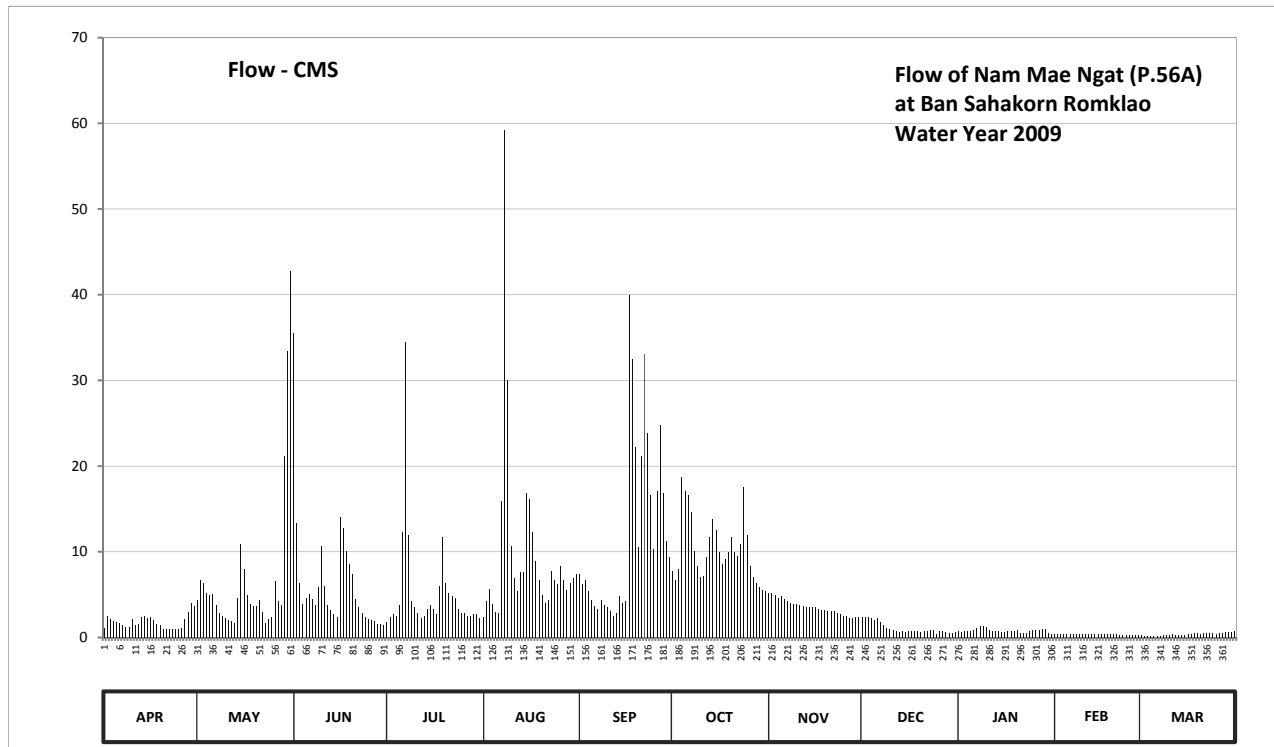
Lat 19 - 17 - 04 N Long 99 - 11 - 23 E

Location : on left bank at the bridge near land Cooperative Office.

	Ban	Sahakorn Romklao	Amphoe	Phrao	Changwat	Chiang Mai
Drainage Area	546	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+408.300 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+414.300 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1998 to date					
Rating Operation						
Period of Rating	1998 to date					
Rated by Flot	-					
Rated by Current Meter	1998 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	409.74	409.81	411.22	409.62	409.67	410.00	410.02	409.87	409.67	409.51	409.47	409.43	
2	409.88	409.96	410.30	409.67	409.80	409.93	409.96	409.87	409.67	409.50	409.46	409.42	
3	409.65	409.94	409.94	409.69	409.90	409.96	410.03	409.85	409.67	409.51	409.45	409.42	
4	409.63	409.87	409.78	409.68	409.78	409.88	410.54	409.83	409.66	409.52	409.45	409.42	
5	409.62	409.85	409.83	409.77	409.71	409.81	410.47	409.84	409.64	409.52	409.46	409.42	
6	409.61	409.86	409.86	410.25	409.70	409.76	410.45	409.82	409.66	409.53	409.46	409.42	
7	409.58	409.77	409.82	411.18	410.42	409.74	410.36	409.80	409.62	409.55	409.46	409.42	
8	409.56	409.70	409.77	410.23	412.04	409.81	410.14	409.79	409.58	409.57	409.47	409.43	
9	409.56	409.68	409.91	409.80	411.02	409.77	410.05	409.78	409.55	409.57	409.47	409.43	
10	409.65	409.66	410.17	409.75	410.17	409.75	409.98	409.78	409.54	409.56	409.46	409.44	
11	409.58	409.64	409.92	409.70	409.97	409.72	409.99	409.77	409.53	409.53	409.47	409.45	
12	409.60	409.63	409.77	409.66	409.88	409.68	410.10	409.76	409.51	409.52	409.46	409.44	
13	409.67	409.61	409.73	409.68	410.01	409.70	410.22	409.75	409.50	409.52	409.47	409.43	
14	409.68	409.83	409.69	409.74	410.01	409.84	410.32	409.75	409.52	409.52	409.47	409.43	
15	409.66	410.18	409.67	409.77	410.46	409.79	410.26	409.75	409.50	409.50	409.47	409.43	
16	409.67	410.03	410.33	409.74	410.43	409.80	410.13	409.75	409.51	409.50	409.47	409.46	
17	409.64	409.85	410.27	409.69	410.25	411.38	410.06	409.74	409.51	409.51	409.47	409.47	
18	409.60	409.78	410.14	409.92	410.08	411.11	410.09	409.73	409.52	409.52	409.45	409.48	
19	409.58	409.76	410.06	410.22	409.96	410.70	410.13	409.73	409.51	409.51	409.45	409.49	
20	409.54	409.76	410.00	409.94	409.85	410.16	410.22	409.72	409.50	409.53	409.45	409.47	
21	409.54	409.81	409.82	409.87	409.79	410.65	410.13	409.72	409.51	409.49	409.45	409.49	
22	409.54	409.71	409.75	409.84	409.81	411.13	410.11	409.72	409.52	409.48	409.44	409.49	
23	409.54	409.61	409.70	409.83	410.02	410.77	410.18	409.70	409.53	409.48	409.44	409.48	
24	409.54	409.65	409.67	409.74	409.96	410.45	410.49	409.69	409.53	409.51	409.43	409.48	
25	409.54	409.67	409.65	409.70	409.93	410.15	410.23	409.68	409.47	409.53	409.43	409.46	
26	409.55	409.95	409.64	409.70	410.05	410.47	410.05	409.68	409.52	409.53	409.43	409.48	
27	409.65	409.80	409.63	409.68	409.96	410.81	409.98	409.66	409.51	409.53	409.43	409.49	
28	409.71	409.77	409.60	409.68	409.89	410.46	409.94	409.66	409.50	409.54	409.43	409.50	
29	409.79	410.65	409.60	409.69	409.94	410.20	409.91	409.67	409.48	409.54		409.50	
30	409.76	411.14	409.58	409.69	409.97	410.10	409.89	409.67	409.48	409.49		409.50	
31		411.48		409.66	410.00		409.88		409.50	409.47		409.51	
Mean	409.63	409.92	409.89	409.83	410.08	410.18	410.14	409.75	409.55	409.52	409.45	409.46	
Max	409.88	411.48	411.22	411.18	412.04	411.38	410.54	409.87	409.67	409.57	409.47	409.51	412.04
Min	409.54	409.61	409.58	409.62	409.67	409.68	409.88	409.66	409.47	409.47	409.43	409.42	409.42
Annual Max Momentary Gage Height		412.72	m. (MSL.) ,				at 20.00 Hours , on Aug 8 , 2009						
Zero Gage at Bottom Elevation		408.30	m. (MSL.) ,			River Bed	409.28	m. (MSL)					
Left Bank Elevation		415.73	m. (MSL.) ,										
Right Bank Elevation		415.77	m. (MSL.) ,			Drainage Area	546	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.14	4.35	35.55	1.84	2.44	7.40	7.79	5.25	2.44	0.70	0.45	0.25	
2	2.46	6.72	13.40	2.44	4.20	6.21	6.72	5.25	2.44	0.60	0.40	0.20	
3	2.20	6.38	6.38	2.68	5.70	6.72	7.98	4.95	2.44	0.70	0.35	0.20	
4	1.96	5.25	3.92	2.56	3.92	5.40	18.65	4.65	2.32	0.80	0.35	0.20	
5	1.84	4.95	4.65	3.78	2.94	4.35	17.08	4.80	2.08	0.80	0.40	0.20	
6	1.72	5.10	5.10	12.35	2.80	3.64	16.63	4.50	2.32	0.90	0.40	0.20	
7	1.40	3.78	4.50	34.45	15.95	3.36	14.66	4.20	1.84	1.10	0.40	0.20	
8	1.20	2.80	3.78	11.93	59.20	4.35	10.13	4.06	1.40	1.30	0.45	0.25	
9	1.20	2.56	5.87	4.20	30.05	3.78	8.37	3.92	1.10	1.30	0.45	0.25	
10	2.20	2.32	10.72	3.50	10.72	3.50	7.06	3.92	1.00	1.20	0.40	0.30	
11	1.40	2.08	6.04	2.80	6.89	3.08	7.23	3.78	0.90	0.90	0.45	0.35	
12	1.60	1.96	3.78	2.32	5.40	2.56	9.35	3.64	0.70	0.80	0.40	0.30	
13	2.44	1.72	3.22	2.56	7.60	2.80	11.72	3.50	0.60	0.80	0.45	0.25	
14	2.56	4.65	2.68	3.36	7.60	4.80	13.82	3.50	0.80	0.80	0.45	0.25	
15	2.32	10.91	2.44	3.78	16.85	4.06	12.56	3.50	0.60	0.60	0.45	0.25	
16	2.44	7.98	14.03	3.36	16.17	4.20	9.93	3.50	0.70	0.60	0.45	0.40	
17	2.08	4.95	12.77	2.68	12.35	39.95	8.57	3.36	0.70	0.70	0.45	0.45	
18	1.60	3.92	10.13	6.04	8.96	32.52	9.15	3.22	0.80	0.80	0.35	0.50	
19	1.40	3.64	8.57	11.72	6.72	22.25	9.93	3.22	0.70	0.70	0.35	0.55	
20	1.00	3.64	7.40	6.38	4.95	10.52	11.72	3.08	0.60	0.90	0.35	0.45	
21	1.00	4.35	4.50	5.25	4.06	21.13	9.93	3.08	0.70	0.55	0.35	0.55	
22	1.00	2.94	3.50	4.80	4.35	33.08	9.54	3.08	0.80	0.50	0.30	0.55	
23	1.00	1.72	2.80	4.65	7.79	23.83	10.91	2.80	0.90	0.50	0.30	0.50	
24	1.00	2.20	2.44	3.36	6.72	16.63	17.52	2.68	0.90	0.70	0.25	0.50	
25	1.00	2.44	2.20	2.80	6.21	10.32	11.93	2.56	0.45	0.90	0.25	0.40	
26	1.10	6.55	2.08	2.80	8.37	17.08	8.37	2.56	0.80	0.90	0.25	0.50	
27	2.20	4.20	1.96	2.56	6.72	24.75	7.06	2.32	0.70	0.90	0.25	0.55	
28	2.94	3.78	1.60	2.56	5.55	16.85	6.38	2.32	0.60	1.00	0.25	0.60	
29	4.06	21.13	1.60	2.68	6.38	11.30	5.87	2.44	0.50	1.00		0.60	
30	3.64	33.35	1.40	2.68	6.89	9.35	5.55	2.44	0.50	0.55		0.60	
31		42.78		2.32	7.40		5.40		0.60	0.45		0.70	
Total	55.10	215.10	189.01	161.19	301.85	359.77	317.51	106.08	33.93	24.95	10.40	12.05	1786.94 CMSDAY
Mean	1.84	6.94	6.30	5.20	9.74	11.99	10.24	3.54	1.09	0.80	0.37	0.39	4.90 CMS
Max	4.06	42.78	35.55	34.45	59.20	39.95	18.65	5.25	2.44	1.30	0.45	0.70	59.20 CMS
Min	1.00	1.72	1.40	1.84	2.44	2.56	5.40	2.32	0.45	0.45	0.25	0.20	0.20 CMS
Runoff	4.76	18.59	16.33	13.93	26.08	31.08	27.43	9.17	2.93	2.16	0.90	1.04	154.39 MCM
Momentary Peak	80.82 CMS. at 412.72 m. (MSL.) at 20.00 Hours , on Aug 8 , 2009												
Runoff Yield	8.97 Liters/Second/Square KM.			Momentary Peak Yield				148.022 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Tun at Ban Luang , Chiang Mai (P.64)

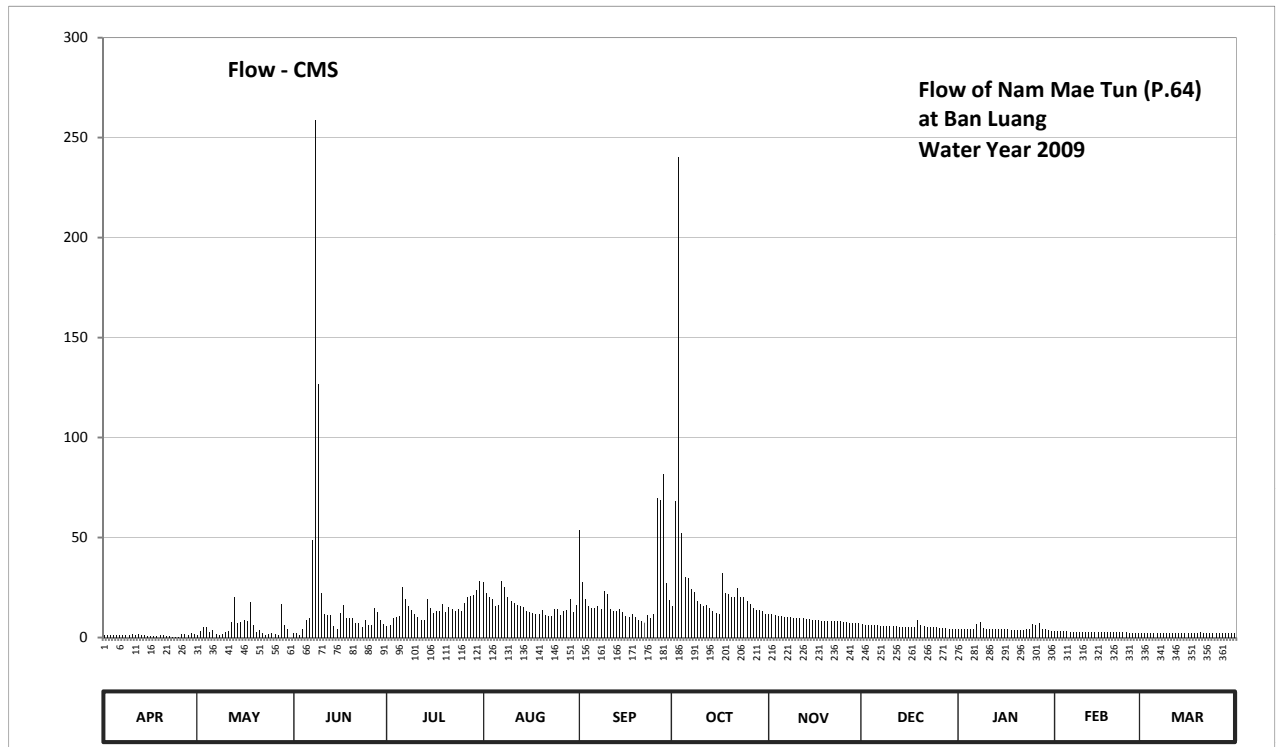
Lat 17 - 46 - 56 N Long 98 - 22 - 29 E

Location : on right bank at Ban Luang.

	Ban	Luang	Amphoe	Omko	Changwat	Chiang Mai
Drainage Area	502	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+787.355 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+796.355 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1990 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
Rated by Current Meter	1990 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +793.430 m.(MSL.) , records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 4 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	787.85	787.85	787.95	788.12	788.79	789.33	788.45	788.32	788.16	788.06	788.01	787.95	
2	787.84	788.00	787.92	788.15	788.66	788.79	789.62	788.32	788.15	788.06	788.01	787.95	
3	787.84	788.11	787.85	788.26	788.61	788.58	792.14	788.31	788.15	788.06	788.00	787.95	
4	787.84	788.11	788.06	788.28	788.58	788.46	789.31	788.29	788.15	788.05	788.00	787.95	
5	787.83	787.96	788.23	788.29	788.45	788.43	788.85	788.29	788.14	788.05	788.00	787.95	
6	787.83	788.04	788.25	788.73	788.48	788.43	788.84	788.28	788.14	788.05	787.99	787.95	
7	787.83	787.87	789.24	788.57	788.81	788.45	788.71	788.28	788.13	788.16	787.99	787.95	
8	787.83	787.82	792.35	788.45	788.73	788.40	788.67	788.27	788.13	788.19	787.99	787.95	
9	787.84	787.89	790.64	788.39	788.61	788.68	788.55	788.26	788.12	788.09	787.99	787.94	
10	787.88	787.97	788.66	788.33	788.55	788.64	788.49	788.26	788.12	788.06	787.99	787.94	
11	787.82	788.02	788.33	788.28	788.50	788.41	788.46	788.26	788.12	788.05	787.99	787.94	
12	787.90	788.19	788.30	788.23	788.48	788.38	788.48	788.25	788.12	788.05	787.98	787.94	
13	787.84	788.61	788.31	788.23	788.46	788.38	788.42	788.24	788.11	788.05	787.98	787.94	
14	787.84	788.17	788.13	788.58	788.44	788.40	788.38	788.24	788.11	788.05	787.98	787.93	
15	787.80	788.19	788.06	788.42	788.38	788.36	788.35	788.23	788.11	788.05	787.98	787.93	
16	787.79	788.22	788.35	788.34	788.36	788.29	788.33	788.22	788.11	788.05	787.97	787.93	
17	787.79	788.20	788.48	788.38	788.34	788.27	788.90	788.22	788.11	788.05	787.97	787.93	
18	787.78	788.52	788.26	788.37	788.33	788.33	788.66	788.21	788.11	788.04	787.96	787.93	
19	787.85	788.14	788.26	788.49	788.33	788.27	788.64	788.21	788.22	788.04	787.96	787.95	
20	787.86	787.97	788.26	788.36	788.39	788.23	788.60	788.20	788.14	788.04	787.96	787.96	
21	787.81	788.03	788.18	788.44	788.30	788.21	788.60	788.20	788.13	788.04	787.96	787.95	
22	787.78	787.94	788.17	788.40	788.29	788.18	788.72	788.20	788.11	788.04	787.96	787.94	
23	787.76	787.85	788.10	788.37	788.29	788.31	788.61	788.20	788.10	788.06	787.96	787.94	
24	787.76	787.90	788.23	788.41	788.40	788.26	788.61	788.20	788.10	788.06	787.96	787.94	
25	787.76	787.95	788.14	788.37	788.40	788.32	788.54	788.19	788.10	788.16	787.95	787.94	
26	787.91	787.87	788.14	788.50	788.31	789.65	788.49	788.19	788.09	788.14	787.95	787.94	
27	787.88	787.82	788.42	788.61	788.38	789.64	788.43	788.18	788.09	788.17	787.95	787.94	
28	787.83	788.49	788.36	788.62	788.39	789.89	788.39	788.18	788.08	788.06	787.95	787.94	
29	787.94	788.14	788.23	788.63	788.58	788.78	788.39	788.17	788.07	788.05		787.94	
30	787.91	788.05	788.16	788.69	788.36	788.56	788.38	788.17	788.06	788.04		787.93	
31		787.63		788.80	788.47		788.33		788.06	788.02		787.93	
Mean	787.83	788.05	788.47	788.42	788.47	788.58	788.72	788.23	788.12	788.07	787.98	787.94	
Max	787.94	788.61	792.35	788.80	788.81	789.89	792.14	788.32	788.22	788.19	788.01	787.96	792.35
Min	787.76	787.63	787.85	788.12	788.29	788.18	788.33	788.17	788.06	788.02	787.95	787.93	787.63
Annual Max Momentary Gage Height	794.44		m. (MSL.) ,		at 21.00 Hours , on Jun 8 , 2009								
Zero Gage at Bottom Elevation	787.35		m. (MSL.) ,		River Bed		787.65		m. (MSL)				
Left Bank Elevation	793.43		m. (MSL.) ,										
Right Bank Elevation	793.55		m. (MSL.) ,		Drainage Area		502		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	1.30	2.40	5.60	27.60	53.50	15.50	11.60	6.80	4.20	3.20	2.40	
2	1.20	3.00	2.04	6.50	22.40	27.60	68.00	11.60	6.50	4.20	3.20	2.40	
3	1.20	5.30	1.30	9.80	20.40	19.40	240.32	11.30	6.50	4.20	3.00	2.40	
4	1.20	5.30	4.20	10.40	19.40	15.80	52.50	10.70	6.50	4.00	3.00	2.40	
5	1.10	2.52	8.90	10.70	15.50	14.90	30.25	10.70	6.20	4.00	3.00	2.40	
6	1.10	3.80	9.50	25.20	16.40	14.90	29.80	10.40	6.20	4.00	2.88	2.40	
7	1.10	1.50	49.00	19.10	28.45	15.50	24.40	10.40	5.90	6.80	2.88	2.40	
8	1.10	1.00	258.80	15.50	25.20	14.00	22.80	10.10	5.90	7.70	2.88	2.40	
9	1.20	1.70	126.68	13.70	20.40	23.20	18.50	9.80	5.60	4.80	2.88	2.28	
10	1.60	2.64	22.40	11.90	18.50	21.60	16.70	9.80	5.60	4.20	2.88	2.28	
11	1.00	3.40	11.90	10.40	17.00	14.30	15.80	9.80	5.60	4.00	2.88	2.28	
12	1.80	7.70	11.00	8.90	16.40	13.40	16.40	9.50	5.60	4.00	2.76	2.28	
13	1.20	20.40	11.30	8.90	15.80	13.40	14.60	9.20	5.30	4.00	2.76	2.28	
14	1.20	7.10	5.90	19.40	15.20	14.00	13.40	9.20	5.30	4.00	2.76	2.16	
15	0.80	7.70	4.20	14.60	13.40	12.80	12.50	8.90	5.30	4.00	2.76	2.16	
16	0.72	8.60	12.50	12.20	12.80	10.70	11.90	8.60	5.30	4.00	2.64	2.16	
17	0.72	8.00	16.40	13.40	12.20	10.10	32.50	8.60	5.30	4.00	2.64	2.16	
18	0.64	17.60	9.80	13.10	11.90	11.90	22.40	8.30	5.30	3.80	2.52	2.16	
19	1.30	6.20	9.80	16.70	11.90	10.10	21.60	8.30	8.60	3.80	2.52	2.40	
20	1.40	2.64	9.80	12.80	13.70	8.90	20.00	8.00	6.20	3.80	2.52	2.52	
21	0.90	3.60	7.40	15.20	11.00	8.30	20.00	8.00	5.90	3.80	2.52	2.40	
22	0.64	2.28	7.10	14.00	10.70	7.40	24.80	8.00	5.30	3.80	2.52	2.28	
23	0.48	1.30	5.00	13.10	10.70	11.30	20.40	8.00	5.00	4.20	2.52	2.28	
24	0.48	1.80	8.90	14.30	14.00	9.80	20.40	8.00	5.00	4.20	2.52	2.28	
25	0.48	2.40	6.20	13.10	14.00	11.60	18.20	7.70	5.00	6.80	2.40	2.28	
26	1.92	1.50	6.20	17.00	11.30	69.50	16.70	7.70	4.80	6.20	2.40	2.28	
27	1.60	1.00	14.60	20.40	13.40	69.00	14.90	7.40	4.80	7.10	2.40	2.28	
28	1.10	16.70	12.80	20.80	13.70	81.50	13.70	7.40	4.60	4.20	2.40	2.28	
29	2.28	6.20	8.90	21.20	19.40	27.20	13.70	7.10	4.40	4.00		2.28	
30	1.92	4.00	6.80	23.60	12.80	18.80	13.40	7.10	4.20	3.80		2.16	
31		0.00		28.00	16.10		11.90		4.20	3.40		2.16	
Total	34.68	158.18	671.72	459.50	501.65	654.40	887.97	271.20	172.70	139.00	76.24	71.28	4098.52 CMSDAY
Mean	1.16	5.10	22.39	14.82	16.18	21.81	28.64	9.04	5.57	4.48	2.72	2.30	11.23 CMS
Max	2.28	20.40	258.80	28.00	28.45	81.50	240.32	11.60	8.60	7.70	3.20	2.52	258.80 CMS
Min	0.48	0.00	1.30	5.60	10.70	7.40	11.90	7.10	4.20	3.40	2.40	2.16	0.00 CMS
Runoff	3.00	13.67	58.04	39.70	43.34	56.54	76.72	23.43	14.92	12.01	6.59	6.16	354.11 MCM
Momentary Peak	460.20 CMS. at 794.44 m. (MSL.) at 21.00 Hours , on Jun 8 , 2009												
Runoff Yield	22.37 Liters/Second/Square KM.			Momentary Peak Yield			916.733 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Taeng at Ban Muang Pog , Chiang Mai (P.65)

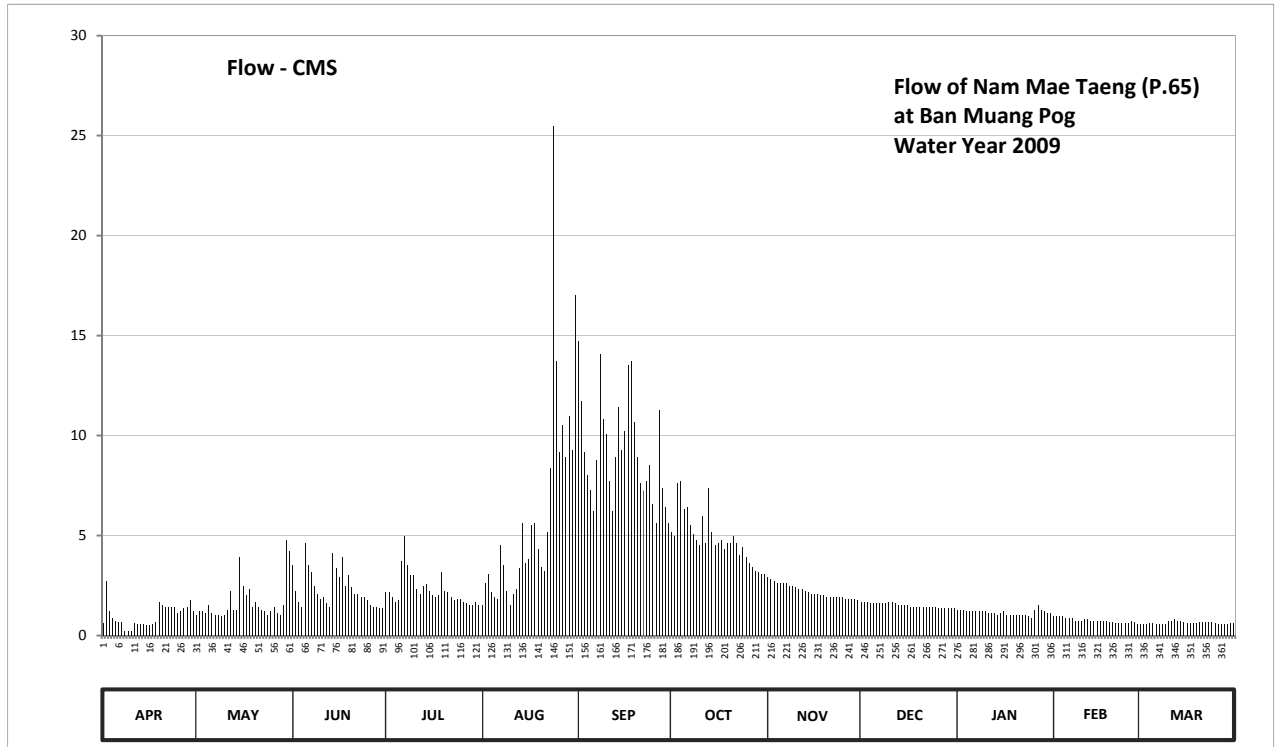
Lat 19 - 38 - 12 N Long 98 - 38 - 20 E

Location : on left bank at Ban Muang Pog.

	Ban	Muang Pog	Amphoe	Wiang Haeng	Changwat	Chiang Mai
Drainage Area	243	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+740.406 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+744.530 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1992 - 2001 , 2006 to date					
Rating Operation						
Period of Rating	1992 - 2001 , 2006 to date					
Rated by Flot	-					
Rated by Current Meter	1992 - 2001 , 2006 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 3 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	741.47	741.53	741.83	741.67	741.59	742.69	741.99	741.76	741.61	741.56	741.52	741.46	
2	741.74	741.55	741.68	741.67	741.73	742.50	741.97	741.75	741.61	741.56	741.52	741.46	
3	741.55	741.55	741.61	741.64	741.78	742.32	742.20	741.74	741.61	741.56	741.52	741.46	
4	741.51	741.54	741.58	741.61	741.67	742.23	742.21	741.73	741.60	741.55	741.52	741.47	
5	741.49	741.59	741.94	741.62	741.64	742.17	742.09	741.73	741.60	741.55	741.51	741.47	
6	741.48	741.54	741.83	741.85	741.63	742.08	742.10	741.73	741.60	741.55	741.51	741.46	
7	741.48	741.53	741.79	741.97	741.93	742.29	742.02	741.73	741.60	741.55	741.51	741.46	
8	741.38	741.53	741.71	741.83	741.83	742.65	741.98	741.71	741.60	741.55	741.49	741.46	
9	741.38	741.52	741.66	741.77	741.68	742.44	741.95	741.71	741.60	741.55	741.49	741.46	
10	741.38	741.53	741.63	741.77	741.59	742.39	741.93	741.70	741.61	741.55	741.49	741.49	
11	741.47	741.56	741.64	741.69	741.66	742.21	742.06	741.69	741.61	741.54	741.50	741.49	
12	741.46	741.68	741.60	741.66	741.69	742.08	741.94	741.69	741.60	741.54	741.50	741.50	
13	741.46	741.56	741.58	741.71	741.81	742.30	742.18	741.68	741.59	741.54	741.49	741.49	
14	741.46	741.56	741.89	741.72	742.03	742.48	741.99	741.67	741.59	741.53	741.49	741.49	
15	741.45	741.87	741.81	741.68	741.84	742.33	741.93	741.66	741.59	741.54	741.49	741.48	
16	741.45	741.71	741.76	741.65	741.86	742.40	741.94	741.66	741.59	741.55	741.49	741.47	
17	741.46	741.65	741.87	741.64	742.02	742.62	741.95	741.66	741.58	741.53	741.49	741.47	
18	741.48	741.69	741.71	741.65	742.03	742.63	741.91	741.65	741.58	741.53	741.49	741.47	
19	741.61	741.58	741.77	741.79	741.91	742.43	741.94	741.65	741.58	741.53	741.48	741.47	
20	741.59	741.61	741.70	741.68	741.82	742.30	741.94	741.64	741.58	741.53	741.48	741.48	
21	741.58	741.58	741.66	741.67	741.80	742.20	741.97	741.64	741.58	741.53	741.47	741.48	
22	741.58	741.56	741.66	741.64	741.99	742.17	741.94	741.64	741.58	741.53	741.47	741.48	
23	741.58	741.55	741.64	741.62	742.26	742.21	741.88	741.64	741.58	741.53	741.47	741.48	
24	741.58	741.53	741.64	741.63	743.20	742.27	741.92	741.64	741.58	741.52	741.47	741.48	
25	741.54	741.55	741.62	741.63	742.63	742.11	741.87	741.64	741.58	741.51	741.47	741.47	
26	741.55	741.58	741.59	741.61	742.32	742.03	741.84	741.63	741.57	741.56	741.49	741.46	
27	741.57	741.54	741.58	741.60	742.42	742.47	741.82	741.63	741.57	741.59	741.48	741.46	
28	741.58	741.53	741.58	741.59	742.30	742.18	741.80	741.63	741.57	741.56	741.46	741.46	
29	741.62	741.59	741.57	741.59	742.45	742.10	741.79	741.63	741.57	741.55		741.46	
30	741.55	741.95	741.57	741.61	742.33	742.03	741.78	741.62	741.57	741.54		741.47	
31		741.90		741.59	742.82		741.78		741.57	741.54		741.47	
Mean	741.52	741.60	741.69	741.68	742.01	742.31	741.96	741.68	741.59	741.54	741.49	741.47	
Max	741.74	741.95	741.94	741.97	743.20	742.69	742.21	741.76	741.61	741.59	741.52	741.50	743.20
Min	741.38	741.52	741.57	741.59	741.59	742.03	741.78	741.62	741.57	741.51	741.46	741.46	741.38
Annual Max Momentary Gage Height	743.73		m. (MSL.) ,			at 16.00 Hours , on Aug 24 , 2009							
Zero Gage at Bottom Elevation	740.41		m. (MSL.) ,			River Bed	740.81		m. (MSL)				
Left Bank Elevation		745.47		m. (MSL.) ,									
Right Bank Elevation		745.47		m. (MSL.) ,		Drainage Area	243		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	1.04	3.54	2.16	1.52	14.73	5.19	2.91	1.68	1.28	0.96	0.58	
2	2.74	1.20	2.24	2.16	2.65	11.70	4.97	2.83	1.68	1.28	0.96	0.58	
3	1.20	1.20	1.68	1.92	3.08	9.16	7.60	2.74	1.68	1.28	0.96	0.58	
4	0.88	1.12	1.44	1.68	2.16	7.99	7.73	2.65	1.60	1.20	0.96	0.63	
5	0.74	1.52	4.64	1.76	1.92	7.25	6.34	2.65	1.60	1.20	0.88	0.63	
6	0.69	1.12	3.54	3.72	1.84	6.22	6.45	2.65	1.60	1.20	0.88	0.58	
7	0.69	1.04	3.16	4.97	4.53	8.77	5.53	2.65	1.60	1.20	0.88	0.58	
8	0.20	1.04	2.49	3.54	3.54	14.05	5.08	2.49	1.60	1.20	0.74	0.58	
9	0.20	0.96	2.08	3.00	2.24	10.80	4.75	2.49	1.60	1.20	0.74	0.58	
10	0.20	1.04	1.84	3.00	1.52	10.07	4.53	2.40	1.68	1.20	0.74	0.74	
11	0.63	1.28	1.92	2.32	2.08	7.73	5.99	2.32	1.68	1.12	0.80	0.74	
12	0.58	2.24	1.60	2.08	2.32	6.22	4.64	2.32	1.60	1.12	0.80	0.80	
13	0.58	1.28	1.44	2.49	3.35	8.90	7.37	2.24	1.52	1.12	0.74	0.74	
14	0.58	1.28	4.10	2.57	5.65	11.40	5.19	2.16	1.52	1.04	0.74	0.74	
15	0.53	3.91	3.35	2.24	3.63	9.29	4.53	2.08	1.52	1.12	0.74	0.69	
16	0.53	2.49	2.91	2.00	3.82	10.20	4.64	2.08	1.52	1.20	0.74	0.63	
17	0.58	2.00	3.91	1.92	5.53	13.54	4.75	2.08	1.44	1.04	0.74	0.63	
18	0.69	2.32	2.49	2.00	5.65	13.71	4.31	2.00	1.44	1.04	0.74	0.63	
19	1.68	1.44	3.00	3.16	4.31	10.65	4.64	2.00	1.44	1.04	0.69	0.63	
20	1.52	1.68	2.40	2.24	3.44	8.90	4.64	1.92	1.44	1.04	0.69	0.69	
21	1.44	1.44	2.08	2.16	3.25	7.60	4.97	1.92	1.44	1.04	0.63	0.69	
22	1.44	1.28	2.08	1.92	5.19	7.25	4.64	1.92	1.44	1.04	0.63	0.69	
23	1.44	1.20	1.92	1.76	8.38	7.73	4.01	1.92	1.44	1.04	0.63	0.69	
24	1.44	1.04	1.92	1.84	25.50	8.51	4.42	1.92	1.44	0.96	0.63	0.69	
25	1.12	1.20	1.76	1.84	13.71	6.56	3.91	1.92	1.44	0.88	0.63	0.63	
26	1.20	1.44	1.52	1.68	9.16	5.65	3.63	1.84	1.36	1.28	0.74	0.58	
27	1.36	1.12	1.44	1.60	10.50	11.25	3.44	1.84	1.36	1.52	0.69	0.58	
28	1.44	1.04	1.44	1.52	8.90	7.37	3.25	1.84	1.36	1.28	0.58	0.58	
29	1.76	1.52	1.36	1.52	10.95	6.45	3.16	1.84	1.36	1.20		0.58	
30	1.20	4.75	1.36	1.68	9.29	5.65	3.08	1.76	1.36	1.12		0.63	
31		4.20		1.52	17.00		3.08		1.36	1.12		0.63	
Total	29.91	51.43	70.65	69.97	186.61	275.30	150.46	66.38	46.80	35.60	21.28	19.95	1024.34 CMSDAY
Mean	1.00	1.66	2.36	2.26	6.02	9.18	4.85	2.21	1.51	1.15	0.76	0.64	2.81 CMS
Max	2.74	4.75	4.64	4.97	25.50	14.73	7.73	2.91	1.68	1.52	0.96	0.80	25.50 CMS
Min	0.20	0.96	1.36	1.52	1.52	5.65	3.08	1.76	1.36	0.88	0.58	0.58	0.20 CMS
Runoff	2.58	4.44	6.10	6.05	16.12	23.79	13.00	5.74	4.04	3.08	1.84	1.72	88.50 MCM
Momentary Peak	40.69 CMS. at 743.73 m. (MSL.) at 16.00 Hours , on Aug 24 , 2009												
Runoff Yield	11.55 Liters/Second/Square KM.			Momentary Peak Yield			167.449 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Mae Tae , Chiang Mai (P.67)

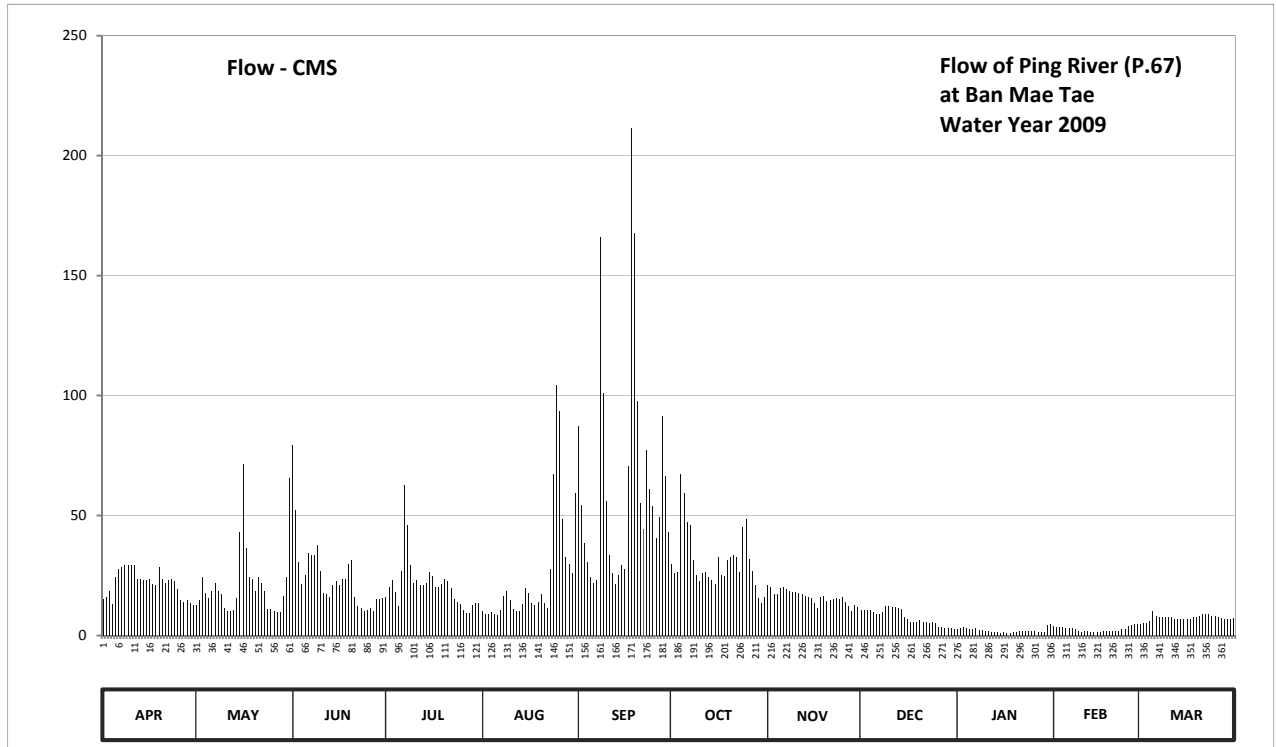
Lat 19 - 01 - 11 N Long 98 - 57 - 43 E

Location : on left bank at the bridge on highway.

	Ban Mae Tae	Amphoe San Sai	Changwat Chiang Mai
Drainage Area	5,323 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+315.926 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 20 meters from the top staff gage.	Elevation	+323.690 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1995 to date		
Rating Operation			
Period of Rating	1995 to date		
Rated by Flot	-		
Rated by Current Meter	1995 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. 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 41 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	316.18	316.11	317.06	316.20	316.05	317.13	316.44	316.29	316.06	315.68	315.79	315.83	
2	316.20	316.17	316.75	316.28	316.01	316.78	316.38	316.28	316.06	315.71	315.73	315.85	
3	316.25	316.35	316.45	316.33	316.01	316.56	316.39	316.22	316.06	315.73	315.73	315.85	
4	316.12	316.23	316.30	316.24	316.03	316.45	316.93	316.22	316.06	315.70	315.73	315.90	
5	316.35	316.19	316.37	316.10	316.01	316.35	316.84	316.27	316.03	315.68	315.71	316.04	
6	316.41	316.25	316.50	316.40	316.00	316.31	316.68	316.28	316.01	315.68	315.70	315.99	
7	316.42	316.31	316.49	316.88	316.06	316.33	316.66	316.26	316.01	315.70	315.71	315.96	
8	316.43	316.25	316.49	316.66	316.21	317.78	316.46	316.25	316.03	315.64	315.67	315.96	
9	316.43	316.22	316.55	316.43	316.25	317.26	316.37	316.24	316.10	315.62	315.59	315.97	
10	316.43	316.08	316.40	316.31	316.17	316.80	316.32	316.24	316.10	315.58	315.55	315.96	
11	316.43	316.05	316.23	316.33	316.07	316.49	316.38	316.23	316.09	315.58	315.60	315.97	
12	316.34	316.04	316.22	316.29	316.04	316.38	316.39	316.22	316.09	315.55	315.58	315.94	
13	316.34	316.06	316.20	316.29	316.05	316.30	316.35	316.21	316.08	315.53	315.56	315.94	
14	316.33	316.19	316.29	316.31	316.12	316.37	316.33	316.20	316.07	315.53	315.56	315.93	
15	316.33	316.62	316.32	316.39	316.27	316.43	316.30	316.19	315.96	315.52	315.56	315.94	
16	316.34	316.98	316.29	316.36	316.23	316.41	316.48	316.14	315.94	315.53	315.56	315.93	
17	316.30	316.53	316.34	316.28	316.14	316.97	316.37	316.08	315.88	315.52	315.58	315.93	
18	316.29	316.35	316.34	316.28	316.11	318.07	316.36	316.20	315.89	315.52	315.59	315.96	
19	316.42	316.34	316.44	316.30	316.15	317.79	316.46	316.21	315.89	315.53	315.58	315.96	
20	316.34	316.25	316.46	316.34	316.22	317.23	316.48	316.16	315.91	315.53	315.58	315.99	
21	316.31	316.35	316.20	316.32	316.13	316.79	316.49	316.17	315.89	315.57	315.58	316.01	
22	316.33	316.31	316.10	316.27	316.08	316.64	316.48	316.18	315.88	315.59	315.59	316.01	
23	316.34	316.25	316.08	316.18	316.41	317.04	316.39	316.19	315.86	315.60	315.67	316.01	
24	316.32	316.07	316.05	316.15	316.93	316.86	316.65	316.18	315.88	315.58	315.66	315.99	
25	316.26	316.07	316.06	316.12	317.29	316.77	316.70	316.20	315.85	315.57	315.80	315.98	
26	316.17	316.04	316.08	316.06	317.19	316.59	316.47	316.15	315.75	315.58	315.82	315.97	
27	316.15	316.03	316.05	316.02	316.70	316.71	316.40	316.10	315.74	315.55	315.83	315.95	
28	316.17	316.03	316.18	316.02	316.48	317.17	316.29	316.05	315.69	315.54	315.83	315.94	
29	316.14	316.21	316.18	316.11	316.44	316.92	316.19	316.11	315.72	315.56		315.94	
30	316.11	316.35	316.19	316.13	316.38	316.62	316.14	316.09	315.70	315.81		315.94	
31		316.91		316.13	316.84		316.20		315.67	315.83		315.95	
Mean	316.30	316.26	316.32	316.27	316.29	316.81	316.44	316.19	315.93	315.61	315.66	315.95	
Max	316.43	316.98	317.06	316.88	317.29	318.07	316.93	316.29	316.10	315.83	315.83	316.04	318.07
Min	316.11	316.03	316.05	316.02	316.00	316.30	316.14	316.05	315.67	315.52	315.55	315.83	315.52
Annual Max Momentary Gage Height		318.36		m. (MSL.) ,									at 15.00 Hours , on Sep 8 , 2009
Zero Gage at Bottom Elevation		315.93		m. (MSL.) ,		River Bed	314.22		m. (MSL)				
Left Bank Elevation		326.37		m. (MSL.) ,									
Right Bank Elevation		326.19		m. (MSL.) ,		Drainage Area	5323		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.25	12.62	79.48	16.00	10.37	87.04	29.90	20.95	10.75	2.80	3.90	4.60	
2	16.00	14.88	52.38	20.40	8.88	54.55	25.90	20.40	10.75	3.10	3.30	5.00	
3	18.75	24.25	30.63	23.15	8.88	38.60	26.45	17.10	10.75	3.30	3.30	5.00	
4	13.00	17.65	21.50	18.20	9.62	30.63	67.05	17.10	10.75	3.00	3.30	6.00	
5	24.25	15.62	25.35	12.25	8.88	24.25	59.40	19.85	9.62	2.80	3.10	10.00	
6	27.73	18.75	34.25	27.00	8.50	22.05	47.30	20.40	8.88	2.80	3.00	8.25	
7	28.45	22.05	33.52	62.80	10.75	23.15	45.85	19.30	8.88	3.00	3.10	7.50	
8	29.17	18.75	33.52	45.85	16.55	166.20	31.35	18.75	9.62	2.40	2.70	7.50	
9	29.17	17.10	37.87	29.17	18.75	101.08	25.35	18.20	12.25	2.20	1.90	7.75	
10	29.17	11.50	27.00	22.05	14.88	56.00	22.60	18.20	12.25	1.80	1.50	7.50	
11	29.17	10.37	17.65	23.15	11.13	33.52	25.90	17.65	11.87	1.80	2.00	7.75	
12	23.70	10.00	17.10	20.95	10.00	25.90	26.45	17.10	11.87	1.50	1.80	7.00	
13	23.70	10.75	16.00	20.95	10.37	21.50	24.25	16.55	11.50	1.30	1.60	7.00	
14	23.15	15.62	20.95	22.05	13.00	25.35	23.15	16.00	11.13	1.30	1.60	6.75	
15	23.15	42.95	22.60	26.45	19.85	29.17	21.50	15.62	7.50	1.20	1.60	7.00	
16	23.70	71.30	20.95	24.80	17.65	27.73	32.80	13.75	7.00	1.30	1.60	6.75	
17	21.50	36.43	23.70	20.40	13.75	70.45	25.35	11.50	5.60	1.20	1.80	6.75	
18	20.95	24.25	23.70	20.40	12.62	211.60	24.80	16.00	5.80	1.20	1.90	7.50	
19	28.45	23.70	29.90	21.50	14.12	167.60	31.35	16.55	5.80	1.30	1.80	7.50	
20	23.70	18.75	31.35	23.70	17.10	97.84	32.80	14.50	6.25	1.30	1.80	8.25	
21	22.05	24.25	16.00	22.60	13.37	55.28	33.52	14.88	5.80	1.70	1.80	8.88	
22	23.15	22.05	12.25	19.85	11.50	44.40	32.80	15.25	5.60	1.90	1.90	8.88	
23	23.70	18.75	11.50	15.25	27.73	77.32	26.45	15.62	5.20	2.00	2.70	8.88	
24	22.60	11.13	10.37	14.12	67.05	61.10	45.13	15.25	5.60	1.80	2.60	8.25	
25	19.30	11.13	10.75	13.00	104.32	53.83	48.75	16.00	5.00	1.70	4.00	8.00	
26	14.88	10.00	11.50	10.75	93.52	40.78	32.08	14.12	3.50	1.80	4.40	7.75	
27	14.12	9.62	10.37	9.25	48.75	49.48	27.00	12.25	3.40	1.50	4.60	7.25	
28	14.88	9.62	15.25	9.25	32.80	91.36	20.95	10.37	2.90	1.40	4.60	7.00	
29	13.75	16.55	15.25	12.62	29.90	66.20	15.62	12.62	3.20	1.60		7.00	
30	12.62	24.25	15.62	13.37	25.90	42.95	13.75	11.87	3.00	4.20		7.00	
31		65.35		13.37	59.40		16.00		2.70	4.60		7.25	
Total	653.16	659.99	728.26	654.65	769.89	1896.91	961.55	483.70	234.72	64.80	73.20	227.49	7408.32 CMSDAY
Mean	21.77	21.29	24.28	21.12	24.84	63.23	31.02	16.12	7.57	2.09	2.61	7.34	20.30 CMS
Max	29.17	71.30	79.48	62.80	104.32	211.60	67.05	20.95	12.25	4.60	4.60	10.00	211.60 CMS
Min	12.62	9.62	10.37	9.25	8.50	21.50	13.75	10.37	2.70	1.20	1.50	4.60	1.20 CMS
Runoff	56.43	57.02	62.92	56.56	66.52	163.89	83.08	41.79	20.28	5.60	6.32	19.66	640.08 MCM
Momentary Peak	263.80 CMS. at 318.36 m. (MSL.) at 15.00 Hours , on Sep 8 , 2009												
Runoff Yield	3.81 Liters/Second/Square KM.			Momentary Peak Yield				49.559 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Klang , Chiang Mai (P.71)

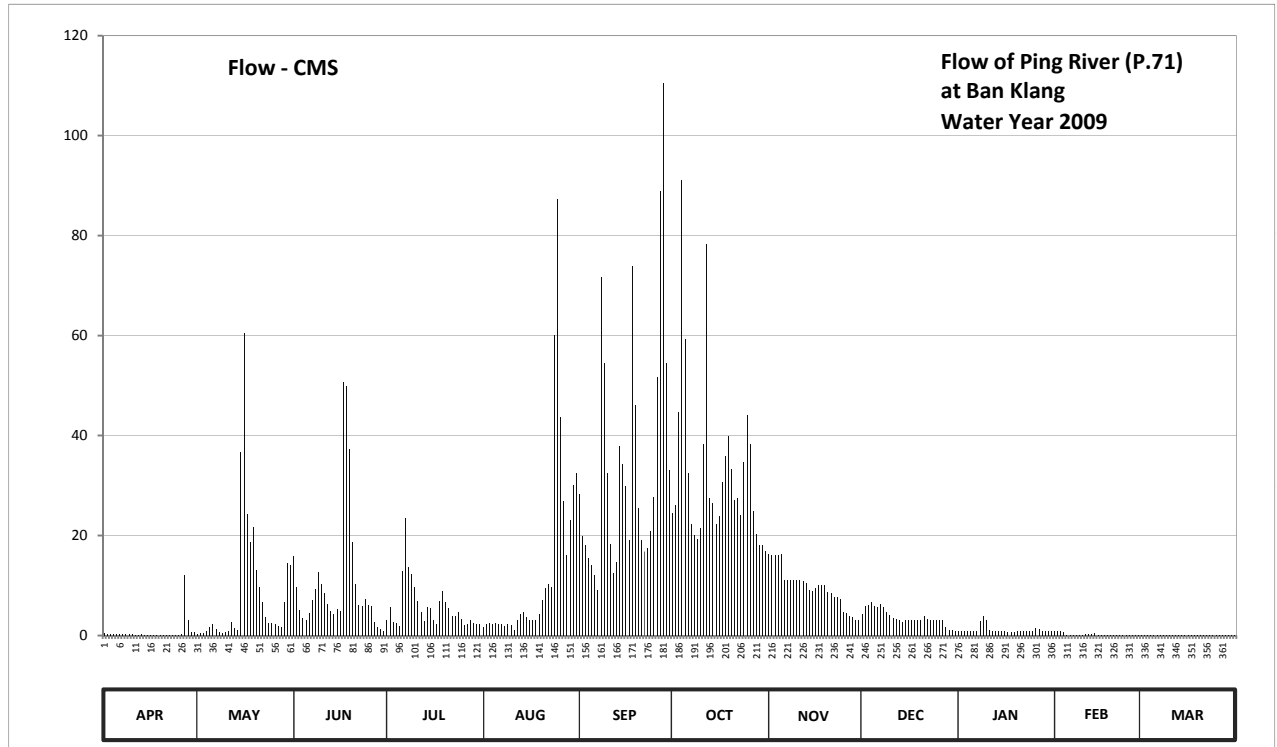
Lat 18 - 32 - 13 N Long 98 - 51 - 45 E

Location : on left bank at the bridge on highway.

	Ban	Klang	Amphoe	San Pa Tong	Changwat	Chiang Mai
Drainage Area	1,758	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+284.260 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 3 meters from the top staff gage.				Elevation	+290.660 m. (MSL.)
Gage Reading Frequency	3-time daily reading at 06.00, 12.00, and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. 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 15 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.50	284.45	285.37	284.77	284.66	285.86	285.72	285.39	284.84	284.56	284.56	284.76	
2	284.49	284.52	285.10	284.91	284.72	285.53	285.78	285.38	284.92	284.56	284.56	284.76	
3	284.49	284.52	284.88	284.74	284.73	285.46	286.39	285.38	284.93	284.56	284.56	284.76	
4	284.49	284.57	284.79	284.73	284.71	285.35	287.65	285.38	284.96	284.56	284.53	284.76	
5	284.49	284.67	284.76	284.68	284.73	285.29	286.81	285.39	284.92	284.56	284.43	284.75	
6	284.49	284.71	284.85	285.24	284.71	285.20	286.00	285.16	284.91	284.56	284.41	284.74	
7	284.49	284.63	284.98	285.68	284.71	285.07	285.63	285.16	284.94	284.59	284.41	284.74	
8	284.49	284.55	285.08	285.27	284.69	287.15	285.54	285.16	284.91	284.75	284.41	284.74	
9	284.46	284.52	285.23	285.21	284.71	286.67	285.51	285.16	284.86	284.81	284.41	284.74	
10	284.46	284.53	285.12	285.10	284.70	286.00	285.60	285.16	284.82	284.76	284.41	284.74	
11	284.43	284.59	285.04	284.97	284.61	285.47	286.19	285.16	284.79	284.61	284.48	284.74	
12	284.41	284.74	284.94	284.86	284.77	285.22	287.33	285.15	284.78	284.56	284.46	284.74	
13	284.44	284.65	284.87	284.75	284.84	285.32	285.83	285.13	284.76	284.56	284.46	284.74	
14	284.42	284.61	284.84	284.91	284.86	286.18	285.80	285.07	284.74	284.56	284.50	284.74	
15	284.42	286.14	284.89	284.90	284.80	286.06	285.63	285.06	284.76	284.56	284.75	284.74	
16	284.42	286.84	284.87	284.77	284.77	285.91	285.69	285.09	284.76	284.56	284.75	284.74	
17	284.41	285.71	286.56	284.71	284.77	285.50	285.94	285.11	284.76	284.55	284.75	284.74	
18	284.42	285.49	286.54	284.97	284.77	287.21	286.11	285.11	284.76	284.55	284.75	284.74	
19	284.41	285.61	286.16	285.06	284.84	286.43	286.24	285.11	284.76	284.55	284.75	284.76	
20	284.41	285.25	285.49	284.96	284.98	285.76	286.03	285.05	284.76	284.56	284.75	284.75	
21	284.39	285.10	285.12	284.90	285.09	285.50	285.82	285.04	284.81	284.56	284.75	284.74	
22	284.39	284.96	284.93	284.81	285.12	285.41	285.83	285.01	284.78	284.56	284.74	284.74	
23	284.39	284.80	284.92	284.81	285.10	285.44	285.70	285.01	284.76	284.56	284.74	284.74	
24	284.39	284.73	284.99	284.86	286.83	285.57	286.07	284.99	284.76	284.56	284.76	284.74	
25	284.39	284.73	284.93	284.78	287.56	285.84	286.37	284.86	284.76	284.56	284.76	284.72	
26	284.47	284.72	284.92	284.70	286.36	286.59	286.19	284.85	284.76	284.64	284.76	284.70	
27	285.20	284.68	284.74	284.71	285.81	287.60	285.73	284.81	284.76	284.62	284.76	284.68	
28	284.77	284.67	284.66	284.77	285.38	288.14	285.55	284.80	284.66	284.56	284.76	284.67	
29	284.55	284.96	284.63	284.73	285.66	286.67	285.46	284.76	284.61	284.56		284.66	
30	284.55	285.31	284.59	284.71	285.92	286.02	285.46	284.76	284.61	284.56		284.66	
31		285.29		284.72	286.00		285.41		284.56	284.56		284.66	
Mean	284.48	284.94	285.09	284.89	285.16	285.98	285.97	285.09	284.79	284.59	284.61	284.73	
Max	285.20	286.84	286.56	285.68	287.56	288.14	287.65	285.39	284.96	284.81	284.76	284.76	288.14
Min	284.39	284.45	284.59	284.68	284.61	285.07	285.41	284.76	284.56	284.55	284.41	284.66	284.39
Annual Max Momentary Gage Height	288.32		m. (MSL.) ,			at 12.00 Hours , on Sep 28 , 2009							
Zero Gage at Bottom Elevation	284.26		m. (MSL.) ,		River Bed	282.71	m. (MSL)						
Left Bank Elevation		290.76		m. (MSL.) ,									
Right Bank Elevation		290.74		m. (MSL.) ,	Drainage Area	1758	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.25	15.88	3.17	1.65	28.32	24.55	16.33	4.37	0.79	0.79	0.18	
2	0.37	0.53	9.80	5.66	2.37	19.80	26.05	16.10	5.87	0.79	0.79	0.18	
3	0.37	0.53	5.09	2.69	2.53	18.05	44.68	16.10	6.08	0.79	0.79	0.18	
4	0.37	0.86	3.49	2.53	2.21	15.43	91.00	16.10	6.71	0.79	0.59	0.18	
5	0.37	1.75	3.01	1.85	2.53	14.08	59.35	16.33	5.87	0.79	0.19	0.18	
6	0.37	2.21	4.55	12.95	2.21	12.05	32.45	11.15	5.66	0.79	0.13	0.18	
7	0.37	1.35	7.13	23.55	2.21	9.13	22.30	11.15	6.29	0.98	0.13	0.18	
8	0.37	0.72	9.35	13.62	1.95	71.62	20.05	11.15	5.66	2.85	0.13	0.18	
9	0.28	0.53	12.73	12.27	2.21	54.45	19.30	11.15	4.73	3.83	0.13	0.18	
10	0.28	0.59	10.25	9.80	2.05	32.45	21.55	11.15	4.01	3.01	0.13	0.18	
11	0.19	0.98	8.45	6.92	1.15	18.30	38.20	11.15	3.49	1.15	0.34	0.18	
12	0.13	2.69	6.29	4.73	3.17	12.50	78.37	10.92	3.33	0.79	0.28	0.18	
13	0.22	1.55	4.91	2.85	4.37	14.75	27.43	10.48	3.01	0.79	0.28	0.18	
14	0.16	1.15	4.37	5.66	4.73	37.89	26.55	9.13	2.69	0.79	0.40	0.18	
15	0.16	36.69	5.27	5.45	3.65	34.26	22.30	8.90	3.01	0.79	0.18	0.18	
16	0.16	60.40	4.91	3.17	3.17	29.80	23.80	9.57	3.01	0.79	0.18	0.18	
17	0.13	24.30	50.60	2.21	3.17	19.05	30.68	10.02	3.01	0.72	0.18	0.18	
18	0.16	18.80	49.90	6.92	3.17	73.87	35.78	10.02	3.01	0.72	0.18	0.18	
19	0.13	21.80	37.29	8.90	4.37	46.05	39.80	10.02	3.01	0.72	0.18	0.18	
20	0.13	13.18	18.80	6.71	7.13	25.55	33.36	8.67	3.01	0.79	0.18	0.18	
21	0.09	9.80	10.25	5.45	9.57	19.05	27.14	8.45	3.83	0.79	0.18	0.18	
22	0.09	6.71	6.08	3.83	10.25	16.80	27.43	7.78	3.33	0.79	0.18	0.18	
23	0.09	3.65	5.87	3.83	9.80	17.55	24.05	7.78	3.01	0.79	0.18	0.18	
24	0.09	2.53	7.34	4.73	60.05	20.80	34.57	7.34	3.01	0.79	0.18	0.18	
25	0.09	2.53	6.08	3.33	87.40	27.73	44.02	4.73	3.01	0.79	0.18	0.17	
26	0.31	2.37	5.87	2.05	43.70	51.65	38.20	4.55	3.01	1.45	0.18	0.16	
27	12.05	1.85	2.69	2.21	26.85	89.00	24.80	3.83	3.01	1.25	0.18	0.15	
28	3.17	1.75	1.65	3.17	16.10	110.60	20.30	3.65	1.65	0.79	0.18	0.15	
29	0.72	6.71	1.35	2.53	23.05	54.45	18.05	3.01	1.15	0.79		0.14	
30	0.72	14.53	0.98	2.21	30.09	33.05	18.05	3.01	1.15	0.79		0.14	
31		14.08		2.37	32.45		16.80		0.79	0.79		0.14	
Total	22.54	257.37	320.23	177.32	409.31	128.08	1010.96	289.72	112.78	33.27	7.62	5.37	3674.57 CMSDAY
Mean	0.75	8.30	10.67	5.72	13.20	34.27	32.61	9.66	3.64	1.07	0.27	0.17	10.07 CMS
Max	12.05	60.40	50.60	23.55	87.40	110.60	91.00	16.33	6.71	3.83	0.79	0.18	110.60 CMS
Min	0.09	0.25	0.98	1.85	1.15	9.13	16.80	3.01	0.79	0.72	0.13	0.14	0.09 CMS
Runoff	1.95	22.24	27.67	15.32	35.36	88.83	87.35	25.03	9.74	2.88	0.66	0.46	317.48 MCM
Momentary Peak	118.10 CMS. at 288.32 m. (MSL.) at 12.00 Hours , on Sep 28 , 2009												
Runoff Yield	5.73 Liters/Second/Square KM.			Momentary Peak Yield			67.179 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Sop Soi , Chiang Mai (P.73)

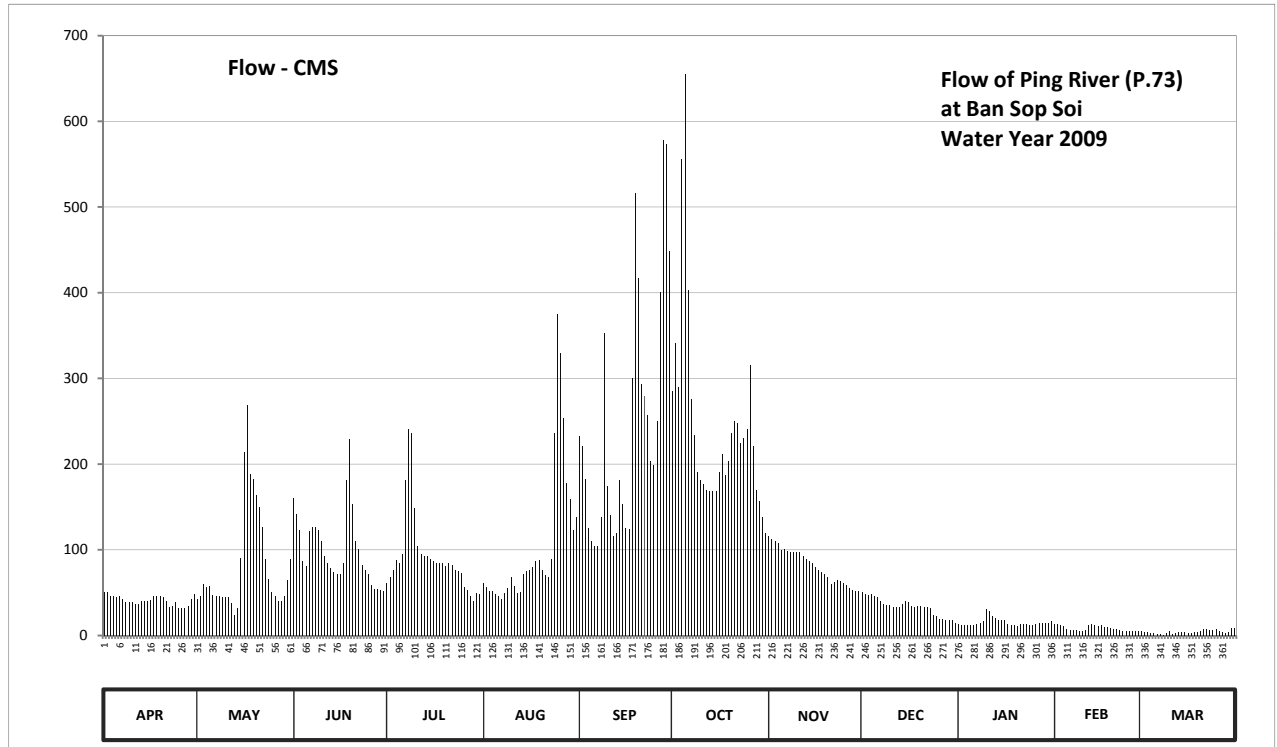
Lat 18 - 17 - 25 N Long 98 - 39 - 01 E

Location : on left bank at Sop Soi Phatana Bridge.

	Ban Sop Soi	Amphoe Chom Thong	Changwat Chiang Mai
Drainage Area	14,814 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+261.750 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 15 meters from the abutment of the bridge.	Elevation	+267.505 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. No gage height in the drought period. Stage-discharge relation defined by 33 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.35	261.27	262.18	261.45	261.45	262.63	262.93	261.87	261.35	260.92	260.92	260.75	
2	261.35	261.31	262.05	261.51	261.41	262.56	263.23	261.85	261.33	260.90	260.91	260.74	
3	261.31	261.44	261.92	261.57	261.37	262.32	262.96	261.83	261.32	260.90	260.90	260.73	
4	261.31	261.41	261.65	261.66	261.37	261.94	264.27	261.81	261.33	260.89	260.87	260.68	
5	261.29	261.42	261.61	261.63	261.33	261.83	264.71	261.75	261.30	260.89	260.81	260.69	
6	261.31	261.32	261.91	261.72	261.30	261.79	263.54	261.76	261.29	260.90	260.79	260.66	
7	261.27	261.31	261.95	262.31	261.27	261.79	262.88	261.74	261.25	260.91	260.79	260.64	
8	261.23	261.31	261.95	262.68	261.34	262.03	262.64	261.73	261.21	260.94	260.79	260.63	
9	261.23	261.29	261.92	262.65	261.40	263.29	262.37	261.73	261.20	260.98	260.78	260.71	
10	261.23	261.29	261.83	262.10	261.51	262.27	262.31	261.73	261.19	261.14	260.77	260.75	
11	261.21	261.29	261.70	261.79	261.42	262.04	262.28	261.73	261.17	261.11	260.80	260.67	
12	261.21	261.22	261.64	261.72	261.34	261.87	262.24	261.70	261.17	261.05	260.90	260.70	
13	261.25	261.06	261.59	261.70	261.35	261.90	262.23	261.67	261.17	261.03	260.91	260.74	
14	261.25	261.15	261.55	261.70	261.53	262.31	262.23	261.65	261.21	260.99	260.89	260.73	
15	261.25	261.68	261.53	261.67	261.56	262.13	262.23	261.63	261.24	261.00	260.88	260.72	
16	261.26	262.52	261.53	261.65	261.57	261.94	262.37	261.60	261.23	261.00	260.89	260.70	
17	261.30	262.84	261.63	261.64	261.60	261.93	262.50	261.57	261.18	260.91	260.86	260.69	
18	261.30	262.36	262.31	261.63	261.65	263.02	262.35	261.55	261.17	260.89	260.85	260.72	
19	261.31	262.32	262.61	261.63	261.66	264.09	262.45	261.53	261.18	260.89	260.84	260.72	
20	261.29	262.20	262.13	261.61	261.57	263.61	262.65	261.51	261.18	260.87	260.82	260.76	
21	261.24	262.11	261.83	261.63	261.52	262.98	262.73	261.44	261.17	260.92	260.81	260.81	
22	261.17	261.95	261.76	261.62	261.51	262.90	262.72	261.46	261.17	260.92	260.79	260.81	
23	261.18	261.67	261.62	261.57	261.67	262.77	262.58	261.48	261.15	260.91	260.77	260.79	
24	261.23	261.49	261.57	261.56	262.65	262.45	262.62	261.47	261.07	260.89	260.76	260.80	
25	261.15	261.35	261.53	261.54	263.40	262.42	262.68	261.45	261.05	260.90	260.75	260.81	
26	261.15	261.31	261.43	261.41	263.17	262.73	263.10	261.43	261.02	260.92	260.75	260.76	
27	261.16	261.25	261.39	261.38	262.75	263.53	262.56	261.40	261.01	260.95	260.75	260.73	
28	261.18	261.25	261.39	261.31	262.29	264.37	262.24	261.38	260.99	260.95	260.75	260.71	
29	261.27	261.30	261.38	261.25	262.17	264.35	262.15	261.37	260.99	260.95		260.73	
30	261.33	261.48	261.37	261.34	261.92	263.77	262.03	261.37	260.99	260.95		260.84	
31		261.67		261.33	262.03		261.90		260.95	260.98		260.83	
Mean	261.25	261.58	261.75	261.68	261.74	262.65	262.67	261.61	261.17	260.95	260.83	260.73	
Max	261.35	262.84	262.61	262.68	263.40	264.37	264.71	261.87	261.35	261.14	260.92	260.84	264.71
Min	261.15	261.06	261.37	261.25	261.27	261.79	261.90	261.37	260.95	260.87	260.75	260.63	260.63
Annual Max Momentary Gage Height		264.79	m. (MSL.) ,				at 07.00 Hours , on Oct 5 , 2009						
Zero Gage at Bottom Elevation		261.75	m. (MSL.) ,			River Bed	260.31	m. (MSL)					
Left Bank Elevation			267.73	m. (MSL.) ,									
Right Bank Elevation			267.02	m. (MSL.) ,		Drainage Area	14814	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.25	42.65	161.00	61.25	61.25	232.25	284.75	115.80	50.25	13.40	13.40	4.75	
2	50.25	46.45	141.50	68.75	56.25	220.60	341.00	113.00	48.35	12.25	12.83	4.40	
3	46.45	60.00	122.80	76.25	52.15	182.60	290.00	110.20	47.40	12.25	12.25	4.05	
4	46.45	56.25	86.50	87.80	52.15	125.60	555.75	107.40	48.35	11.68	10.53	2.40	
5	44.55	57.50	81.30	83.90	48.35	110.20	654.75	99.50	45.50	11.68	7.08	2.70	
6	46.45	47.40	121.40	95.60	45.50	104.70	403.00	100.80	44.55	12.25	6.15	1.80	
7	42.65	46.45	127.00	181.05	42.65	104.70	276.00	98.20	40.75	12.83	6.15	1.20	
8	38.85	46.45	127.00	241.00	49.30	138.50	234.00	96.90	36.95	14.55	6.15	0.90	
9	38.85	44.55	122.80	235.75	55.00	353.00	190.35	96.90	36.00	16.85	5.80	3.35	
10	38.85	44.55	110.20	149.00	68.75	174.85	181.05	96.90	35.10	30.60	5.45	4.75	
11	36.95	44.55	93.00	104.70	57.50	140.00	176.40	96.90	33.30	27.90	6.50	2.10	
12	36.95	37.90	85.20	95.60	49.30	115.80	170.20	93.00	33.30	22.50	12.25	3.00	
13	40.75	23.40	78.75	93.00	50.25	120.00	168.65	89.10	33.30	20.70	12.83	4.40	
14	40.75	31.50	73.75	93.00	71.25	181.05	168.65	86.50	36.95	17.42	11.68	4.05	
15	40.75	90.40	71.25	89.10	75.00	153.50	168.65	83.90	39.80	18.00	11.10	3.70	
16	41.70	214.20	71.25	86.50	76.25	125.60	190.35	80.00	38.85	18.00	11.68	3.00	
17	45.50	269.00	83.90	85.20	80.00	124.20	211.00	76.25	34.20	12.83	9.95	2.70	
18	45.50	188.80	181.05	83.90	86.50	300.80	187.25	73.75	33.30	11.68	9.38	3.70	
19	46.45	182.60	228.75	83.90	87.80	516.35	203.00	71.25	34.20	11.68	8.80	3.70	
20	44.55	164.00	153.50	81.30	76.25	417.00	235.75	68.75	34.20	10.53	7.65	5.10	
21	39.80	150.50	110.20	83.90	70.00	293.50	249.75	60.00	33.30	13.40	7.08	7.08	
22	33.30	127.00	100.80	82.60	68.75	279.50	248.00	62.50	33.30	13.40	6.15	7.08	
23	34.20	89.10	82.60	76.25	89.10	256.75	223.80	65.00	31.50	12.83	5.45	6.15	
24	38.85	66.25	76.25	75.00	235.75	203.00	230.50	63.75	24.30	11.68	5.10	6.50	
25	31.50	50.25	71.25	72.50	375.00	198.20	241.00	61.25	22.50	12.25	4.75	7.08	
26	31.50	46.45	58.75	56.25	329.30	249.75	316.00	58.75	19.80	13.40	4.75	5.10	
27	32.40	40.75	54.05	53.10	253.25	401.00	220.60	55.00	18.90	15.13	4.75	4.05	
28	34.20	40.75	54.05	46.45	177.95	578.25	170.20	53.10	17.42	15.13	4.75	3.35	
29	42.65	45.50	53.10	40.75	159.50	573.75	156.50	52.15	17.42	15.13		4.05	
30	48.35	65.00	52.15	49.30	122.80	449.00	138.50	52.15	17.42	15.13		8.80	
31		89.10		48.35	138.50		120.00		15.13	16.85		8.22	
Total	1230.20	2549.25	3035.10	2861.00	3261.35	7424.00	7605.40	2438.65	1035.59	473.91	230.39	133.21	32278.05 CMSDAY
Mean	41.01	82.23	101.17	92.29	105.20	247.47	245.34	81.29	33.41	15.29	8.23	4.30	88.43 CMS
Max	50.25	269.00	228.75	241.00	375.00	578.25	654.75	115.80	50.25	30.60	13.40	8.80	654.75 CMS
Min	31.50	23.40	52.15	40.75	42.65	104.70	120.00	52.15	15.13	10.53	4.75	0.90	0.90 CMS
Runoff	106.29	220.26	262.23	247.19	281.78	641.43	657.11	210.70	89.48	40.95	19.91	11.51	2788.82 MCM
Momentary Peak	672.75 CMS. at 264.79 m. (MSL.) at 07.00 Hours , on Oct 5 , 2009												
Runoff Yield	5.97 Liters/Second/Square KM.			Momentary Peak Yield				45,413 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Cho Lae , Chiang Mai (P.75)

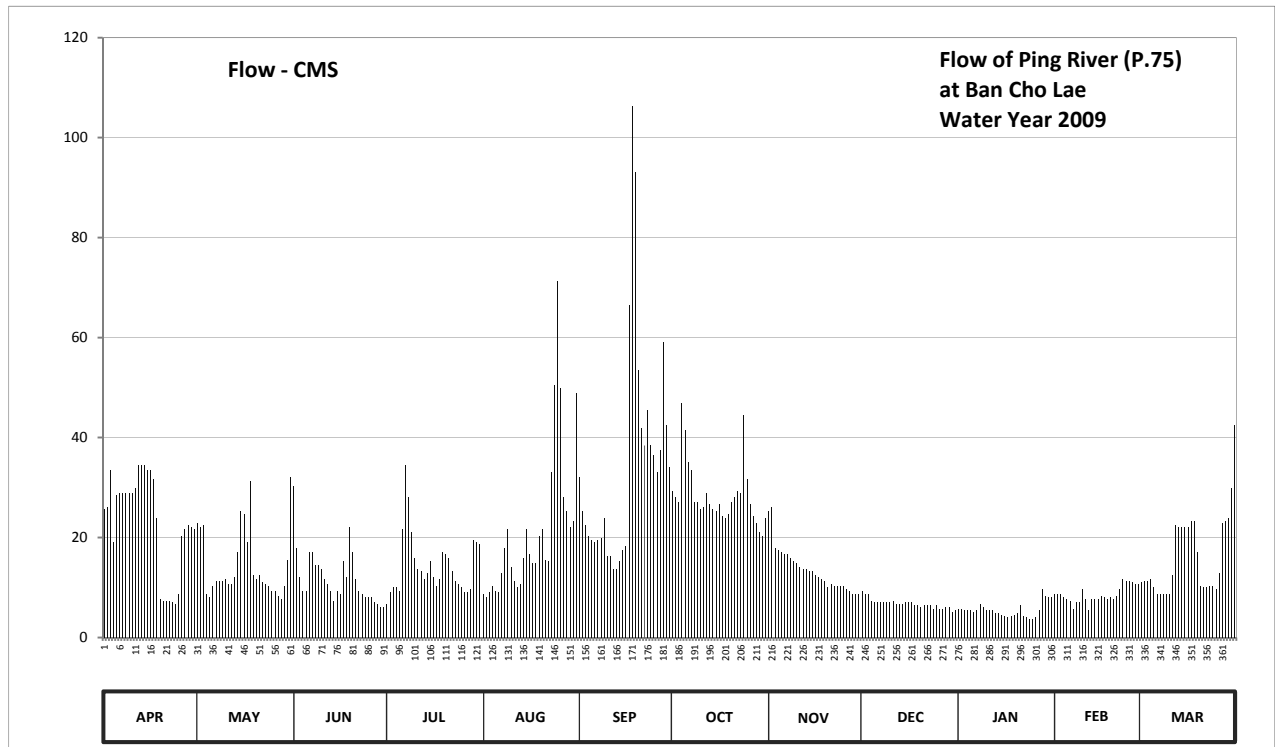
Lat 19 - 08 - 58 N Long 99 - 00 - 43 E

Location : on left bank at the bridge on road.

	Ban Cho Lae	Amphoe Mae Teang	Changwat Chiang Mai
Drainage Area	3,088 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+337.600 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 3 meters from the top staff gage.		Elevation +341.805 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	338.65	338.59	338.75	338.16	338.22	338.79	338.73	338.64	338.24	338.13	338.22	338.29	
2	338.66	338.57	338.47	338.23	338.20	338.64	338.70	338.66	338.22	338.13	338.22	338.30	
3	338.82	338.58	338.32	338.26	338.23	338.58	338.68	338.47	338.22	338.12	338.22	338.30	
4	338.50	338.22	338.24	338.26	338.27	338.53	339.09	338.46	338.18	338.12	338.20	338.31	
5	338.71	338.20	338.24	338.24	338.24	338.51	338.98	338.45	338.17	338.12	338.19	338.26	
6	338.72	338.27	338.45	338.56	338.23	338.50	338.85	338.44	338.17	338.11	338.18	338.22	
7	338.72	338.30	338.45	338.84	338.34	338.51	338.82	338.44	338.17	338.12	338.13	338.22	
8	338.72	338.30	338.38	338.70	338.47	338.52	338.68	338.42	338.17	338.16	338.17	338.22	
9	338.72	338.30	338.38	338.55	338.56	338.61	338.68	338.40	338.17	338.14	338.17	338.22	
10	338.72	338.31	338.36	338.42	338.37	338.43	338.65	338.39	338.17	338.12	338.25	338.22	
11	338.74	338.28	338.31	338.36	338.30	338.43	338.66	338.37	338.18	338.12	338.19	338.33	
12	338.84	338.28	338.28	338.35	338.26	338.36	338.72	338.36	338.16	338.12	338.12	338.58	
13	338.84	338.32	338.24	338.31	338.28	338.36	338.67	338.36	338.16	338.10	338.19	338.57	
14	338.84	338.45	338.18	338.34	338.42	338.40	338.65	338.35	338.16	338.10	338.19	338.57	
15	338.82	338.64	338.24	338.40	338.56	338.46	338.64	338.35	338.17	338.09	338.19	338.57	
16	338.82	338.63	338.22	338.32	338.44	338.48	338.67	338.33	338.17	338.08	338.21	338.57	
17	338.78	338.50	338.40	338.27	338.39	339.45	338.62	338.32	338.17	338.07	338.20	338.60	
18	338.61	338.77	338.32	338.31	338.39	340.07	338.61	338.31	338.15	338.08	338.19	338.60	
19	338.19	338.33	338.57	338.45	338.53	339.87	338.63	338.30	338.15	338.09	338.20	338.45	
20	338.18	338.31	338.45	338.44	338.56	339.22	338.68	338.26	338.14	338.10	338.19	338.27	
21	338.18	338.33	338.31	338.42	338.41	338.99	338.70	338.28	338.15	338.15	338.21	338.26	
22	338.18	338.29	338.24	338.35	338.40	338.92	338.73	338.27	338.15	338.08	338.25	338.26	
23	338.17	338.28	338.22	338.30	338.81	339.06	338.72	338.27	338.15	338.07	338.31	338.27	
24	338.16	338.27	338.20	338.28	339.16	338.92	339.04	338.27	338.13	338.06	338.30	338.27	
25	338.22	338.24	338.20	338.26	339.53	338.88	338.78	338.27	338.15	338.06	338.30	338.25	
26	338.53	338.24	338.20	338.23	339.15	338.81	338.67	338.25	338.13	338.07	338.29	338.34	
27	338.56	338.21	338.17	338.23	338.70	338.90	338.62	338.24	338.13	338.12	338.28	338.59	
28	338.58	338.19	338.16	338.25	338.64	339.32	338.59	338.22	338.14	338.25	338.28	338.60	
29	338.57	338.27	338.14	338.51	338.57	339.00	338.55	338.22	338.14	338.21		338.61	
30	338.56	338.41	338.14	338.50	338.60	338.83	338.53	338.22	338.11	338.20		338.74	
31		338.79		338.49	339.13		338.61		338.12	338.20		339.00	
Mean	338.58	338.38	338.31	338.37	338.53	338.81	338.71	338.35	338.16	338.12	338.22	338.41	
Max	338.84	338.79	338.75	338.84	339.53	340.07	339.09	338.66	338.24	338.25	338.31	339.00	340.07
Min	338.16	338.19	338.14	338.16	338.20	338.36	338.53	338.22	338.11	338.06	338.12	338.22	338.06
Annual Max Momentary Gage Height	340.24		m. (MSL.) ,			at 17.00 Hours , on Sep 18 , 2009							
Zero Gage at Bottom Elevation	337.60		m. (MSL.) ,			River Bed	336.60	m. (MSL)					
Left Bank Elevation		345.12		m. (MSL.) ,									
Right Bank Elevation		345.00		m. (MSL.) ,		Drainage Area	3088	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.70	22.96	30.30	6.72	8.68	32.14	29.38	25.24	9.36	5.76	8.68	11.06	
2	26.16	22.08	17.86	9.02	8.00	25.24	28.00	26.16	8.68	5.76	8.68	11.40	
3	33.56	22.52	12.16	10.04	9.02	22.52	27.08	17.86	8.68	5.44	8.68	11.40	
4	19.00	8.68	9.36	10.04	10.38	20.32	46.90	17.48	7.36	5.44	8.00	11.78	
5	28.46	8.00	9.36	9.36	9.36	19.44	41.40	17.10	7.04	5.44	7.68	10.04	
6	28.92	10.38	17.10	21.64	9.02	19.00	35.00	16.72	7.04	5.12	7.36	8.68	
7	28.92	11.40	17.10	34.52	12.92	19.44	33.56	16.72	7.04	5.44	5.76	8.68	
8	28.92	11.40	14.44	28.00	17.86	19.88	27.08	15.96	7.04	6.72	7.04	8.68	
9	28.92	11.40	14.44	21.20	21.64	23.86	27.08	15.20	7.04	6.08	7.04	8.68	
10	28.92	11.78	13.68	15.96	14.06	16.34	25.70	14.82	7.04	5.44	9.70	8.68	
11	29.84	10.72	11.78	13.68	11.40	16.34	26.16	14.06	7.36	5.44	7.68	12.54	
12	34.52	10.72	10.72	13.30	10.04	13.68	28.92	13.68	6.72	5.44	5.44	22.52	
13	34.52	12.16	9.36	11.78	10.72	13.68	26.62	13.68	6.72	4.80	7.68	22.08	
14	34.52	17.10	7.36	12.92	15.96	15.20	25.70	13.30	6.72	4.80	7.68	22.08	
15	33.56	25.24	9.36	15.20	21.64	17.48	25.24	13.30	7.04	4.54	7.68	22.08	
16	33.56	24.78	8.68	12.16	16.72	18.24	26.62	12.54	7.04	4.28	8.34	22.08	
17	31.68	19.00	15.20	10.38	14.82	66.50	24.32	12.16	7.04	4.02	8.00	23.40	
18	23.86	31.22	12.16	11.78	14.82	106.40	23.86	11.78	6.40	4.28	7.68	23.40	
19	7.68	12.54	22.08	17.10	20.32	93.05	24.78	11.40	6.40	4.54	8.00	17.10	
20	7.36	11.78	17.10	16.72	21.64	53.51	27.08	10.04	6.08	4.80	7.68	10.38	
21	7.36	12.54	11.78	15.96	15.58	41.90	28.00	10.72	6.40	6.40	8.34	10.04	
22	7.36	11.06	9.36	13.30	15.20	38.40	29.38	10.38	6.40	4.28	9.70	10.04	
23	7.04	10.72	8.68	11.40	33.08	45.40	28.92	10.38	6.40	4.02	11.78	10.38	
24	6.72	10.38	8.00	10.72	50.40	38.40	44.40	10.38	5.76	3.76	11.40	10.38	
25	8.68	9.36	8.00	10.04	71.30	36.44	31.68	10.38	6.40	3.76	11.40	9.70	
26	20.32	9.36	8.00	9.02	49.90	33.08	26.62	9.70	5.76	4.02	11.06	12.92	
27	21.64	8.34	7.04	9.02	28.00	37.40	24.32	9.36	5.76	5.44	10.72	22.96	
28	22.52	7.68	6.72	9.70	25.24	59.06	22.96	8.68	6.08	9.70	10.72	23.40	
29	22.08	10.38	6.08	19.44	22.08	42.40	21.20	8.68	6.08	8.34	23.86	23.86	
30	21.64	15.58	6.08	19.00	23.40	34.04	20.32	8.68	5.12	8.00	29.84	29.84	
31		32.14		18.62	48.90		23.86		5.44	8.00		42.40	
Total	693.94	453.40	359.34	447.74	662.10	1038.78	882.14	406.54	209.44	169.30	239.60	502.66	6064.98 CMSDAY
Mean	23.13	14.63	11.98	14.44	21.36	34.63	28.46	13.55	6.76	5.46	8.56	16.21	16.62 CMS
Max	34.52	32.14	30.30	34.52	71.30	106.40	46.90	26.16	9.36	9.70	11.78	42.40	106.40 CMS
Min	6.72	7.68	6.08	6.72	8.00	13.68	20.32	8.68	5.12	3.76	5.44	8.68	3.76 CMS
Runoff	59.96	39.17	31.05	38.69	57.21	89.75	76.22	35.13	18.10	14.63	20.70	43.43	524.01 MCM
Momentary Peak	118.30 CMS. at 340.24 m. (MSL.) at 17.00 Hours , on Sep 18 , 2009												
Runoff Yield	5.38 Liters/Second/Square KM.			Momentary Peak Yield			38.310 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

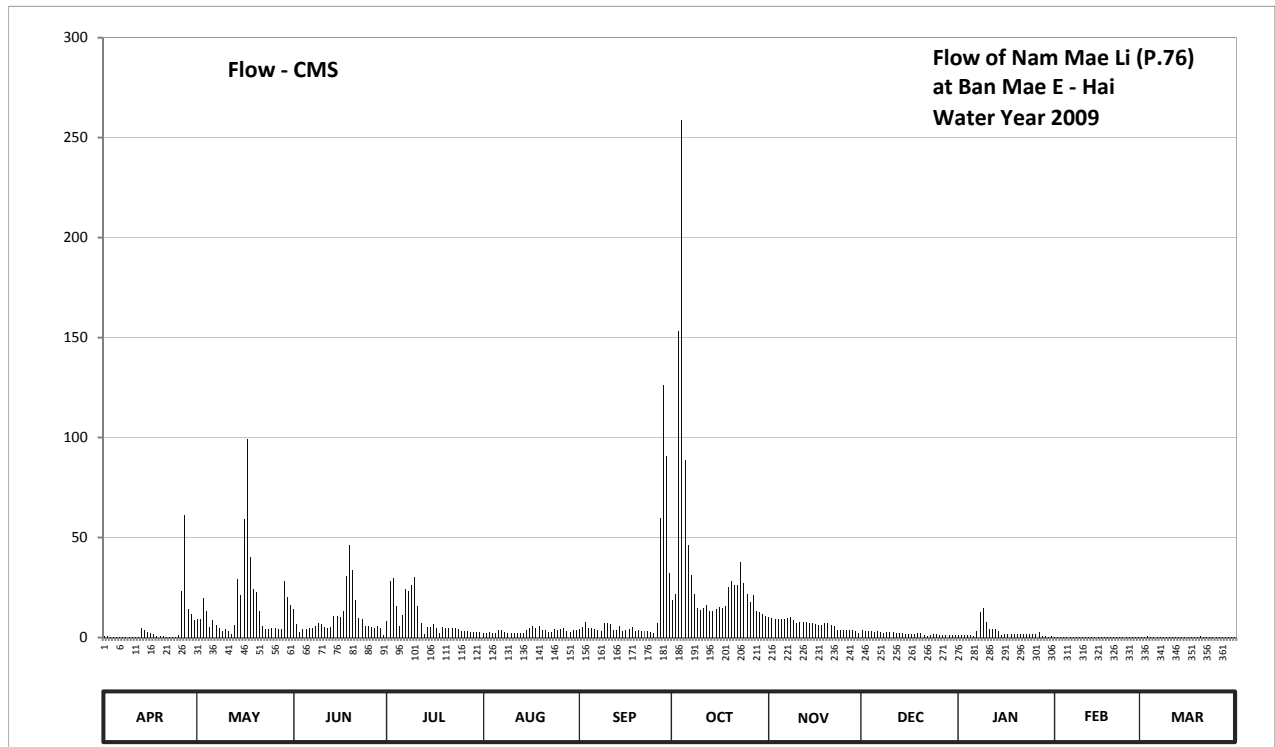
Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	Amphoe Li	Changwat Lamphun
Drainage Area	1,544	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+363.617 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 15 meters from the top staff gage.		Elevation +370.937 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	364.29	364.79	364.98	364.74	364.44	364.56	365.12	364.82	364.52	364.34	364.26	364.22	
2	364.30	364.79	364.68	365.38	364.43	364.61	365.20	364.81	364.51	364.35	364.23	364.25	
3	364.27	365.14	364.47	365.42	364.47	364.72	367.04	364.79	364.49	364.35	364.20	364.32	
4	364.27	364.95	364.56	365.03	364.44	364.59	367.96	364.78	364.49	364.34	364.21	364.26	
5	364.26	364.60	364.54	364.62	364.43	364.58	366.34	364.79	364.48	364.34	364.26	364.23	
6	364.26	364.76	364.58	364.87	364.52	364.55	365.74	364.79	364.49	364.33	364.25	364.23	
7	364.26	364.67	364.59	365.28	364.52	364.52	365.45	364.80	364.47	364.49	364.27	364.22	
8	364.25	364.58	364.63	365.24	364.48	364.50	365.20	364.82	364.44	364.93	364.27	364.22	
9	364.25	364.50	364.71	365.32	364.45	364.70	365.00	364.77	364.48	365.00	364.25	364.22	
10	364.25	364.55	364.68	365.43	364.45	364.70	364.96	364.70	364.48	364.73	364.25	364.22	
11	364.25	364.49	364.60	365.02	364.44	364.69	365.00	364.73	364.48	364.56	364.25	364.22	
12	364.25	364.42	364.59	364.70	364.43	364.53	365.05	364.73	364.45	364.55	364.24	364.22	
13	364.59	364.66	364.60	364.42	364.43	364.53	364.95	364.72	364.44	364.54	364.25	364.22	
14	364.52	365.40	364.85	364.61	364.45	364.62	364.95	364.71	364.43	364.51	364.24	364.22	
15	364.48	365.19	364.85	364.61	364.53	364.51	364.98	364.70	364.41	364.37	364.23	364.22	
16	364.43	365.93	364.83	364.68	364.57	364.52	365.01	364.69	364.40	364.39	364.22	364.22	
17	364.39	366.47	364.94	364.58	364.63	364.55	364.99	364.67	364.41	364.41	364.21	364.22	
18	364.33	365.64	365.44	364.43	364.57	364.61	365.02	364.67	364.41	364.41	364.20	364.22	
19	364.32	365.28	365.74	364.61	364.62	364.51	365.30	364.70	364.43	364.41	364.20	364.25	
20	364.30	365.23	365.51	364.59	364.53	364.52	365.38	364.70	364.45	364.39	364.21	364.28	
21	364.27	364.95	365.12	364.57	364.52	364.51	365.33	364.67	364.36	364.41	364.20	364.27	
22	364.25	364.64	364.81	364.59	364.48	364.50	365.32	364.62	364.30	364.41	364.22	364.25	
23	364.20	364.55	364.78	364.57	364.47	364.50	365.59	364.52	364.36	364.40	364.21	364.23	
24	364.22	364.55	364.62	364.54	364.54	364.47	365.35	364.52	364.39	364.40	364.22	364.23	
25	364.37	364.59	364.63	364.50	364.53	364.45	365.21	364.53	364.41	364.40	364.21	364.24	
26	365.25	364.59	364.60	364.50	364.56	364.70	365.09	364.53	364.38	364.39	364.21	364.23	
27	365.96	364.56	364.58	364.49	364.57	365.94	365.19	364.53	364.37	364.46	364.20	364.22	
28	364.97	364.55	364.64	364.48	364.49	366.76	364.95	364.53	364.37	364.32	364.22	364.22	
29	364.89	365.38	364.57	364.46	364.48	366.37	364.92	364.50	364.37	364.28		364.22	
30	364.77	365.17	364.38	364.46	364.52	365.47	364.88	364.43	364.34	364.27		364.19	
31		365.05		364.46	364.52		364.85		364.34	364.29		364.18	
Mean	364.46	364.92	364.77	364.75	364.50	364.78	365.33	364.68	364.42	364.44	364.23	364.23	
Max	365.96	366.47	365.74	365.43	364.63	366.76	367.96	364.82	364.52	365.00	364.27	364.32	367.96
Min	364.20	364.42	364.38	364.42	364.43	364.45	364.85	364.43	364.30	364.27	364.20	364.18	364.18
Annual Max Momentary Gage Height	368.40		m. (MSL.) ,				at 09.00 Hours , on Oct 4 , 2009						
Zero Gage at Bottom Elevation	363.62		m. (MSL.) ,			River Bed	363.64		m. (MSL)				
Left Bank Elevation		371.47		m. (MSL.) ,									
Right Bank Elevation		371.47		m. (MSL.) ,		Drainage Area	1544		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	9.26	14.24	8.06	2.24	4.34	18.82	10.00	3.58	1.00	0.44	0.28	
2	0.60	9.26	6.70	28.25	2.08	5.30	21.50	9.75	3.39	1.10	0.32	0.40	
3	0.48	19.49	2.72	29.90	2.72	7.58	153.00	9.26	3.04	1.10	0.20	0.80	
4	0.48	13.40	4.34	15.80	2.24	4.91	258.80	9.02	3.04	1.00	0.24	0.44	
5	0.44	5.10	3.96	5.50	2.08	4.72	88.50	9.26	2.88	1.00	0.44	0.32	
6	0.44	8.54	4.72	11.25	3.58	4.15	46.40	9.26	3.04	0.90	0.40	0.32	
7	0.44	6.50	4.91	24.50	3.58	3.58	31.25	9.50	2.72	3.04	0.48	0.28	
8	0.40	4.72	5.70	23.00	2.88	3.20	21.50	10.00	2.24	12.84	0.48	0.28	
9	0.40	3.20	7.34	26.00	2.40	7.10	14.80	8.78	2.88	14.80	0.40	0.28	
10	0.40	4.15	6.70	30.35	2.40	7.10	13.68	7.10	2.88	7.82	0.40	0.28	
11	0.40	3.04	5.10	15.47	2.24	6.90	14.80	7.82	2.88	4.34	0.40	0.28	
12	0.40	1.92	4.91	7.10	2.08	3.77	16.47	7.82	2.40	4.15	0.36	0.28	
13	4.91	6.30	5.10	1.92	2.08	3.77	13.40	7.58	2.24	3.96	0.40	0.28	
14	3.58	29.00	10.75	5.30	2.40	5.50	13.40	7.34	2.08	3.39	0.36	0.28	
15	2.88	21.16	10.75	5.30	3.77	3.39	14.24	7.10	1.76	1.30	0.32	0.28	
16	2.08	59.10	10.25	6.70	4.53	3.58	15.14	6.90	1.60	1.50	0.28	0.28	
17	1.50	99.30	13.12	4.72	5.70	4.15	14.52	6.50	1.76	1.76	0.24	0.28	
18	0.90	40.40	30.80	2.08	4.53	5.30	15.47	6.50	1.76	1.76	0.20	0.28	
19	0.80	24.50	46.40	5.30	5.50	3.39	25.25	7.10	2.08	1.76	0.20	0.40	
20	0.60	22.63	33.95	4.91	3.77	3.58	28.25	7.10	2.40	1.50	0.24	0.52	
21	0.48	13.40	18.82	4.53	3.58	3.39	26.37	6.50	1.20	1.76	0.20	0.48	
22	0.40	5.90	9.75	4.91	2.88	3.20	26.00	5.50	0.60	1.76	0.28	0.40	
23	0.20	4.15	9.02	4.53	2.72	3.20	37.55	3.58	1.20	1.60	0.24	0.32	
24	0.28	4.15	5.50	3.96	3.96	2.72	27.13	3.58	1.50	1.60	0.28	0.32	
25	1.30	4.91	5.70	3.20	3.77	2.40	21.87	3.77	1.76	1.60	0.24	0.36	
26	23.37	4.91	5.10	3.20	4.34	7.10	17.81	3.77	1.40	1.50	0.24	0.32	
27	61.20	4.34	4.72	3.04	4.53	59.80	21.16	3.77	1.30	2.56	0.20	0.28	
28	13.96	4.15	5.90	2.88	3.04	126.20	13.40	3.77	1.30	0.80	0.28	0.28	
29	11.75	28.25	4.53	2.56	2.88	90.75	12.56	3.20	1.30	0.52		0.28	
30	8.78	20.50	1.40	2.56	3.58	32.15	11.50	2.08	1.00	0.48		0.18	
31		16.47		2.56	3.58		10.75		1.00	0.56		0.16	
Total	144.41	502.10	302.90	299.34	101.66	426.22	1065.29	203.21	64.21	84.76	8.76	10.22	3213.08 CMSDAY
Mean	4.81	16.20	10.10	9.66	3.28	14.21	34.36	6.77	2.07	2.73	0.31	0.33	8.80 CMS
Max	61.20	99.30	46.40	30.35	5.70	126.20	258.80	10.00	3.58	14.80	0.48	0.80	258.80 CMS
Min	0.20	1.92	1.40	1.92	2.08	2.40	10.75	2.08	0.60	0.48	0.20	0.16	0.16 CMS
Runoff	12.48	43.38	26.17	25.86	8.78	36.83	92.04	17.56	5.55	7.32	0.76	0.88	277.61 MCM
Momentary Peak	320.00 CMS. at 368.40 m. (MSL.) at 09.00 Hours , on Oct 4 , 2009												
Runoff Yield	5.70 Liters/Second/Square KM.			Momentary Peak Yield				207.254 Liters/Second/Square KM.					

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)

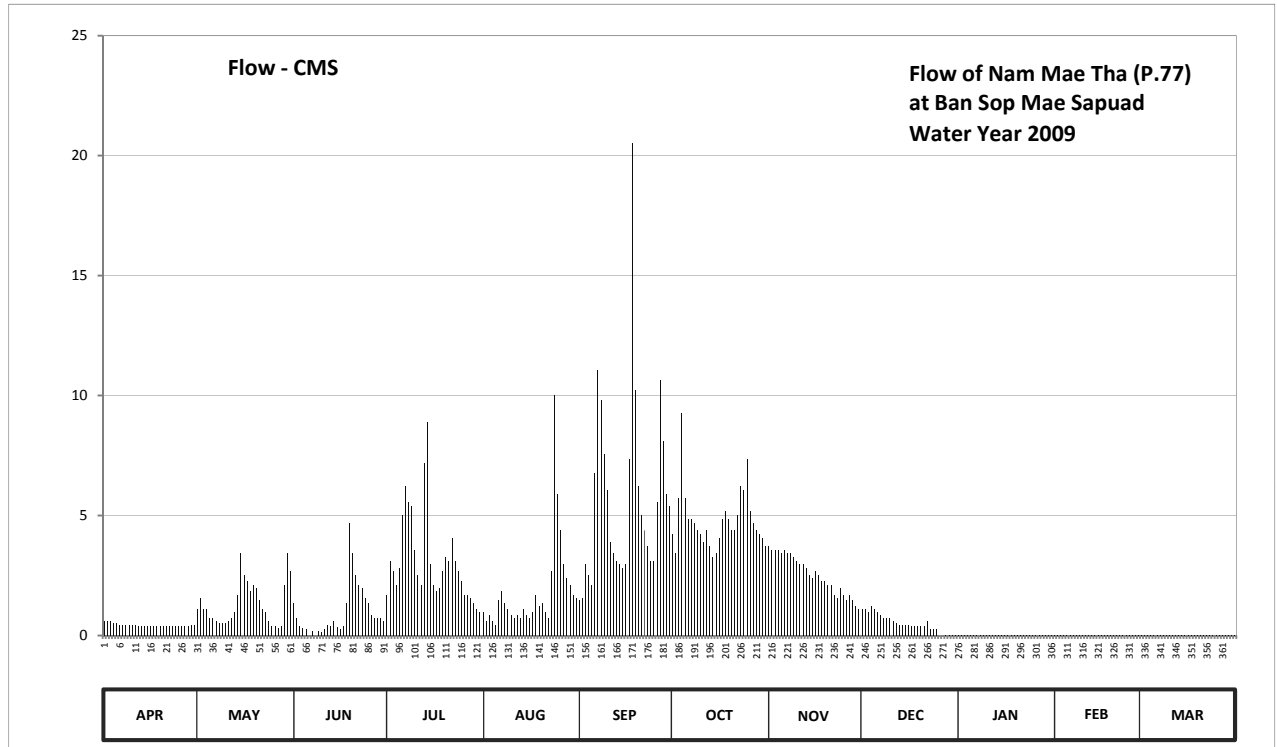
Lat 18 - 25 - 57 N Long 99 - 05 - 02 E

Location : on left bank at the bridge on road.

	Ban Sop Mae Sapuad	Amphoe Mae Tha	Changwat Lamphun
Drainage Area	550 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+364.378 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 20 meters from the top staff gage.	Elevation	+369.286 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.61	365.65	365.67	365.70	365.64	365.68	365.87	365.84	365.65	366.19	366.40	366.38	
2	365.61	365.69	365.62	365.80	365.61	365.69	365.82	365.83	365.65	366.22	366.40	366.38	
3	365.61	365.65	365.58	365.77	365.63	365.79	365.96	365.83	365.64	366.25	366.40	366.37	
4	365.60	365.65	365.56	365.73	365.61	365.76	366.15	365.83	365.66	366.26	366.39	366.37	
5	365.60	365.62	365.55	365.78	365.59	365.73	365.96	365.82	365.65	366.29	366.39	366.37	
6	365.59	365.62	365.50	365.92	365.68	366.02	365.91	365.83	365.64	366.33	366.39	366.37	
7	365.59	365.61	365.54	365.99	365.71	366.24	365.91	365.82	365.63	366.51	366.39	366.37	
8	365.59	365.60	365.48	365.95	365.67	366.18	365.90	365.82	365.62	366.73	366.39	366.37	
9	365.59	365.60	365.54	365.94	365.65	366.06	365.88	365.81	365.62	366.61	366.39	366.37	
10	365.59	365.60	365.53	365.83	365.63	365.98	365.87	365.80	365.62	366.61	366.40	366.37	
11	365.59	365.61	365.55	365.76	365.62	365.85	365.85	365.79	365.61	366.60	366.40	366.37	
12	365.58	365.62	365.59	365.73	365.63	365.82	365.88	365.79	365.60	366.57	366.40	366.37	
13	365.58	365.64	365.58	366.04	365.62	365.80	365.84	365.78	365.59	366.55	366.40	366.37	
14	365.58	365.70	365.61	366.13	365.65	365.79	365.81	365.76	365.59	366.53	366.40	366.37	
15	365.58	365.82	365.57	365.79	365.63	365.78	365.82	365.75	365.59	366.56	366.39	366.35	
16	365.58	365.76	365.55	365.73	365.62	365.79	365.86	365.77	365.59	366.57	366.39	366.35	
17	365.58	365.74	365.58	365.71	365.64	366.05	365.91	365.76	365.58	366.53	366.40	366.35	
18	365.58	365.71	365.67	365.72	365.70	366.64	365.93	365.74	365.58	366.47	366.39	366.36	
19	365.58	365.73	365.90	365.77	365.66	366.20	365.91	365.74	365.58	366.45	366.39	366.36	
20	365.58	365.72	365.82	365.81	365.67	365.99	365.88	365.73	365.58	366.43	366.39	366.37	
21	365.58	365.68	365.76	365.80	365.64	365.92	365.88	365.73	365.58	366.42	366.39	366.35	
22	365.58	365.65	365.73	365.86	365.62	365.88	365.92	365.70	365.61	366.42	366.38	366.35	
23	365.58	365.64	365.72	365.80	365.77	365.84	365.99	365.69	365.55	366.41	366.38	366.35	
24	365.58	365.61	365.69	365.77	366.19	365.80	365.98	365.72	365.55	366.41	366.38	366.34	
25	365.58	365.58	365.67	365.74	365.97	365.80	366.05	365.70	365.55	366.41	366.38	366.33	
26	365.58	365.58	365.63	365.70	365.88	365.95	365.93	365.68	365.55	366.41	366.38	366.32	
27	365.58	365.56	365.62	365.70	365.79	366.22	365.90	365.70	365.58	366.41	366.38	366.31	
28	365.58	365.58	365.62	365.69	365.75	366.09	365.88	365.68	365.94	366.40	366.38	366.31	
29	365.59	365.73	365.62	365.67	365.73	365.97	365.87	365.66	366.01	366.40		366.30	
30	365.59	365.82	365.61	365.65	365.70	365.94	365.86	365.65	366.07	366.39		366.29	
31		365.77		365.64	365.69		365.84		366.14	366.32		366.28	
Mean	365.59	365.66	365.62	365.79	365.70	365.94	365.90	365.76	365.66	366.44	366.39	366.35	
Max	365.61	365.82	365.90	366.13	366.19	366.64	366.15	365.84	366.14	366.73	366.40	366.38	366.73
Min	365.58	365.56	365.48	365.64	365.59	365.68	365.81	365.65	365.55	366.19	366.38	366.28	365.48
Annual Max Momentary Gage Height		366.78		m. (MSL.) ,									at 07.00 Hours , on Sep 18 , 2009
Zero Gage at Bottom Elevation		364.38		m. (MSL.) ,		River Bed	365.49		m. (MSL)				
Left Bank Elevation			370.13		m. (MSL.) ,								
Right Bank Elevation			374.23		m. (MSL.) ,	Drainage Area	550	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	1.10	1.34	1.70	0.98	1.46	4.22	3.74	1.10	0.02	0.03	0.02	
2	0.62	1.58	0.74	3.10	0.62	1.58	3.42	3.58	1.10	0.02	0.03	0.02	
3	0.62	1.10	0.40	2.68	0.86	2.96	5.72	3.58	0.98	0.02	0.03	0.02	
4	0.50	1.10	0.30	2.12	0.62	2.54	9.25	3.58	1.22	0.02	0.02	0.02	
5	0.50	0.74	0.25	2.82	0.45	2.12	5.72	3.42	1.10	0.02	0.02	0.02	
6	0.45	0.74	0.00	5.04	1.46	6.78	4.87	3.58	0.98	0.02	0.02	0.02	
7	0.45	0.62	0.20	6.23	1.84	11.06	4.87	3.42	0.86	0.03	0.02	0.02	
8	0.45	0.50	0.00	5.55	1.34	9.82	4.70	3.42	0.74	0.04	0.02	0.02	
9	0.45	0.50	0.20	5.38	1.10	7.54	4.38	3.26	0.74	0.03	0.02	0.02	
10	0.45	0.50	0.15	3.58	0.86	6.06	4.22	3.10	0.74	0.03	0.03	0.02	
11	0.45	0.62	0.25	2.54	0.74	3.90	3.90	2.96	0.62	0.03	0.03	0.02	
12	0.40	0.74	0.45	2.12	0.86	3.42	4.38	2.96	0.50	0.03	0.03	0.02	
13	0.40	0.98	0.40	7.16	0.74	3.10	3.74	2.82	0.45	0.03	0.03	0.02	
14	0.40	1.70	0.62	8.87	1.10	2.96	3.26	2.54	0.45	0.03	0.03	0.02	
15	0.40	3.42	0.35	2.96	0.86	2.82	3.42	2.40	0.45	0.03	0.02	0.02	
16	0.40	2.54	0.25	2.12	0.74	2.96	4.06	2.68	0.45	0.03	0.02	0.02	
17	0.40	2.26	0.40	1.84	0.98	7.35	4.87	2.54	0.40	0.03	0.03	0.02	
18	0.40	1.84	1.34	1.98	1.70	20.52	5.21	2.26	0.40	0.03	0.02	0.02	
19	0.40	2.12	4.70	2.68	1.22	10.20	4.87	2.26	0.40	0.03	0.02	0.02	
20	0.40	1.98	3.42	3.26	1.34	6.23	4.38	2.12	0.40	0.03	0.02	0.02	
21	0.40	1.46	2.54	3.10	0.98	5.04	4.38	2.12	0.40	0.03	0.02	0.02	
22	0.40	1.10	2.12	4.06	0.74	4.38	5.04	1.70	0.62	0.03	0.02	0.02	
23	0.40	0.98	1.98	3.10	2.68	3.74	6.23	1.58	0.25	0.03	0.02	0.02	
24	0.40	0.62	1.58	2.68	10.01	3.10	6.06	1.98	0.25	0.03	0.02	0.02	
25	0.40	0.40	1.34	2.26	5.89	3.10	7.35	1.70	0.25	0.03	0.02	0.02	
26	0.40	0.40	0.86	1.70	4.38	5.55	5.21	1.46	0.00	0.03	0.02	0.02	
27	0.40	0.30	0.74	1.70	2.96	10.63	4.70	1.70	0.00	0.03	0.02	0.02	
28	0.40	0.40	0.74	1.58	2.40	8.11	4.38	1.46	0.01	0.03	0.02	0.02	
29	0.45	2.12	0.74	1.34	2.12	5.89	4.22	1.22	0.01	0.03		0.02	
30	0.45	3.42	0.62	1.10	1.70	5.38	4.06	1.10	0.01	0.02		0.02	
31		2.68		0.98	1.58		3.74		0.02	0.02		0.02	
Total	13.26	40.56	29.02	97.33	55.85	170.30	148.83	76.24	15.90	0.86	0.65	0.62	649.42 CMSDAY
Mean	0.44	1.31	0.97	3.14	1.80	5.68	4.80	2.54	0.51	0.03	0.02	0.02	1.78 CMS
Max	0.62	3.42	4.70	8.87	10.01	20.52	9.25	3.74	1.22	0.04	0.03	0.02	20.52 CMS
Min	0.40	0.30	0.00	0.98	0.45	1.46	3.26	1.10	0.00	0.02	0.02	0.02	0.00 CMS
Runoff	1.15	3.50	2.51	8.41	4.83	14.71	12.86	6.59	1.37	0.07	0.06	0.05	56.11 MCM
Momentary Peak	23.33 CMS. at 366.75 m. (MSL.) at 07.00 Hours , on Sep 18 , 2009												
Runoff Yield	3.23 Liters/Second/Square KM.			Momentary Peak Yield			42.418 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Khlung Khlung at Ban Sam Ruean , Kamphaeng Phet (P.78)

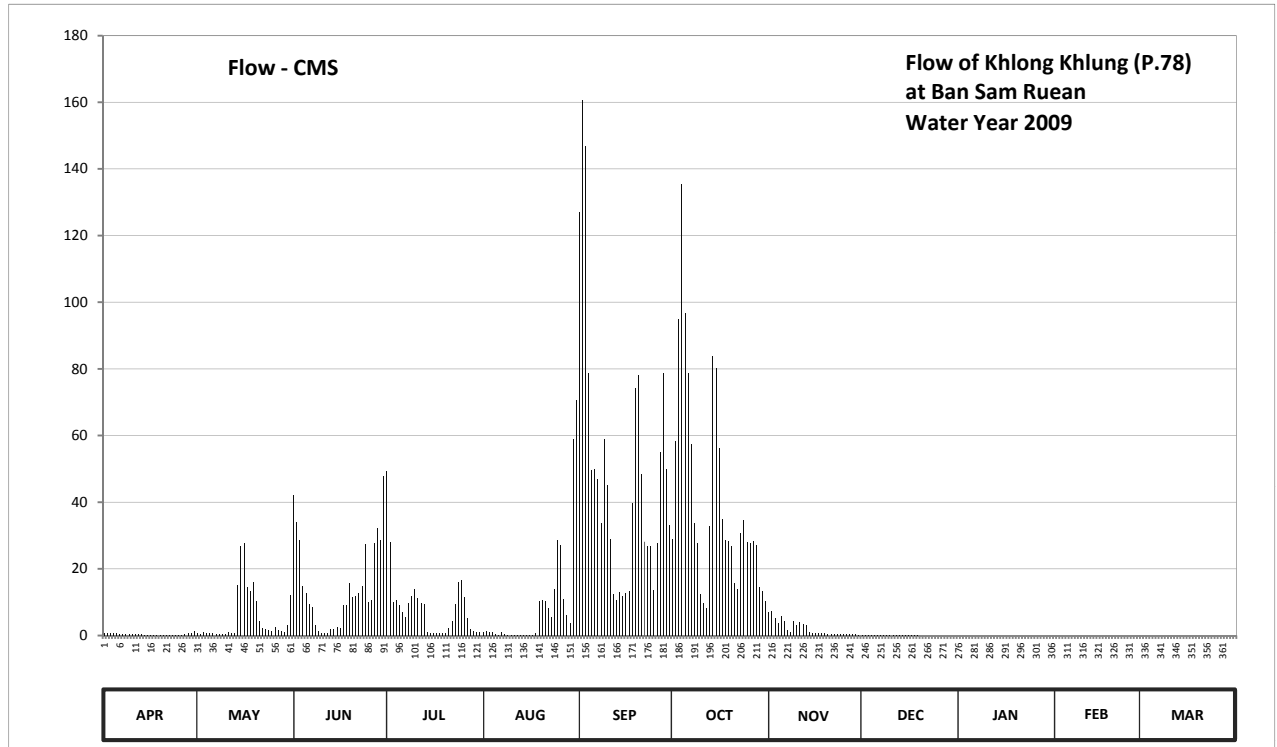
Lat 16 - 11 - 03 N Long 99 - 36 - 09 E

Location : on left bank at Ban Sam Ruean.

	Ban Sam Ruean	Amphoe Khlung Khlung	Changwat Kamphaeng Phet
Drainage Area	1,119 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+65.177 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+73.494 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 means 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	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.44	66.45	68.53	68.75	66.47	70.65	68.01	67.05	66.30	66.08	66.08	66.08	
2	66.43	66.39	68.27	67.88	66.52	71.36	69.00	67.07	66.29	66.08	66.08	66.08	
3	66.42	66.47	67.96	67.25	66.50	71.07	69.92	66.91	66.28	66.08	66.08	66.08	
4	66.41	66.42	67.51	67.28	66.47	69.52	70.83	66.75	66.27	66.08	66.08	66.08	
5	66.40	66.41	67.39	67.18	66.34	68.76	69.96	66.97	66.26	66.08	66.08	66.08	
6	66.39	66.40	67.21	67.05	66.21	68.77	69.52	66.81	66.25	66.08	66.08	66.08	
7	66.38	66.39	67.14	66.93	66.47	68.68	68.98	66.57	66.24	66.08	66.08	66.08	
8	66.37	66.38	66.71	67.23	66.39	68.26	68.26	66.51	66.23	66.08	66.08	66.08	
9	66.36	66.36	66.54	67.34	66.27	69.02	67.75	66.82	66.22	66.08	66.08	66.08	
10	66.35	66.34	66.46	67.46	66.19	68.62	67.37	66.70	66.21	66.08	66.08	65.90	
11	66.34	66.47	66.41	67.31	66.18	68.04	67.22	66.79	66.20	66.08	66.08	66.08	
12	66.33	66.42	66.44	67.23	66.17	67.37	67.12	66.74	66.19	66.08	66.08	66.08	
13	66.32	66.45	66.59	67.21	66.16	67.28	68.23	66.71	66.18	66.08	66.08	66.08	
14	66.31	67.52	66.59	66.50	66.15	67.41	69.65	66.49	66.17	66.08	66.08	66.08	
15	66.30	67.61	66.64	66.46	66.14	67.34	69.56	66.45	66.16	66.08	66.08	66.08	
16	66.29	67.80	66.61	66.45	66.14	67.40	68.94	66.42	66.15	66.08	66.08	66.08	
17	66.28	67.48	67.19	66.44	66.20	67.42	68.30	66.42	66.14	66.08	66.08	66.08	
18	66.27	67.42	67.19	66.43	66.45	68.46	67.99	66.41	66.13	66.08	66.08	66.08	
19	66.26	67.56	67.55	66.42	67.26	69.41	67.92	66.40	66.12	66.08	66.08	66.08	
20	66.25	67.26	67.33	66.43	67.27	69.51	67.62	66.39	66.11	66.08	66.08	66.08	
21	66.24	66.83	67.35	66.61	67.26	68.72	67.54	66.39	66.10	66.08	66.08	66.08	
22	66.23	66.63	67.39	66.81	67.13	67.87	67.46	66.38	66.09	66.08	66.08	66.08	
23	66.22	66.59	67.50	67.21	66.94	67.61	68.15	66.38	66.08	66.08	66.08	66.08	
24	66.21	66.56	67.70	67.56	67.45	67.62	68.29	66.37	66.08	66.08	66.08	66.08	
25	66.20	66.54	67.24	67.58	67.99	67.44	67.85	66.36	66.08	66.08	66.08	66.08	
26	66.29	66.64	67.28	67.33	67.64	67.76	67.82	66.35	66.08	66.08	66.08	66.08	
27	66.39	66.57	67.80	66.91	67.29	68.91	67.89	66.34	66.08	66.08	66.08	66.08	
28	66.45	66.52	68.21	66.59	66.98	69.52	67.64	66.33	66.08	66.08	66.08	66.08	
29	66.43	66.49	67.96	66.52	66.77	68.77	67.49	66.32	66.08	66.08	66.08	66.08	
30	66.53	66.70	68.70	66.50	69.02	68.24	67.42	66.31	66.08	66.08	66.08	66.08	
31		67.36		66.48	69.32		67.26		66.08	66.08		66.08	
Mean	66.34	66.76	67.31	67.01	66.83	68.56	68.29	66.56	66.16	66.08	66.08	66.07	
Max	66.53	67.80	68.70	68.75	69.32	71.36	70.83	67.07	66.30	66.08	66.08	66.08	71.36
Min	66.20	66.34	66.41	66.42	66.14	67.28	67.12	66.31	66.08	66.08	66.08	65.90	65.90
Annual Max Momentary Gage Height		71.43		m. (MSL.) ,			at 09.00 Hours , on Sep 2 , 2009						
Zero Gage at Bottom Elevation		65.18		m. (MSL.) ,		River Bed	66.19		m. (MSL)				
Left Bank Elevation		73.24		m. (MSL.) ,									
Right Bank Elevation		73.24		m. (MSL.) ,		Drainage Area	1119		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	0.80	42.00	49.33	0.88	127.06	28.82	7.00	0.25	0.00	0.00	0.00	
2	0.72	0.56	34.07	28.20	1.21	160.60	58.25	7.30	0.23	0.00	0.00	0.00	
3	0.68	0.88	28.58	10.19	1.00	146.83	94.89	5.31	0.22	0.00	0.00	0.00	
4	0.64	0.68	14.98	10.67	0.88	78.64	135.43	3.63	0.20	0.00	0.00	0.00	
5	0.60	0.64	12.69	9.05	0.39	49.67	96.66	5.94	0.19	0.00	0.00	0.00	
6	0.56	0.60	9.54	7.00	0.12	50.00	78.64	4.25	0.18	0.00	0.00	0.00	
7	0.53	0.56	8.40	5.52	0.88	47.00	57.53	1.73	0.16	0.00	0.00	0.00	
8	0.50	0.53	3.20	9.86	0.56	33.78	33.78	1.11	0.15	0.00	0.00	0.00	
9	0.46	0.46	1.42	11.75	0.20	59.02	27.58	4.36	0.13	0.00	0.00	0.00	
10	0.42	0.39	0.84	14.00	0.09	45.00	12.31	3.10	0.12	0.00	0.00	0.00	
11	0.39	0.88	0.64	11.19	0.08	28.96	9.70	4.05	0.10	0.00	0.00	0.00	
12	0.35	0.68	0.76	9.86	0.07	12.31	8.08	3.52	0.09	0.00	0.00	0.00	
13	0.32	0.80	1.94	9.54	0.06	10.67	32.93	3.20	0.08	0.00	0.00	0.00	
14	0.28	15.20	1.94	1.00	0.05	13.06	83.90	0.96	0.07	0.00	0.00	0.00	
15	0.25	26.91	2.47	0.84	0.04	11.75	80.26	0.80	0.06	0.00	0.00	0.00	
16	0.23	27.82	2.16	0.80	0.04	12.88	56.08	0.68	0.05	0.00	0.00	0.00	
17	0.22	14.38	9.21	0.76	0.10	13.25	34.92	0.68	0.04	0.00	0.00	0.00	
18	0.20	13.25	9.21	0.72	0.80	39.70	28.72	0.64	0.03	0.00	0.00	0.00	
19	0.19	16.10	15.88	0.68	10.35	74.20	28.39	0.60	0.02	0.00	0.00	0.00	
20	0.18	10.35	11.56	0.72	10.51	78.24	26.96	0.56	0.01	0.00	0.00	0.00	
21	0.16	4.47	11.94	2.16	10.35	48.33	15.65	0.56	0.00	0.00	0.00	0.00	
22	0.15	2.36	12.69	4.25	8.24	28.15	14.00	0.53	0.00	0.00	0.00	0.00	
23	0.13	1.94	14.75	9.54	5.62	26.91	30.67	0.53	0.00	0.00	0.00	0.00	
24	0.12	1.63	27.34	16.10	13.81	26.96	34.63	0.50	0.00	0.00	0.00	0.00	
25	0.10	1.42	10.02	16.55	28.72	13.63	28.06	0.46	0.00	0.00	0.00	0.00	
26	0.23	2.47	10.67	11.56	27.05	27.63	27.91	0.42	0.00	0.00	0.00	0.00	
27	0.56	1.73	27.82	5.31	10.84	54.99	28.25	0.39	0.00	0.00	0.00	0.00	
28	0.80	1.21	32.37	1.94	6.04	78.64	27.05	0.35	0.00	0.00	0.00	0.00	
29	0.72	0.96	28.58	1.21	3.83	50.00	14.56	0.32	0.00	0.00	0.00	0.00	
30	1.31	3.10	47.67	1.00	59.02	33.22	13.25	0.28	0.00	0.00	0.00	0.00	
31		12.12		0.92	70.56		10.35		0.00	0.00		0.00	
Total	12.76	165.88	435.34	262.22	272.39	1481.08	1258.21	63.76	2.38	0.00	0.00	0.00	3954.02 CMSDAY
Mean	0.43	5.35	14.51	8.46	8.79	49.37	40.59	2.13	0.08	0.00	0.00	0.00	10.83 CMS
Max	1.31	27.82	47.67	49.33	70.56	160.60	135.43	7.30	0.25	0.00	0.00	0.00	160.60 CMS
Min	0.10	0.39	0.64	0.68	0.04	10.67	8.08	0.28	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.10	14.33	37.61	22.66	23.53	127.97	108.71	5.51	0.21	0.00	0.00	0.00	341.63 MCM
Momentary Peak	163.93 CMS. at 71.43 m. (MSL) at 09.00 Hours , on Sep 2 , 2009												
Runoff Yield	9.68 Liters/Second/Square KM.			Momentary Peak Yield			146,497 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Kuang at Ban Mae Wan , Chiang Mai (P.79)

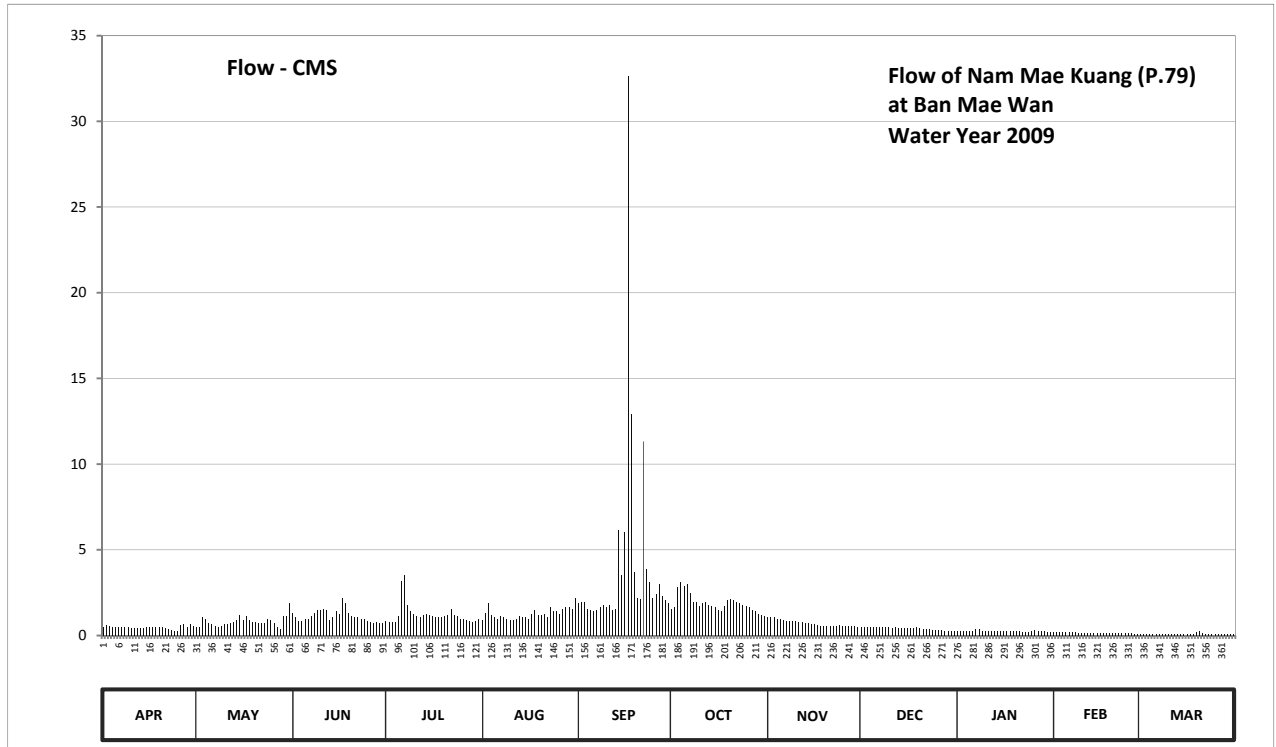
Lat 18 - 57 - 45 N Long 99 - 14 - 31 E

Location : on left bank at the bridge on road.

	Ban Mae Wan	Amphoe Doi Saket	Changwat Chiang Mai
Drainage Area	136	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+442.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the approach of the bridge.		Elevation +447.326 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	442.66	442.66	442.79	442.72	442.73	442.86	442.82	442.75	442.66	442.61	442.58	442.54	
2	442.68	442.65	442.75	442.71	442.79	442.87	442.83	442.75	442.66	442.61	442.58	442.54	
3	442.67	442.75	442.72	442.71	442.86	442.87	442.96	442.75	442.66	442.61	442.58	442.54	
4	442.66	442.74	442.72	442.71	442.77	442.82	442.99	442.74	442.66	442.61	442.58	442.54	
5	442.65	442.70	442.74	442.76	442.75	442.81	442.97	442.74	442.65	442.61	442.57	442.54	
6	442.65	442.69	442.74	443.00	442.74	442.80	442.98	442.73	442.65	442.61	442.57	442.53	
7	442.65	442.67	442.76	443.02	442.76	442.81	442.93	442.72	442.65	442.63	442.57	442.53	
8	442.65	442.66	442.79	442.85	442.75	442.83	442.87	442.72	442.65	442.63	442.57	442.53	
9	442.65	442.67	442.81	442.80	442.74	442.85	442.87	442.72	442.65	442.61	442.56	442.53	
10	442.64	442.69	442.81	442.78	442.73	442.83	442.84	442.72	442.65	442.61	442.56	442.53	
11	442.64	442.69	442.82	442.76	442.73	442.85	442.86	442.71	442.64	442.61	442.56	442.53	
12	442.64	442.70	442.81	442.75	442.74	442.81	442.87	442.71	442.65	442.60	442.56	442.53	
13	442.64	442.71	442.73	442.77	442.76	442.82	442.85	442.70	442.64	442.60	442.56	442.53	
14	442.64	442.73	442.75	442.78	442.75	443.18	442.84	442.70	442.64	442.60	442.56	442.53	
15	442.65	442.77	442.80	442.77	442.75	443.02	442.83	442.69	442.64	442.60	442.56	442.53	
16	442.66	442.73	442.78	442.76	442.74	443.17	442.81	442.69	442.64	442.60	442.55	442.53	
17	442.65	442.76	442.90	442.75	442.78	443.97	442.80	442.68	442.64	442.60	442.55	442.53	
18	442.66	442.73	442.86	442.75	442.81	443.46	442.84	442.67	442.64	442.60	442.55	442.53	
19	442.65	442.71	442.79	442.75	442.77	443.03	442.88	442.67	442.65	442.60	442.55	442.59	
20	442.65	442.71	442.76	442.76	442.77	442.90	442.89	442.67	442.64	442.60	442.55	442.61	
21	442.64	442.70	442.75	442.77	442.78	442.89	442.88	442.67	442.63	442.60	442.55	442.55	
22	442.63	442.70	442.75	442.82	442.75	443.41	442.87	442.67	442.63	442.59	442.55	442.54	
23	442.62	442.70	442.74	442.77	442.83	443.04	442.86	442.67	442.63	442.59	442.55	442.54	
24	442.61	442.74	442.74	442.76	442.80	442.99	442.85	442.68	442.62	442.59	442.55	442.54	
25	442.60	442.73	442.72	442.74	442.80	442.90	442.84	442.67	442.62	442.60	442.55	442.54	
26	442.68	442.70	442.71	442.74	442.78	442.92	442.83	442.67	442.62	442.62	442.56	442.54	
27	442.69	442.66	442.70	442.73	442.82	442.98	442.81	442.67	442.62	442.60	442.54	442.53	
28	442.66	442.63	442.71	442.72	442.83	442.91	442.80	442.67	442.61	442.60	442.54	442.53	
29	442.69	442.76	442.70	442.71	442.83	442.88	442.78	442.67	442.61	442.60		442.53	
30	442.67	442.76	442.70	442.72	442.82	442.86	442.77	442.66	442.61	442.59		442.53	
31		442.86		442.74	442.90		442.76		442.61	442.58		442.53	
Mean	442.65	442.71	442.76	442.77	442.78	442.98	442.86	442.70	442.64	442.60	442.56	442.54	
Max	442.69	442.86	442.90	443.02	442.90	443.97	442.99	442.75	442.66	442.63	442.58	442.61	443.97
Min	442.60	442.63	442.70	442.71	442.73	442.80	442.76	442.66	442.61	442.58	442.54	442.53	442.53
Annual Max Momentary Gage Height	444.80		m. (MSL.) ,			at 06.00 Hours , on Sep 17 , 2009							
Zero Gage at Bottom Elevation	442.30		m. (MSL.) ,			River Bed	442.42	m. (MSL)					
Left Bank Elevation		446.86		m. (MSL.) ,									
Right Bank Elevation		446.09		m. (MSL.) ,		Drainage Area	136	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	0.52	1.33	0.84	0.91	1.88	1.56	1.05	0.52	0.29	0.20	0.10	
2	0.61	0.47	1.05	0.77	1.33	1.96	1.64	1.05	0.52	0.29	0.20	0.10	
3	0.57	1.05	0.84	0.77	1.88	1.96	2.80	1.05	0.52	0.29	0.20	0.10	
4	0.52	0.98	0.84	0.77	1.19	1.56	3.10	0.98	0.52	0.29	0.20	0.10	
5	0.47	0.70	0.98	1.12	1.05	1.48	2.90	0.98	0.47	0.29	0.18	0.10	
6	0.47	0.65	0.98	3.20	0.98	1.40	3.00	0.91	0.47	0.29	0.18	0.07	
7	0.47	0.57	1.12	3.53	1.12	1.48	2.50	0.84	0.47	0.38	0.18	0.07	
8	0.47	0.52	1.33	1.80	1.05	1.64	1.96	0.84	0.47	0.38	0.18	0.07	
9	0.47	0.57	1.48	1.40	0.98	1.80	1.96	0.84	0.47	0.29	0.15	0.07	
10	0.43	0.65	1.48	1.26	0.91	1.64	1.72	0.84	0.47	0.29	0.15	0.07	
11	0.43	0.65	1.56	1.12	0.91	1.80	1.88	0.77	0.43	0.29	0.15	0.07	
12	0.43	0.70	1.48	1.05	0.98	1.48	1.96	0.77	0.47	0.25	0.15	0.07	
13	0.43	0.77	0.91	1.19	1.12	1.56	1.80	0.70	0.43	0.25	0.15	0.07	
14	0.43	0.91	1.05	1.26	1.05	6.17	1.72	0.70	0.43	0.25	0.15	0.07	
15	0.47	1.19	1.40	1.19	1.05	3.53	1.64	0.65	0.43	0.25	0.15	0.07	
16	0.52	0.91	1.26	1.12	0.98	6.01	1.48	0.65	0.43	0.25	0.12	0.07	
17	0.47	1.12	2.20	1.05	1.26	32.65	1.40	0.61	0.43	0.25	0.12	0.07	
18	0.52	0.91	1.88	1.05	1.48	12.89	1.72	0.57	0.43	0.25	0.12	0.07	
19	0.47	0.77	1.33	1.05	1.19	3.69	2.04	0.57	0.47	0.25	0.12	0.22	
20	0.47	0.77	1.12	1.12	1.19	2.20	2.12	0.57	0.43	0.25	0.12	0.29	
21	0.43	0.70	1.05	1.19	1.26	2.12	2.04	0.57	0.38	0.25	0.12	0.12	
22	0.38	0.70	1.05	1.56	1.05	11.32	1.96	0.57	0.38	0.22	0.12	0.10	
23	0.34	0.70	0.98	1.19	1.64	3.86	1.88	0.57	0.38	0.22	0.12	0.10	
24	0.29	0.98	0.98	1.12	1.40	3.10	1.80	0.61	0.34	0.22	0.12	0.10	
25	0.25	0.91	0.84	0.98	1.40	2.20	1.72	0.57	0.34	0.25	0.12	0.10	
26	0.61	0.70	0.77	0.98	1.26	2.40	1.64	0.57	0.34	0.34	0.15	0.10	
27	0.65	0.52	0.70	0.91	1.56	3.00	1.48	0.57	0.34	0.25	0.10	0.07	
28	0.52	0.38	0.77	0.84	1.64	2.30	1.40	0.57	0.29	0.25	0.10	0.07	
29	0.65	1.12	0.70	0.77	1.64	2.04	1.26	0.57	0.29	0.25		0.07	
30	0.57	1.12	0.70	0.84	1.56	1.88	1.19	0.52	0.29	0.22		0.07	
31		1.88		0.98	2.20		1.12		0.29	0.20		0.07	
Total	14.33	25.09	34.16	38.02	39.22	123.00	58.39	21.63	12.94	8.29	4.12	2.89	382.08 CMSDAY
Mean	0.48	0.81	1.14	1.23	1.27	4.10	1.88	0.72	0.42	0.27	0.15	0.09	1.05 CMS
Max	0.65	1.88	2.20	3.53	2.20	32.65	3.10	1.05	0.52	0.38	0.20	0.29	32.65 CMS
Min	0.25	0.38	0.70	0.77	0.91	1.40	1.12	0.52	0.29	0.20	0.10	0.07	0.07 CMS
Runoff	1.24	2.17	2.95	3.29	3.39	10.63	5.05	1.87	1.12	0.72	0.36	0.25	33.01 MCM
Momentary Peak	92.00 CMS. at 444.80 m. (MSL.) at 06.00 Hours , on Sep 17 , 2009												
Runoff Yield	7.70 Liters/Second/Square KM.			Momentary Peak Yield			676.471 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Lai at Ban Pong Din , Chiang Mai (P.80)

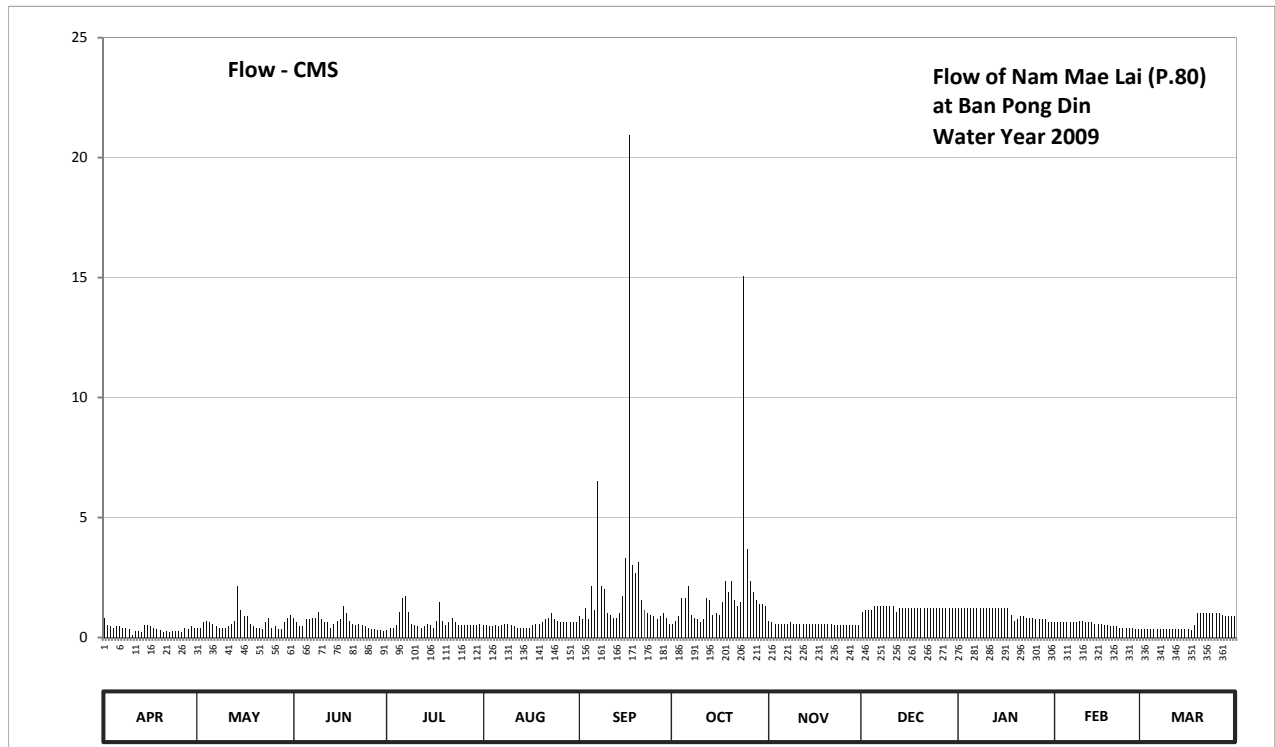
Lat 18 - 54 - 49 N Long 99 - 14 - 17 E

Location : on left bank at the bridge on road.

	Ban	Pong Din	Amphoe	Doi Saket	Changwat	Chiang Mai
Drainage Area	129	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+455.096 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+462.021 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	455.67	455.60	455.67	455.58	455.62	455.68	455.63	455.65	455.71	455.73	455.64	455.59	
2	455.62	455.60	455.64	455.60	455.62	455.66	455.65	455.64	455.72	455.73	455.64	455.59	
3	455.61	455.64	455.61	455.60	455.61	455.73	455.68	455.63	455.72	455.73	455.64	455.59	
4	455.60	455.65	455.61	455.62	455.61	455.66	455.78	455.63	455.72	455.73	455.64	455.59	
5	455.61	455.64	455.66	455.71	455.62	455.83	455.78	455.63	455.74	455.73	455.64	455.59	
6	455.61	455.63	455.66	455.78	455.61	455.72	455.83	455.63	455.74	455.73	455.64	455.59	
7	455.60	455.61	455.67	455.79	455.62	456.15	455.69	455.63	455.74	455.73	455.64	455.59	
8	455.60	455.60	455.67	455.71	455.63	455.83	455.67	455.64	455.74	455.73	455.64	455.59	
9	455.59	455.60	455.71	455.63	455.63	455.82	455.66	455.63	455.74	455.73	455.65	455.59	
10	455.53	455.60	455.66	455.62	455.62	455.70	455.64	455.63	455.74	455.73	455.65	455.59	
11	455.57	455.61	455.64	455.61	455.61	455.69	455.66	455.63	455.74	455.73	455.64	455.59	
12	455.57	455.63	455.64	455.60	455.60	455.67	455.78	455.63	455.71	455.73	455.64	455.59	
13	455.56	455.65	455.60	455.61	455.60	455.67	455.77	455.63	455.73	455.73	455.64	455.59	
14	455.62	455.83	455.63	455.63	455.60	455.70	455.69	455.63	455.73	455.73	455.63	455.59	
15	455.62	455.72	455.65	455.62	455.60	455.79	455.70	455.63	455.73	455.73	455.63	455.59	
16	455.61	455.68	455.66	455.60	455.60	455.93	455.69	455.63	455.73	455.73	455.63	455.59	
17	455.60	455.68	455.74	455.65	455.62	456.82	455.76	455.63	455.73	455.73	455.62	455.58	
18	455.59	455.63	455.70	455.76	455.63	455.91	455.85	455.63	455.73	455.69	455.62	455.62	
19	455.58	455.61	455.65	455.65	455.63	455.88	455.81	455.63	455.73	455.65	455.61	455.70	
20	455.56	455.60	455.63	455.62	455.64	455.92	455.85	455.63	455.73	455.66	455.61	455.70	
21	455.57	455.60	455.62	455.64	455.66	455.77	455.77	455.63	455.73	455.68	455.61	455.70	
22	455.56	455.59	455.63	455.67	455.67	455.72	455.74	455.62	455.73	455.68	455.60	455.70	
23	455.57	455.64	455.62	455.64	455.70	455.70	455.76	455.62	455.73	455.67	455.60	455.70	
24	455.57	455.67	455.61	455.62	455.66	455.69	456.57	455.62	455.73	455.67	455.60	455.70	
25	455.57	455.60	455.60	455.62	455.65	455.68	455.96	455.62	455.73	455.67	455.60	455.70	
26	455.56	455.61	455.59	455.62	455.64	455.66	455.85	455.62	455.73	455.66	455.60	455.70	
27	455.60	455.59	455.59	455.62	455.64	455.68	455.81	455.62	455.73	455.66	455.59	455.69	
28	455.59	455.59	455.58	455.62	455.64	455.70	455.77	455.62	455.73	455.66	455.59	455.68	
29	455.61	455.64	455.58	455.62	455.64	455.67	455.75	455.62	455.73	455.66		455.68	
30	455.60	455.67	455.57	455.62	455.64	455.63	455.75	455.62	455.73	455.64		455.68	
31		455.69		455.63	455.64		455.74		455.73	455.64		455.68	
Mean	455.59	455.64	455.64	455.64	455.63	455.79	455.78	455.63	455.73	455.70	455.62	455.63	
Max	455.67	455.83	455.74	455.79	455.70	456.82	456.57	455.65	455.74	455.73	455.65	455.70	456.82
Min	455.53	455.59	455.57	455.58	455.60	455.63	455.63	455.62	455.71	455.64	455.59	455.58	455.53
Annual Max Momentary Gage Height	459.05		m. (MSL.) ,			at 11.00 Hours , on Sep 17 , 2009							
Zero Gage at Bottom Elevation	455.10		m. (MSL.) ,		River Bed	455.28		m. (MSL)					
Left Bank Elevation	461.89		m. (MSL.) ,										
Right Bank Elevation	461.90		m. (MSL.) ,		Drainage Area	129		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	0.40	0.82	0.32	0.52	0.88	0.58	0.70	1.08	1.24	0.64	0.36	
2	0.52	0.40	0.64	0.40	0.52	0.76	0.70	0.64	1.16	1.24	0.64	0.36	
3	0.46	0.64	0.46	0.40	0.46	1.24	0.88	0.58	1.16	1.24	0.64	0.36	
4	0.40	0.70	0.46	0.52	0.46	0.76	1.64	0.58	1.16	1.24	0.64	0.36	
5	0.46	0.64	0.76	1.08	0.52	2.13	1.64	0.58	1.32	1.24	0.64	0.36	
6	0.46	0.58	0.76	1.64	0.46	1.16	2.13	0.58	1.32	1.24	0.64	0.36	
7	0.40	0.46	0.82	1.72	0.52	6.52	0.94	0.58	1.32	1.24	0.64	0.36	
8	0.40	0.40	0.82	1.08	0.58	2.13	0.82	0.64	1.32	1.24	0.64	0.36	
9	0.36	0.40	1.08	0.58	0.58	2.02	0.76	0.58	1.32	1.24	0.70	0.36	
10	0.12	0.40	0.76	0.52	0.52	1.00	0.64	0.58	1.32	1.24	0.70	0.36	
11	0.28	0.46	0.64	0.46	0.46	0.94	0.76	0.58	1.32	1.24	0.64	0.36	
12	0.28	0.58	0.64	0.40	0.40	0.82	1.64	0.58	1.08	1.24	0.64	0.36	
13	0.24	0.70	0.40	0.46	0.40	0.82	1.56	0.58	1.24	1.24	0.64	0.36	
14	0.52	2.13	0.58	0.58	0.40	1.00	0.94	0.58	1.24	1.24	0.58	0.36	
15	0.52	1.16	0.70	0.52	0.40	1.72	1.00	0.58	1.24	1.24	0.58	0.36	
16	0.46	0.88	0.76	0.40	0.40	3.29	0.94	0.58	1.24	1.24	0.58	0.36	
17	0.40	0.88	1.32	0.70	0.52	20.92	1.48	0.58	1.24	1.24	0.52	0.32	
18	0.36	0.58	1.00	1.48	0.58	3.03	2.35	0.58	1.24	0.94	0.52	0.52	
19	0.32	0.46	0.70	0.70	0.58	2.68	1.91	0.58	1.24	0.70	0.46	1.00	
20	0.24	0.40	0.58	0.52	0.64	3.16	2.35	0.58	1.24	0.76	0.46	1.00	
21	0.28	0.40	0.52	0.64	0.76	1.56	1.56	0.58	1.24	0.88	0.46	1.00	
22	0.24	0.36	0.58	0.82	0.82	1.16	1.32	0.52	1.24	0.88	0.40	1.00	
23	0.28	0.64	0.52	0.64	1.00	1.00	1.48	0.52	1.24	0.82	0.40	1.00	
24	0.28	0.82	0.46	0.52	0.76	0.94	15.04	0.52	1.24	0.82	0.40	1.00	
25	0.28	0.40	0.40	0.52	0.70	0.88	3.68	0.52	1.24	0.82	0.40	1.00	
26	0.24	0.46	0.36	0.52	0.64	0.76	2.35	0.52	1.24	0.76	0.40	1.00	
27	0.40	0.36	0.36	0.52	0.64	0.88	1.91	0.52	1.24	0.76	0.36	0.94	
28	0.36	0.36	0.32	0.52	0.64	1.00	1.56	0.52	1.24	0.76	0.36	0.88	
29	0.46	0.64	0.32	0.52	0.64	0.82	1.40	0.52	1.24	0.76		0.88	
30	0.40	0.82	0.28	0.52	0.64	0.58	1.40	0.52	1.24	0.64		0.88	
31		0.94		0.58	0.64		1.32		1.24	0.64		0.88	
Total	11.24	19.45	18.82	20.80	17.80	66.56	58.68	17.10	38.44	32.02	15.32	19.06	335.29 CMSDAY
Mean	0.37	0.63	0.63	0.67	0.57	2.22	1.89	0.57	1.24	1.03	0.55	0.61	0.92 CMS
Max	0.82	2.13	1.32	1.72	1.00	20.92	15.04	0.70	1.32	1.24	0.70	1.00	20.92 CMS
Min	0.12	0.36	0.28	0.32	0.40	0.58	0.58	0.52	1.08	0.64	0.36	0.32	0.12 CMS
Runoff	0.97	1.68	1.63	1.80	1.54	5.75	5.07	1.48	3.32	2.77	1.32	1.65	28.97 MCM
Momentary Peak	109.75 CMS. at 459.05 m. (MSL.) at 11.00 Hours , on Sep 17 , 2009												
Runoff Yield	7.12 Liters/Second/Square KM.			Momentary Peak Yield			850.775 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Kuang at Ban Pong , Chiang Mai (P.81)

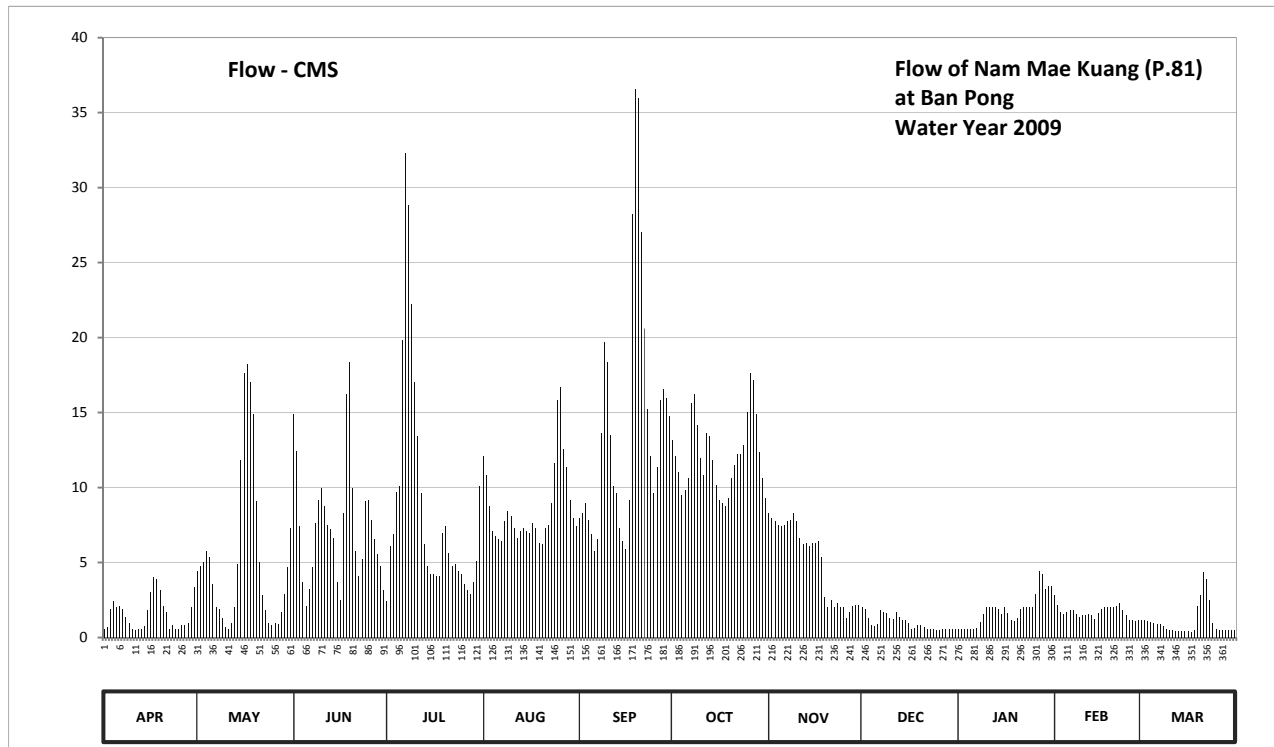
Lat 18 - 41 - 37 N Long 99 - 04 - 55 E

Location : on right bank at Ban Pong.

	Ban Pong	Amphoe San Kamphaeng	Changwat Chiang Mai
Drainage Area	1,190	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+289.919 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+295.749 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2002 to date		
Rating Operation			
Period of Rating	2002 to date		
Rated by Flot	-		
Rated by Current Meter	2002 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.72	291.15	292.06	290.96	291.84	291.47	291.93	291.50	290.92	290.72	291.00	290.82	
2	290.74	291.18	291.87	291.30	291.73	291.50	291.84	291.47	290.91	290.72	290.94	290.82	
3	290.91	291.20	291.42	291.37	291.54	291.56	291.75	291.45	290.84	290.72	290.89	290.81	
4	290.96	291.27	291.08	291.63	291.39	291.46	291.61	291.43	290.77	290.72	290.87	290.80	
5	290.92	291.23	290.93	291.66	291.36	291.37	291.64	291.42	290.75	290.71	290.89	290.79	
6	290.93	291.07	291.04	292.39	291.34	291.27	291.71	291.43	290.78	290.72	290.90	290.78	
7	290.91	290.92	291.17	293.19	291.33	291.34	292.11	291.45	290.90	290.73	290.90	290.78	
8	290.85	290.91	291.44	292.99	291.45	291.97	292.15	291.46	290.89	290.80	290.87	290.75	
9	290.79	290.84	291.58	292.55	291.51	292.38	292.01	291.50	290.88	290.87	290.85	290.71	
10	290.72	290.74	291.65	292.20	291.48	292.29	291.83	291.45	290.84	290.92	290.86	290.69	
11	290.70	290.71	291.54	291.95	291.41	291.96	291.73	291.35	290.83	290.92	290.86	290.70	
12	290.71	290.79	291.43	291.62	291.35	291.66	291.97	291.31	290.89	290.92	290.87	290.68	
13	290.72	290.92	291.40	291.31	291.39	291.62	291.95	291.32	290.85	290.92	290.86	290.68	
14	290.75	291.19	291.35	291.18	291.41	291.41	291.82	291.30	290.82	290.91	290.83	290.68	
15	290.90	291.82	291.08	291.13	291.39	291.33	291.67	291.32	290.82	290.87	290.88	290.67	
16	291.02	292.24	290.97	291.13	291.38	291.28	291.58	291.32	290.79	290.92	290.91	290.67	
17	291.11	292.28	291.50	291.12	291.44	291.58	291.56	291.33	290.71	290.88	290.92	290.66	
18	291.10	292.20	292.15	291.12	291.41	292.95	291.54	291.23	290.73	290.82	290.92	290.69	
19	291.03	292.06	292.29	291.38	291.32	293.43	291.59	290.99	290.77	290.81	290.92	290.93	
20	290.93	291.57	291.65	291.42	291.31	293.40	291.71	290.92	290.76	290.84	290.92	291.00	
21	290.89	291.20	291.27	291.26	291.41	292.87	291.79	290.97	290.74	290.91	290.93	291.14	
22	290.71	291.00	291.12	291.18	291.43	292.44	291.85	290.92	290.72	290.92	290.95	291.10	
23	290.76	290.90	291.22	291.19	291.56	292.08	291.85	290.95	290.72	290.92	290.90	290.97	
24	290.71	290.79	291.57	291.15	291.80	291.84	291.90	290.92	290.72	290.92	290.86	290.79	
25	290.72	290.77	291.58	291.13	292.12	291.62	292.07	290.92	290.70	290.92	290.82	290.71	
26	290.76	290.79	291.46	291.07	292.18	291.78	292.24	290.84	290.70	291.01	290.82	290.69	
27	290.77	290.78	291.34	291.03	291.88	292.12	292.21	290.89	290.71	291.15	290.81	290.69	
28	290.79	290.89	291.25	291.01	291.78	292.17	292.06	290.93	290.71	291.13	290.82	290.69	
29	290.92	291.01	291.18	291.08	291.58	292.13	291.86	290.94	290.72	291.04		290.69	
30	291.05	291.17	291.03	291.21	291.47	292.05	291.71	290.94	290.72	291.06		290.69	
31		291.41		291.66	291.42		291.59		290.72	291.06		290.69	
Mean	290.85	291.19	291.42	291.50	291.53	291.94	291.83	291.21	290.78	290.89	290.88	290.77	
Max	291.11	292.28	292.29	293.19	292.18	293.43	292.24	291.50	290.92	291.15	291.00	291.14	293.43
Min	290.70	290.71	290.93	290.96	291.31	291.27	291.54	290.84	290.70	290.71	290.81	290.66	290.66
Annual Max Momentary Gage Height		293.47		m. (MSL.) ,									at 04.00 Hours , on Sep 20 , 2009
Zero Gage at Bottom Elevation		289.92		m. (MSL.) ,		River Bed	290.07		m. (MSL)				
Left Bank Elevation			296.88		m. (MSL.) ,								
Right Bank Elevation			296.87		m. (MSL.) ,	Drainage Area	1190		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	4.45	14.90	2.40	12.08	7.97	13.16	8.30	2.00	0.60	2.80	1.16	
2	0.70	4.78	12.44	6.10	10.83	8.30	12.08	7.97	1.90	0.60	2.20	1.16	
3	1.90	5.00	7.42	6.87	8.74	8.96	11.05	7.75	1.32	0.60	1.72	1.08	
4	2.40	5.77	3.68	9.73	7.09	7.86	9.51	7.53	0.85	0.60	1.56	1.00	
5	2.00	5.33	2.10	10.06	6.76	6.87	9.84	7.42	0.75	0.55	1.72	0.95	
6	2.10	3.57	3.24	19.85	6.54	5.77	10.61	7.53	0.90	0.60	1.80	0.90	
7	1.90	2.00	4.67	32.33	6.43	6.54	15.65	7.75	1.80	0.65	1.80	0.90	
8	1.40	1.90	7.64	28.85	7.75	13.64	16.25	7.86	1.72	1.00	1.56	0.75	
9	0.95	1.32	9.18	22.25	8.41	19.70	14.15	8.30	1.64	1.56	1.40	0.55	
10	0.60	0.70	9.95	17.00	8.08	18.35	11.96	7.75	1.32	2.00	1.48	0.47	
11	0.50	0.55	8.74	13.40	7.31	13.52	10.83	6.65	1.24	2.00	1.48	0.50	
12	0.55	0.95	7.53	9.62	6.65	10.06	13.64	6.21	1.72	2.00	1.56	0.44	
13	0.60	2.00	7.20	6.21	7.09	9.62	13.40	6.32	1.40	2.00	1.48	0.44	
14	0.75	4.89	6.65	4.78	7.31	7.31	11.84	6.10	1.16	1.90	1.24	0.44	
15	1.80	11.84	3.68	4.23	7.09	6.43	10.17	6.32	1.16	1.56	1.64	0.41	
16	3.02	17.60	2.50	4.23	6.98	5.88	9.18	6.32	0.95	2.00	1.90	0.41	
17	4.01	18.20	8.30	4.12	7.64	9.18	8.96	6.43	0.55	1.64	2.00	0.38	
18	3.90	17.00	16.25	4.12	7.31	28.25	8.74	5.33	0.65	1.16	2.00	0.47	
19	3.13	14.90	18.35	6.98	6.32	36.55	9.29	2.70	0.85	1.08	2.00	2.10	
20	2.10	9.07	9.95	7.42	6.21	36.00	10.61	2.00	0.80	1.32	2.00	2.80	
21	1.72	5.00	5.77	5.66	7.31	27.05	11.49	2.50	0.70	1.90	2.10	4.34	
22	0.55	2.80	4.12	4.78	7.53	20.60	12.20	2.00	0.60	2.00	2.30	3.90	
23	0.80	1.80	5.22	4.89	8.96	15.20	12.20	2.30	0.60	2.00	1.80	2.50	
24	0.55	0.95	9.07	4.45	11.60	12.08	12.80	2.00	0.60	2.00	1.48	0.95	
25	0.60	0.85	9.18	4.23	15.80	9.62	15.05	2.00	0.50	2.00	1.16	0.55	
26	0.80	0.95	7.86	3.57	16.70	11.38	17.60	1.32	0.50	2.91	1.16	0.47	
27	0.85	0.90	6.54	3.13	12.56	15.80	17.15	1.72	0.55	4.45	1.08	0.47	
28	0.95	1.72	5.55	2.91	11.38	16.55	14.90	2.10	0.55	4.23	1.16	0.47	
29	2.00	2.91	4.78	3.68	9.18	15.95	12.32	2.20	0.60	3.24		0.47	
30	3.35	4.67	3.13	5.11	7.97	14.75	10.61	2.20	0.60	3.46		0.47	
31		7.31		10.06	7.42		9.29		0.60	3.46		0.47	
Total	47.08	161.68	225.59	273.02	269.03	425.74	376.53	152.88	31.08	57.07	47.58	32.37	2099.65 CMSDAY
Mean	1.57	5.22	7.52	8.81	8.68	14.19	12.15	5.10	1.00	1.84	1.70	1.04	5.75 CMS
Max	4.01	18.20	18.35	32.33	16.70	36.55	17.60	8.30	2.00	4.45	2.80	4.34	36.55 CMS
Min	0.50	0.55	2.10	2.40	6.21	5.77	8.74	1.32	0.50	0.55	1.08	0.38	0.38 CMS
Runoff	4.07	13.97	19.49	23.59	23.24	36.78	32.53	13.21	2.69	4.93	4.11	2.80	181.41 MCM
Momentary Peak	37.30 CMS. at 293.47 m. (MSL.) at 04.00 Hours , on Sep 20 , 2009												
Runoff Yield	4.83 Liters/Second/Square KM.			Momentary Peak Yield			31.345 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Wang at Ban Mae Win , Chiang Mai (P.82)

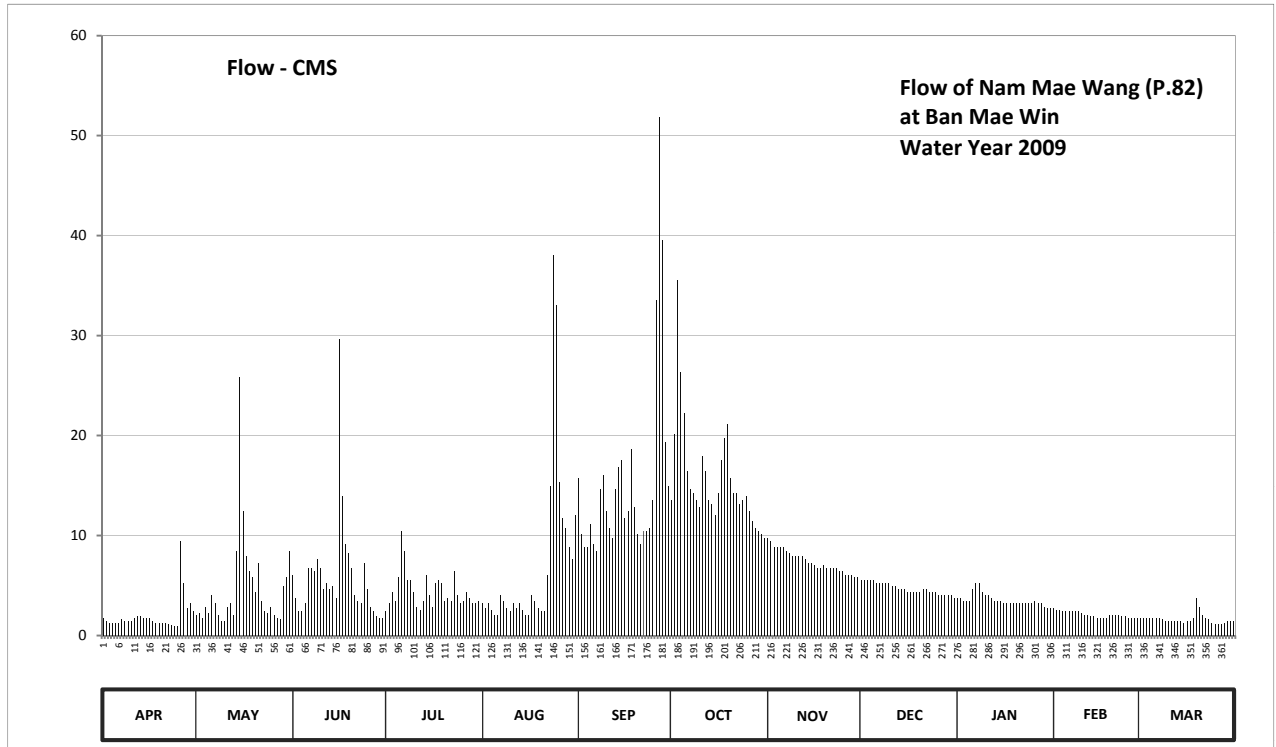
Lat 18 - 39 - 08 N Long 98 - 41 - 26 E

Location : on left bank at Ban Mae Win.

	Ban	Mae Win	Amphoe	Mae Wang	Changwat	Chiang Mai
Drainage Area	389	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+400.196 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5.00 meters from the top staff gage.				Elevation	+406.756 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 114 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	401.53	401.55	401.71	401.57	401.61	402.00	401.94	401.83	401.69	401.63	401.59	401.53	
2	401.51	401.56	401.63	401.61	401.59	401.84	402.12	401.82	401.69	401.63	401.58	401.53	
3	401.50	401.53	401.57	401.65	401.61	401.80	402.46	401.80	401.69	401.62	401.58	401.53	
4	401.50	401.60	401.57	401.62	401.58	401.80	402.27	401.80	401.69	401.62	401.57	401.53	
5	401.50	401.56	401.61	401.70	401.55	401.87	402.18	401.80	401.69	401.62	401.57	401.53	
6	401.50	401.64	401.73	401.85	401.55	401.81	402.02	401.80	401.68	401.66	401.57	401.53	
7	401.52	401.61	401.73	401.79	401.64	401.79	401.97	401.79	401.68	401.68	401.57	401.53	
8	401.51	401.55	401.72	401.69	401.62	401.97	401.96	401.78	401.68	401.68	401.57	401.52	
9	401.51	401.51	401.76	401.69	401.59	402.01	401.94	401.77	401.68	401.65	401.57	401.51	
10	401.51	401.51	401.73	401.65	401.57	401.91	401.92	401.77	401.68	401.64	401.56	401.51	
11	401.53	401.60	401.66	401.60	401.61	401.86	402.06	401.77	401.67	401.64	401.55	401.51	
12	401.54	401.61	401.68	401.58	401.59	401.83	402.02	401.77	401.67	401.63	401.55	401.51	
13	401.54	401.55	401.66	401.62	401.61	401.97	401.94	401.76	401.66	401.62	401.54	401.51	
14	401.53	401.79	401.67	401.71	401.58	402.03	401.93	401.75	401.66	401.62	401.54	401.51	
15	401.53	402.26	401.63	401.64	401.55	402.05	401.90	401.75	401.66	401.62	401.53	401.50	
16	401.53	401.91	402.34	401.60	401.55	401.89	401.96	401.74	401.65	401.61	401.53	401.51	
17	401.51	401.77	401.95	401.68	401.64	401.91	402.05	401.73	401.65	401.61	401.53	401.51	
18	401.50	401.72	401.81	401.69	401.62	402.08	402.11	401.73	401.65	401.61	401.53	401.53	
19	401.50	401.70	401.78	401.68	401.59	401.92	402.15	401.74	401.65	401.61	401.55	401.63	
20	401.50	401.65	401.73	401.62	401.57	401.84	402.00	401.73	401.65	401.61	401.55	401.60	
21	401.50	401.75	401.64	401.63	401.57	401.81	401.96	401.73	401.66	401.61	401.55	401.55	
22	401.49	401.62	401.62	401.62	401.71	401.85	401.96	401.73	401.66	401.61	401.55	401.53	
23	401.48	401.57	401.61	401.72	401.98	401.85	401.93	401.73	401.65	401.61	401.54	401.52	
24	401.47	401.56	401.75	401.64	402.51	401.86	401.94	401.72	401.65	401.61	401.54	401.50	
25	401.47	401.60	401.66	401.61	402.41	401.94	401.95	401.72	401.65	401.61	401.53	401.49	
26	401.82	401.55	401.60	401.62	401.99	402.42	401.91	401.71	401.64	401.62	401.53	401.49	
27	401.68	401.53	401.57	401.65	401.89	402.77	401.88	401.71	401.64	401.61	401.53	401.49	
28	401.59	401.52	401.54	401.63	401.86	402.54	401.86	401.71	401.64	401.61	401.53	401.50	
29	401.61	401.67	401.53	401.61	401.80	402.10	401.85	401.70	401.64	401.60		401.51	
30	401.57	401.70	401.53	401.61	401.76	401.98	401.84	401.70	401.64	401.59		401.51	
31		401.79		401.62	401.90		401.83		401.63	401.59		401.51	
Mean	401.53	401.65	401.69	401.65	401.72	401.98	401.99	401.75	401.66	401.62	401.55	401.52	
Max	401.82	402.26	402.34	401.85	402.51	402.77	402.46	401.83	401.69	401.68	401.59	401.63	402.77
Min	401.47	401.51	401.53	401.57	401.55	401.79	401.83	401.70	401.63	401.59	401.53	401.49	401.47
Annual Max Momentary Gage Height		403.55		m. (MSL.) ,									at 01.00 Hours , on Aug 25 , 2009
Zero Gage at Bottom Elevation		400.20		m. (MSL.) ,		River Bed	400.85		m. (MSL)				
Left Bank Elevation				405.98									
Right Bank Elevation				405.45									
Drainage Area						389							Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.78	2.10	6.10	2.42	3.19	15.70	13.54	9.79	5.51	3.77	2.74	1.78	
2	1.46	2.26	3.77	3.19	2.74	10.12	20.08	9.46	5.51	3.77	2.58	1.78	
3	1.30	1.78	2.42	4.35	3.19	8.80	35.50	8.80	5.51	3.48	2.58	1.78	
4	1.30	2.90	2.42	3.48	2.58	8.80	26.32	8.80	5.51	3.48	2.42	1.78	
5	1.30	2.26	3.19	5.80	2.10	11.11	22.27	8.80	5.51	3.48	2.42	1.78	
6	1.30	4.06	6.70	10.45	2.10	9.13	16.43	8.80	5.22	4.64	2.42	1.78	
7	1.62	3.19	6.70	8.50	4.06	8.50	14.62	8.50	5.22	5.22	2.42	1.78	
8	1.46	2.10	6.40	5.51	3.48	14.62	14.26	8.20	5.22	5.22	2.42	1.62	
9	1.46	1.46	7.60	5.51	2.74	16.07	13.54	7.90	5.22	4.35	2.42	1.46	
10	1.46	1.46	6.70	4.35	2.42	12.46	12.82	7.90	5.22	4.06	2.26	1.46	
11	1.78	2.90	4.64	2.90	3.19	10.78	17.89	7.90	4.93	4.06	2.10	1.46	
12	1.94	3.19	5.22	2.58	2.74	9.79	16.43	7.90	4.93	3.77	2.10	1.46	
13	1.94	2.10	4.64	3.48	3.19	14.62	13.54	7.60	4.64	3.48	1.94	1.46	
14	1.78	8.50	4.93	6.10	2.58	16.79	13.18	7.30	4.64	3.48	1.94	1.46	
15	1.78	25.85	3.77	4.06	2.10	17.52	12.10	7.30	4.64	3.48	1.78	1.30	
16	1.78	12.46	29.65	2.90	2.10	11.77	14.26	7.00	4.35	3.19	1.78	1.46	
17	1.46	7.90	13.90	5.22	4.06	12.46	17.52	6.70	4.35	3.19	1.78	1.46	
18	1.30	6.40	9.13	5.51	3.48	18.62	19.71	6.70	4.35	3.19	1.78	1.78	
19	1.30	5.80	8.20	5.22	2.74	12.82	21.17	7.00	4.35	3.19	2.10	3.77	
20	1.30	4.35	6.70	3.48	2.42	10.12	15.70	6.70	4.35	3.19	2.10	2.90	
21	1.30	7.30	4.06	3.77	2.42	9.13	14.26	6.70	4.64	3.19	2.10	2.10	
22	1.17	3.48	3.48	3.48	6.10	10.45	14.26	6.70	4.64	3.19	2.10	1.78	
23	1.04	2.42	3.19	6.40	14.98	10.45	13.18	6.70	4.35	3.19	1.94	1.62	
24	0.91	2.26	7.30	4.06	38.00	10.78	13.54	6.40	4.35	3.19	1.94	1.30	
25	0.91	2.90	4.64	3.19	33.00	13.54	13.90	6.40	4.35	3.19	1.78	1.17	
26	9.46	2.10	2.90	3.48	15.34	33.50	12.46	6.10	4.06	3.48	1.78	1.17	
27	5.22	1.78	2.42	4.35	11.77	51.85	11.44	6.10	4.06	3.19	1.78	1.17	
28	2.74	1.62	1.94	3.77	10.78	39.50	10.78	6.10	4.06	3.19	1.78	1.30	
29	3.19	4.93	1.78	3.19	8.80	19.35	10.45	5.80	4.06	2.90		1.46	
30	2.42	5.80	1.78	3.19	7.60	14.98	10.12	5.80	4.06	2.74		1.46	
31		8.50		3.48	12.10		9.79		3.77	2.74		1.46	
Total	59.16	146.11	176.27	137.37	218.09	464.13	485.06	221.85	145.58	109.88	59.28	51.50	2274.28 CMSDAY
Mean	1.97	4.71	5.88	4.43	7.04	15.47	15.65	7.39	4.70	3.54	2.12	1.66	6.23 CMS
Max	9.46	25.85	29.65	10.45	38.00	51.85	35.50	9.79	5.51	5.22	2.74	3.77	51.85 CMS
Min	0.91	1.46	1.78	2.42	2.10	8.50	9.79	5.80	3.77	2.74	1.78	1.17	0.91 CMS
Runoff	5.11	12.62	15.23	11.87	18.84	40.10	41.91	19.17	12.58	9.49	5.12	4.45	196.50 MCM
Momentary Peak	105.25 CMS. at 403.55 m. (MSL.) at 01.00 Hours , on Aug 25 , 2009												
Runoff Yield	16.02 Liters/Second/Square KM.			Momentary Peak Yield			270.566 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Wang at Ban Mae Chaem , Chiang Mai (P.84)

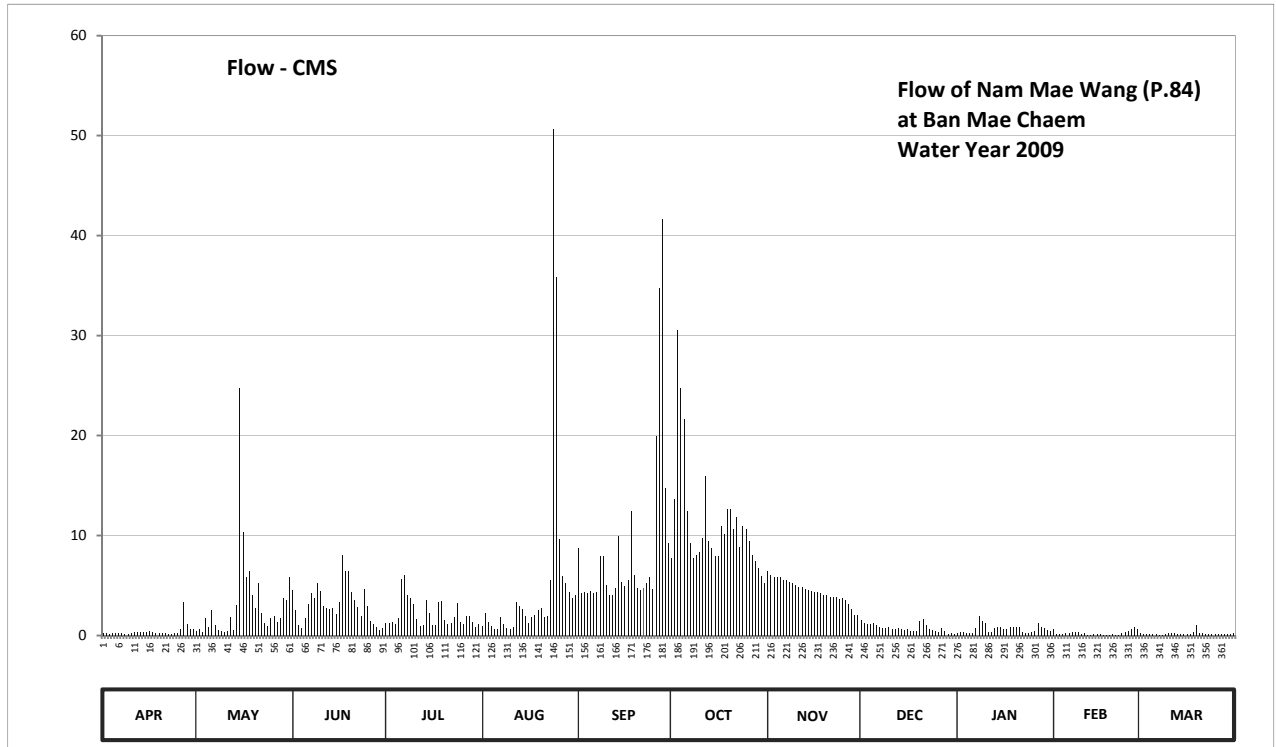
Lat 18 - 35 - 20 N Long 98 - 47 - 59 E

Location : on left bank at Ban Mae Chaem.

	Ban Mae Chaem	Amphoe Mae Wang	Changwat Chiang Mai
Drainage Area	491 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+303.244 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	Elevation	+308.997 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	303.78	303.85	304.34	304.01	303.95	304.63	304.57	304.48	304.04	303.75	303.88	303.75	
2	303.75	303.89	304.15	304.00	304.12	304.31	304.90	304.46	304.00	303.81	303.74	303.72	
3	303.74	303.82	303.97	304.02	304.02	304.32	305.64	304.44	303.99	303.82	303.73	303.74	
4	303.75	304.06	303.91	303.98	303.95	304.31	305.41	304.44	303.98	303.78	303.73	303.74	
5	303.77	303.93	304.06	304.06	303.88	304.33	305.28	304.44	304.01	303.79	303.75	303.72	
6	303.79	304.15	304.21	304.43	303.89	304.31	304.84	304.42	303.96	303.79	303.76	303.70	
7	303.76	303.97	304.31	304.46	304.07	304.32	304.66	304.42	303.94	303.90	303.80	303.67	
8	303.74	303.87	304.27	304.29	303.98	304.58	304.57	304.41	303.91	304.08	303.80	303.68	
9	303.74	303.85	304.40	304.27	303.91	304.58	304.59	304.40	303.91	304.03	303.81	303.73	
10	303.76	303.82	304.33	304.21	303.89	304.39	304.61	304.39	303.92	304.01	303.74	303.76	
11	303.81	303.83	304.19	304.05	303.92	304.30	304.69	304.37	303.89	303.81	303.77	303.75	
12	303.81	304.07	304.17	303.95	304.23	304.30	305.02	304.37	303.89	303.82	303.69	303.76	
13	303.81	303.87	304.16	303.97	304.19	304.36	304.67	304.35	303.90	303.91	303.69	303.74	
14	303.82	304.20	304.17	304.25	304.16	304.70	304.63	304.34	303.89	303.93	303.73	303.74	
15	303.82	305.41	304.11	304.12	304.08	304.41	304.58	304.33	303.86	303.92	303.70	303.73	
16	303.83	304.72	304.23	303.97	304.01	304.38	304.58	304.32	303.88	303.88	303.70	303.70	
17	303.81	304.44	304.59	303.97	304.07	304.42	304.76	304.32	303.85	303.89	303.68	303.71	
18	303.79	304.48	304.48	304.23	304.10	304.84	304.71	304.31	303.85	303.93	303.69	303.80	
19	303.77	304.30	304.48	304.24	304.15	304.46	304.85	304.30	303.85	303.94	303.69	303.97	
20	303.78	304.17	304.32	304.04	304.17	304.36	304.85	304.30	304.03	303.93	303.70	303.76	
21	303.76	304.40	304.25	303.99	304.07	304.34	304.74	304.28	304.05	303.93	303.69	303.76	
22	303.72	304.12	304.18	304.01	304.08	304.36	304.81	304.28	303.97	303.82	303.69	303.74	
23	303.71	304.00	304.08	304.07	304.42	304.40	304.64	304.28	303.88	303.77	303.75	303.72	
24	303.75	303.95	304.35	304.22	306.35	304.44	304.76	304.26	303.86	303.76	303.80	303.71	
25	303.78	304.06	304.19	304.02	305.84	304.35	304.74	304.27	303.84	303.81	303.83	303.71	
26	303.88	304.08	304.03	303.99	304.68	305.21	304.67	304.25	303.82	303.84	303.88	303.72	
27	304.23	304.02	303.98	304.08	304.45	305.80	304.59	304.21	303.91	304.01	303.93	303.72	
28	303.99	304.06	303.93	304.08	304.40	306.05	304.55	304.16	303.83	303.94	303.89	303.73	
29	303.89	304.27	303.86	304.02	304.32	304.96	304.50	304.09	303.74	303.90		303.74	
30	303.88	304.25	303.90	303.92	304.27	304.66	304.45	304.09	303.76	303.86		303.74	
31		304.44		303.98	304.29		304.40		303.74	303.85		303.75	
Mean	303.81	304.14	304.19	304.09	304.26	304.57	304.75	304.33	303.90	303.88	303.76	303.74	
Max	304.23	305.41	304.59	304.46	306.35	306.05	305.64	304.48	304.05	304.08	303.93	303.97	306.35
Min	303.71	303.82	303.86	303.92	303.88	304.30	304.40	304.09	303.74	303.75	303.68	303.67	303.67
Annual Max Momentary Gage Height		306.99	m. (MSL.) ,			at 06.00 Hours , on Sep 28 , 2009							
Zero Gage at Bottom Elevation		303.24	m. (MSL.) ,			River Bed	303.32	m. (MSL)					
Left Bank Elevation		309.06	m. (MSL.) ,										
Right Bank Elevation		309.03	m. (MSL.) ,			Drainage Area	491	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.50	4.54	1.29	0.95	8.73	7.75	6.40	1.56	0.20	0.62	0.20	
2	0.20	0.66	2.55	1.20	2.28	4.21	13.60	6.10	1.20	0.34	0.18	0.14	
3	0.18	0.38	1.05	1.38	1.38	4.32	30.54	5.80	1.15	0.38	0.16	0.18	
4	0.20	1.74	0.75	1.10	0.95	4.21	24.75	5.80	1.10	0.26	0.16	0.18	
5	0.24	0.85	1.74	1.74	0.62	4.43	21.62	5.80	1.29	0.28	0.20	0.14	
6	0.28	2.55	3.11	5.65	0.66	4.21	12.46	5.50	1.00	0.28	0.22	0.10	
7	0.22	1.05	4.21	6.10	1.83	4.32	9.25	5.50	0.90	0.70	0.30	0.07	
8	0.18	0.58	3.77	3.99	1.10	7.90	7.75	5.35	0.75	1.92	0.30	0.08	
9	0.18	0.50	5.20	3.77	0.75	7.90	8.05	5.20	0.75	1.47	0.34	0.16	
10	0.22	0.38	4.43	3.11	0.66	5.09	8.37	5.09	0.80	1.29	0.18	0.22	
11	0.34	0.42	2.91	1.65	0.80	4.10	9.78	4.87	0.66	0.34	0.24	0.20	
12	0.34	1.83	2.73	0.95	3.33	4.10	15.92	4.87	0.66	0.38	0.09	0.22	
13	0.34	0.58	2.64	1.05	2.91	4.76	9.43	4.65	0.70	0.75	0.09	0.18	
14	0.38	3.00	2.73	3.55	2.64	9.95	8.73	4.54	0.66	0.85	0.16	0.18	
15	0.38	24.75	2.19	2.28	1.92	5.35	7.90	4.43	0.54	0.80	0.10	0.16	
16	0.42	10.30	3.33	1.05	1.29	4.98	7.90	4.32	0.62	0.62	0.10	0.10	
17	0.34	5.80	8.05	1.05	1.83	5.50	11.00	4.32	0.50	0.66	0.08	0.12	
18	0.28	6.40	6.40	3.33	2.10	12.46	10.12	4.21	0.50	0.85	0.09	0.30	
19	0.24	4.10	6.40	3.44	2.55	6.10	12.65	4.10	0.50	0.90	0.09	1.05	
20	0.26	2.73	4.32	1.56	2.73	4.76	12.65	4.10	1.47	0.85	0.10	0.22	
21	0.22	5.20	3.55	1.15	1.83	4.54	10.65	3.88	1.65	0.85	0.09	0.22	
22	0.14	2.28	2.82	1.29	1.92	4.76	11.89	3.88	1.05	0.38	0.09	0.18	
23	0.12	1.20	1.92	1.83	5.50	5.20	8.90	3.88	0.62	0.24	0.20	0.14	
24	0.20	0.95	4.65	3.22	50.70	5.80	11.00	3.66	0.54	0.22	0.30	0.12	
25	0.26	1.74	2.91	1.38	35.80	4.65	10.65	3.77	0.46	0.34	0.42	0.12	
26	0.62	1.92	1.47	1.15	9.60	19.94	9.43	3.55	0.38	0.46	0.62	0.14	
27	3.33	1.38	1.10	1.92	5.95	34.70	8.05	3.11	0.75	1.29	0.85	0.14	
28	1.15	1.74	0.85	1.92	5.20	41.70	7.45	2.64	0.42	0.90	0.66	0.16	
29	0.66	3.77	0.54	1.38	4.32	14.74	6.70	2.01	0.18	0.70		0.18	
30	0.62	3.55	0.70	0.80	3.77	9.25	5.95	2.01	0.22	0.54		0.18	
31		5.80		1.10	3.99		5.20		0.18	0.50		0.20	
Total	12.80	98.63	93.56	66.38	161.86	262.66	346.09	133.34	23.76	20.54	7.03	5.98	1232.63 CMSDAY
Mean	0.43	3.18	3.12	2.14	5.22	8.76	11.16	4.44	0.77	0.66	0.25	0.19	3.38 CMS
Max	3.33	24.75	8.05	6.10	50.70	41.70	30.54	6.40	1.65	1.92	0.85	1.05	50.70 CMS
Min	0.12	0.38	0.54	0.80	0.62	4.10	5.20	2.01	0.18	0.20	0.08	0.07	0.07 CMS
Runoff	1.11	8.52	8.08	5.74	13.99	22.69	29.90	11.52	2.05	1.78	0.61	0.52	106.50 MCM
Momentary Peak	70.88 CMS. at 306.99 m. (MSL.) at 06.00 Hours , on Sep 28 , 2009												
Runoff Yield	6.88 Liters/Second/Square KM.			Momentary Peak Yield			144.358 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Li at Ban Lai Khaeo , Lamphun (P.85)

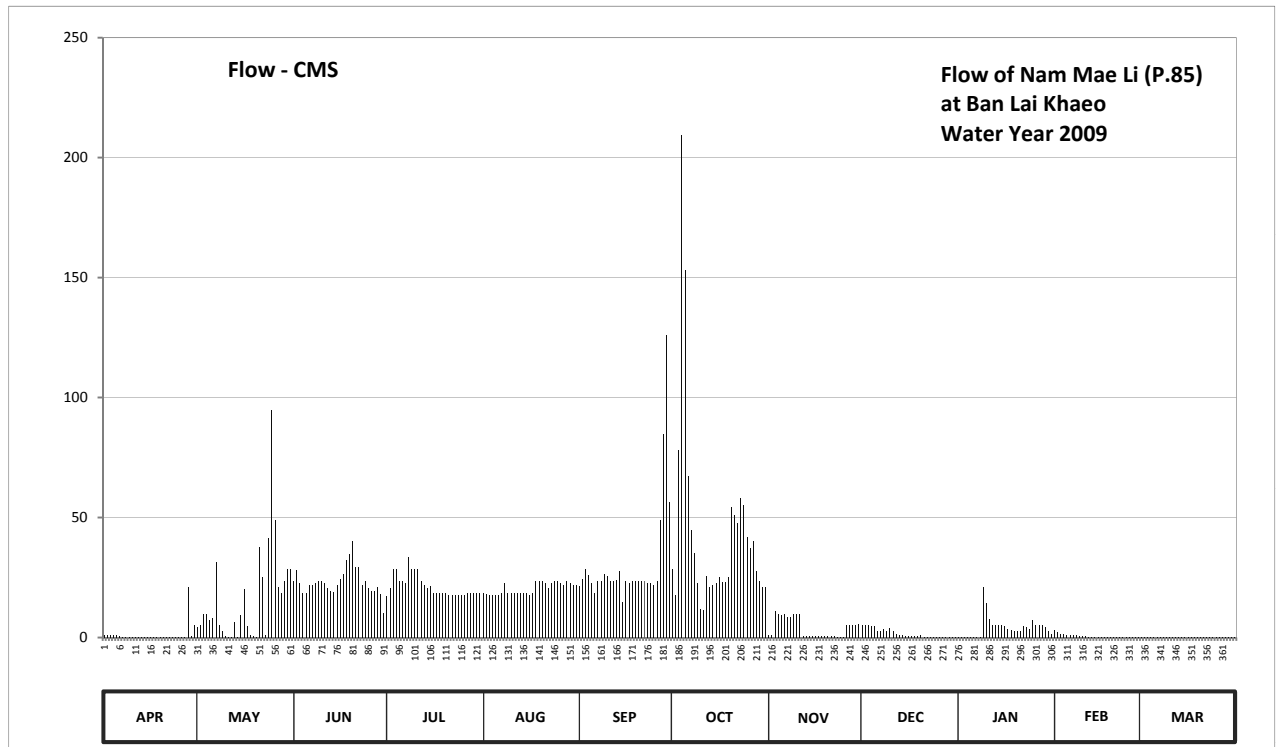
Lat 18 - 21 - 50 N Long 98 - 46 - 32 E

Location : on right bank at Ban Lai Khaeo.

	Ban Lai Khaeo	Amphoe Ban Hong	Changwat Lamphun
Drainage Area	2,037 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+290.368 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.		Elevation +295.123 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.77	290.93	291.07	290.94	290.97	291.03	291.17	290.77	290.97	290.13	290.88	289.97	
2	290.77	290.97	291.16	291.01	290.96	291.09	290.95	290.73	290.97	290.13	290.85	289.97	
3	290.77	291.07	291.05	291.17	290.95	291.17	291.89	291.09	290.97	290.13	290.81	289.97	
4	290.77	291.07	290.97	291.17	290.95	291.12	293.23	291.07	290.95	290.15	290.81	289.97	
5	290.74	291.02	290.97	291.07	290.95	291.05	292.70	291.06	290.95	290.15	290.77	289.97	
6	290.37	291.04	291.04	291.07	290.95	290.97	291.75	291.07	290.87	290.15	290.74	289.96	
7	290.12	291.27	291.04	291.05	290.97	291.07	291.44	291.05	290.87	290.15	290.70	289.95	
8	290.12	290.97	291.05	291.26	291.05	291.07	291.29	291.05	290.90	290.24	290.67	289.94	
9	290.14	290.86	291.07	291.17	290.97	291.13	291.05	291.07	290.87	291.20	290.63	289.94	
10	290.07	290.49	291.07	291.17	290.97	291.11	290.81	291.07	290.92	291.13	290.54	289.94	
11	290.07	290.11	291.05	291.17	290.97	291.07	290.80	291.07	290.87	291.03	290.33	289.94	
12	290.13	290.03	291.01	291.07	290.97	291.07	291.11	290.37	290.82	290.97	290.23	289.94	
13	290.13	291.01	290.99	291.04	290.97	291.08	291.02	290.37	290.77	290.97	290.16	289.94	
14	290.13	290.20	290.98	291.01	290.97	291.15	291.04	290.37	290.72	290.97	290.13	289.94	
15	290.13	291.06	291.04	291.03	290.97	290.88	291.05	290.37	290.55	290.97	290.12	289.94	
16	290.13	291.19	291.09	290.97	290.95	291.07	291.10	290.32	290.47	290.95	290.09	289.94	
17	290.13	290.95	291.13	290.97	290.97	291.05	291.06	290.32	290.47	290.91	290.09	289.94	
18	290.13	290.65	291.24	290.97	291.07	291.07	291.06	290.33	290.47	290.89	290.09	289.95	
19	290.13	290.31	291.28	290.97	291.07	291.07	291.10	290.37	290.47	290.87	290.09	289.95	
20	290.13	290.08	291.37	290.97	291.07	291.07	291.59	290.37	290.67	290.86	290.06	289.95	
21	290.13	291.33	291.19	290.95	291.05	291.07	291.54	290.37	290.27	290.86	290.02	289.95	
22	290.13	291.10	291.19	290.95	291.01	291.07	291.49	290.37	290.03	290.95	290.02	289.95	
23	290.13	290.45	291.04	290.95	291.05	291.05	291.64	290.11	289.97	290.93	290.03	289.95	
24	290.13	291.39	291.07	290.95	291.07	291.05	291.60	290.11	289.97	290.90	290.07	289.95	
25	290.13	292.09	291.01	290.95	291.07	291.04	291.40	290.11	289.97	291.02	290.02	289.94	
26	290.13	291.51	290.99	290.95	291.05	291.07	291.32	290.97	289.97	290.97	289.99	289.94	
27	290.13	291.02	290.99	290.97	291.04	291.51	291.37	290.97	289.97	290.96	289.97	289.94	
28	291.20	290.97	291.02	290.97	291.07	291.97	291.15	290.97	290.12	290.97	290.02	289.94	
29	290.32	291.07	290.96	290.97	291.05	292.43	291.07	290.97	290.12	290.93		289.94	
30	290.97	291.17	290.76	290.97	291.04	291.62	291.02	290.98	290.12	290.86		289.94	
31		291.17		290.97	291.04		291.02		290.12	290.81		289.94	
Mean	290.31	290.92	291.06	291.03	291.01	291.18	291.35	290.67	290.52	290.75	290.32	289.95	
Max	291.20	292.09	291.37	291.26	291.07	292.43	293.23	291.09	290.97	291.20	290.88	289.97	293.23
Min	290.07	290.03	290.76	290.94	290.95	290.88	290.80	290.11	289.97	290.13	289.97	289.94	289.94
Annual Max Momentary Gage Height		293.57	m. (MSL.) ,				at 22.00 Hours , on Oct 4 , 2009						
Zero Gage at Bottom Elevation		290.37	m. (MSL.) ,			River Bed	288.16	m. (MSL)					
Left Bank Elevation		295.41	m. (MSL.) ,										
Right Bank Elevation		295.36	m. (MSL.) ,			Drainage Area	2037	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.96	4.25	23.50	17.30	18.65	21.50	28.50	0.96	5.25	0.25	3.00	0.08	
2	0.96	5.25	28.00	20.50	18.20	24.50	17.75	0.92	5.25	0.25	2.25	0.08	
3	0.96	9.85	22.50	28.50	17.75	28.50	78.20	10.95	5.25	0.25	1.25	0.08	
4	0.96	9.85	18.65	28.50	17.75	26.00	209.30	9.85	4.75	0.27	1.25	0.08	
5	0.93	7.10	18.65	23.50	17.75	22.50	153.25	9.30	4.75	0.27	0.96	0.08	
6	0.52	8.20	22.00	23.50	17.75	18.65	67.00	9.85	2.75	0.27	0.93	0.07	
7	0.24	31.50	22.00	22.50	18.65	23.50	44.60	8.75	2.75	0.27	0.88	0.06	
8	0.24	5.25	22.50	33.60	22.50	23.50	35.40	8.75	3.50	0.37	0.85	0.04	
9	0.26	2.50	23.50	28.50	18.65	26.50	22.50	9.85	2.75	21.00	0.80	0.04	
10	0.19	0.65	23.50	28.50	18.65	25.50	11.90	9.85	4.00	14.35	0.70	0.04	
11	0.19	0.23	22.50	28.50	18.65	23.50	11.50	9.85	2.75	7.65	0.47	0.04	
12	0.25	0.14	20.50	23.50	18.65	23.50	25.50	0.52	1.50	5.25	0.36	0.04	
13	0.25	6.55	19.55	22.00	18.65	24.00	21.00	0.52	0.96	5.25	0.29	0.04	
14	0.25	0.33	19.10	20.50	18.65	27.50	22.00	0.52	0.90	5.25	0.25	0.04	
15	0.25	9.30	22.00	21.50	18.65	14.70	22.50	0.52	0.71	5.25	0.24	0.04	
16	0.25	20.05	24.50	18.65	17.75	23.50	25.00	0.46	0.63	4.75	0.21	0.04	
17	0.25	4.75	26.50	18.65	18.65	22.50	23.00	0.46	0.63	3.75	0.21	0.04	
18	0.25	0.82	32.40	18.65	23.50	23.50	23.00	0.47	0.63	3.25	0.21	0.06	
19	0.25	0.45	34.80	18.65	23.50	23.50	25.00	0.52	0.63	2.75	0.21	0.06	
20	0.25	0.20	40.20	18.65	23.50	23.50	54.35	0.52	0.85	2.50	0.18	0.06	
21	0.25	37.80	29.50	17.75	22.50	23.50	51.10	0.52	0.41	2.50	0.13	0.06	
22	0.25	25.00	29.50	17.75	20.50	23.50	47.85	0.52	0.14	4.75	0.13	0.06	
23	0.25	1.00	22.00	17.75	22.50	22.50	58.20	0.23	0.08	4.25	0.14	0.06	
24	0.25	41.40	23.50	17.75	23.50	22.50	55.00	0.23	0.08	3.50	0.19	0.06	
25	0.25	94.87	20.50	17.75	23.50	22.00	42.00	0.23	0.08	7.10	0.13	0.04	
26	0.25	49.15	19.55	17.75	22.50	23.50	37.20	5.25	0.08	5.25	0.10	0.04	
27	0.25	21.00	19.55	18.65	22.00	49.15	40.20	5.25	0.08	5.00	0.08	0.04	
28	21.00	18.65	21.00	18.65	23.50	84.60	27.50	5.25	0.24	5.25	0.13	0.04	
29	0.46	23.50	18.20	18.65	22.50	126.00	23.50	5.25	0.24	4.25		0.04	
30	5.25	28.50	10.02	18.65	22.00	56.60	21.00	5.50	0.24	2.50		0.04	
31		28.50		18.65	22.00		21.00		0.24	1.25		0.04	
Total	37.12	496.59	700.17	663.90	633.45	924.20	1345.80	121.62	53.10	128.80	16.53	1.63	5122.91 CMSDAY
Mean	1.24	16.02	23.34	21.42	20.43	30.81	43.41	4.05	1.71	4.15	0.59	0.05	14.04 CMS
Max	21.00	94.87	40.20	33.60	23.50	126.00	209.30	10.95	5.25	21.00	3.00	0.08	209.30 CMS
Min	0.19	0.14	10.02	17.30	17.75	14.70	11.50	0.23	0.08	0.25	0.08	0.04	0.04 CMS
Runoff	3.21	42.91	60.50	57.36	54.73	79.85	116.28	10.51	4.59	11.13	1.43	0.14	442.62 MCM
Momentary Peak	246.70 CMS. at 293.57 m. (MSL.) at 22.00 Hours , on Oct 4 , 2009												
Runoff Yield	6.89 Liters/Second/Square KM.			Momentary Peak Yield			121.109 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Hom at Ban Hong , Chiang Mai (P.86)

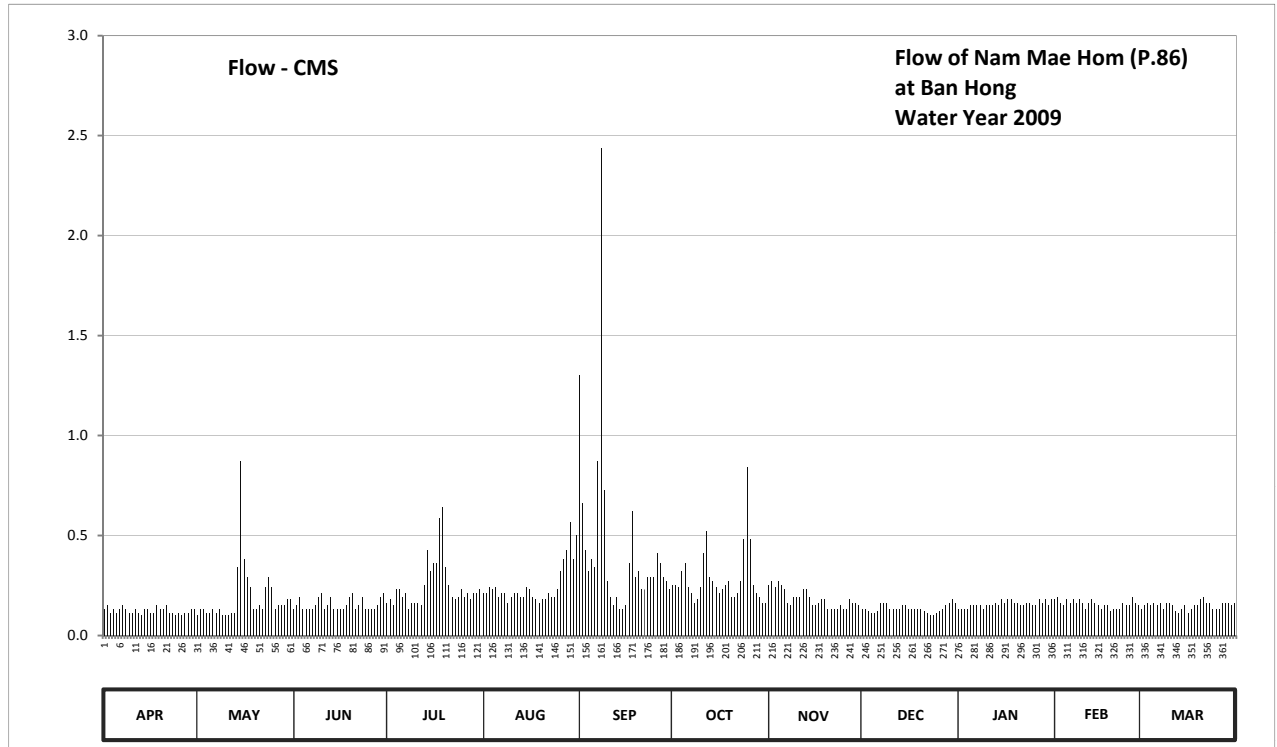
Lat 18 - 44 - 18 N Long 99 - 13 - 18 E

Location : on left bank at Ban Hong.

	Ban Hong	Amphoe San Kamphaeng	Changwat Chiang Mai
Drainage Area	97	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+341.205 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.		Elevation +345.535 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	341.61	341.58	341.61	341.63	341.66	342.10	341.69	341.69	341.61	341.61	341.64	341.61	
2	341.62	341.61	341.62	341.64	341.66	341.87	341.69	341.70	341.61	341.61	341.65	341.62	
3	341.59	341.61	341.65	341.62	341.68	341.77	341.68	341.68	341.60	341.61	341.63	341.63	
4	341.61	341.59	341.61	341.67	341.67	341.72	341.72	341.70	341.59	341.61	341.62	341.62	
5	341.59	341.59	341.61	341.67	341.68	341.75	341.74	341.69	341.59	341.62	341.64	341.63	
6	341.61	341.61	341.61	341.65	341.65	341.73	341.68	341.67	341.60	341.62	341.63	341.62	
7	341.62	341.59	341.61	341.66	341.66	341.95	341.66	341.63	341.63	341.62	341.64	341.63	
8	341.61	341.61	341.62	341.61	341.66	342.40	341.63	341.62	341.63	341.62	341.63	341.61	
9	341.59	341.58	341.65	341.63	341.63	341.90	341.64	341.65	341.63	341.61	341.64	341.63	
10	341.59	341.58	341.66	341.63	341.65	341.70	341.68	341.65	341.61	341.62	341.63	341.63	
11	341.61	341.58	341.61	341.63	341.66	341.65	341.76	341.65	341.61	341.62	341.61	341.62	
12	341.59	341.59	341.62	341.62	341.66	341.62	341.81	341.67	341.61	341.62	341.63	341.60	
13	341.58	341.59	341.65	341.69	341.65	341.65	341.71	341.67	341.61	341.63	341.64	341.59	
14	341.61	341.73	341.61	341.77	341.65	341.61	341.70	341.65	341.62	341.62	341.63	341.61	
15	341.61	341.95	341.61	341.72	341.68	341.61	341.68	341.62	341.62	341.64	341.62	341.62	
16	341.59	341.75	341.61	341.74	341.67	341.62	341.66	341.62	341.61	341.63	341.61	341.59	
17	341.59	341.71	341.61	341.74	341.65	341.74	341.67	341.63	341.61	341.64	341.62	341.61	
18	341.62	341.68	341.62	341.84	341.64	341.85	341.69	341.64	341.61	341.64	341.62	341.62	
19	341.61	341.61	341.65	341.86	341.63	341.71	341.70	341.64	341.61	341.63	341.60	341.62	
20	341.61	341.61	341.66	341.73	341.64	341.72	341.65	341.61	341.61	341.63	341.61	341.64	
21	341.62	341.62	341.61	341.69	341.64	341.67	341.65	341.61	341.60	341.62	341.61	341.65	
22	341.59	341.61	341.62	341.65	341.66	341.67	341.66	341.61	341.59	341.62	341.61	341.63	
23	341.59	341.68	341.65	341.64	341.65	341.71	341.70	341.61	341.58	341.63	341.63	341.63	
24	341.58	341.71	341.61	341.65	341.65	341.71	341.79	341.62	341.58	341.63	341.62	341.61	
25	341.59	341.68	341.61	341.67	341.67	341.71	341.94	341.61	341.59	341.62	341.62	341.61	
26	341.58	341.61	341.61	341.65	341.72	341.76	341.79	341.61	341.60	341.62	341.65	341.61	
27	341.59	341.62	341.61	341.66	341.75	341.74	341.69	341.64	341.61	341.64	341.63	341.63	
28	341.59	341.62	341.62	341.64	341.77	341.71	341.66	341.63	341.62	341.63	341.62	341.63	
29	341.61	341.62	341.65	341.66	341.83	341.70	341.65	341.63	341.63	341.64		341.63	
30	341.61	341.64	341.66	341.66	341.75	341.67	341.63	341.62	341.64	341.62		341.62	
31		341.64		341.67	341.80		341.63		341.63	341.64		341.63	
Mean	341.60	341.64	341.63	341.68	341.68	341.76	341.70	341.64	341.61	341.62	341.63	341.62	
Max	341.62	341.95	341.66	341.86	341.83	342.40	341.94	341.70	341.64	341.64	341.65	341.65	342.40
Min	341.58	341.58	341.61	341.61	341.63	341.61	341.63	341.61	341.58	341.61	341.60	341.59	341.58
Annual Max Momentary Gage Height		342.50		m. (MSL.) ,									at 06.00 Hours , on Sep 8 , 2009
Zero Gage at Bottom Elevation		341.20		m. (MSL.) ,		River Bed	341.13		m. (MSL)				
Left Bank Elevation			345.42		m. (MSL.) ,								
Right Bank Elevation		345.38		m. (MSL.) ,		Drainage Area	97		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.10	0.13	0.16	0.21	1.30	0.25	0.25	0.13	0.13	0.18	0.13	
2	0.15	0.13	0.15	0.18	0.21	0.66	0.25	0.27	0.13	0.13	0.19	0.15	
3	0.11	0.13	0.19	0.15	0.24	0.43	0.24	0.24	0.12	0.13	0.16	0.16	
4	0.13	0.11	0.13	0.23	0.23	0.32	0.32	0.27	0.11	0.13	0.15	0.15	
5	0.11	0.11	0.13	0.23	0.24	0.38	0.36	0.25	0.11	0.15	0.18	0.16	
6	0.13	0.13	0.13	0.19	0.19	0.34	0.24	0.23	0.12	0.15	0.16	0.15	
7	0.15	0.11	0.13	0.21	0.21	0.87	0.21	0.16	0.16	0.15	0.18	0.16	
8	0.13	0.13	0.15	0.13	0.21	2.44	0.16	0.15	0.16	0.15	0.16	0.13	
9	0.11	0.10	0.19	0.16	0.16	0.73	0.18	0.19	0.16	0.13	0.18	0.16	
10	0.11	0.10	0.21	0.16	0.19	0.27	0.24	0.19	0.13	0.15	0.16	0.16	
11	0.13	0.10	0.13	0.16	0.21	0.19	0.41	0.19	0.13	0.15	0.13	0.15	
12	0.11	0.11	0.15	0.15	0.21	0.15	0.52	0.23	0.13	0.15	0.16	0.12	
13	0.10	0.11	0.19	0.25	0.19	0.19	0.29	0.23	0.13	0.16	0.18	0.11	
14	0.13	0.34	0.13	0.43	0.19	0.13	0.27	0.19	0.15	0.15	0.16	0.13	
15	0.13	0.87	0.13	0.32	0.24	0.13	0.24	0.15	0.15	0.18	0.15	0.15	
16	0.11	0.38	0.13	0.36	0.23	0.15	0.21	0.15	0.13	0.16	0.13	0.11	
17	0.11	0.29	0.13	0.36	0.19	0.36	0.23	0.16	0.13	0.18	0.15	0.13	
18	0.15	0.24	0.15	0.59	0.18	0.62	0.25	0.18	0.13	0.18	0.15	0.15	
19	0.13	0.13	0.19	0.64	0.16	0.29	0.27	0.18	0.13	0.16	0.12	0.15	
20	0.13	0.13	0.21	0.34	0.18	0.32	0.19	0.13	0.13	0.16	0.13	0.18	
21	0.15	0.15	0.13	0.25	0.18	0.23	0.19	0.13	0.12	0.15	0.13	0.19	
22	0.11	0.13	0.15	0.19	0.21	0.23	0.21	0.13	0.11	0.15	0.13	0.16	
23	0.11	0.24	0.19	0.18	0.19	0.29	0.27	0.13	0.10	0.16	0.16	0.16	
24	0.10	0.29	0.13	0.19	0.19	0.29	0.48	0.15	0.10	0.16	0.15	0.13	
25	0.11	0.24	0.13	0.23	0.23	0.29	0.84	0.13	0.11	0.15	0.15	0.13	
26	0.10	0.13	0.13	0.19	0.32	0.41	0.48	0.13	0.12	0.15	0.19	0.13	
27	0.11	0.15	0.13	0.21	0.38	0.36	0.25	0.18	0.13	0.18	0.16	0.16	
28	0.11	0.15	0.15	0.18	0.43	0.29	0.21	0.16	0.15	0.16	0.15	0.16	
29	0.13	0.15	0.19	0.21	0.57	0.27	0.19	0.16	0.16	0.18		0.16	
30	0.13	0.18	0.21	0.21	0.38	0.23	0.16	0.15	0.18	0.15		0.15	
31		0.18		0.23	0.50		0.16		0.16	0.18		0.16	
Total	3.65	5.84	4.62	7.67	7.65	13.16	8.77	5.44	4.11	4.80	4.38	4.58	74.67 CMSDAY
Mean	0.12	0.19	0.15	0.25	0.25	0.44	0.28	0.18	0.13	0.15	0.16	0.15	0.20 CMS
Max	0.15	0.87	0.21	0.64	0.57	2.44	0.84	0.27	0.18	0.18	0.19	0.19	2.44 CMS
Min	0.10	0.10	0.13	0.13	0.16	0.13	0.16	0.13	0.10	0.13	0.12	0.11	0.10 CMS
Runoff	0.32	0.51	0.40	0.66	0.66	1.14	0.76	0.47	0.36	0.42	0.38	0.40	6.45 MCM
Momentary Peak	2.88 CMS. at 342.50 m. (MSL.) at 06.00 Hours , on Sep 8 , 2009												
Runoff Yield	2.11 Liters/Second/Square KM.			Momentary Peak Yield			29.691 Liters/Second/Square KM.						

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Tha at Ban Pa Cang Noy, Lamphun (P.87)

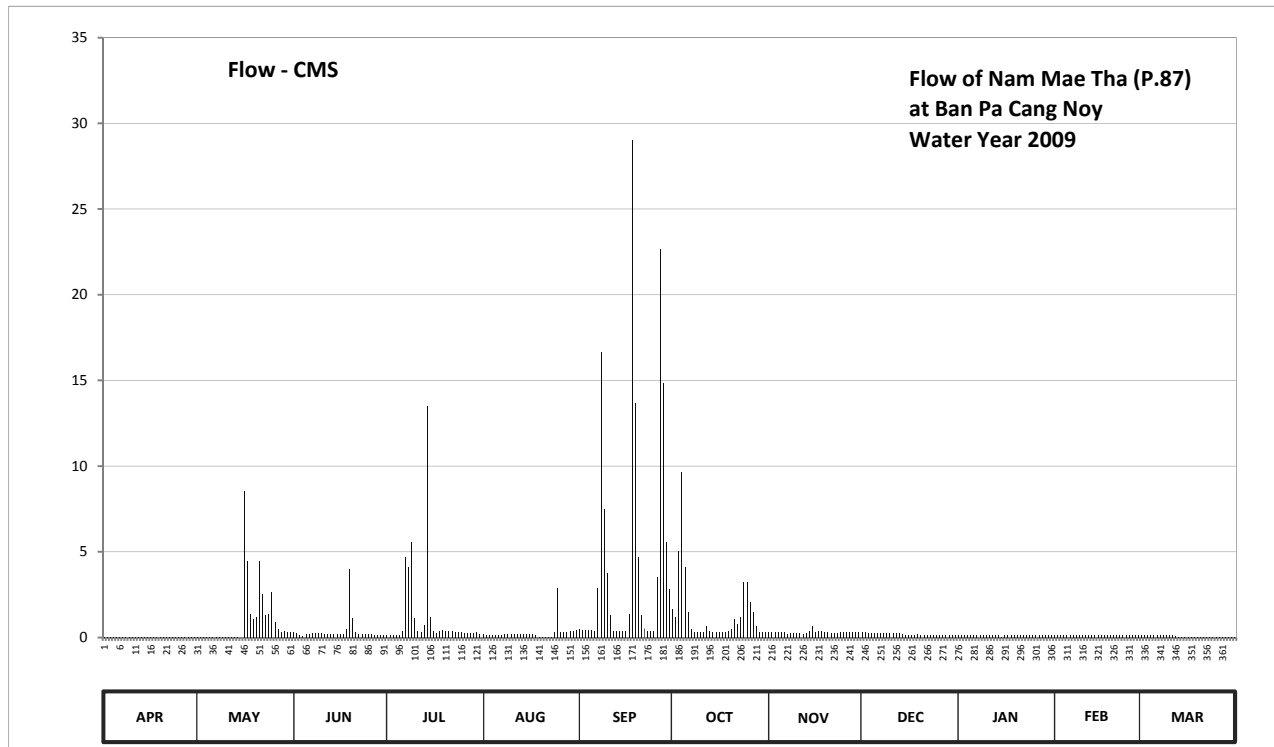
Lat 18 - 31 - 04 N Long 98 - 56 - 42 E

Location : on left bank at Ban Pa Cang Noy.

	Ban Pa Cang Noy	Amphoe Pa Sang	Changwat Lamphun
Drainage Area	934 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+288.954 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+293.962 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 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	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	289.71	289.67	289.95	289.87	289.89	290.02	290.25	289.96	289.95	289.88	289.86	289.86	
2	289.71	289.66	289.93	289.87	289.88	290.01	290.20	289.96	289.95	289.88	289.86	289.86	
3	289.70	289.66	289.87	289.87	289.87	290.01	290.57	289.96	289.94	289.88	289.86	289.86	
4	289.70	289.63	289.84	289.86	289.87	290.01	290.89	289.96	289.94	289.86	289.86	289.86	
5	289.70	289.60	289.89	289.86	289.86	290.01	290.49	289.96	289.94	289.86	289.86	289.86	
6	289.70	289.59	289.90	289.98	289.88	290.00	290.23	289.96	289.94	289.86	289.86	289.86	
7	289.70	289.59	289.93	290.54	289.88	290.38	290.03	289.91	289.94	289.86	289.86	289.86	
8	289.70	289.56	289.93	290.49	289.89	291.27	289.96	289.93	289.94	289.88	289.86	289.86	
9	289.70	289.56	289.93	290.61	289.89	290.75	289.96	289.94	289.94	289.86	289.86	289.86	
10	289.70	289.54	289.92	290.19	289.89	290.46	289.96	289.93	289.94	289.86	289.86	289.86	
11	289.70	289.52	289.91	289.99	289.90	290.21	289.96	289.92	289.94	289.86	289.86	289.86	
12	289.70	289.50	289.90	289.95	289.90	290.00	290.07	289.90	289.94	289.86	289.86	289.85	
13	289.70	289.51	289.90	290.08	289.90	289.99	289.98	289.92	289.94	289.86	289.86	289.79	
14	289.70	289.49	289.90	291.11	289.90	289.98	289.97	290.00	289.89	289.86	289.86	289.79	
15	289.70	289.67	289.89	290.20	289.89	289.98	289.96	290.07	289.88	289.82	289.86	289.79	
16	289.69	290.82	289.89	289.99	289.89	289.98	289.95	289.97	289.88	289.86	289.86	289.79	
17	289.69	290.52	289.91	289.93	289.89	290.22	289.95	289.98	289.88	289.86	289.86	289.79	
18	289.69	290.22	290.03	289.98	289.88	291.80	289.95	290.00	289.88	289.86	289.86	289.78	
19	289.69	290.17	290.48	290.01	289.82	291.12	290.00	289.96	289.90	289.86	289.86	289.78	
20	289.69	290.20	290.18	290.00	289.81	290.54	290.03	289.95	289.88	289.86	289.86	289.78	
21	289.69	290.52	289.97	290.00	289.81	290.21	290.17	289.94	289.88	289.86	289.86	289.78	
22	289.69	290.34	289.90	289.98	289.81	290.03	290.10	289.93	289.88	289.86	289.86	289.78	
23	289.68	290.21	289.89	289.97	289.82	289.98	290.20	289.93	289.88	289.86	289.86	289.78	
24	289.68	290.22	289.89	289.97	289.95	289.98	290.41	289.97	289.86	289.86	289.86	289.78	
25	289.68	290.35	289.89	289.96	290.38	289.99	290.41	289.97	289.86	289.86	289.86	289.73	
26	289.68	290.13	289.89	289.94	289.96	290.44	290.29	289.96	289.86	289.86	289.86	289.71	
27	289.68	290.03	289.88	289.93	289.95	291.55	290.23	289.95	289.86	289.86	289.86	289.70	
28	289.68	289.97	289.88	289.92	289.96	291.18	290.06	289.95	289.86	289.86	289.86	289.69	
29	289.68	289.99	289.88	289.94	290.00	290.61	289.97	289.95	289.88	289.86		289.63	
30	289.68	289.97	289.87	289.97	290.00	290.37	289.96	289.95	289.88	289.86		289.48	
31		289.97		289.91	290.01		289.96		289.88	289.86		289.29	
Mean	289.69	289.92	289.93	290.06	289.91	290.37	290.13	289.95	289.90	289.86	289.86	289.77	
Max	289.71	290.82	290.48	291.11	290.38	291.80	290.89	290.07	289.95	289.88	289.86	289.86	291.80
Min	289.68	289.49	289.84	289.86	289.81	289.98	289.95	289.90	289.86	289.82	289.86	289.29	289.29
Annual Max Momentary Gage Height		292.03		m. (MSL.) ,			at 09.00 Hours , on Sep 18 , 2009						
Zero Gage at Bottom Elevation		288.95		m. (MSL.) ,		River Bed	289.24		m. (MSL)				
Left Bank Elevation			293.67		m. (MSL.) ,								
Right Bank Elevation			293.68		m. (MSL.) ,	Drainage Area	934		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.30	0.14	0.18	0.48	1.67	0.32	0.30	0.16	0.12	0.12	
2	0.01	0.01	0.26	0.14	0.16	0.44	1.20	0.32	0.30	0.16	0.12	0.12	
3	0.01	0.01	0.14	0.14	0.14	0.44	5.06	0.32	0.28	0.16	0.12	0.12	
4	0.01	0.01	0.08	0.12	0.14	0.44	9.64	0.32	0.28	0.12	0.12	0.12	
5	0.01	0.01	0.18	0.12	0.12	0.44	4.13	0.32	0.28	0.12	0.12	0.12	
6	0.01	0.01	0.20	0.36	0.16	0.40	1.49	0.32	0.28	0.12	0.12	0.12	
7	0.01	0.01	0.26	4.71	0.16	2.91	0.52	0.22	0.28	0.12	0.12	0.12	
8	0.01	0.01	0.26	4.13	0.18	16.63	0.32	0.26	0.28	0.16	0.12	0.12	
9	0.01	0.01	0.26	5.54	0.18	7.50	0.32	0.28	0.28	0.12	0.12	0.12	
10	0.01	0.01	0.24	1.16	0.18	3.79	0.32	0.26	0.28	0.12	0.12	0.12	
11	0.01	0.01	0.22	0.38	0.20	1.29	0.32	0.24	0.28	0.12	0.12	0.12	
12	0.01	0.01	0.20	0.30	0.20	0.40	0.68	0.20	0.28	0.12	0.12	0.10	
13	0.01	0.01	0.20	0.72	0.20	0.38	0.36	0.24	0.28	0.12	0.12	0.01	
14	0.01	0.01	0.20	13.49	0.20	0.36	0.34	0.40	0.18	0.12	0.12	0.01	
15	0.01	0.00	0.18	1.20	0.18	0.36	0.32	0.68	0.16	0.04	0.12	0.01	
16	0.01	8.52	0.18	0.38	0.18	0.36	0.30	0.34	0.16	0.12	0.12	0.01	
17	0.01	4.48	0.22	0.26	0.18	1.39	0.30	0.36	0.16	0.12	0.12	0.01	
18	0.01	1.39	0.52	0.36	0.16	29.00	0.30	0.40	0.16	0.12	0.12	0.01	
19	0.01	1.08	4.02	0.44	0.04	13.68	0.40	0.32	0.20	0.12	0.12	0.01	
20	0.01	1.20	1.12	0.40	0.02	4.71	0.52	0.30	0.16	0.12	0.12	0.01	
21	0.01	4.48	0.34	0.40	0.02	1.29	1.08	0.28	0.16	0.12	0.12	0.01	
22	0.01	2.53	0.20	0.36	0.02	0.52	0.80	0.26	0.16	0.12	0.12	0.01	
23	0.01	1.29	0.18	0.34	0.04	0.36	1.20	0.26	0.16	0.12	0.12	0.01	
24	0.01	1.39	0.18	0.34	0.30	0.36	3.22	0.34	0.12	0.12	0.12	0.01	
25	0.01	2.63	0.18	0.32	2.91	0.38	3.22	0.34	0.12	0.12	0.12	0.01	
26	0.01	0.92	0.18	0.28	0.32	3.56	2.06	0.32	0.12	0.12	0.12	0.01	
27	0.01	0.52	0.16	0.26	0.30	22.67	1.49	0.30	0.12	0.12	0.12	0.01	
28	0.01	0.34	0.16	0.24	0.32	14.82	0.64	0.30	0.12	0.12	0.12	0.01	
29	0.01	0.38	0.16	0.28	0.40	5.54	0.34	0.30	0.16	0.12	0.12	0.01	
30	0.01	0.34	0.14	0.34	0.40	2.81	0.32	0.30	0.16	0.12	0.12	0.01	
31		0.34		0.22	0.44		0.32		0.16	0.12		0.01	
Total	0.30	31.97	11.12	37.87	8.63	137.71	43.20	9.42	6.42	3.80	3.36	1.61	295.41 CMSDAY
Mean	0.01	1.03	0.37	1.22	0.28	4.59	1.39	0.31	0.21	0.12	0.12	0.05	0.81 CMS
Max	0.01	8.52	4.02	13.49	2.91	29.00	9.64	0.68	0.30	0.16	0.12	0.12	29.00 CMS
Min	0.01	0.00	0.08	0.12	0.02	0.36	0.30	0.20	0.12	0.04	0.12	0.01	0.00 CMS
Runoff	0.03	2.76	0.96	3.27	0.75	11.90	3.73	0.81	0.56	0.33	0.29	0.14	25.52 MCM
Momentary Peak	35.07 CMS. at 292.03 m. (MSL.) at 09.00 Hours , on Sep 18 , 2009												
Runoff Yield	0.87 Liters/Second/Square KM.			Momentary Peak Yield			37.548 Liters/Second/Square KM.						

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Don Chai , Lampang (W.3A)

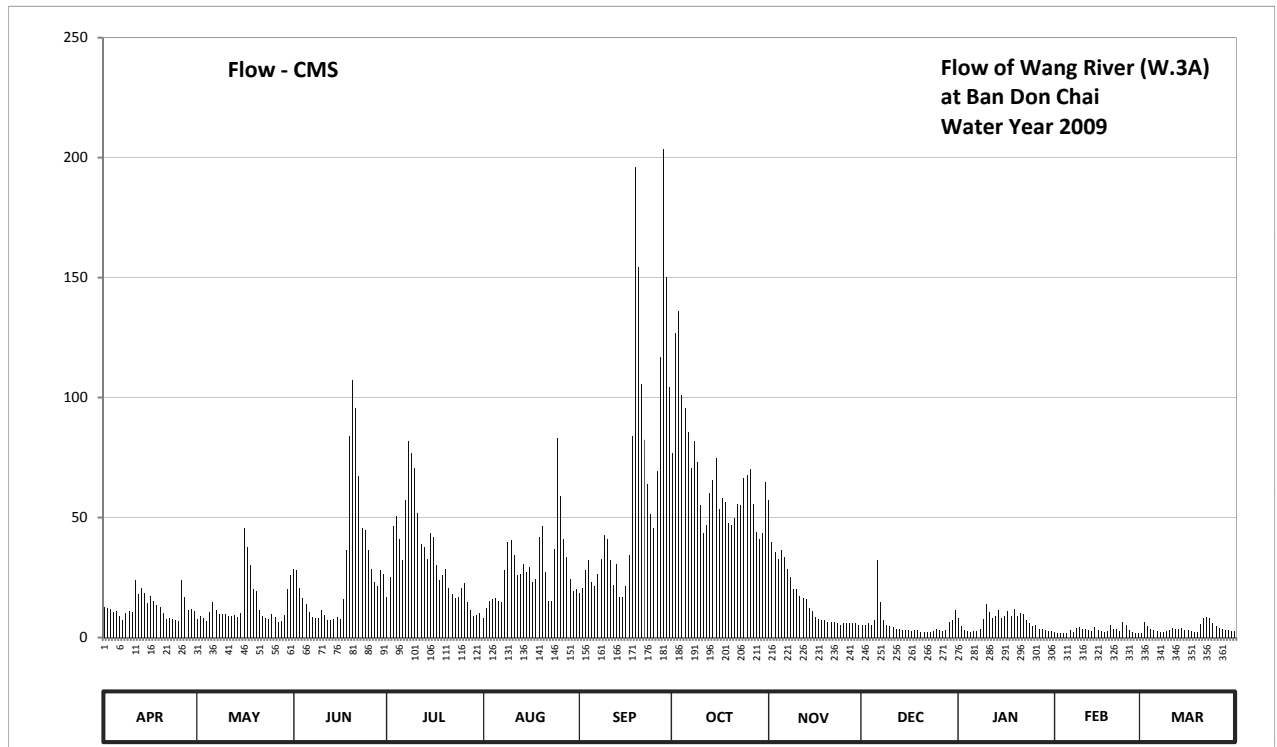
Lat 17 - 38 - 28 N Long 99 - 14 - 01 E

Location : on right bank about 30 meters upstream from Siriyong Bridge.

	Ban Don Chai	Amphoe Thoen	Changwat Lampang
Drainage Area	8,924 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+161.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 15 meters from automatic gage building	Elevation	+167.074 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 to date		
Rated by Flot	-		
Rated by Current Meter	1967 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The channel is filled of the Mimosa pudica plants. Stage-discharge relation defined by 37 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.96	160.84	161.23	161.04	160.85	161.07	161.89	161.63	160.75	160.85	160.62	160.60	
2	160.95	160.87	161.22	161.18	160.95	161.11	162.52	161.39	160.76	160.73	160.60	160.80	
3	160.94	160.85	161.11	161.48	161.01	161.22	162.63	161.33	160.78	160.67	160.60	160.74	
4	160.91	160.81	161.03	161.54	161.02	161.28	162.20	161.29	160.76	160.63	160.59	160.69	
5	160.92	160.91	160.98	161.41	161.03	161.15	162.13	161.34	160.82	160.62	160.59	160.65	
6	160.87	161.00	160.91	161.28	161.01	161.12	162.00	161.30	161.28	160.64	160.65	160.63	
7	160.82	160.93	160.86	161.63	161.00	161.20	161.81	161.23	161.00	160.64	160.61	160.62	
8	160.90	160.89	160.85	161.95	161.22	161.29	161.95	161.18	160.83	160.69	160.71	160.62	
9	160.92	160.89	160.85	161.89	161.39	161.43	161.84	161.10	160.75	160.84	160.72	160.63	
10	160.91	160.89	160.93	161.81	161.40	161.41	161.60	161.10	160.74	160.98	160.69	160.65	
11	161.16	160.87	160.88	161.56	161.31	161.28	161.44	161.05	160.72	160.91	160.68	160.71	
12	161.06	160.87	160.83	161.38	161.19	161.13	161.49	161.03	160.69	160.85	160.65	160.68	
13	161.11	160.88	160.83	161.36	161.20	161.26	161.67	161.02	160.68	160.87	160.63	160.69	
14	161.07	160.86	160.84	161.29	161.26	161.04	161.74	160.95	160.67	160.93	160.72	160.71	
15	160.99	160.90	160.86	161.44	161.21	161.04	161.86	160.92	160.65	160.85	160.66	160.67	
16	161.05	161.47	160.84	161.42	161.24	161.12	161.58	160.86	160.65	160.87	160.63	160.65	
17	161.01	161.36	161.02	161.25	161.15	161.31	161.64	160.84	160.64	160.92	160.62	160.64	
18	160.97	161.25	161.34	161.16	161.17	161.98	161.62	160.83	160.67	160.87	160.64	160.62	
19	160.96	161.10	161.98	161.19	161.42	163.34	161.50	160.82	160.65	160.94	160.75	160.62	
20	160.90	161.09	162.28	161.23	161.48	162.85	161.49	160.80	160.62	160.87	160.69	160.77	
21	160.84	160.93	162.13	161.11	161.21	162.26	161.53	160.80	160.62	160.90	160.68	160.85	
22	160.85	160.87	161.76	161.06	161.01	161.96	161.61	160.80	160.62	160.89	160.63	160.86	
23	160.84	160.85	161.47	161.03	161.01	161.72	161.60	160.79	160.62	160.83	160.80	160.85	
24	160.83	160.84	161.46	161.04	161.35	161.55	161.75	160.75	160.63	160.78	160.76	160.78	
25	160.81	160.89	161.34	161.11	161.97	161.47	161.77	160.79	160.68	160.73	160.65	160.73	
26	161.16	160.86	161.23	161.14	161.65	161.79	161.80	160.79	160.67	160.75	160.61	160.70	
27	161.04	160.80	161.15	161.00	161.41	162.40	161.61	160.79	160.64	160.69	160.60	160.68	
28	160.93	160.81	161.12	160.93	161.30	163.43	161.45	160.78	160.66	160.69	160.60	160.67	
29	160.94	160.88	161.22	160.87	161.17	162.80	161.41	160.78	160.80	160.67		160.65	
30	160.92	161.10	161.20	160.88	161.09	162.24	161.44	160.76	160.83	160.63		160.63	
31		161.19		160.90	161.10		161.73		160.93	160.64		160.63	
Mean	160.95	160.95	161.19	161.28	161.22	161.68	161.75	160.99	160.74	160.79	160.66	160.69	
Max	161.16	161.47	162.28	161.95	161.97	163.43	162.63	161.63	161.28	160.98	160.80	160.86	163.43
Min	160.81	160.80	160.83	160.87	160.85	161.04	161.41	160.75	160.62	160.62	160.59	160.60	160.59
Annual Max Momentary Gage Height	163.50		m. (MSL.) ,				at 18.00 Hours , on Sep 19 , 2009						
Zero Gage at Bottom Elevation	161.00		m. (MSL.) ,			River Bed	159.74	m. (MSL)					
Left Bank Elevation		169.08		m. (MSL.) ,									
Right Bank Elevation		169.01		m. (MSL.) ,		Drainage Area	8924	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.88	7.84	28.60	16.88	8.20	18.44	76.97	57.25	5.10	8.20	2.36	2.00	
2	12.40	8.92	27.90	25.20	12.40	20.65	126.90	39.80	5.36	4.58	2.00	6.40	
3	11.92	8.20	20.65	46.30	15.32	27.90	135.98	35.60	5.88	3.26	2.00	4.84	
4	10.48	6.76	16.36	50.65	15.84	32.10	101.00	32.80	5.36	2.54	1.88	3.62	
5	10.96	10.48	13.84	41.23	16.36	23.25	95.58	36.30	7.12	2.36	1.88	2.90	
6	8.92	14.80	10.48	32.10	15.32	21.30	85.50	33.50	32.10	2.72	2.90	2.54	
7	7.12	11.44	8.56	57.25	14.80	26.50	70.77	28.60	14.80	2.72	2.18	2.36	
8	10.00	9.64	8.20	81.62	27.90	32.80	81.62	25.20	7.48	3.62	4.06	2.36	
9	10.96	9.64	8.20	76.97	39.80	42.67	73.10	20.00	5.10	7.84	4.32	2.54	
10	10.48	9.64	11.44	70.77	40.50	41.23	55.00	20.00	4.84	13.84	3.62	2.90	
11	23.90	8.92	9.28	52.10	34.20	32.10	43.40	17.40	4.32	10.48	3.44	4.06	
12	17.92	8.92	7.48	39.10	25.85	21.95	47.03	16.36	3.62	8.20	2.90	3.44	
13	20.65	9.28	7.48	37.70	26.50	30.70	60.25	15.84	3.44	8.92	2.54	3.62	
14	18.44	8.56	7.84	32.80	30.70	16.88	65.50	12.40	3.26	11.44	4.32	4.06	
15	14.32	10.00	8.56	43.40	27.20	16.88	74.65	10.96	2.90	8.20	3.08	3.26	
16	17.40	45.58	7.84	41.95	29.30	21.30	53.55	8.56	2.90	8.92	2.54	2.90	
17	15.32	37.70	15.84	30.00	23.25	34.20	58.00	7.84	2.72	10.96	2.36	2.72	
18	13.36	30.00	36.30	23.90	24.55	83.95	56.50	7.48	3.26	8.92	2.72	2.36	
19	12.88	20.00	83.95	25.85	41.95	195.90	47.75	7.12	2.90	11.92	5.10	2.36	
20	10.00	19.48	107.40	28.60	46.30	154.25	47.03	6.40	2.36	8.92	3.62	5.62	
21	7.84	11.44	95.58	20.65	27.20	105.80	49.92	6.40	2.36	10.00	3.44	8.20	
22	8.20	8.92	67.00	17.92	15.32	82.40	55.75	6.40	2.36	9.64	2.54	8.56	
23	7.84	8.20	45.58	16.36	15.32	64.00	55.00	6.14	2.36	7.48	6.40	8.20	
24	7.48	7.84	44.85	16.88	37.00	51.38	66.25	5.10	2.54	5.88	5.36	5.88	
25	6.76	9.64	36.30	20.65	83.18	45.58	67.75	6.14	3.44	4.58	2.90	4.58	
26	23.90	8.56	28.60	22.60	58.75	69.25	70.00	6.14	3.26	5.10	2.18	3.80	
27	16.88	6.40	23.25	14.80	41.23	117.00	55.75	6.14	2.72	3.62	2.00	3.44	
28	11.44	6.76	21.30	11.44	33.50	203.70	44.13	5.88	3.08	3.62	2.00	3.26	
29	11.92	9.28	27.90	8.92	24.55	150.00	41.23	5.88	6.40	3.26		2.90	
30	10.96	20.00	26.50	9.28	19.48	104.20	43.40	5.36	7.48	2.54		2.54	
31		25.85		10.00	20.00		64.75		11.44	2.72		2.54	
Total	383.53	418.69	863.06	1023.87	891.77	1888.26	2070.01	498.99	172.26	207.00	86.64	120.76	8624.84 CMSDAY
Mean	12.78	13.51	28.77	33.03	28.77	62.94	66.77	16.63	5.56	6.68	3.09	3.90	23.63 CMS
Max	23.90	45.58	107.40	81.62	83.18	203.70	135.98	57.25	32.10	13.84	6.40	8.56	203.70 CMS
Min	6.76	6.40	7.48	8.92	8.20	16.88	41.23	5.10	2.36	2.36	1.88	2.00	1.88 CMS
Runoff	33.14	36.18	74.57	88.46	77.05	163.15	178.85	43.11	14.88	17.89	7.49	10.43	745.19 MCM
Momentary Peak	210.00 CMS. at 163.50 m. (MSL.) at 18.00 Hours , on Sep 19 , 2009												
Runoff Yield	2.65 Liters/Second/Square KM.			Momentary Peak Yield				23.532 Liters/Second/Square KM.					

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Wang Man , Tak (W.4A)

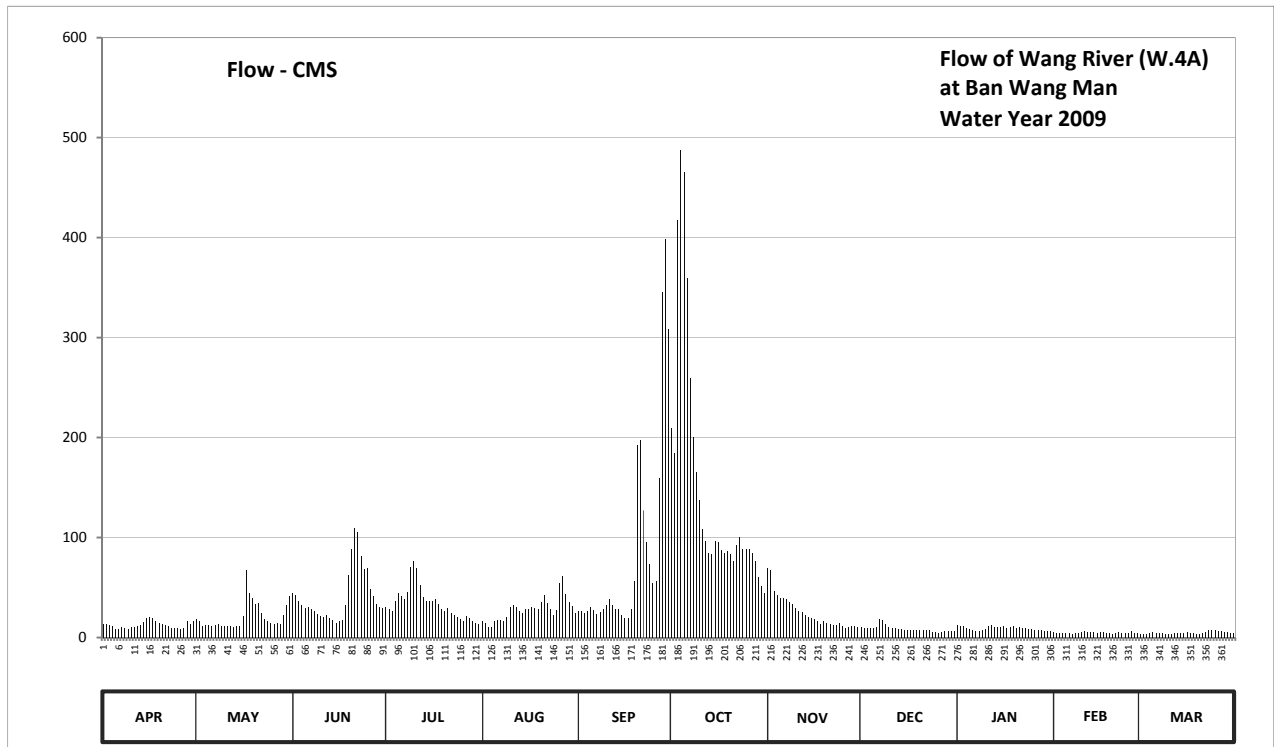
Lat 17 - 12 - 19 N Long 99 - 06 - 05 E

Location : on left bank about 200 meters upstream from the bridge on highway.

	Ban	Wang Man	Amphoe	Sam Ngao	Changwat	Tak
Drainage Area	10,439	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+130.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	In front of Wat Wang Man				Elevation	+143.191 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 means of 5 readings					
Period of Available Gage Records	1968 to date					
Rating Operation						
Period of Rating	1971 to date					
Rated by Flot	-					
Rated by Current Meter	1971 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +136.720 m.(MSL.) and is including overbank flow.					
General Description	Records good.Stage-discharge relation defined by 16 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.85	131.02	131.72	131.37	130.96	131.25	134.16	132.21	130.68	130.81	130.36	130.24	
2	130.85	130.93	131.67	131.30	130.88	131.25	133.85	132.18	130.65	130.76	130.33	130.22	
3	130.83	130.79	131.51	131.27	130.71	131.20	136.20	131.77	130.65	130.74	130.32	130.20	
4	130.77	130.82	131.40	131.50	130.68	131.25	136.80	131.65	130.65	130.63	130.27	130.27	
5	130.56	130.82	131.34	131.70	130.95	131.35	136.61	131.58	130.65	130.55	130.30	130.35	
6	130.53	130.77	131.35	131.64	130.98	131.28	135.67	131.58	130.67	130.49	130.28	130.32	
7	130.68	130.81	131.31	131.55	130.98	131.18	134.71	131.57	131.02	130.45	130.25	130.30	
8	130.64	130.84	131.26	131.74	130.96	131.24	134.05	131.48	130.99	130.44	130.27	130.28	
9	130.59	130.78	131.17	132.22	131.10	131.32	133.62	131.44	130.85	130.47	130.30	130.25	
10	130.67	130.75	131.12	132.33	131.36	131.40	133.26	131.33	130.69	130.53	130.34	130.23	
11	130.71	130.75	131.10	132.21	131.42	131.55	132.86	131.27	130.63	130.74	130.42	130.21	
12	130.74	130.73	131.14	131.88	131.37	131.41	132.67	131.24	130.63	130.82	130.36	130.26	
13	130.81	130.72	131.05	131.61	131.26	131.31	132.48	131.16	130.59	130.72	130.36	130.31	
14	130.92	130.77	130.98	131.50	131.22	131.30	132.46	131.10	130.53	130.68	130.34	130.33	
15	131.04	130.78	130.88	131.50	131.30	131.16	132.66	131.05	130.52	130.70	130.33	130.33	
16	131.10	131.12	130.93	131.52	131.30	131.05	132.65	131.00	130.50	130.73	130.37	130.35	
17	131.05	132.18	130.98	131.55	131.35	131.06	132.52	130.94	130.50	130.66	130.34	130.31	
18	130.94	131.70	131.40	131.44	131.34	131.31	132.47	130.85	130.49	130.67	130.31	130.27	
19	130.89	131.59	132.08	131.30	131.31	131.96	132.51	130.94	130.48	130.73	130.27	130.25	
20	130.85	131.43	132.53	131.27	131.49	133.95	132.45	130.89	130.47	130.65	130.25	130.25	
21	130.80	131.46	132.87	131.33	131.66	134.01	132.34	130.84	130.47	130.69	130.31	130.26	
22	130.78	131.20	132.81	131.22	131.47	133.12	132.60	130.82	130.47	130.66	130.35	130.35	
23	130.61	131.02	132.43	131.14	131.30	132.64	132.72	130.80	130.48	130.63	130.33	130.50	
24	130.62	130.95	132.19	131.10	131.15	132.29	132.54	130.87	130.39	130.60	130.28	130.51	
25	130.61	130.89	132.21	131.03	131.29	131.92	132.53	130.79	130.35	130.55	130.28	130.50	
26	130.60	130.86	131.80	130.95	131.93	131.98	132.54	130.66	130.33	130.51	130.41	130.46	
27	130.63	130.87	131.63	131.12	132.06	133.54	132.48	130.68	130.37	130.51	130.33	130.41	
28	130.93	130.85	131.43	131.05	131.68	135.54	132.34	130.74	130.44	130.47	130.27	130.37	
29	130.85	131.16	131.35	130.94	131.48	136.02	132.05	130.75	130.43	130.43		130.35	
30	130.95	131.40	131.34	130.88	131.38	135.19	131.87	130.71	130.43	130.40		130.33	
31		131.63		130.85	131.22		131.70		130.43	130.40		130.30	
Mean	130.78	131.04	131.57	131.42	131.28	132.17	133.24	131.16	130.56	130.61	130.32	130.32	
Max	131.10	132.18	132.87	132.33	132.06	136.02	136.80	132.21	131.02	130.82	130.42	130.51	136.80
Min	130.53	130.72	130.88	130.85	130.68	131.05	131.70	130.66	130.33	130.40	130.25	130.20	130.20
Annual Max Momentary Gage Height	136.85		m. (MSL.) ,				at 18.00 Hours , on Oct 4 , 2009						
Zero Gage at Bottom Elevation	130.00		m. (MSL.) ,			River Bed	128.68	m. (MSL)					
Left Bank Elevation		136.89		m. (MSL.) ,									
Right Bank Elevation		136.71		m. (MSL.) ,		Drainage Area	10439	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.50	18.60	44.80	30.80	16.80	26.00	209.60	69.55	10.20	12.30	5.40	3.60	
2	13.50	15.90	42.80	28.00	14.40	26.00	184.00	67.90	9.75	11.40	4.95	3.30	
3	12.90	11.85	36.40	26.80	10.65	24.00	418.00	46.80	9.75	11.10	4.80	3.00	
4	11.55	12.60	32.00	36.00	10.20	26.00	488.00	42.00	9.75	9.45	4.05	4.05	
5	8.40	12.60	29.60	44.00	16.50	30.00	465.20	39.20	9.75	8.25	4.50	5.25	
6	7.95	11.55	30.00	41.60	17.40	27.20	359.70	39.20	10.05	7.35	4.20	4.80	
7	10.20	12.30	28.40	38.00	17.40	23.40	259.45	38.80	18.60	6.75	3.75	4.50	
8	9.60	13.20	26.40	45.60	16.80	25.60	200.25	35.20	17.70	6.60	4.05	4.20	
9	8.85	11.70	23.10	70.10	21.00	28.80	165.60	33.60	13.50	7.05	4.50	3.75	
10	10.05	11.25	21.60	76.15	30.40	32.00	137.50	29.20	10.35	7.95	5.10	3.45	
11	10.65	11.25	21.00	69.55	32.80	38.00	108.90	26.80	9.45	11.10	6.30	3.15	
12	11.10	10.95	22.20	52.00	30.80	32.40	96.87	25.60	9.45	12.60	5.40	3.90	
13	12.30	10.80	19.50	40.40	26.40	28.40	85.00	22.80	8.85	10.80	5.40	4.65	
14	15.60	11.55	17.40	36.00	24.80	28.00	83.75	21.00	7.95	10.20	5.10	4.95	
15	19.20	11.70	14.40	36.00	28.00	22.80	96.25	19.50	7.80	10.50	4.95	4.95	
16	21.00	21.60	15.90	36.80	28.00	19.50	95.62	18.00	7.50	10.95	5.55	5.25	
17	19.50	67.90	17.40	38.00	30.00	19.80	87.50	16.20	7.50	9.90	5.10	4.65	
18	16.20	44.00	32.00	33.60	29.60	28.40	84.38	13.50	7.35	10.05	4.65	4.05	
19	14.70	39.60	62.40	28.00	28.40	56.00	86.87	16.20	7.20	10.95	4.05	3.75	
20	13.50	33.20	88.13	26.80	35.60	192.00	83.13	14.70	7.05	9.75	3.75	3.75	
21	12.00	34.40	109.55	29.20	42.40	196.85	76.70	13.20	7.05	10.35	4.65	3.90	
22	11.70	24.00	105.65	24.80	34.80	127.00	92.50	12.60	7.05	9.90	5.25	5.25	
23	9.15	18.60	81.87	22.20	28.00	95.00	100.00	12.00	7.20	9.45	4.95	7.50	
24	9.30	16.50	68.45	21.00	22.50	73.95	88.75	14.10	5.85	9.00	4.20	7.65	
25	9.15	14.70	69.55	18.90	27.60	54.00	88.13	11.85	5.25	8.25	4.20	7.50	
26	9.00	13.80	48.00	16.50	54.50	57.00	88.75	9.90	4.95	7.65	6.15	6.90	
27	9.45	14.10	41.20	21.60	61.30	159.20	85.00	10.20	5.55	7.65	4.95	6.15	
28	15.90	13.50	33.20	19.50	43.20	345.40	76.70	11.10	6.60	7.05	4.05	5.55	
29	13.50	22.80	30.00	16.20	35.20	398.20	60.75	11.25	6.45	6.45		5.25	
30	16.50	32.00	29.60	14.40	31.20	307.95	51.50	10.65	6.45	6.00		4.95	
31		41.20		13.50	24.80		44.00		6.45	6.00		4.50	
Total	375.90	639.70	1242.50	1052.00	871.45	2548.85	4648.35	752.60	268.35	282.75	133.95	148.05	12964.45 CMSDAY
Mean	12.53	20.64	41.42	33.94	28.11	84.96	149.95	25.09	8.66	9.12	4.78	4.78	35.52 CMS
Max	21.00	67.90	109.55	76.15	61.30	398.20	488.00	69.55	18.60	12.60	6.30	7.65	488.00 CMS
Min	7.95	10.80	14.40	13.50	10.20	19.50	44.00	9.90	4.95	6.00	3.75	3.00	3.00 CMS
Runoff	32.48	55.27	107.35	90.89	75.29	220.22	401.62	65.03	23.19	24.43	11.57	12.79	1120.13 MCM
Momentary Peak	494.00 CMS. at 136.85 m. (MSL.) at 18.00 Hours , on Oct 4 , 2009												
Runoff Yield	3.40 Liters/Second/Square KM.			Momentary Peak Yield			47.323 Liters/Second/Square KM.						

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Don Mun , Lampang (W.10A)

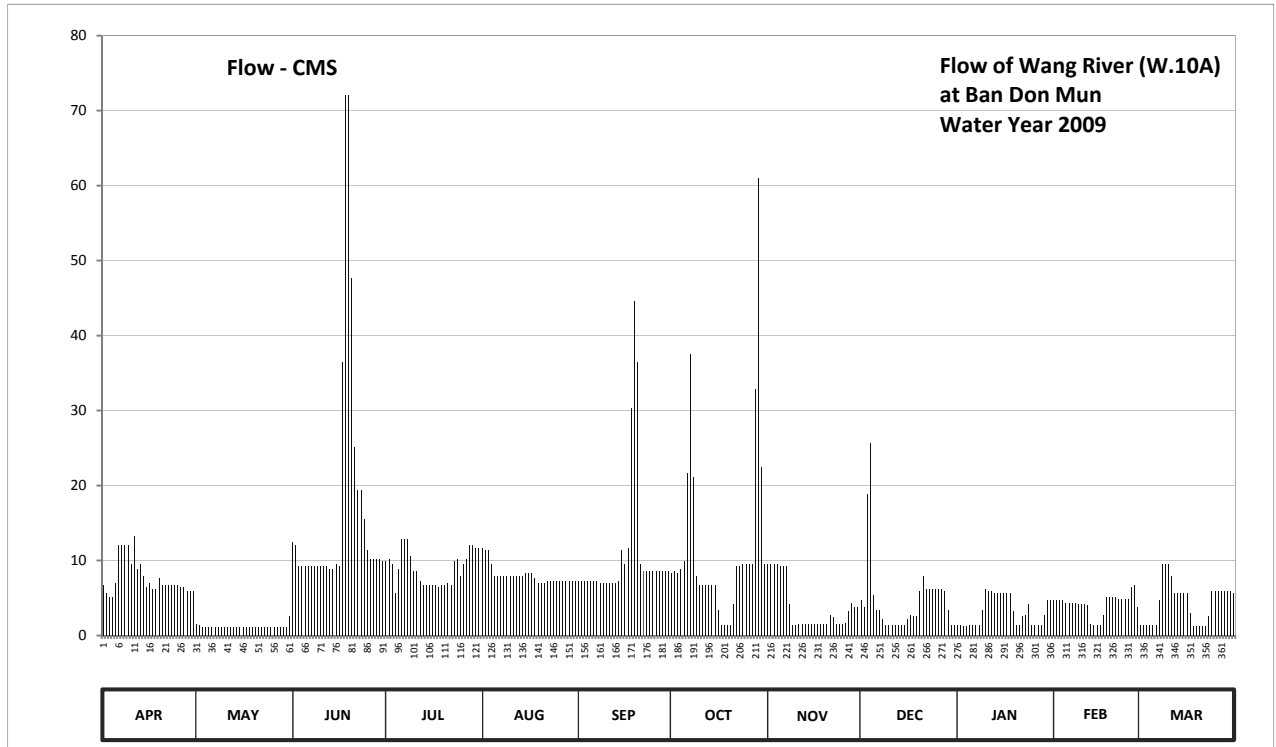
Lat 18 - 31 - 16 N Long 99 - 37 - 52 E

Location : on left bank at Ban Don Mun

	Ban	Don Mun	Amphoe	Mueang	Changwat	Lampang
Drainage Area	2,798	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+259.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the bridge.				Elevation	+270.290 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good.Stage-discharge relation defined by 33 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.29	259.04	259.46	259.39	259.44	259.31	259.34	259.38	259.21	259.03	259.21	259.03	
2	259.25	259.03	259.45	259.40	259.43	259.31	259.35	259.38	259.17	259.03	259.21	259.03	
3	259.23	259.01	259.37	259.38	259.43	259.31	259.34	259.38	259.62	259.02	259.21	259.03	
4	259.23	259.01	259.37	259.25	259.38	259.31	259.36	259.38	259.76	259.02	259.21	259.03	
5	259.30	259.01	259.37	259.36	259.33	259.31	259.39	259.37	259.24	259.03	259.20	259.03	
6	259.45	259.01	259.37	259.47	259.33	259.31	259.68	259.37	259.15	259.03	259.20	259.03	
7	259.45	259.01	259.37	259.47	259.33	259.31	259.99	259.37	259.15	259.03	259.20	259.21	
8	259.45	259.01	259.37	259.47	259.33	259.30	259.67	259.19	259.08	259.03	259.20	259.38	
9	259.45	259.01	259.37	259.41	259.33	259.30	259.33	259.03	259.03	259.15	259.19	259.38	
10	259.38	259.01	259.37	259.35	259.33	259.30	259.29	259.03	259.03	259.27	259.19	259.38	
11	259.48	259.01	259.37	259.35	259.33	259.30	259.29	259.04	259.03	259.26	259.19	259.33	
12	259.36	259.01	259.37	259.31	259.33	259.30	259.29	259.04	259.03	259.26	259.18	259.25	
13	259.38	259.01	259.36	259.29	259.33	259.30	259.29	259.04	259.03	259.25	259.04	259.25	
14	259.33	259.01	259.36	259.29	259.33	259.31	259.29	259.04	259.03	259.25	259.03	259.25	
15	259.28	259.01	259.38	259.29	259.34	259.43	259.29	259.04	259.03	259.25	259.03	259.25	
16	259.30	259.01	259.37	259.29	259.34	259.38	259.15	259.04	259.08	259.25	259.03	259.25	
17	259.27	259.01	259.97	259.29	259.34	259.44	259.03	259.04	259.12	259.25	259.12	259.13	
18	259.27	259.01	260.53	259.28	259.32	259.85	259.03	259.04	259.11	259.25	259.23	259.02	
19	259.32	259.01	260.53	259.29	259.30	260.11	259.03	259.04	259.11	259.14	259.23	259.02	
20	259.29	259.01	260.16	259.29	259.30	259.97	259.03	259.04	259.26	259.03	259.23	259.02	
21	259.29	259.01	259.75	259.30	259.30	259.38	259.19	259.12	259.33	259.03	259.23	259.02	
22	259.29	259.01	259.63	259.29	259.31	259.35	259.37	259.10	259.27	259.11	259.22	259.02	
23	259.29	259.01	259.63	259.39	259.31	259.35	259.37	259.04	259.27	259.12	259.22	259.11	
24	259.29	259.01	259.54	259.40	259.31	259.35	259.38	259.04	259.27	259.19	259.22	259.26	
25	259.29	259.01	259.43	259.33	259.31	259.35	259.38	259.04	259.27	259.03	259.22	259.26	
26	259.28	259.01	259.40	259.38	259.31	259.35	259.38	259.05	259.27	259.03	259.28	259.26	
27	259.28	259.01	259.40	259.40	259.31	259.35	259.38	259.14	259.27	259.03	259.29	259.26	
28	259.26	259.01	259.40	259.45	259.31	259.35	259.90	259.20	259.26	259.03	259.17	259.26	
29	259.26	259.01	259.40	259.45	259.31	259.35	260.37	259.17	259.15	259.12		259.26	
30	259.26	259.01	259.39	259.44	259.31	259.35	259.70	259.17	259.03	259.21		259.26	
31		259.11	259.44	259.31	259.31	259.38	259.38		259.03	259.21		259.25	
Mean	259.32	259.01	259.54	259.36	259.33	259.40	259.40	259.15	259.18	259.13	259.19	259.18	
Max	259.48	259.11	260.53	259.47	259.44	260.11	260.37	259.38	259.76	259.27	259.29	259.38	260.53
Min	259.23	259.01	259.36	259.25	259.30	259.30	259.03	259.03	259.03	259.02	259.03	259.02	259.01
Annual Max Momentary Gage Height		260.53	m. (MSL.) ,				at 18.00 Hours , on Jun 17 , 2009						
Zero Gage at Bottom Elevation		259.00	m. (MSL.) ,			River Bed	257.73	m. (MSL)					
Left Bank Elevation		270.02	m. (MSL.) ,										
Right Bank Elevation		269.87	m. (MSL.) ,			Drainage Area	2798	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.74	1.56	12.48	9.88	11.72	7.32	8.28	9.56	4.66	1.42	4.66	1.42	
2	5.70	1.42	12.10	10.20	11.34	7.32	8.60	9.56	3.80	1.42	4.66	1.42	
3	5.18	1.14	9.24	9.56	11.34	7.32	8.28	9.56	18.90	1.28	4.66	1.42	
4	5.18	1.14	9.24	5.70	9.56	7.32	8.92	9.56	25.60	1.28	4.66	1.42	
5	7.00	1.14	9.24	8.92	7.96	7.32	9.88	9.24	5.44	1.42	4.40	1.42	
6	12.10	1.14	9.24	12.86	7.96	7.32	21.60	9.24	3.40	1.42	4.40	1.42	
7	12.10	1.14	9.24	12.86	7.96	7.32	37.48	9.24	3.40	1.42	4.40	1.42	
8	12.10	1.14	9.24	12.86	7.96	7.00	21.15	4.20	2.12	1.42	4.40	9.56	
9	12.10	1.14	9.24	10.58	7.96	7.00	7.96	1.42	1.42	3.40	4.20	9.56	
10	9.56	1.14	9.24	8.60	7.96	7.00	6.74	1.42	1.42	6.22	4.20	9.56	
11	13.24	1.14	9.24	8.60	7.96	7.00	6.74	1.56	1.42	5.96	4.20	7.96	
12	8.92	1.14	9.24	7.32	7.96	7.00	6.74	1.56	1.42	5.96	4.00	5.70	
13	9.56	1.14	8.92	6.74	7.96	7.00	6.74	1.56	1.42	5.70	1.56	5.70	
14	7.96	1.14	8.92	6.74	7.96	7.32	6.74	1.56	1.42	5.70	1.42	5.70	
15	6.48	1.14	9.56	6.74	8.28	11.34	6.74	1.56	1.42	5.70	1.42	5.70	
16	7.00	1.14	9.24	6.74	8.28	9.56	3.40	1.56	2.12	5.70	1.42	5.70	
17	6.22	1.14	36.45	6.74	8.28	11.72	1.42	1.56	2.80	5.70	2.80	3.00	
18	6.22	1.14	72.10	6.48	7.64	30.25	1.42	1.56	2.60	5.70	5.18	1.28	
19	7.64	1.14	72.10	6.74	7.00	44.60	1.42	1.56	2.60	3.20	5.18	1.28	
20	6.74	1.14	47.60	6.74	7.00	36.45	1.42	1.56	5.96	1.42	5.18	1.28	
21	6.74	1.14	25.08	7.00	7.00	9.56	4.20	2.80	7.96	1.42	5.18	1.28	
22	6.74	1.14	19.35	6.74	7.32	8.60	9.24	2.40	6.22	2.60	4.92	1.28	
23	6.74	1.14	19.35	9.88	7.32	8.60	9.24	1.56	6.22	2.80	4.92	2.60	
24	6.74	1.14	15.60	10.20	7.32	8.60	9.56	1.56	6.22	4.20	4.92	5.96	
25	6.74	1.14	11.34	7.96	7.32	8.60	9.56	1.56	6.22	1.42	4.92	5.96	
26	6.48	1.14	10.20	9.56	7.32	8.60	9.56	1.70	6.22	1.42	6.48	5.96	
27	6.48	1.14	10.20	10.20	7.32	8.60	9.56	3.20	6.22	1.42	6.74	5.96	
28	5.96	1.14	10.20	12.10	7.32	8.60	32.83	4.40	5.96	1.42	3.80	5.96	
29	5.96	1.14	10.20	12.10	7.32	8.60	61.05	3.80	3.40	2.80		5.96	
30	5.96	1.14	9.88	11.72	7.32	8.60	22.50	3.80	1.42	4.66		5.96	
31	2.60		11.72	7.32		9.56			1.42	4.66		5.70	
Total	232.28	37.50	523.27	280.78	250.24	331.44	368.53	115.38	150.82	100.26	118.88	137.74	2647.12 CMSDAY
Mean	7.74	1.21	17.44	9.06	8.07	11.05	11.89	3.85	4.87	3.23	4.25	4.44	7.25 CMS
Max	13.24	2.60	72.10	12.86	11.72	44.60	61.05	9.56	25.60	6.22	6.74	9.56	72.10 CMS
Min	5.18	1.14	8.92	5.70	7.00	7.00	1.42	1.42	1.42	1.28	1.42	1.28	1.14 CMS
Runoff	20.07	3.24	45.21	24.26	21.62	28.64	31.84	9.97	13.03	8.66	10.27	11.90	228.71 MCM
Momentary Peak	72.10 CMS. at 260.53 m. (MSL.) at 18.00 Hours , on Jun 17 , 2009												
Runoff Yield	2.59 Liters/Second/Square KM.			Momentary Peak Yield				25.768 Liters/Second/Square KM.					

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Hai , Lampang (W.16A)

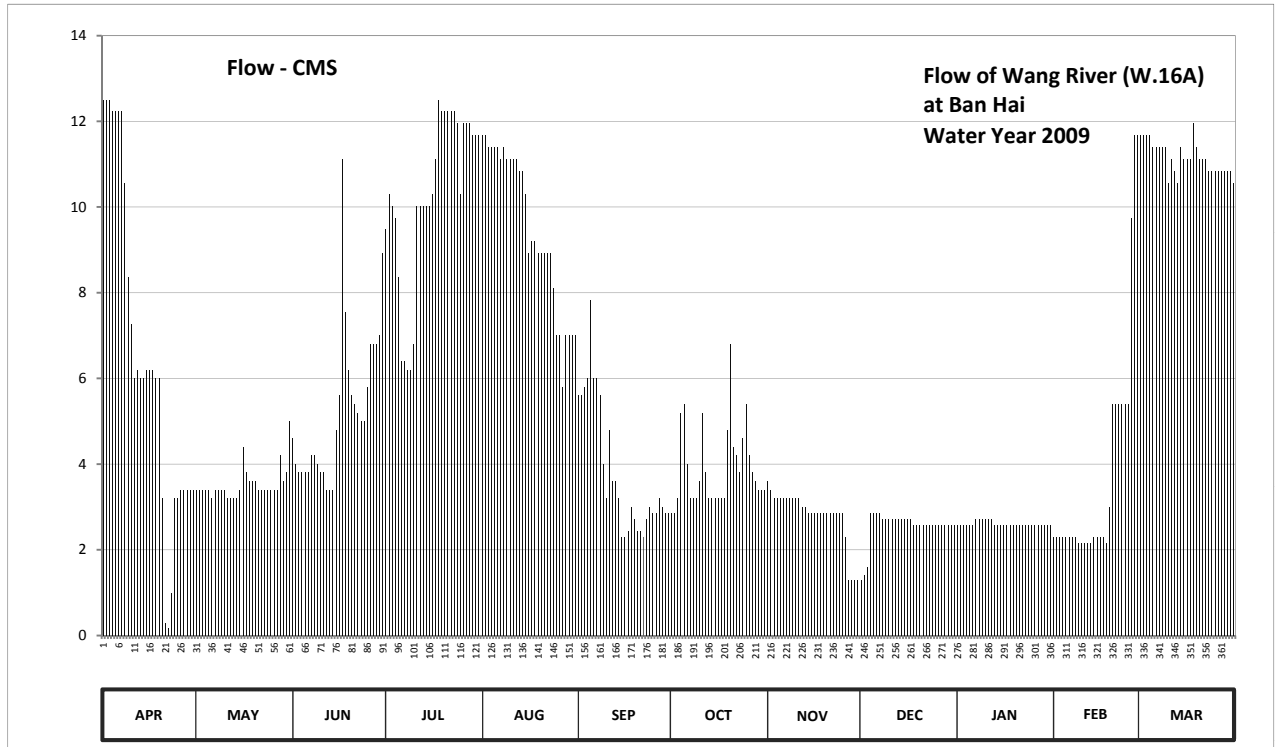
Lat 18 - 46 - 45 N Long 99 - 37 - 52 E

Location : on left bank at Ban Hai

	Ban Hai	Amphoe Chae Hom	Changwat Lampang
Drainage Area	1,392 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+304.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10.00 meters from the top staff gage.	Elevation	+310.113 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1995 to date		
Rating Operation			
Period of Rating	1995 to date		
Rated by Flot	-		
Rated by Current Meter	1995 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.The pumping station is located about 150 meters upstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	305.40	305.02	305.08	305.29	305.37	305.13	304.99	305.03	304.87	304.97	304.95	305.37	
2	305.40	305.02	305.05	305.32	305.37	305.13	304.99	305.02	304.88	304.97	304.95	305.37	
3	305.40	305.02	305.04	305.31	305.36	305.14	305.01	305.01	304.90	304.97	304.95	305.37	
4	305.39	305.02	305.04	305.30	305.36	305.15	305.11	305.01	304.99	304.97	304.95	305.37	
5	305.39	305.02	305.04	305.25	305.36	305.23	305.12	305.01	304.99	304.97	304.95	305.36	
6	305.39	305.01	305.04	305.17	305.36	305.15	305.05	305.01	304.99	304.97	304.95	305.36	
7	305.39	305.02	305.06	305.17	305.35	305.15	305.01	305.01	304.99	304.98	304.95	305.36	
8	305.33	305.02	305.06	305.16	305.36	305.13	305.01	305.01	304.98	304.98	304.95	305.36	
9	305.25	305.02	305.05	305.16	305.35	305.05	305.01	305.01	304.98	304.98	304.94	305.36	
10	305.21	305.02	305.04	305.19	305.35	305.01	305.03	305.01	304.98	304.98	304.94	305.33	
11	305.15	305.01	305.04	305.31	305.35	305.09	305.11	305.01	304.98	304.98	304.94	305.35	
12	305.16	305.01	305.02	305.31	305.35	305.03	305.04	305.00	304.98	304.98	304.94	305.34	
13	305.15	305.01	305.02	305.31	305.34	305.03	305.01	305.00	304.98	304.97	304.94	305.33	
14	305.15	305.01	305.02	305.31	305.34	305.01	305.01	304.99	304.98	304.97	304.95	305.36	
15	305.16	305.02	305.09	305.31	305.32	304.95	305.01	304.99	304.98	304.97	304.95	305.35	
16	305.16	305.07	305.13	305.32	305.27	304.95	305.01	304.99	304.98	304.97	304.95	305.35	
17	305.16	305.04	305.35	305.35	305.28	304.96	305.01	304.99	304.98	304.97	304.95	305.35	
18	305.15	305.03	305.22	305.40	305.28	305.00	305.01	304.99	304.97	304.97	304.94	305.38	
19	305.15	305.03	305.16	305.39	305.27	304.98	305.09	304.99	304.97	304.97	305.00	305.36	
20	305.01	305.03	305.13	305.39	305.27	304.96	305.19	304.99	304.97	304.97	305.12	305.35	
21	304.72	305.02	305.12	305.39	305.27	304.96	305.07	304.99	304.97	304.97	305.12	305.35	
22	304.69	305.02	305.11	305.39	305.27	304.95	305.06	304.99	304.97	304.97	305.12	305.35	
23	304.84	305.02	305.10	305.39	305.27	304.98	305.04	304.99	304.97	304.97	305.12	305.34	
24	305.01	305.02	305.10	305.38	305.24	305.00	305.08	304.99	304.97	304.97	305.12	305.34	
25	305.01	305.02	305.14	305.32	305.20	304.99	305.12	304.99	304.97	304.97	305.12	305.34	
26	305.02	305.02	305.19	305.38	305.20	304.99	305.06	304.95	304.97	304.97	305.30	305.34	
27	305.02	305.02	305.19	305.38	305.14	305.01	305.04	304.87	304.97	304.97	305.37	305.34	
28	305.02	305.06	305.19	305.38	305.20	305.00	305.03	304.87	304.97	304.97	305.37	305.34	
29	305.02	305.03	305.20	305.37	305.20	304.99	305.02	304.87	304.97	304.97		305.34	
30	305.02	305.04	305.27	305.37	305.20	304.99	305.02	304.87	304.97	304.97		305.34	
31		305.10		305.37	305.20		305.02		304.97	304.97		305.33	
Mean	305.14	305.03	305.11	305.32	305.29	305.04	305.04	304.98	304.97	304.97	305.03	305.35	
Max	305.40	305.10	305.35	305.40	305.37	305.23	305.19	305.03	304.99	304.98	305.37	305.38	305.40
Min	304.69	305.01	305.02	305.16	305.14	304.95	304.99	304.87	304.87	304.97	304.94	305.33	304.69
Annual Max Momentary Gage Height		305.58		m. (MSL.) ,			at 22.00 Hours , on Mar 18 , 2009						
Zero Gage at Bottom Elevation		304.00		m. (MSL.) ,		River Bed	302.55		m. (MSL)				
Left Bank Elevation			310.18		m. (MSL.) ,								
Right Bank Elevation			310.10		m. (MSL.) ,	Drainage Area	1392		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.50	3.40	4.60	9.48	11.67	5.60	2.86	3.60	1.30	2.58	2.30	11.67	
2	12.50	3.40	4.00	10.30	11.67	5.60	2.86	3.40	1.40	2.58	2.30	11.67	
3	12.50	3.40	3.80	10.02	11.40	5.80	3.20	3.20	1.60	2.58	2.30	11.67	
4	12.23	3.40	3.80	9.75	11.40	6.00	5.20	3.20	2.86	2.58	2.30	11.67	
5	12.23	3.40	3.80	8.37	11.40	7.83	5.40	3.20	2.86	2.58	2.30	11.40	
6	12.23	3.20	3.80	6.40	11.40	6.00	4.00	3.20	2.86	2.58	2.30	11.40	
7	12.23	3.40	4.20	6.40	11.13	6.00	3.20	3.20	2.86	2.72	2.30	11.40	
8	10.57	3.40	4.20	6.20	11.40	5.60	3.20	3.20	2.72	2.72	2.30	11.40	
9	8.37	3.40	4.00	6.20	11.13	4.00	3.20	3.20	2.72	2.72	2.16	11.40	
10	7.27	3.40	3.80	6.80	11.13	3.20	3.60	3.20	2.72	2.72	2.16	10.57	
11	6.00	3.20	3.80	10.02	11.13	4.80	5.20	3.20	2.72	2.72	2.16	11.13	
12	6.20	3.20	3.40	10.02	11.13	3.60	3.80	3.00	2.72	2.72	2.16	10.85	
13	6.00	3.20	3.40	10.02	10.85	3.60	3.20	3.00	2.72	2.58	2.16	10.57	
14	6.00	3.20	3.40	10.02	10.85	3.20	3.20	2.86	2.72	2.58	2.30	11.40	
15	6.20	3.40	4.80	10.02	10.30	2.30	3.20	2.86	2.72	2.58	2.30	11.13	
16	6.20	4.40	5.60	10.30	8.92	2.30	3.20	2.86	2.72	2.58	2.30	11.13	
17	6.20	3.80	11.13	11.13	9.20	2.44	3.20	2.86	2.72	2.58	2.30	11.13	
18	6.00	3.60	7.55	12.50	9.20	3.00	3.20	2.86	2.58	2.58	2.16	11.95	
19	6.00	3.60	6.20	12.23	8.92	2.72	4.80	2.86	2.58	2.58	3.00	11.40	
20	3.20	3.60	5.60	12.23	8.92	2.44	6.80	2.86	2.58	2.58	5.40	11.13	
21	0.28	3.40	5.40	12.23	8.92	2.44	4.40	2.86	2.58	2.58	5.40	11.13	
22	0.18	3.40	5.20	12.23	8.92	2.30	4.20	2.86	2.58	2.58	5.40	11.13	
23	1.00	3.40	5.00	12.23	8.92	2.72	3.80	2.86	2.58	2.58	5.40	10.85	
24	3.20	3.40	5.00	11.95	8.10	3.00	4.60	2.86	2.58	2.58	5.40	10.85	
25	3.20	3.40	5.80	10.30	7.00	2.86	5.40	2.86	2.58	2.58	5.40	10.85	
26	3.40	3.40	6.80	11.95	7.00	2.86	4.20	2.30	2.58	2.58	9.75	10.85	
27	3.40	3.40	6.80	11.95	5.80	3.20	3.80	1.30	2.58	2.58	11.67	10.85	
28	3.40	4.20	6.80	11.95	7.00	3.00	3.60	1.30	2.58	2.58	11.67	10.85	
29	3.40	3.60	7.00	11.67	7.00	2.86	3.40	1.30	2.58	2.58		10.85	
30	3.40	3.80	8.92	11.67	7.00	2.86	3.40	1.30	2.58	2.58		10.85	
31	5.00			11.67	7.00		3.40		2.58	2.58		10.57	
Total	195.49	109.40	157.60	318.21	295.81	114.13	120.72	83.62	79.06	80.82	109.05	345.70	2009.61 CMSDAY
Mean	6.52	3.53	5.25	10.26	9.54	3.80	3.89	2.79	2.55	2.61	3.89	11.15	5.51 CMS
Max	12.50	5.00	11.13	12.50	11.67	7.83	6.80	3.60	2.86	2.72	11.67	11.95	12.50 CMS
Min	0.18	3.20	3.40	6.20	5.80	2.30	2.86	1.30	1.30	2.58	2.16	10.57	0.18 CMS
Runoff	16.89	9.452	13.617	27.493	25.558	9.861	10.43	7.225	6.831	6.983	9.422	29.868	173.63 MCM
Momentary Peak	18.80 CMS. at 305.58 m. (MSL.) at 22.00 Hours , on Mar 18 , 2009												
Runoff Yield	3.96 Liters/Second/Square KM.			Momentary Peak Yield			13.506 Liters/Second/Square KM.						

WATER YEAR : 2009

WANG RIVER BASIN

Nam Mae Soi at Ban Nong Nao , Lampang (W.17)

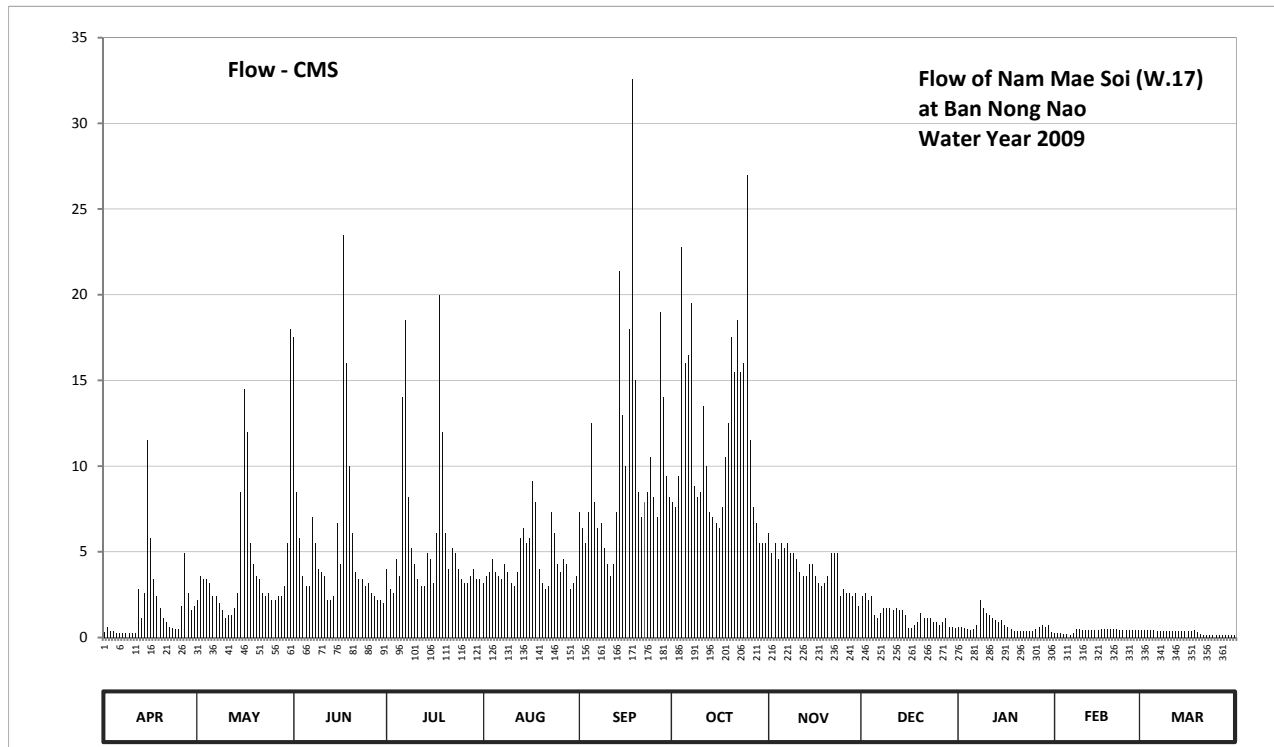
Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

Location : on right at the bridge of Lampang - Wang Nua Road

	Ban Nong Nao	Amphoe Chae Hom	Changwat Lampang
Drainage Area	726 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+292.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 21 meters from the top staff gage.	Elevation	+296.000 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.94	291.91	292.35	292.00	291.96	292.11	292.13	292.07	291.92	291.80	291.73	292.03	
2	292.23	291.98	292.15	291.94	291.98	292.08	292.12	292.03	291.93	291.80	291.73	292.01	
3	291.99	291.97	292.06	291.93	291.99	292.05	292.18	292.05	291.91	291.79	291.73	292.01	
4	291.95	291.97	291.98	292.02	292.02	292.11	292.44	292.02	291.92	291.78	291.72	292.01	
5	291.89	291.96	291.95	291.98	291.99	292.25	292.32	292.05	291.85	291.77	291.72	292.02	
6	291.86	291.92	291.95	292.28	291.98	292.13	292.33	292.04	291.84	291.78	291.71	292.00	
7	291.83	291.92	292.10	292.37	291.97	292.08	292.39	292.05	291.86	291.81	291.83	292.00	
8	291.83	291.90	292.05	292.14	292.01	292.09	292.16	292.03	291.88	291.91	292.08	291.99	
9	291.83	291.87	292.00	292.04	291.99	292.04	292.14	292.03	291.88	291.88	292.07	291.99	
10	291.83	291.84	291.99	292.01	291.96	292.01	292.15	292.02	291.88	291.86	292.04	292.00	
11	291.83	291.85	291.98	291.97	291.95	291.98	292.27	291.99	291.87	291.85	292.05	292.00	
12	291.94	291.85	291.91	291.95	291.99	292.01	292.20	291.98	291.88	291.84	292.04	291.99	
13	291.84	291.88	291.91	291.95	292.06	292.11	292.11	291.98	291.87	291.83	292.03	291.99	
14	291.93	291.93	291.92	292.03	292.08	292.42	292.10	292.01	291.87	291.82	292.05	291.99	
15	292.23	292.15	292.09	292.02	292.05	292.26	292.09	292.01	291.85	291.83	292.05	291.99	
16	292.06	292.29	292.01	291.96	292.06	292.20	292.08	291.98	291.79	291.81	292.07	291.99	
17	291.97	292.24	292.45	292.07	292.17	292.36	292.12	291.96	291.79	291.80	292.07	292.00	
18	291.92	292.05	292.32	292.40	292.13	292.58	292.21	291.95	291.81	291.78	292.06	292.01	
19	291.88	292.01	292.20	292.24	292.00	292.30	292.25	291.96	291.82	291.76	292.06	291.94	
20	291.84	291.98	292.07	292.07	291.96	292.15	292.35	291.98	291.86	291.76	292.06	291.78	
21	291.82	291.97	291.99	292.00	291.94	292.10	292.31	292.03	291.84	291.75	292.06	291.75	
22	291.80	291.93	291.97	292.04	291.95	292.13	292.37	292.03	291.84	291.76	292.04	291.73	
23	291.79	291.92	291.97	292.03	292.11	292.15	292.31	292.03	291.84	291.75	292.04	291.74	
24	291.78	291.93	291.95	292.00	292.07	292.21	292.32	291.92	291.82	291.75	292.03	291.73	
25	291.78	291.91	291.96	291.97	292.01	292.14	292.50	291.94	291.82	291.76	292.01	291.75	
26	291.89	291.91	291.93	291.96	291.99	292.10	292.23	291.93	291.81	291.78	292.01	291.72	
27	292.03	291.92	291.92	291.96	292.02	292.38	292.12	291.93	291.82	291.80	292.01	291.76	
28	291.93	291.92	291.91	291.98	292.01	292.28	292.09	291.92	291.84	291.81	292.03	291.75	
29	291.87	291.95	291.91	292.00	291.94	292.18	292.05	291.93	291.80	291.80		291.75	
30	291.89	292.05	291.90	291.97	291.96	292.14	292.05	291.89	291.80	291.81		291.77	
31		292.36		291.97	291.98		292.05		291.79	291.74		291.76	
Mean	291.91	291.98	292.03	292.04	292.01	292.17	292.21	291.99	291.85	291.80	291.97	291.90	
Max	292.23	292.36	292.45	292.40	292.17	292.58	292.50	292.07	291.93	291.91	292.08	292.03	292.58
Min	291.78	291.84	291.90	291.93	291.94	291.98	292.05	291.89	291.79	291.74	291.71	291.72	291.71
Annual Max Momentary Gage Height		292.68	m. (MSL.) ,				at 06.00 Hours , on Sep 18 , 2009						
Zero Gage at Bottom Elevation		292.00	m. (MSL.) ,			River Bed	291.32	m. (MSL)					
Left Bank Elevation			296.45	m. (MSL.) ,									
Right Bank Elevation			296.48	m. (MSL.) ,		Drainage Area	726	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	2.20	17.50	4.00	3.20	7.30	7.90	6.10	2.40	0.60	0.25	0.43	
2	0.63	3.60	8.50	2.80	3.60	6.40	7.60	4.90	2.60	0.60	0.25	0.41	
3	0.39	3.40	5.80	2.60	3.80	5.50	9.40	5.50	2.20	0.55	0.25	0.41	
4	0.35	3.40	3.60	4.60	4.60	7.30	22.80	4.60	2.40	0.50	0.20	0.41	
5	0.29	3.20	3.00	3.60	3.80	12.50	16.00	5.50	1.30	0.45	0.20	0.42	
6	0.26	2.40	3.00	14.00	3.60	7.90	16.50	5.20	1.16	0.50	0.15	0.40	
7	0.23	2.40	7.00	18.50	3.40	6.40	19.50	5.50	1.44	0.74	0.23	0.40	
8	0.23	2.00	5.50	8.20	4.30	6.70	8.80	4.90	1.72	2.20	0.48	0.39	
9	0.23	1.58	4.00	5.20	3.80	5.20	8.20	4.90	1.72	1.72	0.47	0.39	
10	0.23	1.16	3.80	4.30	3.20	4.30	8.50	4.60	1.72	1.44	0.44	0.40	
11	0.23	1.30	3.60	3.40	3.00	3.60	13.50	3.80	1.58	1.30	0.45	0.40	
12	2.80	1.30	2.20	3.00	3.80	4.30	10.00	3.60	1.72	1.16	0.44	0.39	
13	1.16	1.72	2.20	3.00	5.80	7.30	7.30	3.60	1.58	1.02	0.43	0.39	
14	2.60	2.60	2.40	4.90	6.40	21.40	7.00	4.30	1.58	0.88	0.45	0.39	
15	11.50	8.50	6.70	4.60	5.50	13.00	6.70	4.30	1.30	1.02	0.45	0.39	
16	5.80	14.50	4.30	3.20	5.80	10.00	6.40	3.60	0.55	0.74	0.47	0.39	
17	3.40	12.00	23.50	6.10	9.10	18.00	7.60	3.20	0.55	0.60	0.47	0.40	
18	2.40	5.50	16.00	20.00	7.90	32.60	10.50	3.00	0.74	0.50	0.46	0.41	
19	1.72	4.30	10.00	12.00	4.00	15.00	12.50	3.20	0.88	0.40	0.46	0.34	
20	1.16	3.60	6.10	6.10	3.20	8.50	17.50	3.60	1.44	0.40	0.46	0.18	
21	0.88	3.40	3.80	4.00	2.80	7.00	15.50	4.90	1.16	0.35	0.46	0.15	
22	0.60	2.60	3.40	5.20	3.00	7.90	18.50	4.90	1.16	0.40	0.44	0.13	
23	0.55	2.40	3.40	4.90	7.30	8.50	15.50	4.90	1.16	0.35	0.44	0.14	
24	0.50	2.60	3.00	4.00	6.10	10.50	16.00	2.40	0.88	0.35	0.43	0.13	
25	0.50	2.20	3.20	3.40	4.30	8.20	27.00	2.80	0.88	0.40	0.41	0.15	
26	1.86	2.20	2.60	3.20	3.80	7.00	11.50	2.60	0.74	0.50	0.41	0.12	
27	4.90	2.40	2.40	3.20	4.60	19.00	7.60	2.60	0.88	0.60	0.41	0.16	
28	2.60	2.40	2.20	3.60	4.30	14.00	6.70	2.40	1.16	0.74	0.43	0.15	
29	1.58	3.00	2.20	4.00	2.80	9.40	5.50	2.60	0.60	0.60		0.15	
30	1.86	5.50	2.00	3.40	3.20	8.20	5.50	1.86	0.60	0.74		0.17	
31		18.00		3.40	3.60		5.50		0.55	0.30		0.16	
Total	51.78	127.36	166.90	176.40	137.60	302.90	359.00	119.86	40.35	22.65	10.89	9.35	1525.04 CMSDAY
Mean	1.73	4.11	5.56	5.69	4.44	10.10	11.58	4.00	1.30	0.73	0.39	0.30	4.18 CMS
Max	11.50	18.00	23.50	20.00	9.10	32.60	27.00	6.10	2.60	2.20	0.48	0.43	32.60 CMS
Min	0.23	1.16	2.00	2.60	2.80	3.60	5.50	1.86	0.55	0.30	0.15	0.12	0.12 CMS
Runoff	4.47	11.00	14.42	15.24	11.89	26.17	31.02	10.36	3.49	1.96	0.94	0.81	131.76 MCM
Momentary Peak	40.00 CMS. at 292.68 m. (MSL.) at 06.00 Hours , on Sep 18 , 2009												
Runoff Yield	5.76 Liters/Second/Square KM.			Momentary Peak Yield			55,096 Liters/Second/Square KM.						

WATER YEAR : 2009

WANG RIVER BASIN

Nam Mae Tui at Ban Tha Lo , Lampang (W.20)

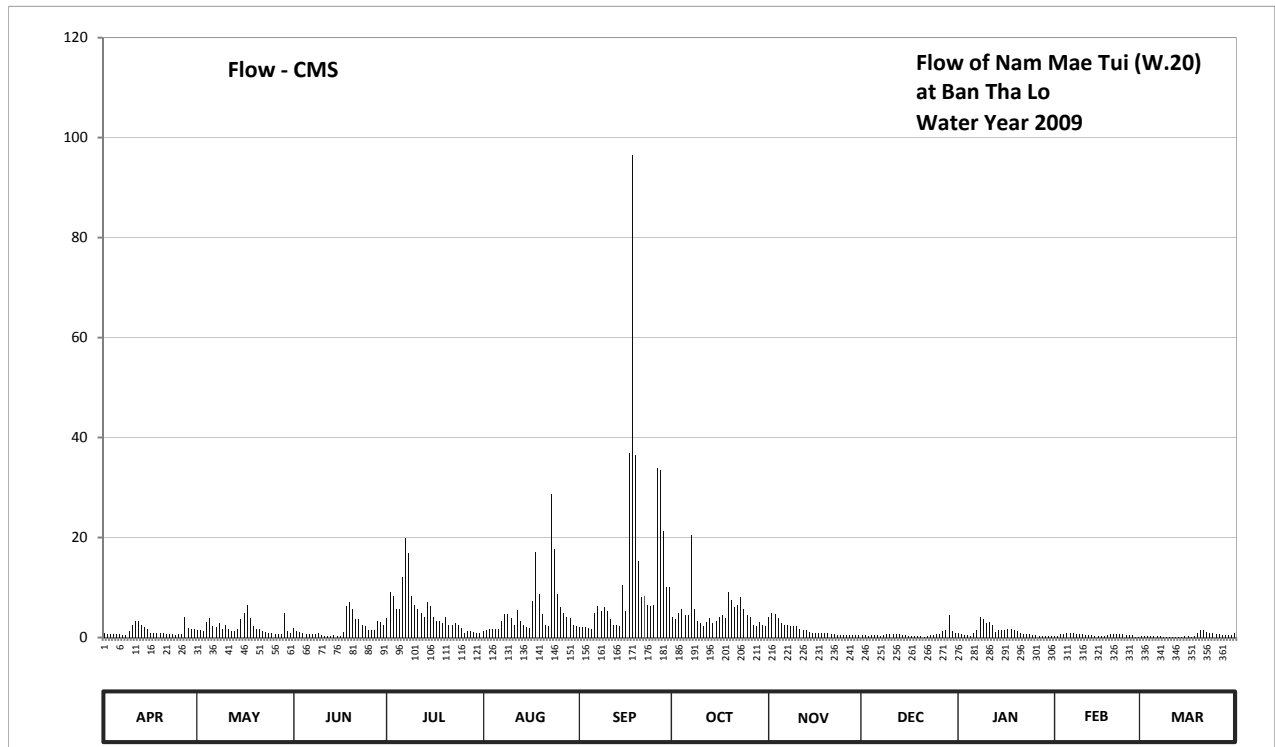
Lat 18 - 18 - 34 N Long 99 - 27 - 40 E

Location : on left bank at the bridge of Lampang - Hang Chat Highway.

	Ban	Tha Lo	Amphoe	Mueang	Changwat	Lampang
Drainage Area	941	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+230.420 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+237.644 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.					
Period of Available Gage Records	1993 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good.Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 40 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.67	230.75	230.79	230.89	230.72	230.80	230.91	230.90	230.57	230.67	230.51	230.44	
2	230.65	230.75	230.73	231.12	230.74	230.80	230.88	230.94	230.57	230.63	230.54	230.44	
3	230.64	230.73	230.71	231.09	230.78	230.80	230.94	230.93	230.53	230.62	230.63	230.44	
4	230.63	230.85	230.66	230.99	230.78	230.79	230.99	230.89	230.57	230.58	230.65	230.44	
5	230.63	230.89	230.64	230.99	230.77	230.78	230.92	230.84	230.57	230.56	230.67	230.44	
6	230.63	230.81	230.64	231.23	230.78	230.95	230.92	230.83	230.57	230.70	230.70	230.44	
7	230.62	230.80	230.65	231.48	230.86	231.01	231.50	230.82	230.56	230.75	230.66	230.44	
8	230.62	230.84	230.65	231.39	230.93	230.96	230.99	230.81	230.58	230.91	230.64	230.43	
9	230.73	230.78	230.66	231.09	230.93	231.00	230.87	230.81	230.64	230.88	230.63	230.43	
10	230.83	230.82	230.62	231.02	230.89	230.96	230.84	230.81	230.64	230.84	230.63	230.43	
11	230.87	230.77	230.55	230.99	230.83	230.88	230.81	230.77	230.64	230.85	230.62	230.43	
12	230.87	230.73	230.55	230.94	230.97	230.83	230.85	230.75	230.64	230.83	230.62	230.43	
13	230.82	230.72	230.56	230.91	230.87	230.82	230.89	230.74	230.63	230.71	230.57	230.43	
14	230.80	230.77	230.57	231.04	230.82	230.81	230.84	230.71	230.62	230.75	230.54	230.43	
15	230.78	230.88	230.56	231.01	230.80	231.17	230.86	230.70	230.58	230.74	230.52	230.45	
16	230.70	230.95	230.55	230.91	230.79	230.96	230.91	230.69	230.52	230.75	230.52	230.45	
17	230.67	231.02	230.71	230.87	231.05	231.90	230.92	230.68	230.49	230.77	230.55	230.40	
18	230.66	230.89	231.01	230.86	231.40	232.95	230.89	230.69	230.45	230.77	230.60	230.44	
19	230.67	230.81	231.04	230.84	231.10	231.89	231.12	230.68	230.44	230.74	230.63	230.67	
20	230.66	230.78	230.99	230.90	230.93	231.34	231.06	230.67	230.44	230.72	230.65	230.74	
21	230.65	230.77	230.88	230.83	230.83	231.08	231.00	230.65	230.43	230.67	230.64	230.75	
22	230.64	230.72	230.88	230.82	230.81	231.09	231.02	230.64	230.54	230.64	230.63	230.71	
23	230.63	230.71	230.83	230.84	231.71	231.02	231.08	230.62	230.60	230.64	230.63	230.67	
24	230.62	230.70	230.81	230.83	231.42	231.01	230.99	230.62	230.58	230.65	230.62	230.66	
25	230.63	230.67	230.75	230.79	231.10	231.02	230.92	230.61	230.63	230.61	230.61	230.65	
26	230.63	230.64	230.74	230.69	231.00	231.83	230.91	230.61	230.65	230.59	230.60	230.63	
27	230.90	230.63	230.75	230.73	230.94	231.82	230.83	230.60	230.73	230.55	230.41	230.62	
28	230.79	230.65	230.86	230.72	230.90	231.52	230.81	230.59	230.75	230.53	230.35	230.61	
29	230.77	230.95	230.85	230.71	230.89	231.16	230.85	230.59	230.92	230.51		230.61	
30	230.76	230.73	230.83	230.70	230.83	231.16	230.83	230.58	230.73	230.50		230.59	
31		230.70		230.70	230.81		230.81		230.67	230.50		230.67	
Mean	230.71	230.78	230.73	230.93	230.93	231.17	230.93	230.73	230.60	230.68	230.59	230.53	
Max	230.90	231.02	231.04	231.48	231.71	232.95	231.50	230.94	230.92	230.91	230.70	230.75	232.95
Min	230.62	230.63	230.55	230.69	230.72	230.78	230.81	230.58	230.43	230.50	230.35	230.40	230.35
Annual Max Momentary Gage Height	233.63		m. (MSL.) ,			at 22.00 Hours , on Sep 17 , 2009							
Zero Gage at Bottom Elevation	230.42		m. (MSL.) ,			River Bed	230.14		m. (MSL)				
Left Bank Elevation		238.01		m. (MSL.) ,									
Right Bank Elevation		238.07		m. (MSL.) ,		Drainage Area	941		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.83	1.50	1.90	3.80	1.20	2.00	4.20	4.00	0.41	0.83	0.31	0.21	
2	0.72	1.50	1.30	9.12	1.40	2.00	3.60	4.80	0.41	0.62	0.36	0.21	
3	0.67	1.30	1.10	8.34	1.80	2.00	4.80	4.60	0.34	0.56	0.62	0.21	
4	0.62	3.00	0.78	5.80	1.80	1.90	5.80	3.80	0.41	0.42	0.72	0.21	
5	0.62	3.80	0.67	5.80	1.70	1.80	4.40	2.80	0.41	0.39	0.83	0.21	
6	0.62	2.20	0.67	12.08	1.80	5.00	4.40	2.60	0.41	1.00	1.00	0.21	
7	0.56	2.00	0.72	19.86	3.20	6.26	20.55	2.40	0.39	1.50	0.78	0.21	
8	0.56	2.80	0.72	16.81	4.60	5.20	5.80	2.20	0.42	4.20	0.67	0.19	
9	1.30	1.80	0.78	8.34	4.60	6.00	3.40	2.20	0.67	3.60	0.62	0.19	
10	2.60	2.40	0.56	6.52	3.80	5.20	2.80	2.20	0.67	2.80	0.62	0.19	
11	3.40	1.70	0.37	5.80	2.60	3.60	2.20	1.70	0.67	3.00	0.56	0.19	
12	3.40	1.30	0.37	4.80	5.40	2.60	3.00	1.50	0.67	2.60	0.56	0.19	
13	2.40	1.20	0.39	4.20	3.40	2.40	3.80	1.40	0.62	1.10	0.41	0.19	
14	2.00	1.70	0.41	7.04	2.40	2.20	2.80	1.10	0.56	1.50	0.36	0.19	
15	1.80	3.60	0.39	6.26	2.00	10.42	3.20	1.00	0.42	1.40	0.33	0.22	
16	1.00	5.00	0.37	4.20	1.90	5.20	4.20	0.95	0.33	1.50	0.33	0.22	
17	0.83	6.52	1.10	3.40	7.30	36.85	4.40	0.89	0.29	1.70	0.37	0.15	
18	0.78	3.80	6.26	3.20	17.10	96.55	3.80	0.95	0.22	1.70	0.45	0.21	
19	0.83	2.20	7.04	2.80	8.60	36.41	9.12	0.89	0.21	1.40	0.62	0.83	
20	0.78	1.80	5.80	4.00	4.60	15.33	7.56	0.83	0.21	1.20	0.72	1.40	
21	0.72	1.70	3.60	2.60	2.60	8.08	6.00	0.72	0.19	0.83	0.67	1.50	
22	0.67	1.20	3.60	2.40	2.20	8.34	6.52	0.67	0.36	0.67	0.62	1.10	
23	0.62	1.10	2.60	2.80	28.68	6.52	8.08	0.56	0.45	0.67	0.62	0.83	
24	0.56	1.00	2.20	2.60	17.79	6.26	5.80	0.56	0.42	0.72	0.56	0.78	
25	0.62	0.83	1.50	1.90	8.60	6.52	4.40	0.50	0.62	0.50	0.50	0.72	
26	0.62	0.67	1.40	0.95	6.00	33.80	4.20	0.50	0.72	0.43	0.45	0.62	
27	4.00	0.62	1.50	1.30	4.80	33.37	2.60	0.45	1.30	0.37	0.16	0.56	
28	1.90	0.72	3.20	1.20	4.00	21.24	2.20	0.43	1.50	0.34	0.08	0.50	
29	1.70	5.00	3.00	1.10	3.80	10.16	3.00	0.43	4.40	0.31		0.50	
30	1.60	1.30	2.60	1.00	2.60	10.16	2.60	0.42	1.30	0.30		0.43	
31		1.00		1.00	2.20		2.20		0.83	0.30		0.83	
Total	39.33	66.26	56.90	161.02	164.47	393.37	151.43	48.05	20.83	38.46	14.90	14.20	1169.22 CMSDAY
Mean	1.31	2.14	1.90	5.19	5.31	13.11	4.88	1.60	0.67	1.24	0.53	0.46	3.20 CMS
Max	4.00	6.52	7.04	19.86	28.68	96.55	20.55	4.80	4.40	4.20	1.00	1.50	96.55 CMS
Min	0.56	0.62	0.37	0.95	1.20	1.80	2.20	0.42	0.19	0.30	0.08	0.15	0.08 CMS
Runoff	3.40	5.73	4.92	13.91	14.21	33.99	13.08	4.15	1.80	3.32	1.29	1.23	101.02 MCM
Momentary Peak	146.25 CMS. at 233.63 m. (MSL.) at 22.00 Hours , on Sep 17 , 2009												
Runoff Yield	3.40 Liters/Second/Square KM.			Momentary Peak Yield			155.420 Liters/Second/Square KM.						

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Tha Dua , Lampang (W.21)

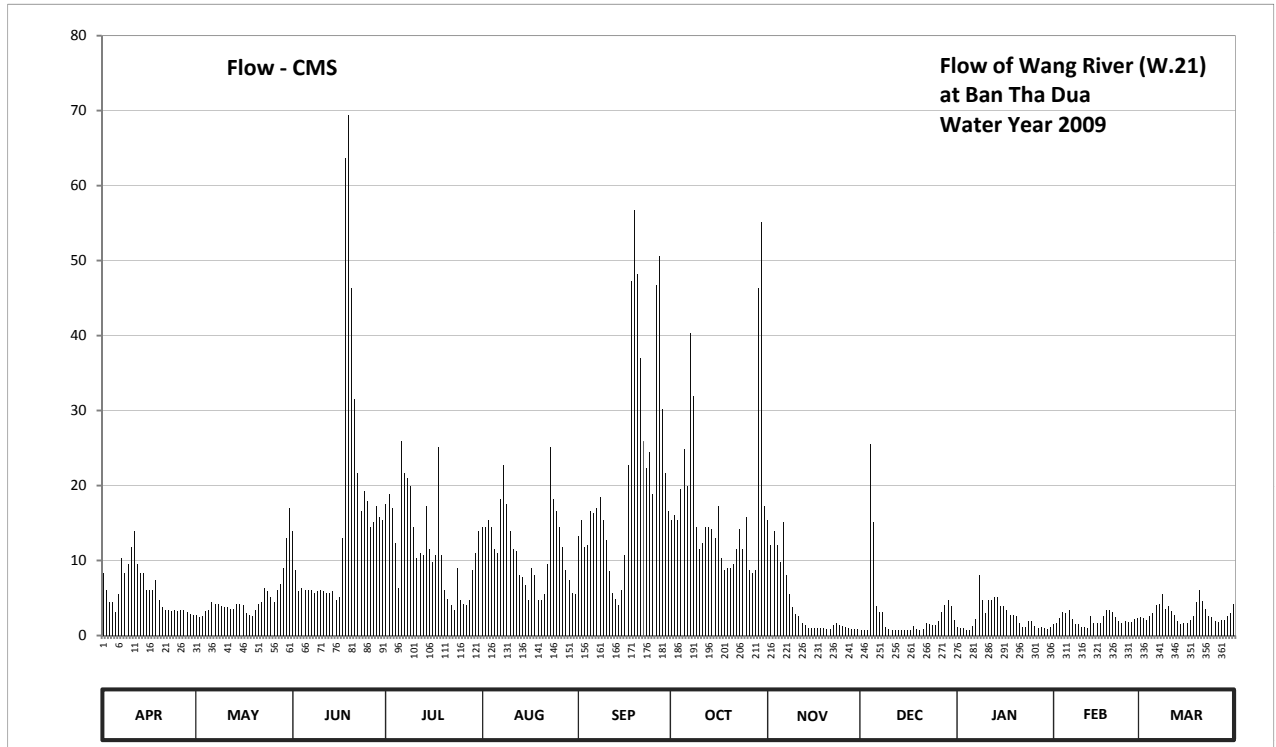
Lat 18 - 20 - 18 N Long 99 - 32 - 27 E

Location : on left bank at the bridge on highway.

	Ban	Tha Dua	Amphoe	Mueang	Changwat	Lampang
Drainage Area	3,367	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+232.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the top staff gage.				Elevation	+236.495 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good.Stage-discharge relation defined by 37 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	232.05	231.75	232.25	232.37	232.27	232.23	232.30	232.30	231.55	231.62	231.65	231.73	
2	231.95	231.73	232.07	232.41	232.27	232.30	232.32	232.19	231.55	231.60	231.67	231.72	
3	231.86	231.74	231.94	232.35	232.30	232.18	232.30	232.25	231.55	231.59	231.72	231.70	
4	231.86	231.79	231.96	232.20	232.27	232.19	232.43	232.19	232.60	231.55	231.78	231.74	
5	231.78	231.80	231.95	231.96	232.17	232.34	232.58	232.11	232.29	231.55	231.77	231.77	
6	231.92	231.86	231.95	232.61	232.15	232.33	232.44	232.29	231.83	231.63	231.80	231.84	
7	232.13	231.85	231.95	232.49	232.39	232.35	232.95	232.04	231.78	231.71	231.71	231.85	
8	232.05	231.85	231.93	232.47	232.52	232.40	232.75	231.92	231.78	232.04	231.65	231.92	
9	232.10	231.83	231.94	232.44	232.37	232.30	232.27	231.82	231.61	231.88	231.65	231.81	
10	232.18	231.82	231.95	232.27	232.25	232.21	232.17	231.76	231.58	231.77	231.62	231.83	
11	232.25	231.82	231.94	232.13	232.17	232.06	232.20	231.74	231.55	231.88	231.62	231.79	
12	232.10	231.81	231.93	232.15	232.16	231.93	232.27	231.66	231.55	231.88	231.60	231.75	
13	232.05	231.81	231.93	232.14	232.04	231.89	232.27	231.64	231.55	231.90	231.74	231.69	
14	232.05	231.85	231.94	232.36	232.03	231.84	232.26	231.60	231.55	231.90	231.67	231.65	
15	231.95	231.85	231.88	232.17	231.98	231.95	232.22	231.60	231.55	231.83	231.67	231.67	
16	231.95	231.84	231.90	232.11	231.88	232.14	232.36	231.60	231.56	231.83	231.67	231.66	
17	231.95	231.77	232.22	232.14	232.08	232.52	232.13	231.60	231.55	231.80	231.74	231.70	
18	232.01	231.75	233.42	232.59	232.04	233.10	232.07	231.59	231.63	231.75	231.80	231.74	
19	231.88	231.74	233.52	232.14	231.88	233.29	232.08	231.59	231.58	231.75	231.80	231.86	
20	231.82	231.80	233.08	231.95	231.88	233.12	232.08	231.58	231.56	231.74	231.78	231.95	
21	231.80	231.85	232.74	231.89	231.92	232.87	232.10	231.57	231.58	231.67	231.73	231.87	
22	231.80	231.86	232.49	231.84	232.10	232.61	232.17	231.64	231.66	231.61	231.69	231.81	
23	231.79	231.96	232.34	231.80	232.59	232.51	232.26	231.67	231.65	231.61	231.67	231.74	
24	231.80	231.94	232.42	232.08	232.39	232.57	232.17	231.64	231.64	231.69	231.69	231.73	
25	231.79	231.90	232.38	231.88	232.34	232.41	232.31	231.63	231.64	231.69	231.68	231.69	
26	231.80	231.86	232.27	231.85	232.27	233.09	232.07	231.62	231.69	231.63	231.68	231.68	
27	231.80	231.95	232.29	231.84	232.18	233.17	232.05	231.60	231.78	231.60	231.71	231.70	
28	231.78	231.99	232.36	231.88	232.07	232.71	232.07	231.58	231.84	231.61	231.72	231.70	
29	231.76	232.08	232.31	232.07	232.01	232.49	233.08	231.57	231.88	231.60		231.74	
30	231.75	232.22	232.30	232.15	231.93	232.34	233.26	231.57	231.83	231.57		231.77	
31		232.35		232.25	231.92		232.36		231.70	231.61		231.85	
Mean	231.93	231.87	232.25	232.16	232.16	232.45	232.33	231.77	231.70	231.71	231.70	231.76	
Max	232.25	232.35	233.52	232.61	232.59	233.29	233.26	232.30	232.60	232.04	231.80	231.95	233.52
Min	231.75	231.73	231.88	231.80	231.88	231.84	232.05	231.57	231.55	231.55	231.60	231.65	231.55
Annual Max Momentary Gage Height	233.70		m. (MSL.) ,			at 18.00 Hours , on Sep 26 , 2009							
Zero Gage at Bottom Elevation	232.00		m. (MSL.) ,			River Bed	230.98	m. (MSL)					
Left Bank Elevation	239.83		m. (MSL.) ,										
Right Bank Elevation	240.72		m. (MSL.) ,			Drainage Area	3367	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.30	2.70	13.93	17.59	14.54	13.31	15.45	15.45	0.70	1.20	1.50	2.42	
2	6.10	2.42	8.78	18.85	14.54	15.45	16.06	12.11	0.70	1.00	1.70	2.28	
3	4.42	2.56	5.90	16.98	15.45	11.82	15.45	13.93	0.70	0.94	2.28	2.00	
4	4.42	3.26	6.30	12.40	14.54	12.11	19.55	12.11	25.50	0.70	3.12	2.56	
5	3.12	3.40	6.10	6.30	11.53	16.67	24.80	9.79	15.14	0.70	2.98	2.98	
6	5.50	4.42	6.10	25.92	10.95	16.37	19.90	15.14	3.91	1.30	3.40	4.08	
7	10.37	4.25	6.10	21.65	18.20	16.98	40.37	8.06	3.12	2.14	2.14	4.25	
8	8.30	4.25	5.70	20.95	22.70	18.50	31.87	5.50	3.12	8.06	1.50	5.50	
9	9.50	3.91	5.90	19.90	17.59	15.45	14.54	3.74	1.10	4.76	1.50	3.57	
10	11.82	3.74	6.10	14.54	13.93	12.71	11.53	2.84	0.88	2.98	1.20	3.91	
11	13.93	3.74	5.90	10.37	11.53	8.54	12.40	2.56	0.70	4.76	1.20	3.26	
12	9.50	3.57	5.70	10.95	11.24	5.70	14.54	1.60	0.70	4.76	1.00	2.70	
13	8.30	3.57	5.70	10.66	8.06	4.93	14.54	1.40	0.70	5.10	2.56	1.90	
14	8.30	4.25	5.90	17.28	7.82	4.08	14.23	1.00	0.70	5.10	1.70	1.50	
15	6.10	4.25	4.76	11.53	6.70	6.10	13.01	1.00	0.70	3.91	1.70	1.70	
16	6.10	4.08	5.10	9.79	4.76	10.66	17.28	1.00	0.76	3.91	1.70	1.60	
17	6.10	2.98	13.01	10.66	9.02	22.70	10.37	1.00	0.70	3.40	2.56	2.00	
18	7.34	2.70	63.65	25.15	8.06	47.25	8.78	0.94	1.30	2.70	3.40	2.56	
19	4.76	2.56	69.40	10.66	4.76	56.72	9.02	0.94	0.88	2.70	3.40	4.42	
20	3.74	3.40	46.30	6.10	4.76	48.20	9.02	0.88	0.76	2.56	3.12	6.10	
21	3.40	4.25	31.45	4.93	5.50	36.97	9.50	0.82	0.88	1.70	2.42	4.59	
22	3.40	4.42	21.65	4.08	9.50	25.92	11.53	1.40	1.60	1.10	1.90	3.57	
23	3.26	6.30	16.67	3.40	25.15	22.35	14.23	1.70	1.50	1.10	1.70	2.56	
24	3.40	5.90	19.20	9.02	18.20	24.45	11.53	1.40	1.40	1.90	1.90	2.42	
25	3.26	5.10	17.89	4.76	16.67	18.85	15.76	1.30	1.40	1.90	1.80	1.90	
26	3.40	4.42	14.54	4.25	14.54	46.77	8.78	1.20	1.90	1.30	1.80	1.80	
27	3.40	6.10	15.14	4.08	11.82	50.58	8.30	1.00	3.12	1.00	2.14	2.00	
28	3.12	6.90	17.28	4.76	8.78	30.18	8.78	0.88	4.08	1.10	2.28	2.00	
29	2.84	9.02	15.76	8.78	7.34	21.65	46.30	0.82	4.76	1.00		2.56	
30	2.70	13.01	15.45	10.95	5.70	16.67	55.15	0.82	3.91	0.82		2.98	
31		16.98		13.93	5.50		17.28		2.00	1.10		4.25	
Total	178.20	152.41	481.36	371.17	359.38	658.64	539.85	122.33	89.32	76.70	59.60	91.92	3180.88 CMSDAY
Mean	5.94	4.92	16.05	11.97	11.59	21.95	17.41	4.08	2.88	2.47	2.13	2.97	8.71 CMS
Max	13.93	16.98	69.40	25.92	25.15	56.72	55.15	15.45	25.50	8.06	3.40	6.10	69.40 CMS
Min	2.70	2.42	4.76	3.40	4.76	4.08	8.30	0.82	0.70	0.70	1.00	1.50	0.70 CMS
Runoff	15.40	13.17	41.59	32.07	31.05	56.91	46.64	10.57	7.72	6.63	5.15	7.94	274.83 MCM
Momentary Peak	80.00 CMS. at 233.70 m. (MSL.) at 18.00 Hours , on Sep 26 , 2009												
Runoff Yield	2.59 Liters/Second/Square KM.			Momentary Peak Yield				23.760 Liters/Second/Square KM.					

WATER YEAR : 2009

WANG RIVER BASIN

Nam Mae Chang at Ban Wang Phrao , Lampang (W.22)

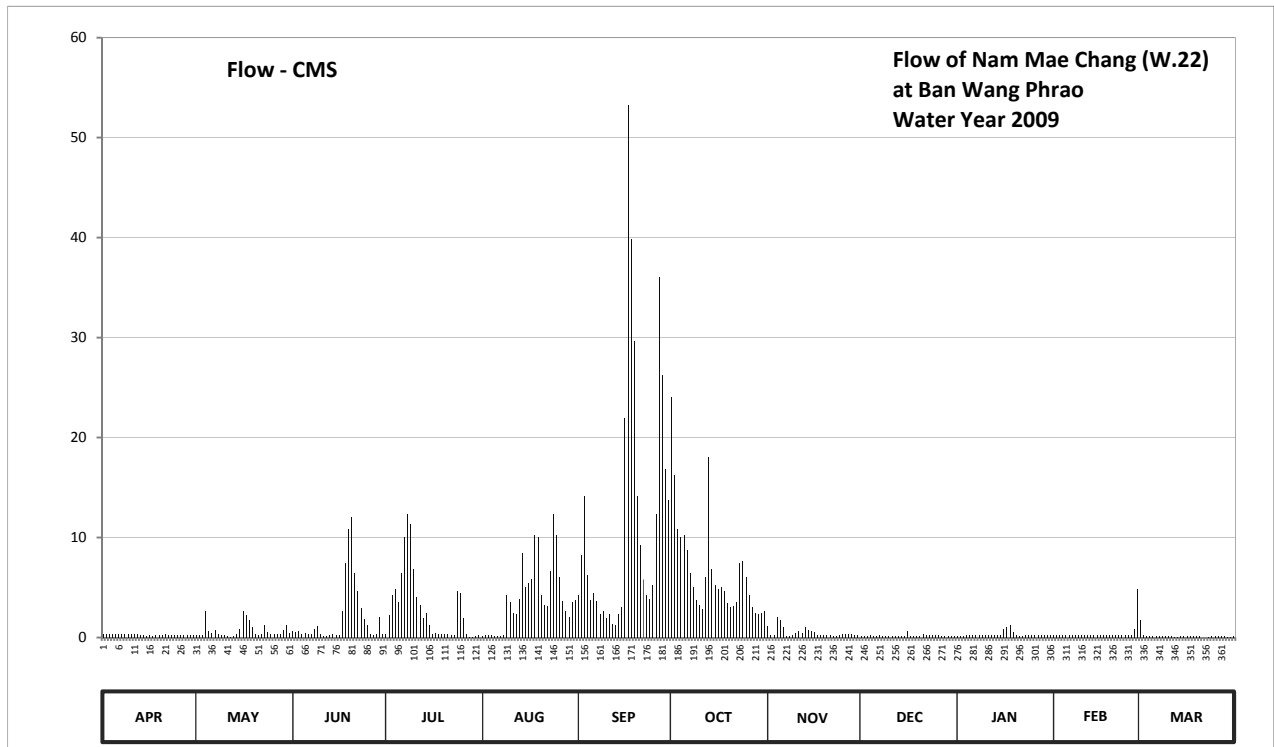
Lat 18 - 08 - 35 N Long 99 - 24 - 48 E

Location : on right bank at the bridge.

	Ban Wang Phrao	Amphoe Ko Kha	Changwat Lampang
Drainage Area	1,549	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+215.161 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the approach of the bridge.		Elevation +221.226 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings.		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	215.53	215.42	215.62	215.54	215.38	215.91	216.64	215.66	215.38	215.36	215.44	215.71	
2	215.53	215.42	215.61	215.75	215.40	216.11	216.39	215.41	215.39	215.34	215.44	215.45	
3	215.54	215.42	215.62	215.91	215.40	216.32	216.21	215.44	215.39	215.38	215.43	215.32	
4	215.54	215.79	215.53	215.94	215.40	216.01	216.18	215.74	215.41	215.41	215.43	215.32	
5	215.54	215.62	215.60	215.86	215.39	215.88	216.19	215.71	215.39	215.44	215.43	215.32	
6	215.54	215.59	215.55	216.02	215.39	215.92	216.13	215.65	215.39	215.45	215.42	215.31	
7	215.53	215.63	215.56	216.18	215.39	215.87	216.02	215.39	215.40	215.46	215.43	215.31	
8	215.53	215.53	215.64	216.26	215.40	215.76	215.95	215.35	215.38	215.46	215.43	215.31	
9	215.53	215.46	215.66	216.23	215.91	215.79	215.88	215.40	215.38	215.46	215.42	215.31	
10	215.51	215.45	215.51	216.04	215.86	215.73	215.84	215.60	215.38	215.46	215.42	215.31	
11	215.51	215.38	215.39	215.90	215.77	215.76	215.80	215.62	215.37	215.47	215.42	215.30	
12	215.52	215.26	215.37	215.84	215.76	215.68	216.00	215.60	215.37	215.48	215.42	215.28	
13	215.43	215.36	215.40	215.73	215.89	215.67	216.45	215.65	215.36	215.48	215.42	215.29	
14	215.43	215.57	215.53	215.77	216.12	215.76	216.04	215.63	215.37	215.47	215.41	215.30	
15	215.39	215.64	215.47	215.67	215.95	215.82	215.96	215.62	215.35	215.49	215.41	215.30	
16	215.40	215.79	215.44	215.58	215.97	216.58	215.94	215.61	215.62	215.64	215.41	215.31	
17	215.39	215.75	215.79	215.60	215.99	217.34	215.95	215.44	215.38	215.65	215.41	215.30	
18	215.42	215.71	216.07	215.53	216.19	217.04	215.93	215.40	215.30	215.67	215.41	215.30	
19	215.44	215.65	216.21	215.50	216.18	216.79	215.85	215.40	215.30	215.61	215.41	215.30	
20	215.49	215.53	216.25	215.57	215.91	216.32	215.82	215.40	215.39	215.49	215.41	215.36	
21	215.51	215.45	216.02	215.53	215.84	216.15	215.83	215.46	215.51	215.36	215.41	215.20	
22	215.47	215.50	215.93	215.46	215.83	215.99	215.86	215.37	215.48	215.38	215.41	215.19	
23	215.45	215.67	215.81	215.45	216.03	215.91	216.07	215.34	215.42	215.41	215.40	215.24	
24	215.43	215.61	215.72	215.93	216.26	215.89	216.08	215.42	215.41	215.42	215.40	215.31	
25	215.43	215.57	215.67	215.92	216.19	215.96	216.00	215.56	215.41	215.43	215.40	215.30	
26	215.45	215.53	215.57	215.73	216.00	216.26	215.91	215.57	215.40	215.44	215.40	215.30	
27	215.45	215.53	215.49	215.56	215.87	216.95	215.82	215.55	215.39	215.44	215.64	215.30	
28	215.44	215.55	215.53	215.29	215.79	216.70	215.77	215.51	215.34	215.44	215.94	215.30	
29	215.42	215.63	215.74	215.24	215.74	216.41	215.76	215.42	215.33	215.44		215.29	
30	215.42	215.67	215.54	215.39	215.86	216.31	215.77	215.40	215.37	215.43		215.29	
31		215.59		215.40	215.88		215.79		215.37	215.43		215.31	
Mean	215.47	215.56	215.66	215.72	215.80	216.15	215.99	215.51	215.39	215.46	215.44	215.31	
Max	215.54	215.79	216.25	216.26	216.26	217.34	216.64	215.74	215.62	215.67	215.94	215.71	217.34
Min	215.39	215.26	215.37	215.24	215.38	215.67	215.76	215.34	215.30	215.34	215.40	215.19	215.19
Annual Max Momentary Gage Height		217.46	m. (MSL.) ,				at 09.00 Hours , on Sep 17 , 2009						
Zero Gage at Bottom Elevation		215.16	m. (MSL.) ,			River Bed	213.94	m. (MSL)					
Left Bank Elevation		221.15	m. (MSL.) ,										
Right Bank Elevation		221.22	m. (MSL.) ,			Drainage Area	1549	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.33	0.22	0.64	0.34	0.18	4.20	24.00	1.12	0.18	0.16	0.24	1.72	
2	0.33	0.22	0.52	2.20	0.20	8.25	16.20	0.21	0.19	0.14	0.24	0.25	
3	0.34	0.22	0.64	4.20	0.20	14.10	10.80	0.24	0.19	0.18	0.23	0.12	
4	0.34	2.68	0.33	4.80	0.20	6.20	10.00	2.08	0.21	0.21	0.23	0.12	
5	0.34	0.64	0.40	3.52	0.19	3.76	10.25	1.72	0.19	0.24	0.23	0.12	
6	0.34	0.39	0.35	6.40	0.19	4.40	8.75	1.00	0.19	0.25	0.22	0.11	
7	0.33	0.76	0.36	10.00	0.19	3.64	6.40	0.19	0.20	0.26	0.23	0.11	
8	0.33	0.33	0.88	12.30	0.20	2.32	5.00	0.15	0.18	0.26	0.23	0.11	
9	0.33	0.26	1.12	11.40	4.20	2.68	3.76	0.20	0.18	0.26	0.22	0.11	
10	0.31	0.25	0.31	6.80	3.52	1.96	3.28	0.40	0.18	0.26	0.22	0.11	
11	0.31	0.18	0.19	4.00	2.44	2.32	2.80	0.64	0.17	0.27	0.22	0.10	
12	0.32	0.06	0.17	3.28	2.32	1.36	6.00	0.40	0.17	0.28	0.22	0.08	
13	0.23	0.16	0.20	1.96	3.88	1.24	18.00	1.00	0.16	0.28	0.22	0.09	
14	0.23	0.37	0.33	2.44	8.50	2.32	6.80	0.76	0.17	0.27	0.21	0.10	
15	0.19	0.88	0.27	1.24	5.00	3.04	5.20	0.64	0.15	0.29	0.21	0.10	
16	0.20	2.68	0.24	0.38	5.40	21.90	4.80	0.52	0.64	0.88	0.21	0.11	
17	0.19	2.20	2.68	0.40	5.80	53.30	5.00	0.24	0.18	1.00	0.21	0.10	
18	0.22	1.72	7.40	0.33	10.25	39.80	4.60	0.20	0.10	1.24	0.21	0.10	
19	0.24	1.00	10.80	0.30	10.00	29.62	3.40	0.20	0.10	0.52	0.21	0.10	
20	0.29	0.33	12.00	0.37	4.20	14.10	3.04	0.20	0.19	0.29	0.21	0.16	
21	0.31	0.25	6.40	0.33	3.28	9.25	3.16	0.26	0.31	0.16	0.21	0.00	
22	0.27	0.30	4.60	0.26	3.16	5.80	3.52	0.17	0.28	0.18	0.21	0.00	
23	0.25	1.24	2.92	0.25	6.60	4.20	7.40	0.14	0.22	0.21	0.20	0.04	
24	0.23	0.52	1.84	4.60	12.30	3.88	7.60	0.22	0.21	0.22	0.20	0.11	
25	0.23	0.37	1.24	4.40	10.25	5.20	6.00	0.36	0.21	0.23	0.20	0.10	
26	0.25	0.33	0.37	1.96	6.00	12.30	4.20	0.37	0.20	0.24	0.20	0.10	
27	0.25	0.33	0.29	0.36	3.64	36.00	3.04	0.35	0.19	0.24	0.88	0.10	
28	0.24	0.35	0.33	0.09	2.68	26.25	2.44	0.31	0.14	0.24	4.80	0.10	
29	0.22	0.76	2.08	0.04	2.08	16.80	2.32	0.22	0.13	0.24		0.09	
30	0.22	1.24	0.34	0.19	3.52	13.80	2.44	0.20	0.17	0.23		0.09	
31		0.39		0.20	3.76		2.68		0.17	0.23		0.11	
Total	8.21	21.63	60.24	89.34	124.33	353.99	202.88	14.71	6.15	9.96	11.32	4.76	907.52 CMSDAY
Mean	0.27	0.70	2.01	2.88	4.01	11.80	6.54	0.49	0.20	0.32	0.40	0.15	2.49 CMS
Max	0.34	2.68	12.00	12.30	12.30	53.30	24.00	2.08	0.64	1.24	4.80	1.72	53.30 CMS
Min	0.19	0.06	0.17	0.04	0.18	1.24	2.32	0.14	0.10	0.14	0.20	0.00	0.00 CMS
Runoff	0.71	1.87	5.21	7.72	10.74	30.59	17.53	1.27	0.53	0.86	0.98	0.41	78.41 MCM
Momentary Peak	59.30 CMS. at 217.46 m. (MSL.) at 09.00 Hours , on Sep 17 , 2009												
Runoff Yield	1.61 Liters/Second/Square KM.			Momentary Peak Yield			38.283 Liters/Second/Square KM.						

WATER YEAR : 2009**WANG RIVER BASIN**

Wang River at Ban Chiang Rai , Tak (W.23)

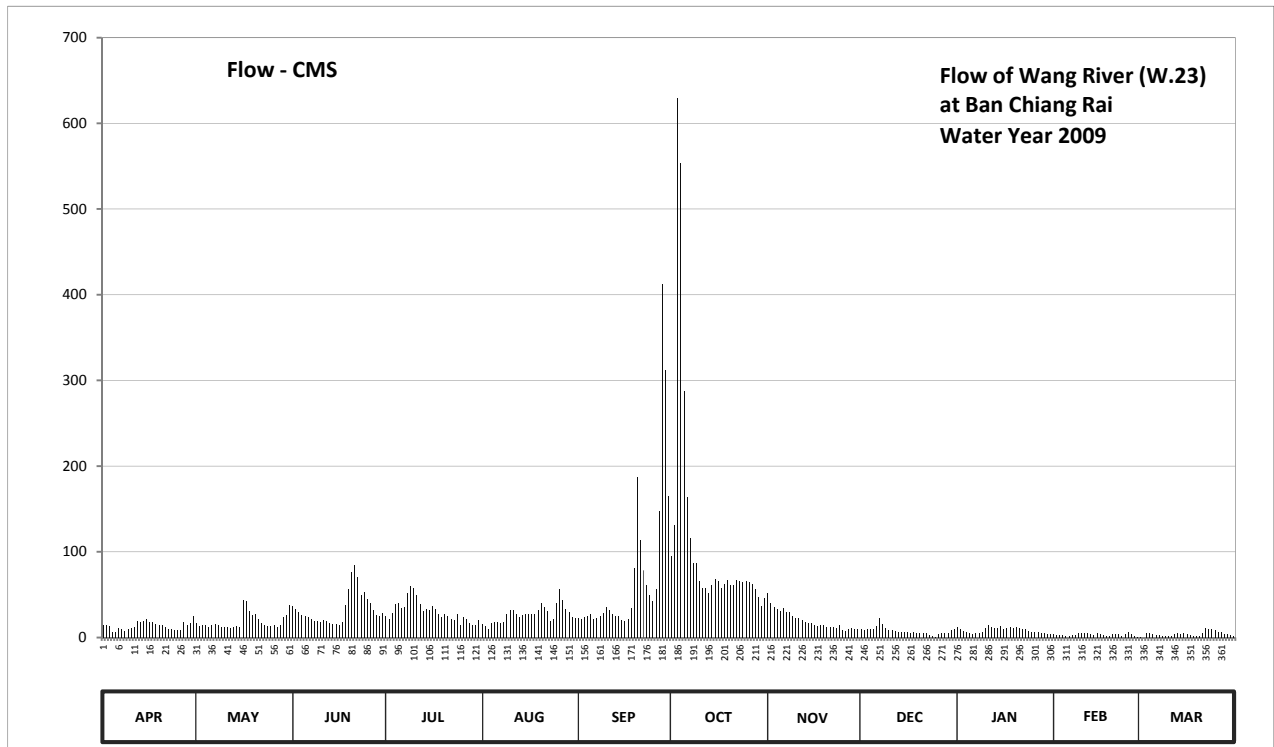
Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

Location : on left bank at Amphoe Sam Ngao.

	Ban Chiang Rai	Amphoe Sam Ngao	Changwat Tak
Drainage Area	9,930	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+141.291 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		Elevation +148.844 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 means of 5 readings.		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.Stage-discharge relation defined by 14 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.16	142.22	142.74	142.49	142.19	142.42	143.73	143.04	141.98	142.09	141.74	141.62	
2	142.13	142.11	142.66	142.39	142.10	142.40	144.22	142.81	141.96	142.01	141.72	141.60	
3	142.11	142.15	142.58	142.56	142.01	142.44	148.40	142.71	141.97	141.92	141.72	141.79	
4	141.85	142.14	142.51	142.79	142.23	142.47	147.87	142.66	141.98	141.84	141.70	141.81	
5	141.87	142.07	142.48	142.80	142.26	142.52	145.81	142.62	141.97	141.79	141.68	141.76	
6	142.02	142.13	142.46	142.68	142.27	142.40	144.57	142.68	142.12	141.76	141.68	141.73	
7	141.99	142.20	142.40	142.70	142.24	142.42	144.03	142.58	142.43	141.79	141.72	141.70	
8	141.92	142.14	142.32	143.04	142.26	142.49	143.62	142.58	142.19	141.82	141.73	141.67	
9	141.98	142.09	142.30	143.19	142.54	142.55	143.61	142.48	142.04	141.86	141.80	141.66	
10	142.03	142.08	142.28	143.15	142.64	142.71	143.30	142.41	141.95	142.03	141.82	141.66	
11	142.06	142.06	142.35	143.00	142.65	142.65	143.15	142.42	141.94	142.15	141.79	141.69	
12	142.31	142.04	142.30	142.78	142.53	142.52	143.16	142.35	141.90	142.08	141.80	141.76	
13	142.28	142.06	142.21	142.62	142.46	142.48	143.05	142.27	141.87	142.03	141.75	141.79	
14	142.30	142.11	142.19	142.66	142.50	142.47	143.23	142.24	141.85	142.03	141.72	141.78	
15	142.38	142.07	142.18	142.64	142.53	142.33	143.33	142.21	141.84	142.11	141.81	141.80	
16	142.25	142.88	142.17	142.73	142.54	142.30	143.30	142.15	141.84	142.01	141.78	141.77	
17	142.26	142.84	142.25	142.66	142.54	142.40	143.16	142.12	141.83	142.03	141.70	141.70	
18	142.20	142.62	142.76	142.52	142.52	142.68	143.24	142.14	141.84	142.07	141.67	141.69	
19	142.17	142.51	143.14	142.46	142.63	143.53	143.31	142.13	141.83	142.02	141.66	141.67	
20	142.14	142.54	143.47	142.52	142.80	144.83	143.21	142.09	141.82	142.08	141.76	141.67	
21	142.06	142.40	143.57	142.48	142.72	144.00	143.22	142.06	141.82	142.02	141.77	141.83	
22	142.00	142.24	143.37	142.39	142.62	143.49	143.32	142.06	141.83	142.01	141.75	142.03	
23	141.99	142.15	143.00	142.34	142.32	143.21	143.29	142.05	141.70	141.98	141.69	142.00	
24	141.96	142.12	143.07	142.52	142.39	142.99	143.27	142.16	141.68	141.92	141.77	141.98	
25	141.94	142.10	142.90	142.17	142.80	142.84	143.29	141.93	141.64	141.87	141.87	141.93	
26	141.95	142.14	142.80	142.45	143.14	143.14	143.28	141.92	141.76	141.84	141.77	141.86	
27	142.26	142.08	142.63	142.37	142.88	144.40	143.24	142.01	141.81	141.84	141.67	141.84	
28	142.16	142.16	142.50	142.24	142.67	146.82	143.12	142.02	141.79	141.81	141.63	141.78	
29	142.23	142.44	142.48	142.17	142.58	146.02	142.94	142.01	141.79	141.79		141.75	
30	142.48	142.50	142.55	142.13	142.46	144.59	142.73	142.00	141.94	141.78		141.71	
31		142.77		142.33	142.43		142.92		141.99	141.75		141.68	
Mean	142.11	142.26	142.62	142.58	142.50	143.15	143.74	142.30	141.90	141.94	141.74	141.76	
Max	142.48	142.88	143.57	143.19	143.14	146.82	148.40	143.04	142.43	142.15	141.87	142.03	148.40
Min	141.85	142.04	142.17	142.13	142.01	142.30	142.73	141.92	141.64	141.75	141.63	141.60	141.60
Annual Max Momentary Gage Height	148.59		m. (MSL.) ,				at 18.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	141.29		m. (MSL.) ,			River Bed	141.50	m. (MSL)					
Left Bank Elevation	149.90		m. (MSL.) ,										
Right Bank Elevation	150.19		m. (MSL.) ,			Drainage Area	9930	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.80	16.60	37.00	25.60	15.70	22.80	95.10	52.00	9.50	12.70	3.50	0.50	
2	13.90	13.30	33.00	21.70	13.00	22.00	131.80	40.50	9.00	10.30	3.00	0.00	
3	13.30	14.50	29.20	28.40	10.30	23.60	630.00	35.50	9.25	8.00	3.00	4.75	
4	6.25	14.20	26.40	39.50	16.90	24.80	553.80	33.00	9.50	6.00	2.50	5.25	
5	6.75	12.10	25.20	40.00	17.80	26.80	287.20	31.00	9.25	4.75	2.00	4.00	
6	10.60	13.90	24.40	34.00	18.10	22.00	163.30	34.00	13.60	4.00	2.00	3.25	
7	9.75	16.00	22.00	35.00	17.20	22.80	116.40	29.20	23.20	4.75	3.00	2.50	
8	8.00	14.20	19.60	52.00	17.80	25.60	87.40	29.20	15.70	5.50	3.25	1.75	
9	9.50	12.70	19.00	59.50	27.60	28.00	86.70	25.20	11.20	6.50	5.00	1.50	
10	10.90	12.40	18.40	57.50	32.00	35.50	66.00	22.40	8.75	10.90	5.50	1.50	
11	11.80	11.80	20.50	50.00	32.50	32.50	57.50	22.80	8.50	14.50	4.75	2.25	
12	19.30	11.20	19.00	39.00	27.20	26.80	58.00	20.50	7.50	12.40	5.00	4.00	
13	18.40	11.80	16.30	31.00	24.40	25.20	52.50	18.10	6.75	10.90	3.75	4.75	
14	19.00	13.30	15.70	33.00	26.00	24.80	61.80	17.20	6.25	10.90	3.00	4.50	
15	21.40	12.10	15.40	32.00	27.20	19.90	67.80	16.30	6.00	13.30	5.25	5.00	
16	17.50	44.00	15.10	36.50	27.60	19.00	66.00	14.50	6.00	10.30	4.50	4.25	
17	17.80	42.00	17.50	33.00	27.60	22.00	58.00	13.60	5.75	10.90	2.50	2.50	
18	16.00	31.00	38.00	26.80	26.80	34.00	62.40	14.20	6.00	12.10	1.75	2.25	
19	15.10	26.40	57.00	24.40	31.50	81.10	66.60	13.90	5.75	10.60	1.50	1.75	
20	14.20	27.60	76.90	26.80	40.00	187.00	60.60	12.70	5.50	12.40	4.00	1.75	
21	11.80	22.00	83.90	25.20	36.00	114.00	61.20	11.80	5.50	10.60	4.25	5.75	
22	10.00	17.20	70.20	21.70	31.00	78.30	67.20	11.80	5.75	10.30	3.75	10.90	
23	9.75	14.50	50.00	20.20	19.60	60.60	65.40	11.50	2.50	9.50	2.25	10.00	
24	9.00	13.60	53.50	26.80	21.70	49.50	64.20	14.80	2.00	8.00	4.25	9.50	
25	8.50	13.00	45.00	15.10	40.00	42.00	65.40	8.25	1.00	6.75	6.75	8.25	
26	8.75	14.20	40.00	24.00	57.00	57.00	64.80	8.00	4.00	6.00	4.25	6.50	
27	17.80	12.40	31.50	21.10	44.00	148.00	62.40	10.30	5.25	6.00	1.75	6.00	
28	14.80	14.80	26.00	17.20	33.50	412.60	56.00	10.60	4.75	5.25	0.75	4.50	
29	16.90	23.60	25.20	15.10	29.20	312.40	47.00	10.30	4.75	4.75		3.75	
30	25.20	26.00	28.00	13.90	24.40	165.10	36.50	10.00	8.50	4.50		2.75	
31		38.50		19.90	23.20		46.00		9.75	3.75		2.00	
Total	406.75	580.90	998.90	945.90	836.80	2165.70	3465.00	603.15	236.70	267.10	96.75	127.90	10731.55 CMSDAY
Mean	13.56	18.74	33.30	30.51	26.99	72.19	111.77	20.10	7.64	8.62	3.46	4.13	29.40 CMS
Max	25.20	44.00	83.90	59.50	57.00	412.60	630.00	52.00	23.20	14.50	6.75	10.90	630.00 CMS
Min	6.25	11.20	15.10	13.90	10.30	19.00	36.50	8.00	1.00	3.75	0.75	0.00	0.00 CMS
Runoff	35.14	50.19	86.31	81.73	72.30	187.12	299.38	52.11	20.45	23.08	8.36	11.05	927.21 MCM
Momentary Peak	658.50 CMS. at 148.59 m. (MSL.) at 18.00 Hours , on Oct 3 , 2009												
Runoff Yield	2.96 Liters/Second/Square KM.			Momentary Peak Yield				66.314 Liters/Second/Square KM.					

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Huai Kod , Lampang (W.25)

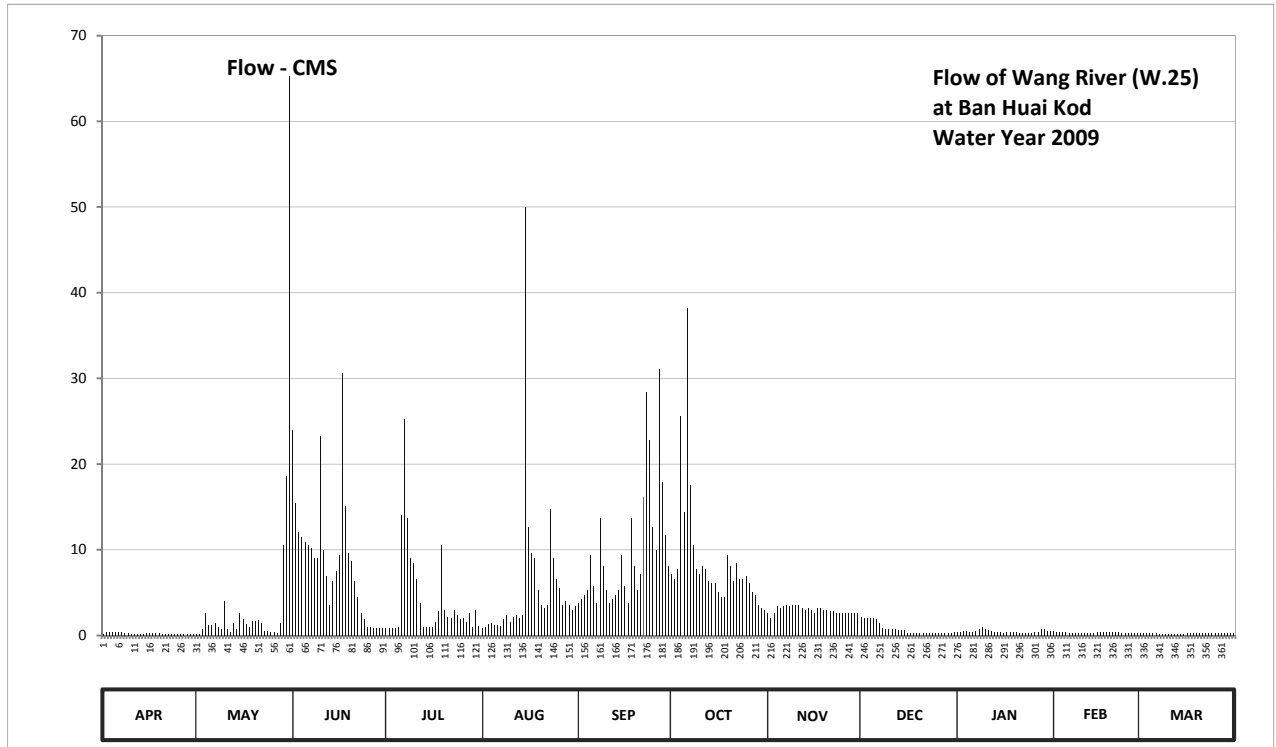
Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on right bank at Ban Huai Kod.

	Ban	Huai Kod	Amphoe	Wang Nua	Changwat	Lampang
Drainage Area	762	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+381.903 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the approach of the bridge.				Elevation	+387.093 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair.Stage-discharge relation defined by 32 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	381.54	381.53	382.50	381.65	381.65	381.88	382.01	381.82	381.79	381.57	381.60	381.55	
2	381.59	381.54	382.27	381.65	381.67	381.90	381.99	381.78	381.78	381.57	381.59	381.55	
3	381.57	381.64	382.17	381.65	381.71	381.92	382.03	381.82	381.78	381.60	381.58	381.55	
4	381.57	381.82	382.15	381.65	381.72	381.94	382.54	381.86	381.78	381.60	381.58	381.55	
5	381.57	381.70	382.13	381.66	381.70	382.08	382.24	381.85	381.78	381.59	381.57	381.55	
6	381.57	381.70	382.12	382.23	381.70	381.96	382.83	381.86	381.77	381.59	381.56	381.55	
7	381.57	381.73	382.11	382.53	381.69	381.88	382.33	381.87	381.72	381.61	381.56	381.54	
8	381.55	381.67	382.07	382.22	381.77	382.22	382.12	381.86	381.65	381.63	381.56	381.54	
9	381.55	381.64	382.07	382.07	381.81	382.04	382.03	381.87	381.64	381.66	381.56	381.54	
10	381.54	381.89	382.48	382.05	381.74	381.94	382.01	381.87	381.64	381.63	381.56	381.54	
11	381.54	381.64	382.10	381.99	381.79	381.88	382.04	381.87	381.64	381.62	381.56	381.54	
12	381.54	381.59	382.00	381.88	381.81	381.90	382.03	381.85	381.63	381.61	381.56	381.54	
13	381.54	381.73	381.87	381.67	381.78	381.92	381.98	381.84	381.62	381.58	381.56	381.54	
14	381.54	381.63	381.98	381.66	381.81	381.94	381.97	381.85	381.62	381.58	381.56	381.54	
15	381.55	381.82	382.02	381.67	383.07	382.08	381.97	381.84	381.62	381.57	381.57	381.54	
16	381.55	381.77	382.08	381.67	382.19	381.96	381.93	381.82	381.56	381.56	381.57	381.55	
17	381.55	381.71	382.66	381.74	382.09	381.88	381.91	381.85	381.56	381.57	381.57	381.55	
18	381.55	381.67	382.26	381.83	382.07	382.22	381.91	381.85	381.56	381.57	381.57	381.55	
19	381.55	381.75	382.09	382.12	381.94	382.04	382.08	381.84	381.56	381.57	381.57	381.55	
20	381.54	381.75	382.06	381.84	381.87	381.94	382.04	381.84	381.56	381.57	381.57	381.55	
21	381.54	381.76	381.98	381.80	381.85	382.01	381.98	381.83	381.56	381.56	381.57	381.55	
22	381.54	381.72	381.91	381.78	381.87	382.29	382.05	381.83	381.55	381.56	381.57	381.55	
23	381.54	381.61	381.82	381.84	382.25	382.61	381.99	381.82	381.55	381.56	381.56	381.55	
24	381.54	381.60	381.77	381.81	382.07	382.47	381.99	381.82	381.55	381.56	381.55	381.55	
25	381.54	381.59	381.66	381.77	381.99	382.19	382.00	381.82	381.55	381.56	381.55	381.55	
26	381.54	381.58	381.66	381.78	381.95	382.10	381.97	381.82	381.55	381.57	381.55	381.55	
27	381.54	381.56	381.65	381.74	381.87	382.67	381.93	381.82	381.55	381.59	381.55	381.55	
28	381.54	381.72	381.65	381.82	381.89	382.34	381.92	381.82	381.56	381.63	381.55	381.55	
29	381.53	382.12	381.65	381.66	381.87	382.16	381.87	381.82	381.56	381.63		381.55	
30	381.53	382.36	381.65	381.84	381.84	382.04	381.85	381.82	381.56	381.60		381.55	
31		383.35		381.68	381.86		381.84		381.57	381.60		381.55	
Mean	381.55	381.77	382.02	381.84	381.90	382.08	382.04	381.84	381.62	381.59	381.57	381.55	
Max	381.59	383.35	382.66	382.53	383.07	382.67	382.83	381.87	381.79	381.66	381.60	381.55	383.35
Min	381.53	381.53	381.65	381.65	381.65	381.88	381.84	381.78	381.55	381.56	381.55	381.54	381.53
Annual Max Momentary Gage Height	383.60		m. (MSL.) ,		at 06.00 Hours , on Aug 15 , 2009								
Zero Gage at Bottom Elevation	381.90		m. (MSL.) ,		River Bed		381.05		m. (MSL)				
Left Bank Elevation	387.24		m. (MSL.) ,										
Right Bank Elevation	387.33		m. (MSL.) ,		Drainage Area		762		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.15	24.00	0.85	0.85	3.80	7.21	2.60	2.10	0.35	0.50	0.25	
2	0.45	0.20	15.45	0.85	0.99	4.20	6.63	2.00	2.00	0.35	0.45	0.25	
3	0.35	0.78	12.09	0.85	1.30	4.74	7.81	2.60	2.00	0.50	0.40	0.25	
4	0.35	2.60	11.47	0.85	1.40	5.28	25.60	3.40	2.00	0.50	0.40	0.25	
5	0.35	1.20	10.86	0.92	1.20	9.34	14.40	3.20	2.00	0.45	0.35	0.25	
6	0.35	1.20	10.56	14.05	1.20	5.82	38.21	3.40	1.90	0.45	0.30	0.25	
7	0.35	1.50	10.25	25.20	1.13	3.80	17.55	3.60	1.40	0.57	0.30	0.20	
8	0.25	0.99	9.04	13.70	1.90	13.70	10.56	3.40	0.85	0.71	0.30	0.20	
9	0.25	0.78	9.04	9.04	2.40	8.12	7.81	3.60	0.78	0.92	0.30	0.20	
10	0.20	4.00	23.20	8.42	1.60	5.28	7.21	3.60	0.78	0.71	0.30	0.20	
11	0.20	0.78	9.95	6.63	2.10	3.80	8.12	3.60	0.78	0.64	0.30	0.20	
12	0.20	0.45	6.90	3.80	2.40	4.20	7.81	3.20	0.71	0.57	0.30	0.20	
13	0.20	1.50	3.60	0.99	2.00	4.74	6.36	3.00	0.64	0.40	0.30	0.20	
14	0.20	0.71	6.36	0.92	2.40	5.28	6.09	3.20	0.64	0.40	0.30	0.20	
15	0.25	2.60	7.51	0.99	49.98	9.34	6.09	3.00	0.64	0.35	0.35	0.20	
16	0.25	1.90	9.34	0.99	12.69	5.82	5.01	2.60	0.30	0.30	0.35	0.25	
17	0.25	1.30	30.64	1.60	9.64	3.80	4.47	3.20	0.30	0.35	0.35	0.25	
18	0.25	0.99	15.10	2.80	9.04	13.70	4.47	3.20	0.30	0.35	0.35	0.25	
19	0.25	1.70	9.64	10.56	5.28	8.12	9.34	3.00	0.30	0.35	0.35	0.25	
20	0.20	1.70	8.73	3.00	3.60	5.28	8.12	3.00	0.30	0.35	0.35	0.25	
21	0.20	1.80	6.36	2.20	3.20	7.21	6.36	2.80	0.30	0.30	0.35	0.25	
22	0.20	1.40	4.47	2.00	3.60	16.15	8.42	2.80	0.25	0.30	0.35	0.25	
23	0.20	0.57	2.60	3.00	14.75	28.44	6.63	2.60	0.25	0.30	0.30	0.25	
24	0.20	0.50	1.90	2.40	9.04	22.80	6.63	2.60	0.25	0.30	0.25	0.25	
25	0.20	0.45	0.92	1.90	6.63	12.69	6.90	2.60	0.25	0.30	0.25	0.25	
26	0.20	0.40	0.92	2.00	5.55	9.95	6.09	2.60	0.25	0.35	0.25	0.25	
27	0.20	0.30	0.85	1.60	3.60	31.08	5.01	2.60	0.25	0.45	0.25	0.25	
28	0.20	1.40	0.85	2.60	4.00	17.90	4.74	2.60	0.30	0.71	0.25	0.25	
29	0.15	10.56	0.85	0.92	3.60	11.78	3.60	2.60	0.30	0.71		0.25	
30	0.15	18.60	0.85	3.00	3.00	8.12	3.20	2.60	0.30	0.50		0.25	
31		65.25		1.06	3.40		3.00		0.35	0.50		0.25	
Total	7.25	128.26	264.30	129.69	173.47	294.28	269.45	88.80	23.77	14.29	9.15	7.30	1410.01 CMSDAY
Mean	0.24	4.14	8.81	4.18	5.60	9.81	8.69	2.96	0.77	0.46	0.33	0.24	3.86 CMS
Max	0.45	65.25	30.64	25.20	49.98	31.08	38.21	3.60	2.10	0.92	0.50	0.25	65.25 CMS
Min	0.15	0.15	0.85	0.85	0.85	3.80	3.00	2.00	0.25	0.30	0.25	0.20	0.15 CMS
Runoff	0.63	11.08	22.84	11.21	14.99	25.43	23.28	7.67	2.05	1.24	0.79	0.63	121.83 MCM
Momentary Peak	80.50 CMS. at 383.60 m. (MSL.) at 06.00 Hours , on Aug 15 , 2009												
Runoff Yield	5.07 Liters/Second/Square KM.			Momentary Peak Yield			105.643 Liters/Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Nam Khong , Phrae (Y.1C)

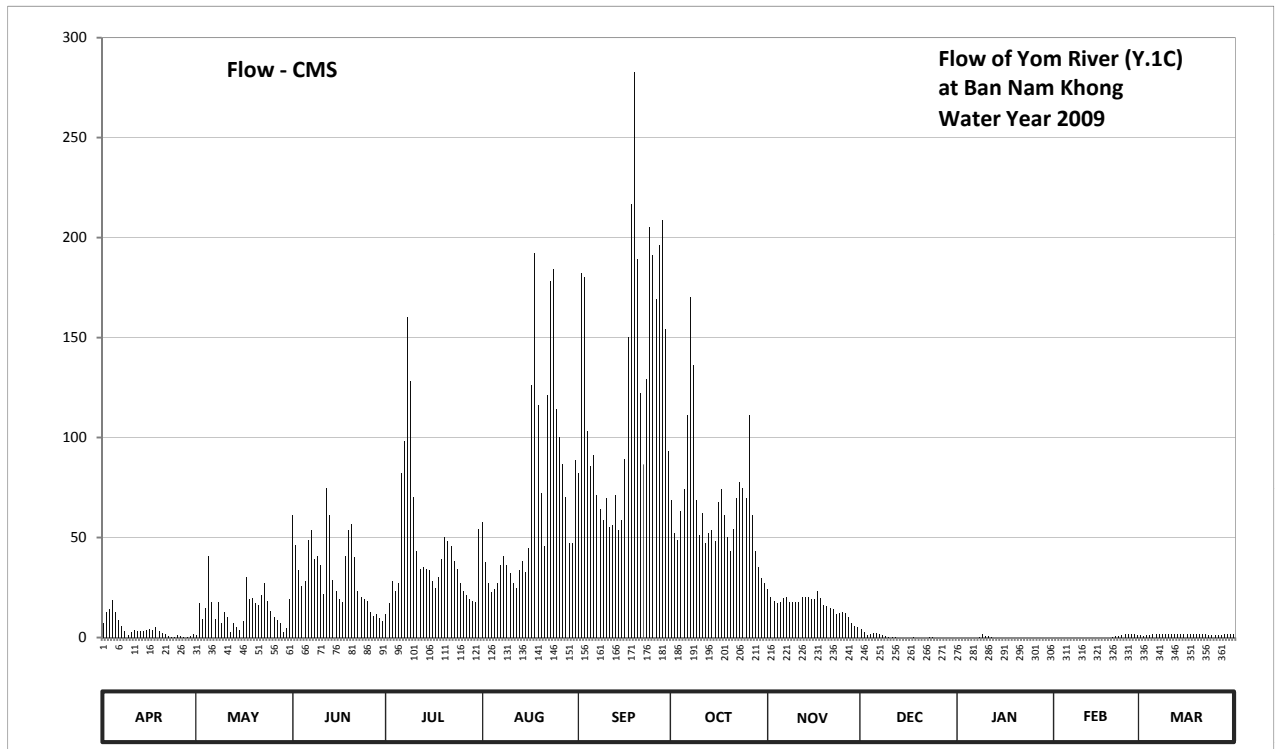
Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	Ban Nam Khong	Amphoe Mueang	Changwat Phrae
Drainage Area	7,749 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+143.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of the station office	Elevation	+153.972 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Flot	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Mae yom weir situated about 76 kilometers above gage site. Stage-discharge relation defined by 91 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.18	143.93	144.66	144.01	144.62	144.89	144.74	144.20	143.83	143.54	143.47	143.89	
2	144.28	144.10	144.48	144.10	144.37	145.90	144.55	144.15	143.78	143.54	143.47	143.88	
3	144.30	143.95	144.32	144.25	144.24	145.88	144.51	144.12	143.72	143.54	143.46	143.89	
4	144.36	144.06	144.22	144.19	144.18	145.11	144.68	144.10	143.74	143.53	143.45	143.93	
5	144.28	144.41	144.25	144.24	144.20	144.93	144.80	144.11	143.77	143.52	143.44	143.96	
6	144.21	144.11	144.51	144.89	144.24	144.99	145.19	144.14	143.77	143.51	143.44	143.98	
7	144.14	143.95	144.57	145.06	144.35	144.77	145.78	144.15	143.73	143.51	143.44	143.97	
8	144.05	144.11	144.39	145.68	144.41	144.69	145.44	144.11	143.70	143.63	143.43	143.97	
9	143.94	143.91	144.41	145.36	144.35	144.63	144.74	144.11	143.67	143.74	143.44	143.97	
10	144.03	144.03	144.35	144.76	144.30	144.75	144.54	144.11	143.63	143.68	143.43	143.97	
11	144.08	143.98	144.17	144.44	144.24	144.59	144.67	144.11	143.63	143.69	143.43	143.96	
12	144.07	143.79	144.81	144.33	144.21	144.60	144.49	144.15	143.63	143.61	143.45	143.96	
13	144.07	143.91	144.66	144.34	144.32	144.77	144.55	144.15	143.60	143.53	143.46	143.96	
14	144.06	143.86	144.26	144.33	144.38	144.57	144.57	144.15	143.58	143.55	143.44	143.96	
15	144.09	143.82	144.19	144.32	144.31	144.63	144.50	144.13	143.58	143.54	143.43	143.96	
16	144.10	143.93	144.13	144.25	144.46	144.97	144.73	144.13	143.58	143.51	143.42	143.96	
17	144.09	144.28	144.11	144.21	145.34	145.58	144.80	144.19	143.60	143.51	143.41	143.96	
18	144.13	144.13	144.41	144.28	146.00	146.25	144.66	144.14	143.62	143.49	143.45	143.95	
19	144.07	144.14	144.57	144.39	145.24	146.89	144.53	144.09	143.57	143.49	143.49	143.95	
20	144.00	144.10	144.61	144.53	144.78	145.97	144.44	144.08	143.59	143.50	143.73	143.95	
21	143.98	144.09	144.40	144.50	144.47	145.30	144.58	144.06	143.59	143.49	143.82	143.95	
22	143.83	144.16	144.19	144.47	145.29	144.94	144.75	144.05	143.58	143.49	143.87	143.95	
23	143.76	144.24	144.15	144.38	145.86	145.37	144.84	144.01	143.61	143.49	143.94	143.94	
24	143.66	144.12	144.13	144.33	145.92	146.13	144.81	144.02	143.62	143.49	143.97	143.94	
25	143.91	144.04	144.12	144.24	145.22	145.99	144.75	144.03	143.59	143.49	143.96	143.93	
26	143.80	143.98	144.03	144.19	145.08	145.77	145.19	144.02	143.57	143.50	143.96	143.94	
27	143.67	143.94	143.99	144.16	144.94	146.04	144.66	143.98	143.58	143.49	143.95	143.94	
28	143.69	143.90	144.01	144.13	144.76	146.17	144.44	143.91	143.60	143.45	143.93	143.95	
29	143.88	143.78	143.97	144.12	144.49	145.62	144.34	143.87	143.57	143.46		143.95	
30	143.99	143.84	143.93	144.11	144.49	145.01	144.27	143.85	143.55	143.47		143.96	
31		144.13		144.58	144.96		144.24		143.55	143.49		143.97	
Mean	144.02	144.02	144.30	144.42	144.71	145.32	144.70	144.08	143.64	143.53	143.59	143.95	
Max	144.36	144.41	144.81	145.68	146.00	146.89	145.78	144.20	143.83	143.74	143.97	143.98	146.89
Min	143.66	143.78	143.93	144.01	144.18	144.57	144.24	143.85	143.55	143.45	143.41	143.88	143.41
Annual Max Momentary Gage Height		147.03		m. (MSL.) ,									at 04.00 Hours , on Sep 19 , 2009
Zero Gage at Bottom Elevation		143.50		m. (MSL.) ,		River Bed	140.70		m. (MSL)				
Left Bank Elevation		153.85		m. (MSL.) ,									
Right Bank Elevation		153.84		m. (MSL.) ,		Drainage Area	7749		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.20	1.30	61.40	11.60	57.80	82.10	68.60	24.00	4.20	0.00	0.00	1.00	
2	12.80	17.00	46.40	17.00	37.60	182.00	52.00	20.50	2.60	0.00	0.00	0.90	
3	14.00	9.00	33.60	28.00	27.20	180.00	48.80	18.40	1.40	0.00	0.00	1.00	
4	18.80	14.60	25.60	23.30	22.60	103.00	63.20	17.00	1.80	0.00	0.00	1.30	
5	12.80	40.80	28.00	27.20	24.00	85.70	74.00	17.70	2.40	0.00	0.00	1.60	
6	8.60	17.70	48.80	82.10	27.20	91.10	111.00	19.80	2.40	0.00	0.00	1.80	
7	5.60	9.00	53.60	98.00	36.00	71.30	170.00	20.50	1.60	0.00	0.00	1.70	
8	3.00	17.70	39.20	160.00	40.80	64.10	136.00	17.70	1.00	0.30	0.00	1.70	
9	1.40	7.40	40.80	128.00	36.00	58.70	68.60	17.70	0.70	1.80	0.00	1.70	
10	2.60	12.80	36.00	70.40	32.00	69.50	51.20	17.70	0.30	0.80	0.00	1.70	
11	3.60	10.20	21.90	43.20	27.20	55.20	62.30	17.70	0.30	0.90	0.00	1.60	
12	3.40	2.80	74.90	34.40	24.80	56.00	47.20	20.50	0.30	0.10	0.00	1.60	
13	3.40	7.40	61.40	35.20	33.60	71.30	52.00	20.50	0.00	0.00	0.00	1.60	
14	3.20	5.40	28.80	34.40	38.40	53.60	53.60	20.50	0.00	0.00	0.00	1.60	
15	3.80	3.80	23.30	33.60	32.80	58.70	48.00	19.10	0.00	0.00	0.00	1.60	
16	4.00	8.20	19.10	28.00	44.80	89.30	67.70	19.10	0.00	0.00	0.00	1.60	
17	3.80	30.40	17.70	24.80	126.00	150.00	74.00	23.30	0.00	0.00	0.00	1.60	
18	5.20	19.10	40.80	30.40	192.00	217.00	61.40	19.80	0.20	0.00	0.00	1.50	
19	3.40	19.80	53.60	39.20	116.00	282.80	50.40	16.40	0.00	0.00	0.00	1.50	
20	2.00	17.00	56.90	50.40	72.20	189.00	43.20	15.80	0.00	0.00	0.30	1.50	
21	1.80	16.40	40.00	48.00	45.60	122.00	54.40	14.60	0.00	0.00	0.60	1.50	
22	0.70	21.20	23.30	45.60	121.00	86.60	69.50	14.00	0.00	0.00	0.80	1.50	
23	0.40	27.20	20.50	38.40	178.00	129.00	77.60	11.60	0.10	0.00	1.40	1.40	
24	0.10	18.40	19.10	34.40	184.00	205.00	74.90	12.20	0.20	0.00	1.70	1.40	
25	1.10	13.40	18.40	27.20	114.00	191.00	69.50	12.80	0.00	0.00	1.60	1.30	
26	0.50	10.20	12.80	23.30	100.00	169.00	111.00	12.20	0.00	0.00	1.60	1.40	
27	0.10	8.60	10.60	21.20	86.60	196.00	61.40	10.20	0.00	0.00	1.50	1.40	
28	0.20	7.00	11.60	19.10	70.40	209.00	43.20	7.40	0.00	0.00	1.30	1.50	
29	0.90	2.60	9.80	18.40	47.20	154.00	35.20	5.80	0.00	0.00		1.50	
30	1.90	4.60	8.20	17.70	47.20	93.00	29.60	5.00	0.00	0.00		1.60	
31		19.10		54.40	88.40		27.20		0.00	0.00		1.70	
<hr/>													
Total	130.30	420.10	986.10	1346.90	2131.40	3765.00	2056.70	489.50	19.50	3.90	10.80	46.30	11406.50 CMSDAY
Mean	4.30	13.60	32.90	43.40	68.80	125.50	66.30	16.30	0.60	0.10	0.40	1.50	31.30 CMS
Max	18.80	40.80	74.90	160.00	192.00	282.80	170.00	24.00	4.20	1.80	1.70	1.80	282.80 CMS
Min	0.10	1.30	8.20	11.60	22.60	53.60	27.20	5.00	0.00	0.00	0.00	0.90	0.00 CMS
Runoff	11.26	36.30	85.20	116.37	184.15	325.30	177.70	42.29	1.68	0.34	0.93	4.00	985.52 MCM
Momentary Peak	299.60 CMS. at 147.03 m. (MSL.) at 04.00 Hours , on Sep 19 , 2009												
Runoff Yield	4.03 Liters/Second/Square KM.			Momentary Peak Yield				38.663 Liters/Second/Square KM.					

WATER YEAR : 2009**Yom RIVER BASIN****Yom River at Ban Wang Mai Khon , Sukhothai (Y.3A)**

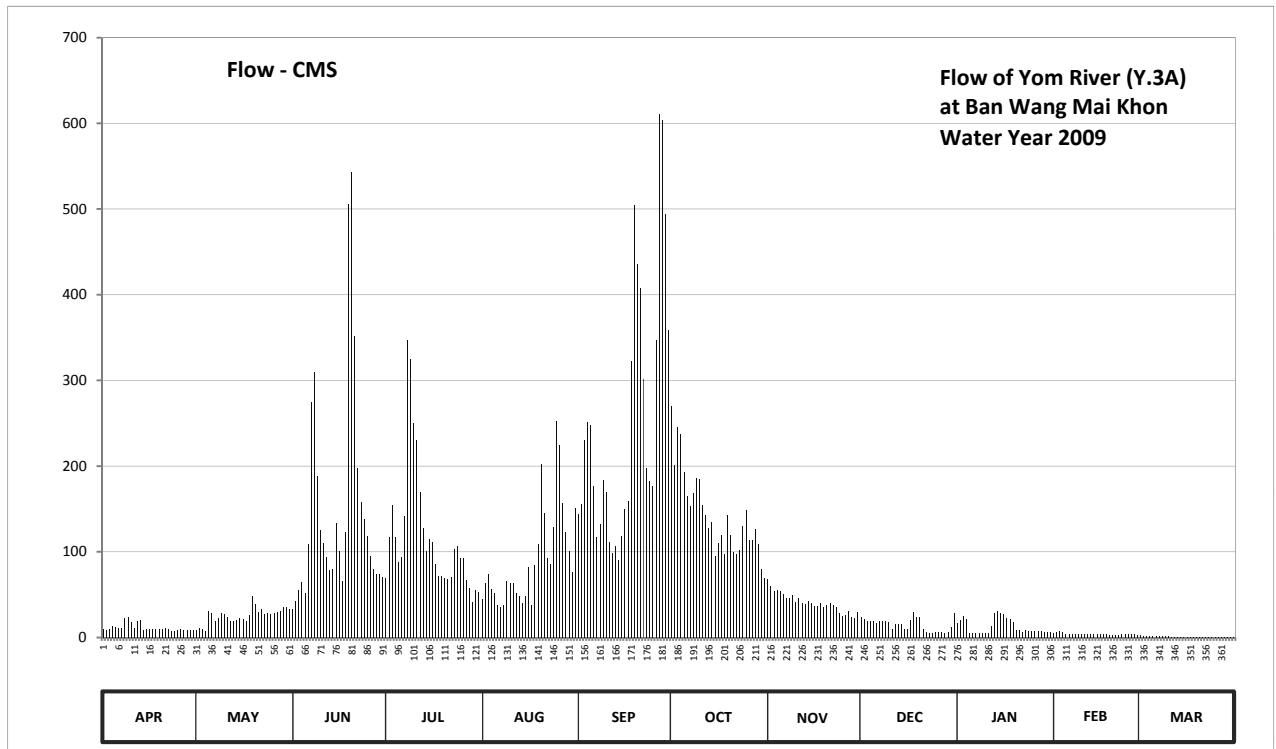
Lat 17 - 18 - 28 N Long 99 - 49 - 44 E

Location : on right bank about 100 meters downstream from the bridge on highway.

	Ban	Wang Mai Khon	Amphoe	Sawankhalok	Changwat	Sukhothai
Drainage Area	13,331	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+51.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of automatic gage building.				Elevation	+65.350 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 means of 5 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1967 to date					
Rated by Flot	-					
Rated by Current Meter	1967 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.87	50.83	51.47	52.18	51.69	53.29	54.79	52.17	51.23	51.04	50.64	50.55	
2	50.83	50.89	51.64	52.94	52.08	53.44	54.00	52.00	51.15	51.13	50.73	50.48	
3	50.87	50.85	51.91	53.42	52.28	54.35	54.51	51.89	51.09	51.26	50.75	50.48	
4	50.96	50.75	52.10	52.94	51.94	54.58	54.43	51.91	51.10	51.17	50.73	50.47	
5	50.92	51.40	51.83	52.53	51.84	54.54	53.90	51.88	51.10	50.69	50.61	50.46	
6	50.89	51.35	52.83	52.61	51.55	53.69	53.55	51.81	51.05	50.67	50.61	50.46	
7	50.90	51.11	54.84	53.26	51.52	52.95	53.40	51.71	51.09	50.67	50.59	50.46	
8	51.18	51.19	55.19	55.55	51.55	53.15	53.60	51.71	51.10	50.64	50.59	50.46	
9	51.22	51.33	53.84	55.34	52.12	53.78	53.81	51.78	51.09	50.63	50.62	50.46	
10	51.08	51.30	53.05	54.57	52.08	53.61	53.80	51.62	51.08	50.63	50.62	50.46	
11	50.89	51.23	52.85	54.35	52.06	52.87	53.42	51.73	50.87	50.63	50.62	50.45	
12	51.12	51.10	52.61	53.61	51.85	52.68	53.28	51.61	51.02	50.97	50.61	50.45	
13	51.13	51.12	52.38	53.08	51.76	52.79	53.09	51.59	51.01	51.33	50.62	50.45	
14	50.83	51.14	52.40	52.71	51.60	52.56	53.17	51.64	51.01	51.39	50.60	50.45	
15	50.84	51.20	53.16	52.91	51.77	52.97	52.63	51.60	50.87	51.35	50.60	50.45	
16	50.85	51.17	52.72	52.87	52.43	53.36	52.85	51.53	50.88	51.32	50.61	50.44	
17	50.86	51.12	52.13	52.50	51.55	53.48	52.98	51.54	51.13	51.18	50.60	50.44	
18	50.86	51.27	53.02	52.24	52.47	55.31	52.66	51.61	51.37	51.15	50.60	50.44	
19	50.87	51.77	57.00	52.24	52.83	56.99	53.27	51.50	51.23	51.07	50.57	50.44	
20	50.87	51.59	57.34	52.18	54.02	56.36	52.98	51.56	51.21	50.82	50.57	50.44	
21	50.89	51.38	55.60	52.17	53.30	56.10	52.70	51.60	50.88	50.82	50.56	50.44	
22	50.85	51.46	53.95	52.20	52.60	55.11	52.67	51.56	50.70	50.74	50.57	50.44	
23	50.76	51.32	53.47	52.74	52.50	53.95	52.73	51.52	50.66	50.82	50.60	50.44	
24	50.76	51.33	53.22	52.80	53.10	53.76	53.11	51.35	50.64	50.78	50.60	50.44	
25	50.82	51.31	52.96	52.60	54.59	53.69	53.34	51.24	50.70	50.80	50.59	50.44	
26	50.85	51.35	52.63	52.60	54.28	55.55	52.90	51.28	50.74	50.75	50.58	50.44	
27	50.83	51.36	52.39	52.15	53.45	57.91	52.89	51.39	50.71	50.75	50.58	50.44	
28	50.83	51.41	52.27	51.95	53.03	57.85	53.07	51.22	50.69	50.75	50.57	50.43	
29	50.82	51.52	52.28	51.62	52.71	56.89	52.83	51.20	50.71	50.70		50.43	
30	50.81	51.50	52.22	51.91	52.33	55.66	52.40	51.38	50.94	50.74		50.43	
31		51.47		51.87	53.38		52.18		51.33	50.71		50.43	
Mean	50.90	51.26	53.18	52.86	52.46	54.44	53.26	51.60	50.98	50.91	50.61	50.45	
Max	51.22	51.77	57.34	55.55	54.59	57.91	54.79	52.17	51.37	51.39	50.75	50.55	57.91
Min	50.76	50.75	51.47	51.62	51.52	52.56	52.18	51.20	50.64	50.63	50.56	50.43	50.43
Annual Max Momentary Gage Height	58.15		m. (MSL.) ,				at 06.00 Hours , on Sep 28 , 2009						
Zero Gage at Bottom Elevation	51.00		m. (MSL.) ,			River Bed	47.60	m. (MSL)					
Left Bank Elevation		59.89		m. (MSL.) ,									
Right Bank Elevation		59.68		m. (MSL.) ,		Drainage Area	13331	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.10	8.90	33.80	69.00	44.50	144.20	270.10	68.50	24.20	16.60	4.80	3.00		
2	8.90	10.70	42.00	116.80	64.00	156.20	201.00	60.00	21.00	20.20	6.60	1.60		
3	10.10	9.50	55.50	154.60	74.00	230.50	244.90	54.50	18.60	25.40	7.00	1.60		
4	13.40	7.00	65.00	116.80	57.00	251.20	237.70	55.50	19.00	21.80	6.60	1.40		
5	11.80	31.00	51.50	88.10	52.00	247.60	193.00	54.00	19.00	5.80	4.20	1.20		
6	10.70	29.00	109.10	93.70	37.50	176.20	165.00	50.50	17.00	5.40	4.20	1.20		
7	11.00	19.40	275.00	141.80	36.00	117.50	153.00	45.50	18.60	5.40	3.80	1.20		
8	22.20	22.60	310.00	346.50	37.50	133.00	169.00	45.50	19.00	4.80	3.80	1.20		
9	23.80	28.20	188.20	325.00	66.00	183.40	185.80	49.00	18.60	4.60	4.40	1.20		
10	18.20	27.00	125.00	250.30	64.00	169.80	185.00	41.00	18.20	4.60	4.40	1.20		
11	10.70	24.20	110.50	230.50	63.00	111.90	154.60	46.50	10.10	4.60	4.40	1.00		
12	19.80	19.00	93.70	169.80	52.50	98.60	143.40	40.50	15.80	13.80	4.20	1.00		
13	20.20	19.80	79.00	127.40	48.00	106.30	128.20	39.50	15.40	28.20	4.40	1.00		
14	8.90	20.60	80.00	100.70	40.00	90.20	134.60	42.00	15.40	30.60	4.00	1.00		
15	9.20	23.00	133.80	114.70	48.50	118.90	95.10	40.00	10.10	29.00	4.00	1.00		
16	9.50	21.80	101.40	111.90	81.80	149.80	110.50	36.50	10.40	27.80	4.20	0.80		
17	9.80	19.80	66.50	86.00	37.50	159.40	119.60	37.00	20.20	22.20	4.00	0.80		
18	9.80	25.80	122.60	72.00	84.20	322.00	97.20	40.50	29.80	21.00	4.00	0.80		
19	10.10	48.50	506.00	72.00	109.10	504.90	142.60	35.00	24.20	17.80	3.40	0.80		
20	10.10	39.50	543.40	69.00	202.60	435.60	119.60	38.00	23.40	8.60	3.40	0.80		
21	10.70	30.20	352.00	68.50	145.00	407.00	100.00	40.00	10.40	8.60	3.20	0.80		
22	9.50	33.40	197.00	70.00	93.00	302.00	97.90	38.00	6.00	6.80	3.40	0.80		
23	7.20	27.80	158.60	102.80	86.00	197.00	102.10	36.00	5.20	8.60	4.00	0.80		
24	7.20	28.20	138.60	107.00	129.00	181.80	129.80	29.00	4.80	7.60	4.00	0.80		
25	8.60	27.40	118.20	93.00	252.10	176.20	148.20	24.60	6.00	8.00	3.80	0.80		
26	9.50	29.00	95.10	93.00	224.20	346.50	114.00	26.20	6.80	7.00	3.60	0.80		
27	8.90	29.40	79.50	67.50	157.00	611.20	113.30	30.60	6.20	7.00	3.60	0.80		
28	8.90	31.40	73.50	57.50	123.40	604.00	126.60	23.80	5.80	7.00	3.40	0.60		
29	8.60	36.00	74.00	41.00	100.70	493.90	109.10	23.00	6.20	6.00		0.60		
30	8.30	35.00	71.00	55.50	76.50	358.60	80.00	30.20	12.60	6.80		0.60		
31	33.80			53.50	151.40		69.00		28.20	6.20		0.60		
Total	345.70	796.90	4449.50	3665.90	2838.00	7585.40	4439.90	1220.90	466.20	397.80	118.80	31.80	26356.80	CMSDAY
Mean	11.52	25.71	148.32	118.25	91.55	252.85	143.22	40.70	15.04	12.83	4.24	1.03	72.21	CMS
Max	23.80	48.50	543.40	346.50	252.10	611.20	270.10	68.50	29.80	30.60	7.00	3.00	611.20	CMS
Min	7.20	7.00	33.80	41.00	36.00	90.20	69.00	23.00	4.80	4.60	3.20	0.60	0.60	CMS
Runoff	29.87	68.85	384.44	316.73	245.20	655.38	383.61	105.49	40.28	34.37	10.26	2.75	2277.23	MCM
Momentary Peak	640.00 CMS. at 58.15 m. (MSL) at 06.00 Hours , on Sep 28 , 2009													
Runoff Yield	5.42 Liters/Second/Square KM.			Momentary Peak Yield				48,008 Liters/Second/Square KM.						

WATER YEAR : 2009**Yom RIVER BASIN****Yom River at Ban Kaeng Luang , Sukhothai (Y.6)**

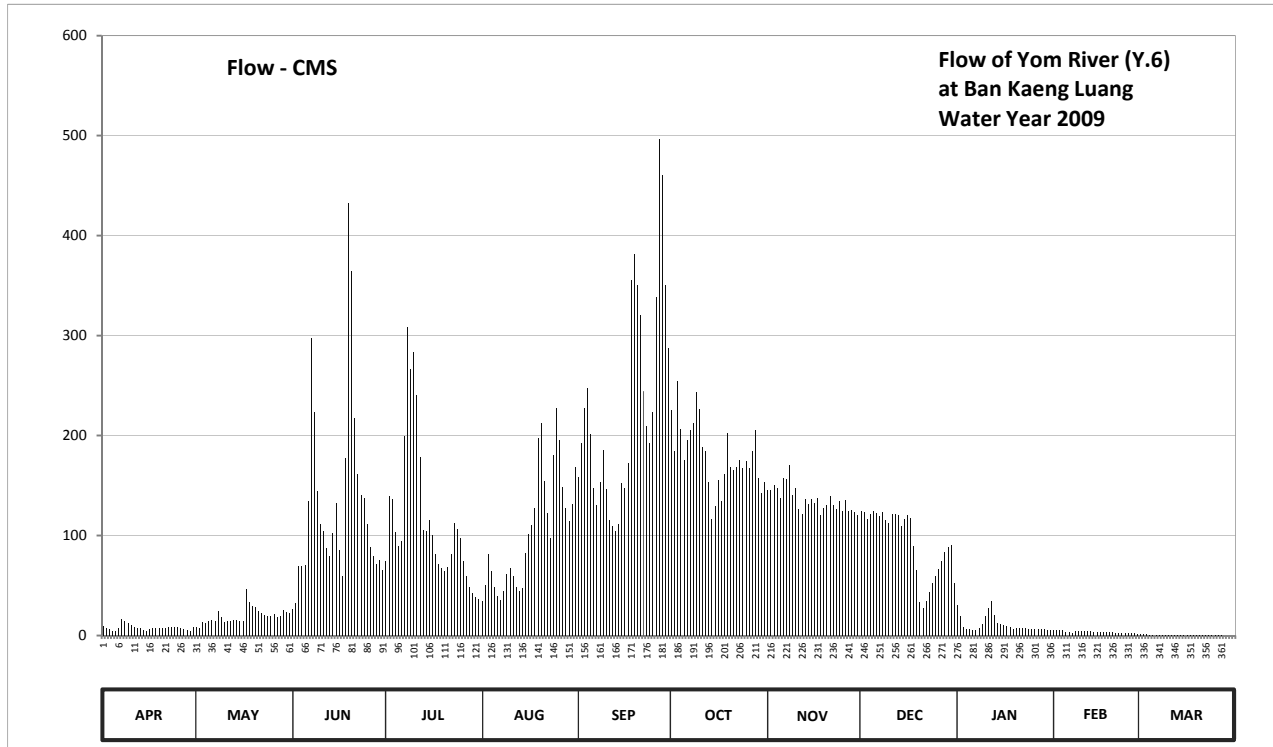
Lat 17 - 26 - 05 N Long 99 - 47 - 30 E

Location : on left bank about 150 meters upstream from Kaeng Luang.

	Ban Kaeng Luang	Amphoe Si Satchanalai	Changwat Sukhothai
Drainage Area	12,769 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+59.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near automatic gage building	Elevation	+68.928 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 means of 5 readings		
Period of Available Gage Records	1952 to date		
Rating Operation			
Period of Rating	1952 to date		
Rated by Flot	-		
Rated by Current Meter	1952 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.58	59.54	60.18	60.85	60.34	61.77	62.27	61.65	61.44	60.26	59.29	58.84	
2	59.50	59.48	60.30	61.59	60.57	62.04	61.98	61.65	61.43	59.97	59.29	58.82	
3	59.44	59.73	60.79	61.56	60.94	62.29	62.48	61.69	61.35	59.55	59.29	58.80	
4	59.40	59.72	60.79	61.19	60.74	62.43	62.14	61.67	61.41	59.46	59.24	58.78	
5	59.36	59.76	60.81	61.03	60.54	62.10	61.91	61.57	61.44	59.45	59.02	58.76	
6	59.49	59.82	61.54	61.09	60.42	61.67	62.06	61.76	61.42	59.43	59.07	58.75	
7	59.88	59.76	62.79	62.09	60.36	61.50	62.13	61.75	61.38	59.43	58.99	58.75	
8	59.79	60.12	62.26	62.87	60.49	61.72	62.18	61.87	61.43	59.48	59.10	58.75	
9	59.70	59.94	61.64	62.57	60.70	61.99	62.40	61.60	61.34	59.67	59.14	58.75	
10	59.62	59.74	61.29	62.69	60.77	61.66	62.28	61.67	61.30	59.98	59.15	58.75	
11	59.54	59.76	61.21	62.38	60.67	61.33	62.01	61.46	61.41	60.20	59.15	58.75	
12	59.49	59.77	61.00	61.93	60.54	61.27	61.98	61.41	61.41	60.34	59.16	58.75	
13	59.48	59.82	60.91	61.22	60.48	61.20	61.72	61.56	61.39	60.00	59.12	58.75	
14	59.43	59.81	61.18	61.21	60.53	61.29	61.35	61.51	61.27	59.69	59.08	58.74	
15	59.39	59.79	61.52	61.33	60.95	61.71	61.49	61.56	61.35	59.66	59.08	58.74	
16	59.46	59.77	60.98	61.16	61.17	61.67	61.74	61.52	61.39	59.61	59.07	58.74	
17	59.51	60.51	60.68	60.94	61.28	61.88	61.54	61.57	61.36	59.57	59.05	58.73	
18	59.49	60.31	61.92	60.82	61.47	63.20	61.79	61.39	61.03	59.52	59.04	58.73	
19	59.48	60.24	63.67	60.77	62.07	63.37	62.11	61.47	60.75	59.47	59.03	58.73	
20	59.49	60.23	63.26	60.73	62.18	63.17	61.85	61.50	60.32	59.47	59.00	58.73	
21	59.49	60.12	62.22	60.78	61.73	62.95	61.83	61.59	60.20	59.44	58.98	58.73	
22	59.52	60.06	61.79	60.93	61.42	62.41	61.85	61.50	60.34	59.42	58.96	58.73	
23	59.56	60.00	61.60	61.30	61.12	62.16	61.91	61.46	60.47	59.40	58.93	58.72	
24	59.53	59.98	61.57	61.23	61.95	62.04	61.84	61.54	60.60	59.38	58.93	58.72	
25	59.54	59.98	61.29	61.12	62.29	62.26	61.90	61.44	60.68	59.36	58.93	58.71	
26	59.51	60.05	61.02	60.85	62.06	63.08	61.84	61.55	60.76	59.34	58.91	58.71	
27	59.47	59.95	60.91	60.67	61.68	64.00	61.98	61.44	60.85	59.34	58.90	58.71	
28	59.41	59.99	60.82	60.54	61.47	63.82	62.13	61.45	60.96	59.32	58.88	58.70	
29	59.37	60.16	60.86	60.46	61.32	63.17	61.76	61.43	61.02	59.32		58.70	
30	59.55	60.11	60.75	60.40	61.51	62.72	61.62	61.40	61.04	59.29		58.70	
31		60.07		60.37	61.85		61.72		60.59	59.27		58.70	
Mean	59.52	59.94	61.39	61.25	61.15	62.26	61.93	61.55	61.07	59.58	59.06	58.74	
Max	59.88	60.51	63.67	62.87	62.29	64.00	62.48	61.87	61.44	60.34	59.29	58.84	64.00
Min	59.36	59.48	60.18	60.37	60.34	61.20	61.35	61.39	60.20	59.27	58.88	58.70	58.70
Annual Max Momentary Gage Height	64.14		m. (MSL.) ,			at 23.00 Hours , on Sep 27 , 2009							
Zero Gage at Bottom Elevation	59.00		m. (MSL.) ,			River Bed	57.63	m. (MSL)					
Left Bank Elevation	68.80		m. (MSL.) ,										
Right Bank Elevation	68.29		m. (MSL.) ,			Drainage Area	12769	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.50	8.50	26.30	74.25	34.70	158.70	224.80	145.50	124.80	30.30	5.90	1.40		
2	7.50	7.00	32.50	139.05	50.75	192.60	184.50	145.50	123.85	19.25	5.90	1.20		
3	6.00	13.25	69.15	136.20	81.90	227.60	254.20	149.90	116.75	8.75	5.90	1.00		
4	5.00	13.00	69.15	103.15	64.90	247.20	206.60	147.70	121.95	6.50	5.40	0.80		
5	4.00	14.00	70.85	89.55	48.50	201.00	175.75	137.15	124.80	6.25	3.20	0.60		
6	7.25	15.50	134.30	94.65	39.50	147.70	195.40	157.60	122.90	5.75	3.70	0.50		
7	17.00	14.00	297.60	199.60	35.80	130.50	205.20	156.50	119.30	5.75	2.90	0.50		
8	14.75	24.20	223.40	308.80	44.75	153.20	212.20	170.75	123.85	7.00	4.00	0.50		
9	12.50	18.50	144.40	266.80	61.50	185.75	243.00	140.00	115.90	11.75	4.40	0.50		
10	10.50	13.50	111.65	283.60	67.45	146.60	226.20	147.70	112.50	19.50	4.50	0.50		
11	8.50	14.00	104.85	240.20	58.95	115.05	188.40	126.70	121.95	27.00	4.50	0.50		
12	7.25	14.25	87.00	178.25	48.50	109.95	184.50	121.95	121.95	34.70	4.60	0.50		
13	7.00	15.50	79.35	105.70	44.00	104.00	153.20	136.20	120.15	20.00	4.20	0.50		
14	5.75	15.25	102.30	104.85	47.75	111.65	116.75	131.45	109.95	12.25	3.80	0.40		
15	4.75	14.75	132.40	115.05	82.75	152.10	129.55	136.20	116.75	11.50	3.80	0.40		
16	6.50	14.25	85.30	100.60	101.45	147.70	155.40	132.40	120.15	10.25	3.70	0.40		
17	7.75	46.25	59.80	81.90	110.80	172.00	134.30	137.15	117.60	9.25	3.50	0.30		
18	7.25	33.05	177.00	71.70	127.65	355.00	160.90	120.15	89.55	8.00	3.40	0.30		
19	7.00	29.20	432.60	67.45	196.80	381.20	202.40	127.65	65.75	6.75	3.30	0.30		
20	7.25	28.65	364.00	64.05	212.20	350.80	168.25	130.50	33.60	7.70	3.00	0.30		
21	7.25	24.20	217.80	68.30	154.30	320.00	165.75	139.05	27.00	7.40	2.80	0.30		
22	8.00	22.10	160.90	81.05	122.90	244.40	168.25	130.50	34.70	7.20	2.60	0.30		
23	9.00	20.00	140.00	112.50	97.20	209.40	175.75	126.70	43.25	7.00	2.30	0.20		
24	8.25	19.50	137.15	106.55	180.75	192.60	167.00	134.30	53.00	6.80	2.30	0.20		
25	8.50	19.50	111.65	97.20	227.60	223.40	174.50	124.80	59.80	6.60	2.30	0.10		
26	7.75	21.75	88.70	74.25	195.40	338.20	167.00	135.25	66.60	6.40	2.10	0.10		
27	6.75	18.75	79.35	58.95	148.80	497.00	184.50	124.80	74.25	6.40	2.00	0.10		
28	5.25	19.75	71.70	48.50	127.65	461.00	205.20	125.75	83.60	6.20	1.80	0.00		
29	4.25	25.60	75.10	42.50	114.20	350.80	157.60	123.85	88.70	6.20	0.00	0.00		
30	8.75	23.85	65.75	38.00	131.45	287.80	142.20	121.00	90.40	5.90	0.00	0.00		
31	22.45		36.35	168.25		153.20		52.25	5.70			0.00		
Total	236.75	604.05	3952.00	3589.55	3229.10	6914.90	5582.45	4084.65	2897.55	340.00	101.80	12.70	31545.50	CMSDAY
Mean	7.89	19.49	131.73	115.79	104.16	230.50	180.08	136.15	93.47	10.97	3.64	0.41	86.43	CMS
Max	17.00	46.25	432.60	308.80	227.60	497.00	254.20	170.75	124.80	34.70	5.90	1.40	497.00	CMS
Min	4.00	7.00	26.30	36.35	34.70	104.00	116.75	120.15	27.00	5.70	1.80	0.00	0.00	CMS
Runoff	20.46	52.19	341.45	310.14	278.99	597.45	482.32	352.91	250.35	29.38	8.80	1.10	2725.53	MCM
Momentary Peak	525.00 CMS. at 64.14 m. (MSL) at 23.00 Hours , on Sep 27 , 2009													
Runoff Yield	6.77 Liters/Second/Square KM.				Momentary Peak Yield				41.115 Liters/Second/Square KM.					

WATER YEAR : 2009

Yom RIVER BASIN

Nam Ngao at Ban Luang Nua , Lampang (Y.13A)

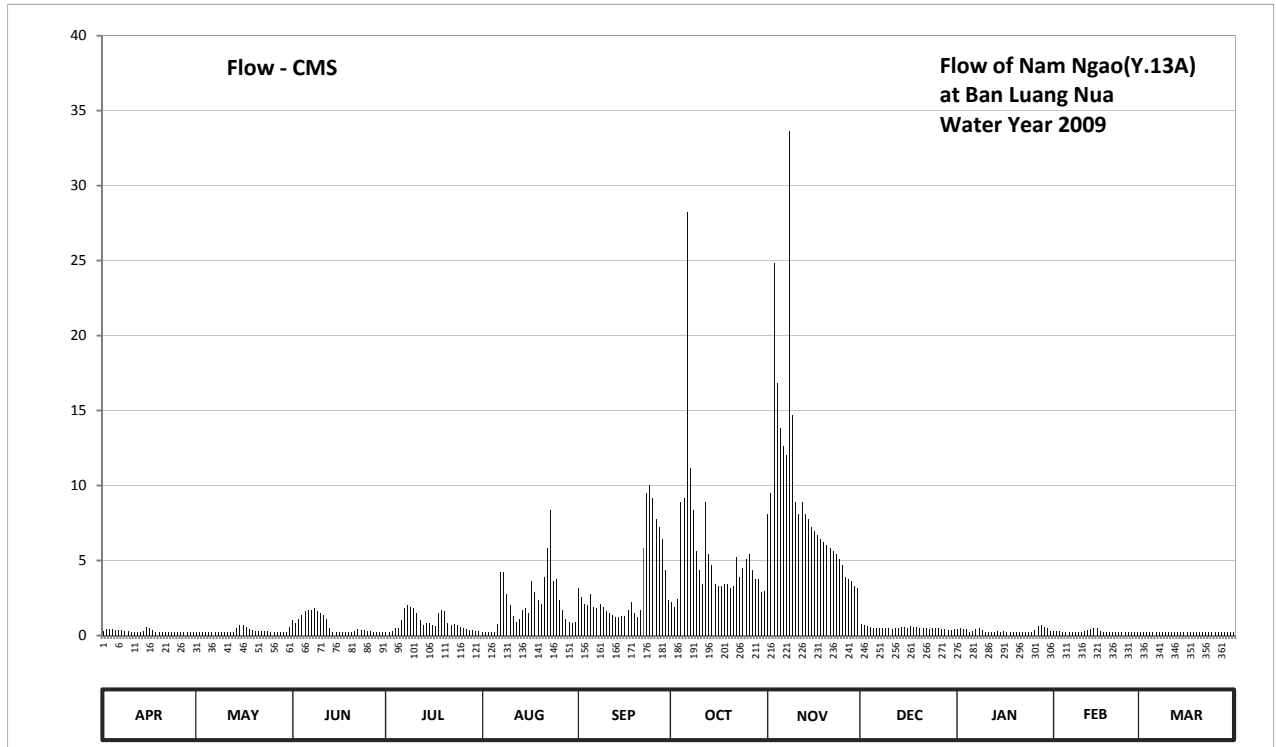
Lat 18 - 45 - 32 N Long 99 - 58 - 33 E

Location : on left bank at the bridge on highway about 1.6 kilometers upstream from station Y.13

	Ban	Luang Nua	Amphoe	Ngao	Changwat	Lampang
Drainage Area	381	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+268.300 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+272.644 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1988 - 1995, 2001 to date					
Rating Operation						
Period of Rating	1988 - 1995, 2001 to date					
Rated by Flot	-					
Rated by Current Meter	1988 - 1995, 2001 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.51	268.45	268.61	268.48	268.50	268.81	268.73	269.06	268.58	268.53	268.51	268.45	
2	268.53	268.46	268.59	268.49	268.49	268.76	268.70	269.11	268.57	268.54	268.51	268.44	
3	268.53	268.48	268.62	268.51	268.49	268.72	268.75	269.57	268.56	268.53	268.51	268.44	
4	268.53	268.48	268.65	268.54	268.49	268.71	269.09	269.36	268.55	268.53	268.50	268.43	
5	268.52	268.48	268.67	268.54	268.49	268.78	269.10	269.26	268.54	268.49	268.48	268.44	
6	268.52	268.50	268.68	268.61	268.58	268.70	269.65	269.22	268.54	268.51	268.47	268.43	
7	268.52	268.49	268.68	268.69	268.88	268.69	269.17	269.20	268.54	268.53	268.47	268.44	
8	268.51	268.48	268.69	268.71	268.88	268.72	269.07	269.77	268.54	268.54	268.48	268.44	
9	268.51	268.47	268.67	268.70	268.78	268.70	268.96	269.29	268.54	268.52	268.50	268.45	
10	268.50	268.46	268.66	268.69	268.71	268.67	268.89	269.09	268.54	268.49	268.48	268.44	
11	268.50	268.46	268.65	268.66	268.64	268.66	268.83	269.06	268.53	268.48	268.51	268.44	
12	268.49	268.47	268.62	268.61	268.60	268.65	269.09	269.09	268.54	268.48	268.52	268.46	
13	268.49	268.50	268.54	268.57	268.62	268.63	268.95	269.06	268.54	268.50	268.53	268.45	
14	268.51	268.54	268.48	268.59	268.68	268.63	268.91	269.05	268.55	268.51	268.54	268.45	
15	268.55	268.57	268.45	268.59	268.69	268.64	268.83	269.03	268.55	268.50	268.54	268.44	
16	268.54	268.57	268.47	268.57	268.66	268.64	268.82	269.02	268.54	268.51	268.51	268.44	
17	268.52	268.55	268.48	268.56	268.84	268.68	268.82	269.01	268.56	268.50	268.49	268.44	
18	268.49	268.53	268.48	268.66	268.79	268.73	268.83	269.00	268.55	268.50	268.49	268.45	
19	268.47	268.52	268.50	268.68	268.74	268.66	268.83	268.99	268.55	268.48	268.48	268.44	
20	268.45	268.51	268.50	268.67	268.72	268.63	268.81	268.98	268.54	268.49	268.47	268.45	
21	268.44	268.51	268.51	268.59	268.86	268.68	268.82	268.97	268.54	268.48	268.46	268.45	
22	268.43	268.51	268.53	268.57	268.97	268.97	268.94	268.96	268.54	268.47	268.45	268.45	
23	268.42	268.51	268.52	268.58	269.07	269.11	268.86	268.95	268.53	268.48	268.44	268.44	
24	268.41	268.51	268.52	268.57	268.84	269.13	268.90	268.93	268.54	268.48	268.44	268.43	
25	268.42	268.46	268.51	268.55	268.85	269.10	268.93	268.91	268.54	268.47	268.45	268.43	
26	268.45	268.46	268.51	268.54	268.74	269.05	268.95	268.86	268.54	268.52	268.45	268.43	
27	268.46	268.45	268.50	268.53	268.68	269.03	268.89	268.85	268.53	268.56	268.45	268.43	
28	268.46	268.46	268.50	268.52	268.62	269.00	268.85	268.84	268.53	268.57	268.45	268.43	
29	268.45	268.45	268.49	268.52	268.60	268.89	268.85	268.82	268.52	268.55		268.45	
30	268.45	268.49	268.48	268.51	268.59	268.74	268.79	268.81	268.52	268.54		268.48	
31		268.55		268.51	268.60		268.80		268.53	268.51		268.47	
Mean	268.49	268.49	268.56	268.58	268.70	268.78	268.92	269.07	268.54	268.51	268.49	268.44	
Max	268.55	268.57	268.69	268.71	269.07	269.13	269.65	269.77	268.58	268.57	268.54	268.48	269.77
Min	268.41	268.45	268.45	268.48	268.49	268.63	268.70	268.81	268.52	268.47	268.44	268.43	268.41
Annual Max Momentary Gage Height		270.20		m. (MSL.) ,									at 09.00 Hours , on Oct 6 , 2009
Zero Gage at Bottom Elevation		268.30		m. (MSL.) ,		River Bed	267.45		M (MSL)				
Left Bank Elevation		274.80		m. (MSL.) ,									
Right Bank Elevation		274.80		m. (MSL.) ,		Drainage Area	381		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.23	1.00	0.24	0.25	3.15	2.23	8.08	0.77	0.44	0.32	0.23	
2	0.44	0.23	0.83	0.24	0.24	2.56	1.90	9.48	0.71	0.51	0.32	0.22	
3	0.44	0.24	1.10	0.32	0.24	2.12	2.45	24.80	0.64	0.44	0.32	0.22	
4	0.44	0.24	1.40	0.51	0.24	2.01	8.92	16.80	0.57	0.44	0.25	0.21	
5	0.38	0.24	1.60	0.51	0.24	2.78	9.20	13.80	0.51	0.24	0.24	0.22	
6	0.38	0.25	1.70	1.00	0.77	1.90	28.25	12.60	0.51	0.32	0.24	0.21	
7	0.38	0.24	1.70	1.80	4.20	1.80	11.16	12.00	0.51	0.44	0.24	0.22	
8	0.32	0.24	1.80	2.01	4.20	2.12	8.36	33.65	0.51	0.51	0.24	0.22	
9	0.32	0.24	1.60	1.90	2.78	1.90	5.64	14.70	0.51	0.38	0.25	0.23	
10	0.25	0.23	1.50	1.80	2.01	1.60	4.35	8.92	0.51	0.24	0.24	0.22	
11	0.25	0.23	1.40	1.50	1.30	1.50	3.45	8.08	0.44	0.24	0.32	0.22	
12	0.24	0.24	1.10	1.00	0.90	1.40	8.92	8.92	0.51	0.24	0.38	0.23	
13	0.24	0.25	0.51	0.71	1.10	1.20	5.45	8.08	0.51	0.25	0.44	0.23	
14	0.32	0.51	0.24	0.83	1.70	1.20	4.69	7.80	0.57	0.32	0.51	0.23	
15	0.57	0.71	0.23	0.83	1.80	1.30	3.45	7.24	0.57	0.25	0.51	0.22	
16	0.51	0.71	0.24	0.71	1.50	1.30	3.30	6.96	0.51	0.32	0.32	0.22	
17	0.38	0.57	0.24	0.64	3.60	1.70	3.30	6.68	0.64	0.25	0.24	0.22	
18	0.24	0.44	0.24	1.50	2.89	2.23	3.45	6.40	0.57	0.25	0.24	0.23	
19	0.24	0.38	0.25	1.70	2.34	1.50	3.45	6.21	0.57	0.24	0.24	0.22	
20	0.23	0.32	0.25	1.60	2.12	1.20	3.15	6.02	0.51	0.24	0.24	0.23	
21	0.22	0.32	0.32	0.83	3.90	1.70	3.30	5.83	0.51	0.24	0.23	0.23	
22	0.21	0.32	0.44	0.71	5.83	5.83	5.26	5.64	0.51	0.24	0.23	0.23	
23	0.21	0.32	0.38	0.77	8.36	9.48	3.90	5.45	0.44	0.24	0.22	0.22	
24	0.21	0.32	0.38	0.71	3.60	10.04	4.50	5.07	0.51	0.24	0.22	0.21	
25	0.21	0.23	0.32	0.57	3.75	9.20	5.07	4.69	0.51	0.24	0.23	0.21	
26	0.23	0.23	0.32	0.51	2.34	7.80	5.45	3.90	0.51	0.38	0.23	0.21	
27	0.23	0.23	0.25	0.44	1.70	7.24	4.35	3.75	0.44	0.64	0.23	0.21	
28	0.23	0.23	0.25	0.38	1.10	6.40	3.75	3.60	0.44	0.71	0.23	0.21	
29	0.23	0.23	0.24	0.38	0.90	4.35	3.75	3.30	0.38	0.57		0.23	
30	0.23	0.24	0.24	0.32	0.83	2.34	2.89	3.15	0.38	0.51		0.24	
31	0.57			0.32	0.90		3.00		0.44	0.32		0.24	
Total	9.10	9.98	22.07	27.29	67.63	100.85	170.29	271.60	16.22	10.89	7.92	6.89	720.73 CMSDAY
Mean	0.30	0.32	0.74	0.88	2.18	3.36	5.49	9.05	0.52	0.35	0.28	0.22	1.97 CMS
Max	0.57	0.71	1.80	2.01	8.36	10.04	28.25	33.65	0.77	0.71	0.51	0.24	33.65 CMS
Min	0.21	0.23	0.23	0.24	0.24	1.20	1.90	3.15	0.38	0.24	0.22	0.21	0.21 CMS
Runoff	0.79	0.86	1.91	2.36	5.84	8.71	14.71	23.47	1.40	0.94	0.68	0.60	62.27 MCM
Momentary Peak	58.00 CMS. at 270.20 m. (MSL.) at 09.00 Hours , on Oct 6 , 2009												
Runoff Yield	5.18 Liters/Second/Square KM.			Momentary Peak Yield			152.231 Liters/Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Don Rabiang , Sukhothai (Y.14)

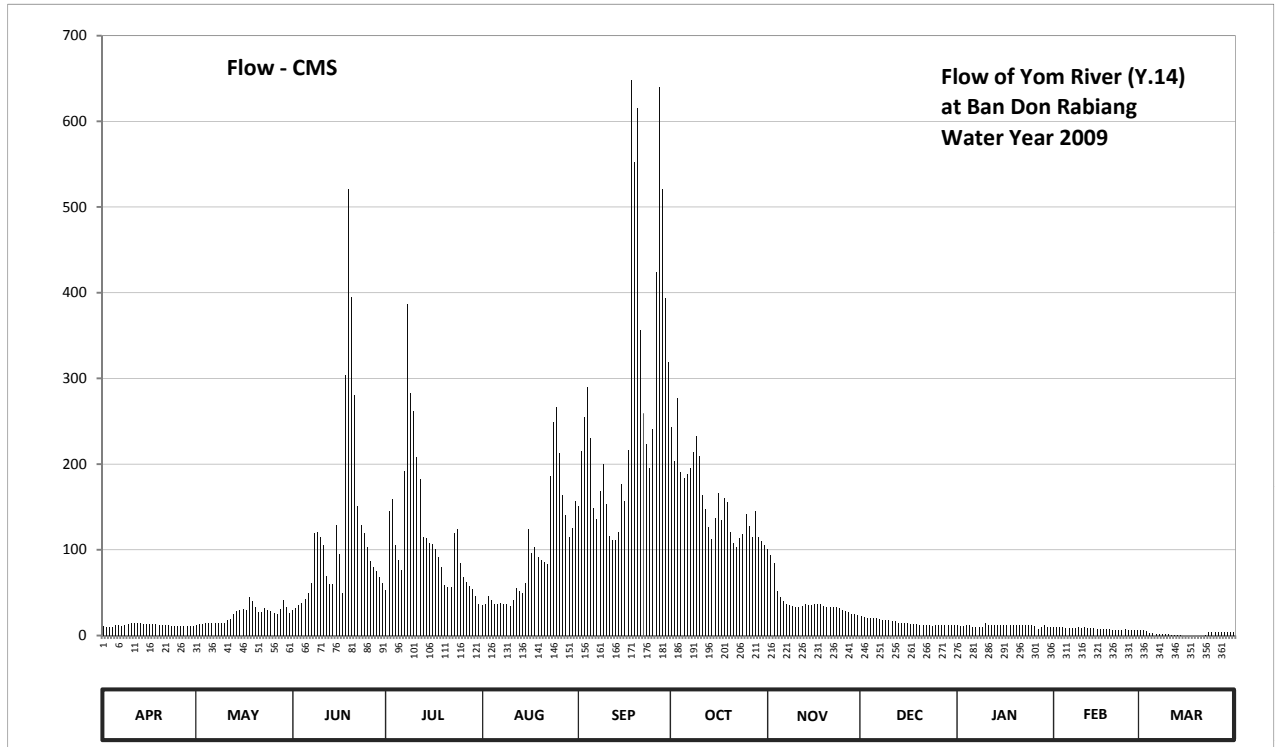
Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

	Ban Don Rabiang	Amphoe Sri Satchanalai	Changwat Sukhothai
Drainage Area	12,100 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+65.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of gage observer's house.	Elevation	+78.363 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 means of 5 readings		
Period of Available Gage Records	1964 to date		
Rating Operation			
Period of Rating	1964 to date		
Rated by Flot	-		
Rated by Current Meter	1964 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.83	65.88	66.27	66.64	66.37	67.72	68.46	67.21	66.16	65.87	65.80	65.64	
2	65.81	65.91	66.31	67.67	66.39	68.25	68.16	67.13	66.13	65.86	65.79	65.64	
3	65.80	65.93	66.38	67.79	66.53	68.55	68.70	67.03	66.11	65.85	65.78	65.61	
4	65.80	65.96	66.41	67.26	66.46	68.79	68.06	66.63	66.10	65.90	65.78	65.50	
5	65.89	65.99	66.49	67.07	66.40	68.36	68.00	66.52	66.10	65.90	65.76	65.50	
6	65.88	65.99	66.59	66.94	66.39	67.70	68.04	66.45	66.10	65.80	65.75	65.49	
7	65.86	65.97	66.75	68.07	66.41	67.59	68.09	66.40	66.09	65.80	65.74	65.48	
8	65.87	65.96	67.42	69.43	66.40	67.87	68.24	66.37	66.07	65.80	65.76	65.47	
9	65.91	65.99	67.43	68.74	66.39	68.13	68.38	66.36	66.06	65.80	65.77	65.46	
10	65.96	65.99	67.36	68.60	66.36	67.74	68.20	66.33	66.05	66.00	65.76	65.46	
11	65.96	66.06	67.26	68.19	66.47	67.38	67.83	66.33	66.04	65.90	65.77	65.44	
12	65.97	66.09	66.85	67.99	66.67	67.32	67.69	66.36	66.03	65.90	65.75	65.44	
13	65.97	66.20	66.73	67.37	66.62	67.33	67.49	66.40	66.00	65.90	65.74	65.43	
14	65.95	66.25	66.73	67.35	66.59	67.43	67.34	66.38	66.00	65.90	65.73	65.42	
15	65.94	66.27	67.52	67.29	66.75	67.94	67.60	66.38	65.98	65.90	65.69	65.30	
16	65.93	66.29	67.14	67.27	67.46	67.77	67.85	66.40	65.96	65.90	65.69	65.28	
17	65.91	66.28	66.59	67.21	67.16	68.26	67.57	66.40	65.94	65.90	65.69	65.26	
18	65.91	66.52	68.89	67.10	67.24	70.82	67.80	66.39	65.93	65.90	65.68	65.25	
19	65.90	66.45	70.18	66.98	67.10	70.34	67.76	66.36	65.91	65.90	65.68	65.24	
20	65.90	66.33	69.48	66.72	67.07	70.66	67.43	66.34	65.90	65.90	65.66	65.29	
21	65.89	66.24	68.73	66.68	67.04	69.24	67.29	66.34	65.90	65.90	65.65	65.38	
22	65.88	66.24	67.72	66.68	67.02	68.58	67.23	66.33	65.90	65.88	65.65	65.44	
23	65.86	66.32	67.52	67.42	68.02	68.31	67.35	66.33	65.88	65.88	65.65	65.56	
24	65.84	66.28	67.42	67.47	68.50	68.09	67.41	66.31	65.86	65.87	65.68	65.58	
25	65.85	66.26	67.24	67.03	68.63	68.44	67.64	66.27	65.87	65.87	65.67	65.58	
26	65.85	66.22	67.06	66.84	68.23	69.65	67.50	66.25	65.90	65.84	65.66	65.57	
27	65.85	66.20	66.97	66.76	67.83	70.78	67.37	66.24	65.89	65.70	65.66	65.57	
28	65.86	66.29	66.92	66.71	67.63	70.18	67.67	66.20	65.88	65.81	65.65	65.57	
29	65.86	66.46	66.84	66.66	67.36	69.47	67.37	66.20	65.88	65.88		65.57	
30	65.86	66.33	66.75	66.53	67.48	68.99	67.31	66.17	65.87	65.79		65.57	
31		66.22		66.40	67.77		67.26		65.87	65.78		65.56	
Mean	65.89	66.17	67.26	67.32	67.06	68.59	67.74	66.43	65.98	65.86	65.72	65.47	
Max	65.97	66.52	70.18	69.43	68.63	70.82	68.70	67.21	66.16	66.00	65.80	65.64	70.82
Min	65.80	65.88	66.27	66.40	66.36	67.32	67.23	66.17	65.86	65.70	65.65	65.24	65.24
Annual Max Momentary Gage Height	71.10		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	65.10		m. (MSL.) ,			River Bed	63.03	M (MSL)					
Left Bank Elevation	78.18		m. (MSL.) ,										
Right Bank Elevation	75.96		m. (MSL.) ,		Drainage Are	12100	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.75	12.00	29.20	53.00	35.20	150.80	243.10	100.90	23.00	11.75	10.00	6.00	
2	10.25	12.75	31.60	145.05	36.40	215.50	203.80	93.70	21.50	11.50	9.75	6.00	
3	10.00	13.25	35.80	158.85	45.45	255.25	276.50	84.70	20.50	11.25	9.50	5.25	
4	10.00	14.00	37.65	105.40	40.90	289.55	190.80	52.25	20.00	12.50	9.50	2.50	
5	12.25	14.75	42.85	88.30	37.00	229.80	183.00	44.80	20.00	12.50	9.00	2.50	
6	12.00	14.75	49.35	76.90	36.40	148.50	188.20	40.25	20.00	10.00	8.75	2.25	
7	11.50	14.25	61.25	192.10	37.65	136.05	194.70	37.00	19.50	10.00	8.50	2.00	
8	11.75	14.00	119.90	386.95	37.00	168.05	214.20	35.20	18.50	10.00	9.00	1.75	
9	12.75	14.75	120.85	282.30	36.40	199.90	232.40	34.60	18.00	10.00	9.25	1.50	
10	14.00	14.75	114.40	262.00	34.60	153.10	209.00	32.80	17.50	15.00	9.00	1.50	
11	14.00	18.00	105.40	207.70	41.55	116.20	163.45	32.80	17.00	12.50	9.25	1.00	
12	14.25	19.50	69.25	181.85	55.25	110.80	147.35	34.60	16.50	12.50	8.75	1.00	
13	14.25	25.00	59.75	115.30	51.50	111.70	126.55	37.00	15.00	12.50	8.50	0.75	
14	13.75	28.00	59.75	113.50	49.35	120.85	112.60	35.80	15.00	12.50	8.25	0.50	
15	13.50	29.20	129.40	108.10	61.25	176.10	137.00	35.80	14.50	12.50	7.25	0.00	
16	13.25	30.40	94.60	106.30	123.70	156.55	165.75	37.00	14.00	12.50	7.25	0.00	
17	12.75	29.80	49.35	100.90	96.40	216.80	134.15	37.00	13.50	12.50	7.25	0.00	
18	12.75	44.80	304.05	91.00	103.60	648.00	160.00	36.40	13.25	12.50	7.00	0.00	
19	12.50	40.25	521.20	80.30	91.00	552.30	155.40	34.60	12.75	12.50	7.00	0.00	
20	12.50	32.80	395.20	59.00	88.30	616.00	120.85	33.40	12.50	12.50	6.50	0.00	
21	12.25	27.40	280.85	56.00	85.60	356.40	108.10	33.40	12.50	12.50	6.25	0.00	
22	12.00	27.40	150.80	56.00	83.80	259.30	102.70	32.80	12.50	12.00	6.25	1.00	
23	11.50	32.20	129.40	119.90	185.60	223.30	113.50	32.80	12.00	12.00	6.25	4.00	
24	11.00	29.80	119.90	124.65	248.50	194.70	118.95	31.60	11.50	11.75	7.00	4.50	
25	11.25	28.60	103.60	84.70	266.35	240.40	141.60	29.20	11.75	11.75	6.75	4.50	
26	11.25	26.20	87.40	68.40	212.90	423.75	127.50	28.00	12.50	11.00	6.50	4.25	
27	11.25	25.00	79.45	62.00	163.45	640.00	115.30	27.40	12.25	7.50	6.50	4.25	
28	11.50	30.40	75.20	58.25	140.45	521.20	145.05	25.00	12.00	10.25	6.25	4.25	
29	11.50	40.90	68.40	54.50	114.40	393.55	115.30	25.00	12.00	12.00		4.25	
30	11.50	32.80	61.25	45.45	125.60	318.55	109.90	23.50	11.75	9.75		4.25	
31	26.20			37.00	156.55		105.40		11.75	9.50		4.00	
Total	363.75	763.90	3587.05	3681.65	2922.10	8342.95	4862.10	1199.30	475.00	359.50	221.00	73.75	26852.05 CMSDAY
Mean	12.13	24.64	119.57	118.76	94.26	278.10	156.84	39.98	15.32	11.60	7.89	2.38	73.57 CMS
Max	14.25	44.80	521.20	386.95	266.35	648.00	276.50	100.90	23.00	15.00	10.00	6.00	648.00 CMS
Min	10.00	12.00	29.20	37.00	34.60	110.80	102.70	23.50	11.50	7.50	6.25	0.00	0.00 CMS
Runoff	31.43	66.00	309.92	318.10	252.47	720.83	420.09	103.62	41.04	31.06	19.09	6.37	2320.02 MCM
Momentary Peak	705.50 CMS. at 71.10 m. (MSL) at 18.00 Hours , on Sep 18 , 2009												
Runoff Yield	6.08 Liters/Second/Square KM.			Momentary Peak Yield			58.306 /Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Bang Rakam , Phitsanulok (Y.16)

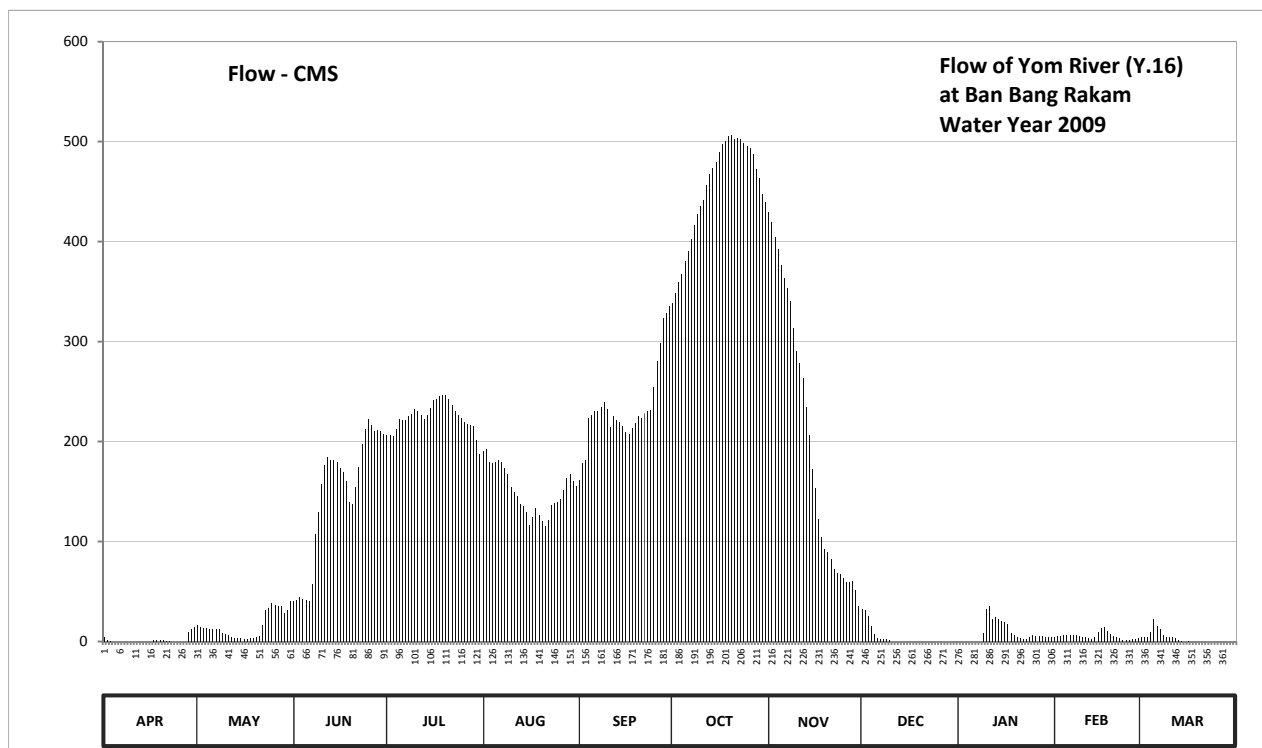
Lat 16 - 45 - 26 N Long 100 - 07 - 15 E

Location : on right bank about 58 meters upstream from the old staff gage.

	Ban Bang Rakam	Amphoe Bang Rakam	Changwat Phitsanulok
Drainage Area	20,201	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+31.630	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 13 meters from the top staff gage.		Elevation +42.630 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 means of 5 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 , 1995 to date		
Rated by Flot	-		
Rated by Current Meter	1967 , 1995 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +35.970 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.51	33.07	33.85	36.83	36.58	36.12	38.45	39.38	33.62	31.88	32.53	32.49	
2	32.27	33.03	33.89	36.83	36.61	36.39	38.56	39.28	33.57	31.88	32.57	32.52	
3	32.22	32.98	33.97	36.82	36.41	36.44	38.67	39.13	33.38	31.88	32.59	32.50	
4	32.17	32.97	33.91	36.92	36.39	37.09	38.75	39.00	33.05	31.87	32.61	32.78	
5	32.14	32.93	33.89	37.08	36.40	37.14	38.88	38.84	32.67	31.87	32.62	33.28	
6	32.15	32.92	33.87	37.06	36.43	37.20	38.98	38.71	32.40	31.87	32.63	33.06	
7	32.14	32.93	34.28	37.06	36.41	37.20	39.10	38.61	32.38	31.87	32.64	32.92	
8	32.11	32.90	35.25	37.12	36.31	37.25	39.25	38.47	32.38	32.08	32.62	32.63	
9	32.10	32.72	35.62	37.16	36.22	37.32	39.36	38.17	32.36	32.73	32.57	32.52	
10	32.10	32.68	36.06	37.23	36.01	37.23	39.43	37.92	32.33	33.62	32.52	32.50	
11	32.10	32.62	36.35	37.20	35.93	36.95	39.50	37.78	32.18	33.71	32.51	32.47	
12	32.08	32.46	36.48	37.15	35.87	37.12	39.65	37.61	32.18	33.27	32.44	32.40	
13	32.07	32.43	36.43	37.08	35.75	37.06	39.75	37.26	32.18	33.33	32.38	32.31	
14	32.07	32.43	36.43	37.15	35.72	37.03	39.82	36.83	32.14	33.29	32.47	32.26	
15	32.07	32.42	36.40	37.24	35.63	36.97	39.87	36.29	32.05	33.23	32.77	32.20	
16	32.16	32.38	36.31	37.34	35.40	36.88	39.98	36.00	32.05	33.18	32.96	32.21	
17	32.28	32.37	36.24	37.36	35.54	36.85	40.06	35.51	32.01	33.11	33.00	32.20	
18	32.28	32.40	36.11	37.39	35.68	36.93	40.09	35.20	31.91	32.70	32.82	32.17	
19	32.27	32.41	35.78	37.41	35.57	37.02	40.14	35.01	31.87	32.60	32.69	32.15	
20	32.27	32.47	35.75	37.40	35.47	37.13	40.15	34.95	31.86	32.53	32.56	32.13	
21	32.26	32.59	36.01	37.36	35.39	37.09	40.11	34.81	31.86	32.43	32.48	32.07	
22	32.21	33.10	36.33	37.28	35.50	37.17	40.12	34.60	31.85	32.39	32.40	32.04	
23	32.08	33.57	36.68	37.20	35.73	37.20	40.11	34.53	31.86	32.36	32.33	32.01	
24	32.07	33.65	36.92	37.14	35.76	37.22	40.07	34.50	31.86	32.47	32.33	31.98	
25	32.07	33.82	37.08	37.10	35.78	37.51	40.03	34.43	31.85	32.60	32.33	31.98	
26	32.06	33.76	36.98	37.03	35.83	37.80	40.02	34.34	31.87	32.59	32.34	31.97	
27	32.15	33.71	36.89	37.01	35.97	38.01	39.95	34.34	31.86	32.59	32.39	31.98	
28	32.78	33.71	36.90	36.99	36.16	38.28	39.81	34.35	31.86	32.55	32.45	32.01	
29	32.94	33.48	36.89	36.97	36.21	38.34	39.72	34.13	31.86	32.53		32.04	
30	33.01	33.58	36.84	36.75	36.11	38.42	39.56	33.70	31.86	32.51		32.12	
31	33.87		36.53	36.03		39.47			31.87	32.50		32.13	
Mean	32.24	32.98	35.81	37.10	35.96	37.21	39.59	36.46	32.23	32.58	32.56	32.32	
Max	33.01	33.87	37.08	37.41	36.61	38.42	40.15	39.38	33.62	33.71	33.00	33.28	40.15
Min	32.06	32.37	33.85	36.53	35.39	36.12	38.45	33.70	31.85	31.87	32.33	31.97	31.85
Annual Max Momentary Gage Height	40.16		m. (MSL.) ,			at 06.00 Hours , on Oct 20 , 2009							
Zero Gage at Bottom Elevation	31.63		m. (MSL.) ,			River Bed	30.79	m. (MSL)					
Left Bank Elevation	35.96		m. (MSL.) ,										
Right Bank Elevation	39.03		m. (MSL.) ,			Drainage Area	20201	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.65	16.10	40.00	206.41	190.48	161.15	338.50	430.00	32.60	0.00	4.95	4.35	
2	1.05	14.90	41.60	206.41	192.39	178.36	348.40	420.00	31.10	0.00	5.55	4.80	
3	0.30	13.60	44.80	205.77	179.64	181.55	359.00	405.00	25.40	0.00	5.85	4.50	
4	0.00	13.40	42.40	212.15	178.36	222.99	367.00	392.00	15.50	0.00	6.20	9.60	
5	0.00	12.60	41.60	222.35	179.00	226.17	380.00	376.00	7.40	0.00	6.40	22.40	
6	0.00	12.40	40.80	221.08	180.91	230.00	390.00	363.00	3.00	0.00	6.60	15.80	
7	0.00	12.60	57.20	221.08	179.64	230.00	402.00	353.00	2.70	0.00	6.80	12.40	
8	0.00	12.00	107.00	224.90	173.26	234.00	417.00	340.30	2.70	0.00	6.40	6.60	
9	0.00	8.40	129.28	227.45	167.53	239.60	428.00	313.30	2.40	8.60	5.55	4.80	
10	0.00	7.60	157.33	232.40	154.14	232.40	435.00	290.80	1.95	32.60	4.80	4.50	
11	0.00	6.40	175.81	230.00	149.04	214.06	442.00	278.20	0.00	35.30	4.65	4.05	
12	0.00	3.90	184.10	226.81	145.21	224.90	457.00	262.90	0.00	22.10	3.60	3.00	
13	0.00	3.45	180.91	222.35	137.56	221.08	467.00	234.80	0.00	23.90	2.70	1.65	
14	0.00	3.45	180.91	226.81	135.65	219.16	474.00	206.41	0.00	22.70	4.05	0.90	
15	0.00	3.30	179.00	233.20	129.91	215.34	479.00	171.99	0.00	20.90	9.40	0.00	
16	0.00	2.70	173.26	241.20	116.00	209.60	490.00	153.50	0.00	19.40	13.20	0.15	
17	1.20	2.55	168.80	242.80	124.40	207.69	498.00	122.60	0.00	17.30	14.00	0.00	
18	1.20	3.00	160.51	245.20	133.10	212.79	501.00	104.00	0.00	8.00	10.40	0.00	
19	1.05	3.15	139.48	246.80	126.20	218.52	506.00	92.60	0.00	6.00	7.80	0.00	
20	1.05	4.05	137.56	246.00	120.20	225.54	507.00	89.50	0.00	4.95	5.40	0.00	
21	0.90	5.85	154.14	242.80	115.40	222.99	503.00	82.50	0.00	3.45	4.20	0.00	
22	0.15	17.00	174.54	236.40	122.00	228.09	504.00	72.00	0.00	2.85	3.00	0.00	
23	0.00	31.10	196.85	230.00	136.29	230.00	503.00	68.50	0.00	2.40	1.95	0.00	
24	0.00	33.50	212.15	226.17	138.20	231.60	499.00	67.00	0.00	4.05	1.95	0.00	
25	0.00	38.80	222.35	223.62	139.48	254.80	495.00	63.50	0.00	6.00	1.95	0.00	
26	0.00	36.80	215.97	219.16	142.66	280.00	494.00	59.60	0.00	5.85	2.10	0.00	
27	0.00	35.30	210.24	217.89	151.59	298.90	487.00	59.60	0.00	5.85	2.85	0.00	
28	9.60	35.30	210.88	216.61	163.70	323.20	473.00	60.00	0.00	5.25	3.75	0.00	
29	12.80	28.40	210.24	215.34	166.89	328.60	464.00	51.20	0.00	4.95		0.00	
30	14.30	31.40	207.05	201.31	160.51	335.80	448.00	35.00	0.00	4.65		0.00	
31		40.80		187.29	155.41		439.00		0.00	4.50		0.00	
Total	48.25	493.80	4396.76	6957.76	4684.75	7038.88	13994.90	6018.80	124.75	271.55	156.05	99.50	44285.75 CMSDAY
Mean	1.61	15.93	146.56	224.44	151.12	234.63	451.45	200.63	4.02	8.76	5.57	3.21	121.33 CMS
Max	14.30	40.80	222.35	246.80	192.39	335.80	507.00	430.00	32.60	35.30	14.00	22.40	507.00 CMS
Min	0.00	2.55	40.00	187.29	115.40	161.15	338.50	35.00	0.00	0.00	1.95	0.00	0.00 CMS
Runoff	4.17	42.66	379.88	601.15	404.76	608.16	1209.16	520.02	10.78	23.46	13.48	8.60	3826.29 MCM
Momentary Peak	508.00 CMS. at 40.16 m. (MSL) at 06.00 Hours , on Oct 20 , 2009												
Runoff Yield	6.01 Liters/Second/Square KM.			Momentary Peak Yield				25.147 /Second/Square KM.					

WATER YEAR : 2009**Yom RIVER BASIN****Yom River at Ban Sam Ngam , Phichit (Y.17)**

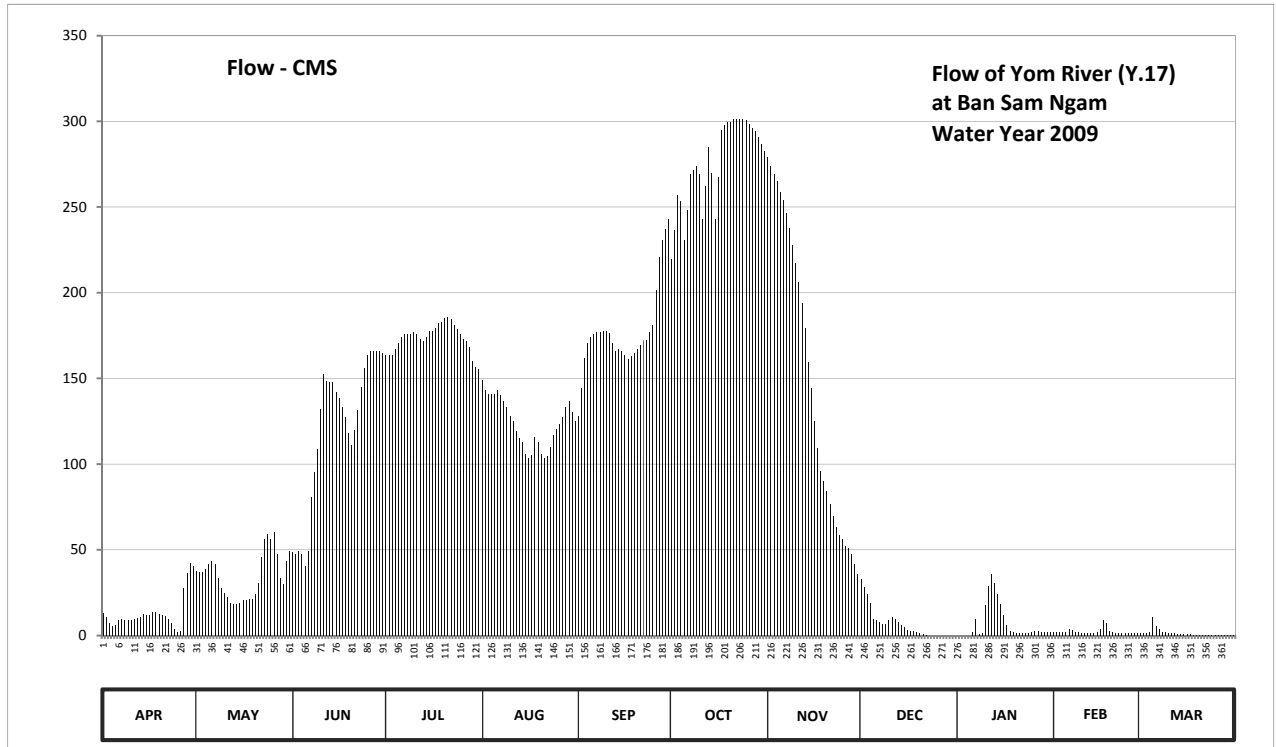
Lat 16 - 30 - 24 N Long 100 - 12 - 27 E

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
Drainage Area	22,034	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+31.490	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 50 meters from Amphoe Sam Ngam Office.				Elevation	+40.506 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1967 , 1990 to date					
Rated by Flot	-					
Rated by Current Meter	1967 , 1990 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.23	32.95	33.17	35.04	34.83	34.53	35.77	36.51	32.85	30.99	32.69	32.61	
2	32.15	32.94	33.15	35.04	34.74	34.76	35.98	36.45	32.73	30.99	32.71	32.61	
3	32.00	32.94	33.19	35.04	34.71	35.01	36.24	36.39	32.60	30.99	32.71	32.61	
4	31.93	32.98	33.15	35.09	34.71	35.14	36.19	36.34	32.43	30.99	32.72	32.71	
5	31.96	33.03	33.01	35.14	34.71	35.19	35.91	36.26	32.13	31.33	32.72	33.02	
6	32.09	33.07	33.18	35.19	34.74	35.21	36.13	36.20	32.09	32.66	32.82	32.88	
7	32.11	33.03	33.80	35.21	34.70	35.23	36.39	36.11	32.05	33.00	32.78	32.82	
8	32.09	32.87	34.04	35.21	34.65	35.23	36.42	36.00	31.99	32.34	32.70	32.72	
9	32.09	32.72	34.25	35.21	34.60	35.24	36.45	35.87	31.97	32.54	32.64	32.66	
10	32.09	32.62	34.59	35.23	34.53	35.24	36.39	35.74	32.10	33.16	32.60	32.62	
11	32.11	32.55	34.88	35.21	34.49	35.22	36.06	35.60	32.16	33.31	32.58	32.57	
12	32.14	32.44	34.82	35.17	34.40	35.14	36.30	35.45	32.12	33.39	32.54	32.49	
13	32.16	32.42	34.81	35.15	34.34	35.07	36.58	35.26	32.03	33.33	32.51	32.45	
14	32.21	32.41	34.81	35.19	34.31	35.09	36.40	34.98	31.96	33.25	32.50	32.40	
15	32.20	32.44	34.73	35.24	34.21	35.07	36.06	34.76	31.88	33.17	32.63	32.37	
16	32.20	32.49	34.68	35.24	34.17	35.04	36.37	34.49	31.82	33.05	32.82	32.33	
17	32.26	32.49	34.60	35.26	34.20	35.00	36.69	34.26	31.77	32.91	32.99	32.33	
18	32.25	32.50	34.52	35.30	34.35	35.03	36.72	34.05	31.62	32.77	32.93	32.29	
19	32.21	32.51	34.39	35.31	34.31	35.05	36.74	33.95	31.53	32.68	32.74	32.27	
20	32.19	32.61	34.29	35.34	34.21	35.09	36.74	33.85	31.44	32.61	32.65	32.24	
21	32.18	32.79	34.41	35.35	34.17	35.12	36.76	33.73	31.22	32.54	32.59	32.20	
22	32.12	33.12	34.58	35.33	34.19	35.16	36.76	33.59	31.08	32.51	32.56	32.14	
23	32.02	33.32	34.77	35.29	34.27	35.16	36.76	33.47	30.99	32.51	32.51	32.11	
24	31.83	33.39	34.93	35.25	34.37	35.23	36.76	33.37	30.99	32.55	32.49	32.10	
25	31.59	33.32	35.04	35.21	34.42	35.29	36.75	33.33	30.99	32.68	32.49	32.09	
26	31.69	33.41	35.07	35.17	34.46	35.54	36.73	33.24	30.99	32.76	32.49	32.08	
27	32.72	33.15	35.07	35.15	34.52	35.78	36.70	33.22	30.99	32.73	32.53	32.08	
28	32.93	32.87	35.07	35.10	34.60	35.91	36.68	33.15	30.99	32.68	32.57	32.15	
29	33.04	32.77	35.07	34.99	34.65	35.99	36.64	33.03	30.99	32.65		32.22	
30	33.01	33.07	35.05	34.94	34.56	36.06	36.60	32.92	30.99	32.64		32.27	
31		33.19		34.92	34.49		36.55		30.99	32.67		32.29	
Mean	32.19	32.85	34.37	35.18	34.47	35.23	36.46	34.72	31.69	32.53	32.65	32.41	
Max	33.04	33.41	35.07	35.35	34.83	36.06	36.76	36.51	32.85	33.39	32.99	33.02	36.76
Min	31.59	32.41	33.01	34.92	34.17	34.53	35.77	32.92	30.99	30.99	32.49	32.08	30.99
Annual Max Momentary Gage Height	36.76		m. (MSL.) ,				at 06.00 Hours , on Oct 21 , 2009						
Zero Gage at Bottom Elevation	31.49		m. (MSL.) ,			River Bed	29.24		m. (MSL)				
Left Bank Elevation	40.50		m. (MSL.) ,										
Right Bank Elevation	40.50		m. (MSL.) ,			Drainage Area	22034		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.90	37.50	48.50	163.80	149.10	128.10	219.60	278.90	33.00	0.00	1.96	1.64	
2	10.50	37.00	47.50	163.80	142.80	144.20	236.40	274.00	28.20	0.00	2.12	1.64	
3	7.00	37.00	49.50	163.80	140.70	161.70	257.20	269.20	24.00	0.00	2.12	1.64	
4	5.60	39.00	47.50	167.30	140.70	170.80	253.20	265.20	18.90	0.00	2.24	2.12	
5	6.20	41.50	40.50	170.80	140.70	174.30	230.80	258.80	9.90	0.00	2.24	10.50	
6	8.80	43.50	49.00	174.30	142.80	175.70	248.40	254.00	8.80	1.84	3.76	5.44	
7	9.30	41.50	81.00	175.70	140.00	177.10	269.20	246.80	8.00	9.50	2.96	3.76	
8	8.80	33.80	95.40	175.70	136.50	177.10	271.60	238.00	6.80	0.68	2.00	2.24	
9	8.80	27.80	108.50	175.70	133.00	177.80	274.00	227.60	6.40	1.36	1.76	1.84	
10	8.80	24.60	132.30	177.10	128.10	177.80	269.20	217.20	9.00	17.80	1.60	1.68	
11	9.30	22.50	152.60	175.70	125.30	176.40	242.80	206.00	10.80	28.90	1.52	1.48	
12	10.20	19.20	148.40	172.90	119.00	170.80	262.00	194.00	9.60	36.10	1.36	1.16	
13	10.80	18.60	147.70	171.50	114.80	165.90	285.20	179.20	7.60	30.70	1.24	1.00	
14	12.30	18.30	147.70	174.30	112.70	167.30	270.00	159.60	6.20	24.00	1.20	0.80	
15	12.00	19.20	142.10	177.80	105.70	165.90	242.80	144.20	4.60	18.35	1.72	0.74	
16	12.00	20.70	138.60	177.80	103.20	163.80	267.60	125.30	3.40	12.00	3.76	0.66	
17	13.80	20.70	133.00	179.20	105.00	161.00	295.10	109.20	2.89	6.35	9.15	0.66	
18	13.50	21.00	127.40	182.00	115.50	163.10	297.80	96.00	2.33	2.84	7.05	0.58	
19	12.30	21.30	118.30	182.80	112.70	164.50	299.60	90.00	1.99	1.92	2.48	0.54	
20	11.70	24.30	111.30	185.20	105.70	167.30	299.60	84.00	1.65	1.64	1.80	0.48	
21	11.40	30.60	119.70	186.00	103.20	169.40	301.40	76.80	0.82	1.36	1.56	0.40	
22	9.60	46.00	131.60	184.40	104.40	172.20	301.40	69.50	0.30	1.24	1.44	0.28	
23	7.40	56.00	144.90	181.30	109.90	172.20	301.40	63.50	0.00	1.24	1.24	0.22	
24	3.60	59.50	156.10	178.50	116.90	177.10	301.40	58.50	0.00	1.40	1.16	0.20	
25	2.21	56.00	163.80	175.70	120.40	181.30	300.50	56.50	0.00	1.92	1.16	0.18	
26	2.59	60.50	165.90	172.90	123.20	201.20	298.70	52.00	0.00	2.72	1.16	0.16	
27	27.80	47.50	165.90	171.50	127.40	220.40	296.00	51.00	0.00	2.36	1.32	0.16	
28	36.50	33.80	165.90	168.00	133.00	230.80	294.20	47.50	0.00	1.92	1.48	0.30	
29	42.00	29.80	165.90	160.30	136.50	237.20	290.60	41.50	0.00	1.80		0.44	
30	40.50	43.50	164.50	156.80	130.20	242.80	287.00	36.00	0.00	1.76		0.54	
31		49.50		155.40	125.30		282.50		0.00	1.88		0.58	
Total	388.20	1081.70	3611.00	5378.00	3844.40	5335.20	8547.20	4470.00	205.18	213.58	64.56	44.06	33183.08 CMSDAY
Mean	12.94	34.89	120.37	173.48	124.01	177.84	275.72	149.00	6.62	6.89	2.31	1.42	90.91 CMS
Max	42.00	60.50	165.90	186.00	149.10	242.80	301.40	278.90	33.00	36.10	9.15	10.50	301.40 CMS
Min	2.21	18.30	40.50	155.40	103.20	128.10	179.60	36.00	0.00	1.16	0.16	0.00	0.00 CMS
Runoff	33.54	93.46	311.99	464.66	332.16	460.96	738.48	386.21	17.73	18.45	5.58	3.81	2867.02 MCM
Momentary Peak	301.40 CMS. at 36.76 m. (MSL) at 06.00 Hours , on Oct 21 , 2009												
Runoff Yield	4.13 Liters/Second/Square KM.			Momentary Peak Yield			13.679 Liters/Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Huai Sak , Phrae (Y.20)

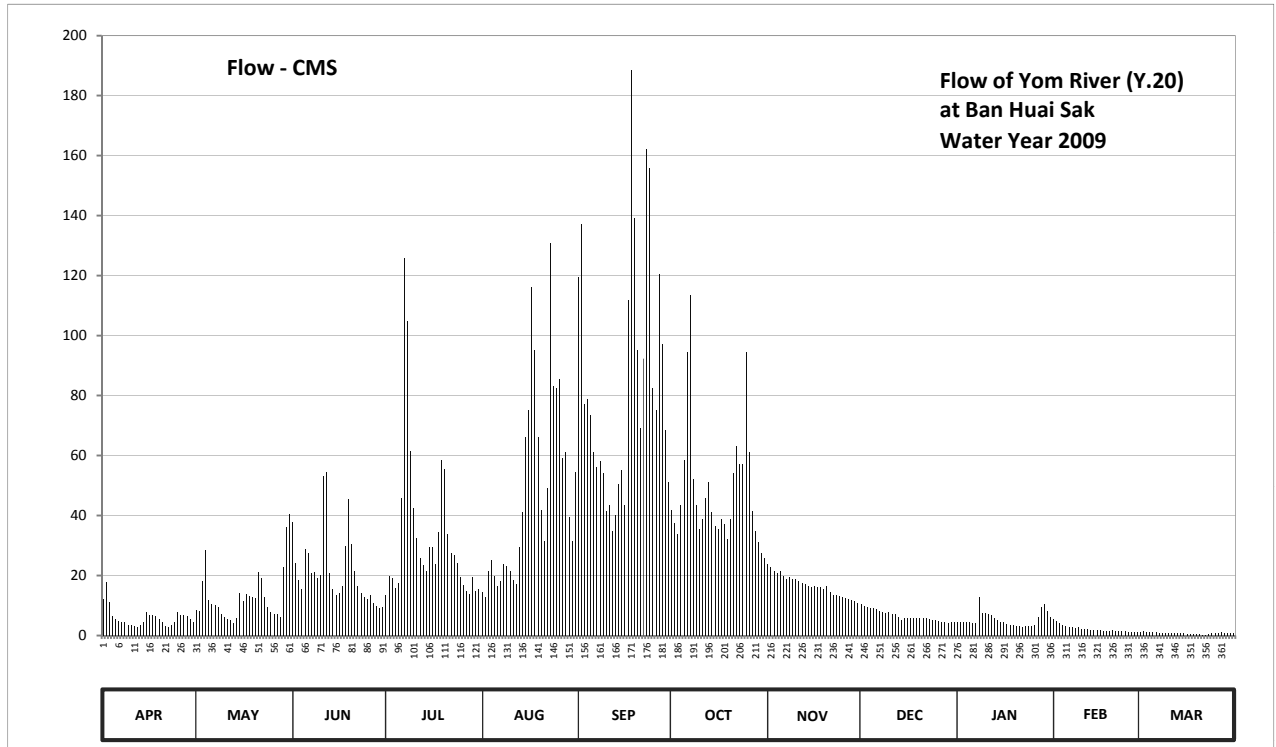
Lat 18 - 35 - 06 N Long 100 - 09 - 16 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

	Ban	Huai Sak	Amphoe	Song	Changwat	Phrae
Drainage Area	5,394	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+181.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+193.552 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1971 to date					
Rating Operation						
Period of Rating	1972 to date					
Rated by Flot	-					
Rated by Current Meter	1972 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Mae yom weir situated about 15 kilometers above site. Stage-discharge relation defined by 35 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	182.02	181.90	182.72	182.06	182.10	184.08	182.80	182.39	181.97	181.75	181.79	181.58	
2	182.20	181.89	182.40	182.26	182.04	184.33	182.71	182.35	181.95	181.75	181.76	181.59	
3	181.99	182.21	182.22	182.24	182.32	183.45	182.64	182.32	181.93	181.74	181.73	181.58	
4	181.83	182.51	182.13	182.14	182.42	183.48	182.83	182.29	181.92	181.75	181.70	181.58	
5	181.79	182.01	182.52	182.19	182.26	183.39	183.13	182.31	181.92	181.74	181.68	181.57	
6	181.76	181.97	182.49	182.88	182.16	183.18	183.72	182.26	181.91	181.73	181.67	181.57	
7	181.74	181.96	182.29	184.17	182.21	183.08	183.99	182.23	181.89	181.73	181.66	181.56	
8	181.74	181.93	182.30	183.87	182.39	183.12	183.00	182.25	181.88	182.04	181.65	181.56	
9	181.70	181.86	182.24	183.19	182.37	183.04	182.83	182.23	181.87	181.87	181.66	181.56	
10	181.70	181.82	182.28	182.81	182.31	182.79	182.67	182.23	181.88	181.87	181.64	181.56	
11	181.68	181.79	183.02	182.61	182.22	182.83	182.74	182.21	181.86	181.86	181.64	181.56	
12	181.66	181.77	183.05	182.44	182.18	182.66	182.88	182.19	181.85	181.84	181.63	181.56	
13	181.70	181.73	182.29	182.38	182.54	182.76	182.98	182.18	181.82	181.81	181.61	181.56	
14	181.74	181.80	182.13	182.31	182.78	182.97	182.78	182.16	181.77	181.78	181.61	181.55	
15	181.88	182.09	182.07	182.54	183.27	183.06	182.69	182.15	181.81	181.75	181.62	181.55	
16	181.84	182.00	182.09	182.54	183.42	182.83	182.67	182.16	181.80	181.74	181.61	181.54	
17	181.84	182.08	182.16	182.39	184.03	183.97	182.74	182.15	181.80	181.72	181.60	181.54	
18	181.83	182.05	182.55	182.65	183.73	185.07	182.70	182.15	181.80	181.70	181.60	181.54	
19	181.79	182.04	182.87	183.13	183.27	184.36	182.60	182.13	181.80	181.70	181.60	181.53	
20	181.74	182.03	182.56	183.07	182.80	183.73	182.74	182.16	181.81	181.69	181.61	181.53	
21	181.68	182.30	182.31	182.64	182.59	183.32	183.04	182.10	181.80	181.68	181.60	181.52	
22	181.66	182.24	182.16	182.49	182.94	183.69	183.22	182.06	181.80	181.67	181.60	181.52	
23	181.70	182.04	182.09	182.47	184.24	184.69	183.10	182.06	181.79	181.68	181.60	181.54	
24	181.74	181.93	182.04	182.40	183.55	184.60	183.10	182.05	181.78	181.69	181.59	181.55	
25	181.88	181.88	182.02	182.25	183.54	183.54	183.72	182.04	181.77	181.69	181.58	181.55	
26	181.84	181.85	182.06	182.17	183.59	183.42	183.18	182.03	181.76	181.70	181.57	181.56	
27	181.84	181.85	181.98	182.11	183.14	184.09	182.79	182.02	181.75	181.82	181.57	181.57	
28	181.83	181.82	181.95	182.08	183.18	183.76	182.66	182.01	181.74	181.94	181.57	181.56	
29	181.79	182.36	181.92	182.25	182.75	183.31	182.58	182.00	181.73	181.97		181.55	
30	181.74	182.68	181.93	182.11	182.59	182.98	182.49	181.98	181.75	181.89		181.56	
31		182.77		182.13	183.05		182.44		181.75	181.82		181.56	
Mean	181.80	182.04	182.29	182.55	182.84	183.52	182.91	182.16	181.83	181.78	181.63	181.56	
Max	182.20	182.77	183.05	184.17	184.24	185.07	183.99	182.39	181.97	182.04	181.79	181.59	185.07
Min	181.66	181.73	181.92	182.06	182.04	182.66	182.44	181.98	181.73	181.67	181.57	181.52	181.52
Annual Max Momentary Gage Height	185.32		m. (MSL.) ,			at 20.00 Hours , on Sep 23 , 2009							
Zero Gage at Bottom Elevation	181.00		m. (MSL.) ,			River Bed	179.34	m. (MSL)					
Left Bank Elevation		193.51		m. (MSL.) ,									
Right Bank Elevation		193.68		m. (MSL.) ,		Drainage Area	5394	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.12	8.40	38.00	13.36	14.60	119.60	42.00	23.97	10.57	4.60	5.48	1.20	
2	17.70	8.13	24.30	19.68	12.74	137.10	37.50	22.65	9.95	4.60	4.82	1.35	
3	11.19	18.03	18.36	19.02	21.66	77.00	34.00	21.66	9.33	4.38	4.16	1.20	
4	6.51	28.40	15.53	15.84	25.04	78.80	43.50	20.67	9.02	4.60	3.50	1.20	
5	5.48	11.81	28.80	17.39	19.68	73.40	58.50	21.33	9.02	4.38	3.10	1.05	
6	4.82	10.57	27.63	46.00	16.46	61.00	94.40	19.68	8.71	4.16	2.90	1.05	
7	4.38	10.26	20.67	125.90	18.03	56.00	113.30	18.69	8.13	4.16	2.70	0.90	
8	4.38	9.33	21.00	104.90	23.97	58.00	52.00	19.35	7.86	12.74	2.50	0.90	
9	3.50	7.32	19.02	61.50	23.31	54.00	43.50	18.69	7.59	7.59	2.70	0.90	
10	3.50	6.24	20.34	42.50	21.33	41.50	35.50	18.69	7.86	7.59	2.30	0.90	
11	3.10	5.48	53.00	32.50	18.36	43.50	39.00	18.03	7.32	7.32	2.30	0.90	
12	2.70	5.04	54.50	25.78	17.08	35.00	46.00	17.39	7.05	6.78	2.10	0.90	
13	3.50	4.16	20.67	23.64	29.60	40.00	51.00	17.08	6.24	5.97	1.70	0.90	
14	4.38	5.70	15.53	21.33	41.00	50.50	41.00	16.46	5.04	5.26	1.70	0.75	
15	7.86	14.29	13.67	29.60	66.20	55.00	36.50	16.15	5.97	4.60	1.90	0.75	
16	6.78	11.50	14.29	29.60	75.20	43.50	35.50	16.46	5.70	4.38	1.70	0.60	
17	6.78	13.98	16.46	23.97	116.10	111.90	39.00	16.15	5.70	3.94	1.50	0.60	
18	6.51	13.05	30.00	34.50	95.10	188.67	37.00	16.15	5.70	3.50	1.50	0.60	
19	5.48	12.74	45.50	58.50	66.20	139.20	32.00	15.53	5.70	3.50	1.50	0.45	
20	4.38	12.43	30.40	55.50	42.00	95.10	39.00	16.46	5.97	3.30	1.70	0.45	
21	3.10	21.00	21.33	34.00	31.60	69.20	54.00	14.60	5.70	3.10	1.50	0.30	
22	2.70	19.02	16.46	27.63	49.00	92.30	63.20	13.36	5.70	2.90	1.50	0.30	
23	3.50	12.74	14.29	26.89	130.80	162.30	57.00	13.36	5.48	3.10	1.50	0.60	
24	4.38	9.33	12.74	24.30	83.00	156.00	57.00	13.05	5.26	3.30	1.35	0.75	
25	7.86	7.86	12.12	19.35	82.40	82.40	94.40	12.74	5.04	3.30	1.20	0.75	
26	6.78	7.05	13.36	16.77	85.40	75.20	61.00	12.43	4.82	3.50	1.05	0.90	
27	6.78	7.05	10.88	14.91	59.00	120.30	41.50	12.12	4.60	6.24	1.05	1.05	
28	6.51	6.24	9.95	13.98	61.00	97.20	35.00	11.81	4.38	9.64	1.05	0.90	
29	5.48	22.98	9.02	19.35	39.50	68.60	31.20	11.50	4.16	10.57		0.75	
30	4.38	36.00	9.33	14.91	31.60	51.00	27.63	10.88	4.60	8.13		0.90	
31		40.50		15.53	54.50		25.78		4.60	6.24		0.90	
Total	176.52	406.63	657.15	128.63	1471.46	2533.27	1497.91	497.09	202.77	167.37	61.96	25.65	8726.41 CMSDAY
Mean	5.88	13.12	21.91	33.18	47.47	84.44	48.32	16.57	6.54	5.40	2.21	0.83	23.91 CMS
Max	17.70	40.50	54.50	125.90	130.80	188.67	113.30	23.97	10.57	12.74	5.48	1.35	188.67 CMS
Min	2.70	4.16	9.02	13.36	12.74	35.00	25.78	10.88	4.16	2.90	1.05	0.30	0.30 CMS
Runoff	15.25	35.13	56.78	88.87	127.13	218.88	129.42	42.95	17.52	14.46	5.35	2.22	753.96 MCM
Momentary Peak	205.33 CMS. at 185.32 m. (MSL.) at 20.00 Hours , on Sep 23 , 2009												
Runoff Yield	4.43 Liters/Second/Square KM.			Momentary Peak Yield			38.066 Liters/Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Na Pla Kang , Sukhothai (Y.21)

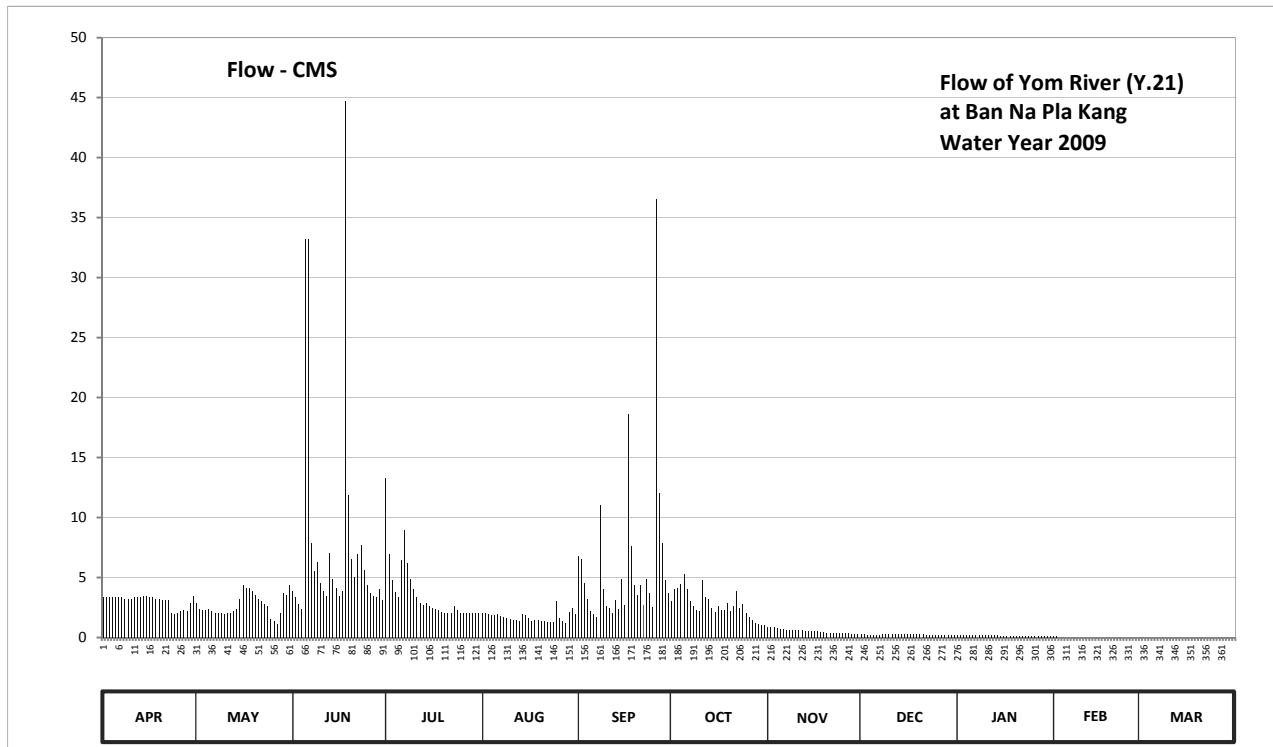
Lat 17 - 47 - 31 N Long 99 - 47 - 27 E

Location : on right bank at Ban Na Pla Kang.

	Ban	Na Pla Kang	Amphoe	Si Satchanalai	Changwat	Sukhothai
Drainage Area	310	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+114.456 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+119.519 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	115.85	115.81	115.90	116.55	115.71	116.14	115.82	115.54	115.41	115.39	115.36	115.80	
2	115.85	115.75	115.85	116.15	115.70	116.12	115.91	115.54	115.41	115.39	115.36	115.80	
3	115.85	115.74	115.80	115.98	115.69	115.96	115.92	115.53	115.40	115.39	115.62	115.80	
4	115.85	115.74	115.75	115.89	115.68	115.84	115.95	115.52	115.40	115.39	115.86	115.80	
5	115.85	115.75	117.45	115.85	115.68	115.73	116.02	115.51	115.40	115.39	115.85	115.80	
6	115.85	115.73	117.45	116.11	115.69	115.69	115.91	115.50	115.40	115.39	115.83	115.80	
7	115.85	115.70	116.22	116.29	115.67	115.66	115.82	115.49	115.40	115.40	115.83	115.80	
8	115.84	115.71	116.04	116.09	115.66	116.42	115.78	115.49	115.41	115.40	115.82	115.80	
9	115.84	115.70	116.10	115.99	115.65	115.91	115.74	115.49	115.41	115.40	115.82	115.80	
10	115.84	115.69	115.96	115.91	115.64	115.78	115.73	115.48	115.41	115.40	115.82	115.80	
11	115.85	115.71	115.90	115.85	115.63	115.76	115.98	115.48	115.41	115.40	115.82	115.80	
12	115.85	115.71	115.86	115.81	115.63	115.71	115.85	115.48	115.41	115.40	115.81	115.80	
13	115.85	115.73	116.16	115.79	115.62	115.83	115.84	115.47	115.41	115.39	115.81	115.80	
14	115.86	115.75	115.99	115.81	115.69	115.75	115.76	115.47	115.41	115.39	115.81	115.80	
15	115.86	115.84	115.92	115.78	115.68	115.99	115.72	115.46	115.41	115.38	115.81	115.80	
16	115.85	115.94	115.86	115.76	115.65	115.79	115.78	115.46	115.41	115.38	115.81	115.80	
17	115.85	115.92	115.90	115.75	115.62	116.83	115.74	115.46	115.41	115.38	115.81	115.80	
18	115.84	115.92	117.85	115.74	115.63	116.20	115.74	115.45	115.41	115.38	115.81	115.80	
19	115.84	115.90	116.47	115.72	115.63	115.94	115.81	115.45	115.41	115.38	115.81	115.80	
20	115.83	115.87	116.12	115.71	115.62	115.87	115.73	115.44	115.41	115.38	115.81	115.80	
21	115.83	115.84	116.00	115.71	115.62	115.94	115.78	115.44	115.41	115.38	115.80	115.80	
22	115.83	115.82	116.15	115.71	115.61	115.79	115.90	115.43	115.40	115.37	115.80	115.80	
23	115.70	115.80	116.21	115.78	115.61	115.99	115.76	115.43	115.40	115.37	115.80	115.80	
24	115.69	115.78	116.05	115.74	115.61	115.88	115.80	115.43	115.40	115.37	115.80	115.79	
25	115.70	115.64	115.94	115.71	115.82	115.77	115.71	115.43	115.40	115.37	115.80	115.79	
26	115.73	115.62	115.88	115.71	115.65	117.57	115.66	115.43	115.40	115.37	115.80	115.79	
27	115.74	115.58	115.86	115.71	115.62	116.48	115.63	115.43	115.40	115.37	115.80	115.78	
28	115.73	115.71	115.85	115.71	115.60	116.22	115.60	115.42	115.40	115.37	115.80	115.78	
29	115.81	115.88	115.91	115.70	115.72	115.98	115.59	115.42	115.40	115.37		115.78	
30	115.86	115.87	115.83	115.70	115.76	115.88	115.57	115.41	115.40	115.37		115.78	
31		115.94		115.70	115.69		115.56		115.40	115.37		115.78	
Mean	115.82	115.78	116.14	115.85	115.66	116.01	115.78	115.47	115.41	115.38	115.77	115.80	
Max	115.86	115.94	117.85	116.55	115.82	117.57	116.02	115.54	115.41	115.40	115.86	115.80	117.85
Min	115.69	115.58	115.75	115.70	115.60	115.66	115.56	115.41	115.40	115.37	115.36	115.78	115.36
Annual Max Momentary Gage Height	118.27		m. (MSL.) ,				at 06.00 Hours , on Sep 26 , 2009						
Zero Gage at Bottom Elevation	114.46		m. (MSL.) ,			River Bed	112.50		m. (MSL)				
Left Bank Elevation			122.52										
Right Bank Elevation		123.62				Drainage Area	310		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.35	2.91	3.90	13.30	2.08	6.82	3.02	0.90	0.25	0.18	0.12	0.00	
2	3.35	2.40	3.35	6.95	2.00	6.56	4.01	0.90	0.25	0.18	0.12	0.00	
3	3.35	2.32	2.80	4.78	1.92	4.56	4.12	0.85	0.20	0.18	0.00	0.00	
4	3.35	2.32	2.40	3.79	1.84	3.24	4.45	0.80	0.20	0.18	0.00	0.00	
5	3.35	2.40	33.20	3.35	1.84	2.24	5.26	0.75	0.20	0.18	0.00	0.00	
6	3.35	2.24	33.20	6.43	1.92	1.92	4.01	0.70	0.20	0.18	0.00	0.00	
7	3.35	2.00	7.90	8.95	1.76	1.68	3.02	0.65	0.20	0.20	0.00	0.00	
8	3.24	2.08	5.52	6.17	1.68	11.04	2.64	0.65	0.25	0.20	0.00	0.00	
9	3.24	2.00	6.30	4.89	1.60	4.01	2.32	0.65	0.25	0.20	0.00	0.00	
10	3.24	1.92	4.56	4.01	1.52	2.64	2.24	0.60	0.25	0.20	0.00	0.00	
11	3.35	2.08	3.90	3.35	1.44	2.48	4.78	0.60	0.25	0.20	0.00	0.00	
12	3.35	2.08	3.46	2.91	1.44	2.08	3.35	0.60	0.25	0.20	0.00	0.00	
13	3.35	2.24	7.08	2.72	1.36	3.13	3.24	0.55	0.25	0.18	0.00	0.00	
14	3.46	2.40	4.89	2.91	1.92	2.40	2.48	0.55	0.25	0.18	0.00	0.00	
15	3.46	3.24	4.12	2.64	1.84	4.89	2.16	0.50	0.25	0.16	0.00	0.00	
16	3.35	4.34	3.46	2.48	1.60	2.72	2.64	0.50	0.25	0.16	0.00	0.00	
17	3.35	4.12	3.90	2.40	1.36	18.60	2.32	0.50	0.25	0.16	0.00	0.00	
18	3.24	4.12	44.70	2.32	1.44	7.60	2.32	0.45	0.25	0.16	0.00	0.00	
19	3.24	3.90	11.89	2.16	1.44	4.34	2.91	0.45	0.25	0.16	0.00	0.00	
20	3.13	3.57	6.56	2.08	1.36	3.57	2.24	0.40	0.25	0.16	0.00	0.00	
21	3.13	3.24	5.00	2.08	1.36	4.34	2.64	0.40	0.25	0.16	0.00	0.00	
22	3.13	3.02	6.95	2.08	1.28	2.72	3.90	0.35	0.20	0.14	0.00	0.00	
23	2.00	2.80	7.75	2.64	1.28	4.89	2.48	0.35	0.20	0.14	0.00	0.00	
24	1.92	2.64	5.65	2.32	1.28	3.68	2.80	0.35	0.20	0.14	0.00	0.00	
25	2.00	1.52	4.34	2.08	3.02	2.56	2.08	0.35	0.20	0.14	0.00	0.00	
26	2.24	1.36	3.68	2.08	1.60	36.56	1.68	0.35	0.20	0.14	0.00	0.00	
27	2.32	1.10	3.46	2.08	1.36	12.06	1.44	0.35	0.20	0.14	0.00	0.00	
28	2.24	2.08	3.35	2.08	1.20	7.90	1.20	0.30	0.20	0.14	0.00	0.00	
29	2.91	3.68	4.01	2.00	2.16	4.78	1.15	0.30	0.20	0.14	0.00	0.00	
30	3.46	3.57	3.13	2.00	2.48	3.68	1.05	0.25	0.20	0.14	0.00	0.00	
31		4.34		2.00	1.92		1.00		0.20	0.14		0.00	
Total	91.80	84.03	244.41	112.03	52.30	179.69	84.95	15.90	7.00	5.16	0.24	0.00	877.51 CMSDAY
Mean	3.06	2.71	8.15	3.61	1.69	5.99	2.74	0.53	0.23	0.17	0.01	0.00	2.40 CMS
Max	3.46	4.34	44.70	13.30	3.02	36.56	5.26	0.90	0.25	0.20	0.12	0.00	44.70 CMS
Min	1.92	1.10	2.40	2.00	1.20	1.68	1.00	0.25	0.20	0.14	0.00	0.00	0.00 CMS
Runoff	7.93	7.26	21.12	9.68	4.52	15.53	7.34	1.37	0.61	0.45	0.02	0.00	75.82 MCM
Momentary Peak	57.84 CMS. at 118.27 m. (MSL.) at 06.00 Hours , on Sep 26 , 2009												
Runoff Yield	7.76 Liters/Second/Square KM.			Momentary Peak Yield				186.581 /Second/Square KM.					

WATER YEAR : 2009**Yom RIVER BASIN**

Nam Pi at Ban Mang , Phayao (Y.24)

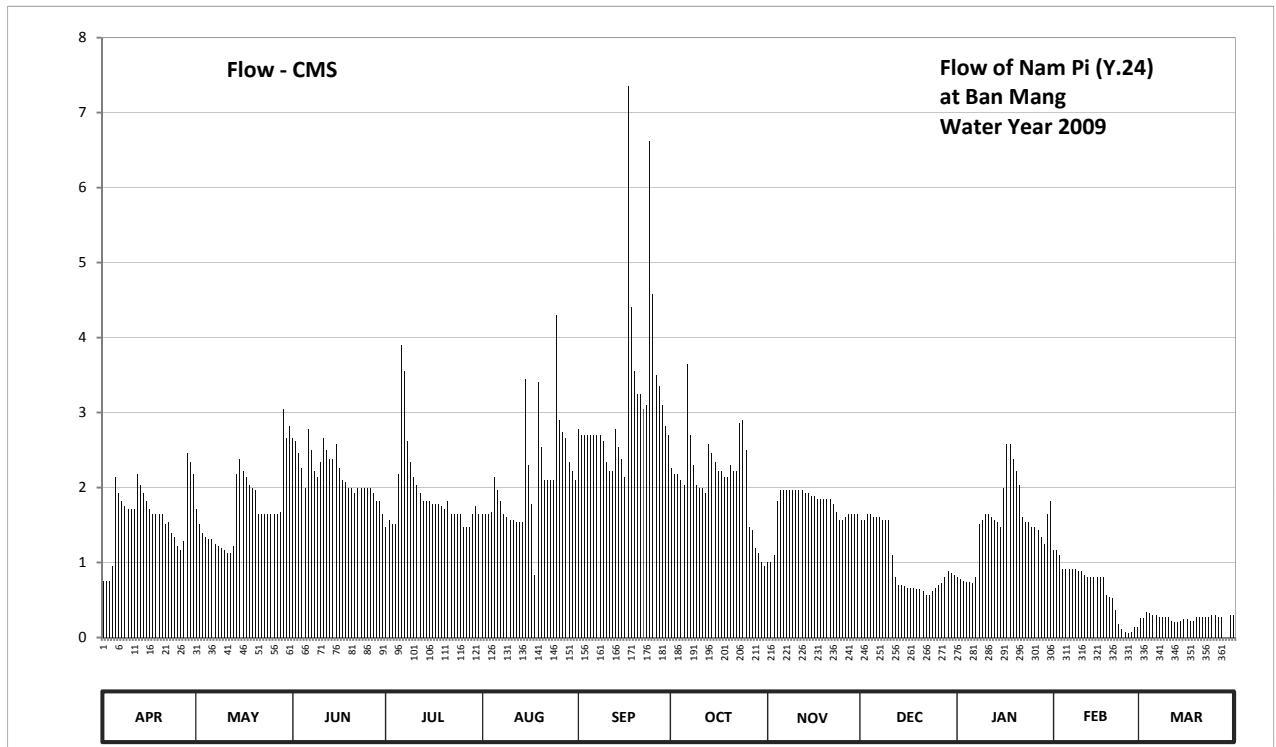
Lat 18 - 53 - 11 N Long 100 - 17 - 20 E

Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.

	Ban Mang	Amphoe Chiang Muan	Changwat Phayao
Drainage Area	590 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+257.765 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+264.800 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1977 to date		
Rating Operation			
Period of Rating	1979 - 1986 , 1996 to date		
Rated by Flot	-		
Rated by Current Meter	1979 - 1986 , 1996 to date		
Stability of Channel Regimes	Unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The channel flow silted about 100 meters downstream from the gage site. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.48	259.79	260.04	259.72	259.77	260.07	259.94	259.57	259.75	259.50	259.62	259.23	
2	259.48	259.73	260.03	259.75	259.77	260.05	259.92	259.57	259.75	259.49	259.62	259.23	
3	259.48	259.70	259.99	259.73	259.77	260.05	259.92	259.60	259.77	259.48	259.60	259.27	
4	259.55	259.68	259.94	259.73	259.78	260.05	259.90	259.82	259.77	259.47	259.54	259.26	
5	259.91	259.67	259.87	259.92	259.91	260.05	259.88	259.86	259.76	259.47	259.54	259.25	
6	259.85	259.67	260.07	260.30	259.86	260.05	260.25	259.86	259.76	259.46	259.54	259.25	
7	259.82	259.65	260.00	260.23	259.82	260.05	260.05	259.86	259.76	259.50	259.54	259.24	
8	259.80	259.64	259.93	260.03	259.77	260.05	259.95	259.86	259.75	259.73	259.54	259.24	
9	259.79	259.63	259.91	259.96	259.76	260.03	259.88	259.86	259.75	259.75	259.53	259.24	
10	259.79	259.62	259.96	259.91	259.75	259.96	259.87	259.86	259.75	259.77	259.53	259.24	
11	259.79	259.61	260.04	259.88	259.75	259.93	259.87	259.86	259.60	259.77	259.51	259.21	
12	259.92	259.61	260.00	259.85	259.74	259.93	259.85	259.86	259.50	259.76	259.50	259.20	
13	259.88	259.64	259.97	259.82	259.74	260.07	260.02	259.85	259.45	259.75	259.50	259.20	
14	259.85	259.92	259.97	259.82	259.74	260.01	259.99	259.85	259.45	259.74	259.50	259.21	
15	259.82	259.97	260.02	259.82	260.21	259.97	259.96	259.84	259.44	259.72	259.50	259.22	
16	259.79	259.93	259.94	259.81	259.95	259.91	259.93	259.84	259.43	259.87	259.50	259.22	
17	259.77	259.91	259.90	259.81	259.81	260.88	259.93	259.83	259.43	260.02	259.50	259.21	
18	259.77	259.88	259.89	259.81	259.51	260.40	259.91	259.83	259.43	260.02	259.38	259.21	
19	259.77	259.87	259.87	259.80	260.20	260.23	259.91	259.83	259.42	259.97	259.37	259.24	
20	259.77	259.86	259.87	259.79	260.01	260.17	259.95	259.83	259.42	259.93	259.36	259.24	
21	259.73	259.77	259.85	259.82	259.90	260.17	259.93	259.83	259.41	259.88	259.28	259.24	
22	259.74	259.77	259.87	259.77	259.90	260.13	259.93	259.81	259.38	259.76	259.18	259.24	
23	259.70	259.77	259.87	259.77	259.90	260.14	260.09	259.78	259.38	259.74	259.11	259.24	
24	259.68	259.77	259.87	259.77	259.90	260.77	260.10	259.75	259.41	259.74	259.07	259.25	
25	259.64	259.77	259.87	259.77	260.38	260.43	260.00	259.75	259.43	259.72	259.06	259.25	
26	259.62	259.77	259.87	259.72	260.10	260.22	259.72	259.76	259.45	259.72	259.07	259.24	
27	259.66	259.77	259.85	259.72	260.06	260.19	259.71	259.77	259.46	259.71	259.14	259.24	
28	259.99	259.78	259.82	259.72	260.04	260.14	259.63	259.77	259.50	259.68	259.14	258.90	
29	259.96	260.13	259.82	259.77	259.96	260.08	259.61	259.77	259.53	259.65		258.89	
30	259.92	260.04	259.77	259.80	259.93	260.05	259.57	259.77	259.52	259.77		259.25	
31		260.08		259.77	259.90		259.55		259.51	259.82		259.25	
Mean	259.76	259.79	259.92	259.84	259.89	260.14	259.89	259.80	259.55	259.72	259.40	259.21	
Max	259.99	260.13	260.07	260.30	260.38	260.88	260.25	259.86	259.77	260.02	259.62	259.27	260.88
Min	259.48	259.61	259.77	259.72	259.51	259.91	259.55	259.57	259.38	259.46	259.06	258.89	258.89
Annual Max Momentary Gage Height		261.23	m. (MSL.) ,				at 12.00 Hours , on Sep 17 , 2009						
Zero Gage at Bottom Elevation		257.77	m. (MSL.) ,			River Bed	255.82	m. (MSL)					
Left Bank Elevation		266.23	m. (MSL.) ,										
Right Bank Elevation		266.70	m. (MSL.) ,			Drainage Area	590	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.76	1.72	2.66	1.47	1.64	2.78	2.26	1.01	1.57	0.80	1.16	0.26	
2	0.76	1.51	2.62	1.57	1.64	2.70	2.18	1.01	1.57	0.78	1.16	0.26	
3	0.76	1.40	2.46	1.51	1.64	2.70	2.18	1.10	1.64	0.76	1.10	0.34	
4	0.95	1.34	2.26	1.51	1.68	2.70	2.10	1.82	1.64	0.74	0.92	0.32	
5	2.14	1.31	1.99	2.18	2.14	2.70	2.03	1.96	1.61	0.74	0.92	0.30	
6	1.93	1.31	2.78	3.90	1.96	2.70	3.65	1.96	1.61	0.72	0.92	0.30	
7	1.82	1.25	2.50	3.55	1.82	2.70	2.70	1.96	1.61	0.80	0.92	0.28	
8	1.75	1.22	2.22	2.62	1.64	2.70	2.30	1.96	1.57	1.51	0.92	0.28	
9	1.72	1.19	2.14	2.34	1.61	2.62	2.03	1.96	1.57	1.57	0.89	0.28	
10	1.72	1.16	2.34	2.14	1.57	2.34	1.99	1.96	1.57	1.64	0.89	0.28	
11	1.72	1.13	2.66	2.03	1.57	2.22	1.99	1.96	1.10	1.64	0.83	0.22	
12	2.18	1.13	2.50	1.93	1.54	2.22	1.93	1.96	0.80	1.61	0.80	0.20	
13	2.03	1.22	2.38	1.82	1.54	2.78	2.58	1.93	0.70	1.57	0.80	0.20	
14	1.93	2.18	2.38	1.82	1.54	2.54	2.46	1.93	0.70	1.54	0.80	0.22	
15	1.82	2.38	2.58	1.82	3.45	2.38	2.34	1.89	0.68	1.47	0.80	0.24	
16	1.72	2.22	2.26	1.78	2.30	2.14	2.22	1.89	0.66	1.99	0.80	0.24	
17	1.64	2.14	2.10	1.78	1.78	7.36	2.22	1.85	0.66	2.58	0.80	0.22	
18	1.64	2.03	2.07	1.78	0.83	4.40	2.14	1.85	0.66	2.58	0.56	0.22	
19	1.64	1.99	1.99	1.75	3.40	3.55	2.14	1.85	0.64	2.38	0.54	0.28	
20	1.64	1.96	1.99	1.72	2.54	3.25	2.30	1.85	0.64	2.22	0.52	0.28	
21	1.51	1.64	1.93	1.82	2.10	3.25	2.22	1.85	0.62	2.03	0.36	0.28	
22	1.54	1.64	1.99	1.64	2.10	3.05	2.22	1.78	0.56	1.61	0.18	0.28	
23	1.40	1.64	1.99	1.64	2.10	3.10	2.86	1.68	0.56	1.54	0.11	0.28	
24	1.34	1.64	1.99	1.64	2.10	6.62	2.90	1.57	0.62	1.54	0.07	0.30	
25	1.22	1.64	1.99	1.64	4.30	4.58	2.50	1.57	0.66	1.47	0.06	0.30	
26	1.16	1.64	1.99	1.47	2.90	3.50	1.47	1.61	0.70	1.47	0.07	0.28	
27	1.28	1.64	1.93	1.47	2.74	3.35	1.43	1.64	0.72	1.43	0.14	0.28	
28	2.46	1.68	1.82	1.47	2.66	3.10	1.19	1.64	0.80	1.34	0.14	0.00	
29	2.34	3.05	1.82	1.64	2.34	2.82	1.13	1.64	0.89	1.25		0.00	
30	2.18	2.66	1.64	1.75	2.22	2.70	1.01	1.64	0.86	1.64		0.30	
31		2.82		1.64	2.10		0.95		0.83	1.82		0.30	
Total	48.70	53.48	65.97	58.84	65.49	95.55	65.62	52.28	31.02	46.78	18.18	7.82	609.73 CMSDAY
Mean	1.62	1.73	2.20	1.90	2.11	3.19	2.12	1.74	1.00	1.51	0.65	0.25	1.67 CMS
Max	2.46	3.05	2.78	3.90	4.30	7.36	3.65	1.96	1.64	2.58	1.16	0.34	7.36 CMS
Min	0.76	1.13	1.64	1.47	0.83	2.14	0.95	1.01	0.56	0.72	0.06	0.00	0.00 CMS
Runoff	4.21	4.62	5.70	5.08	5.66	8.26	5.67	4.52	2.68	4.04	1.57	0.68	52.68 MCM
Momentary Peak	10.14 CMS. at 261.23 m. (MSL.) at 12.00 Hours , on Sep 17 , 2009												
Runoff Yield	2.83 Liters/Second/Square KM.			Momentary Peak Yield			17.186 Liters/Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Huai Mae Hu at Ban Mae Hu , Sukhothai (Y.29)

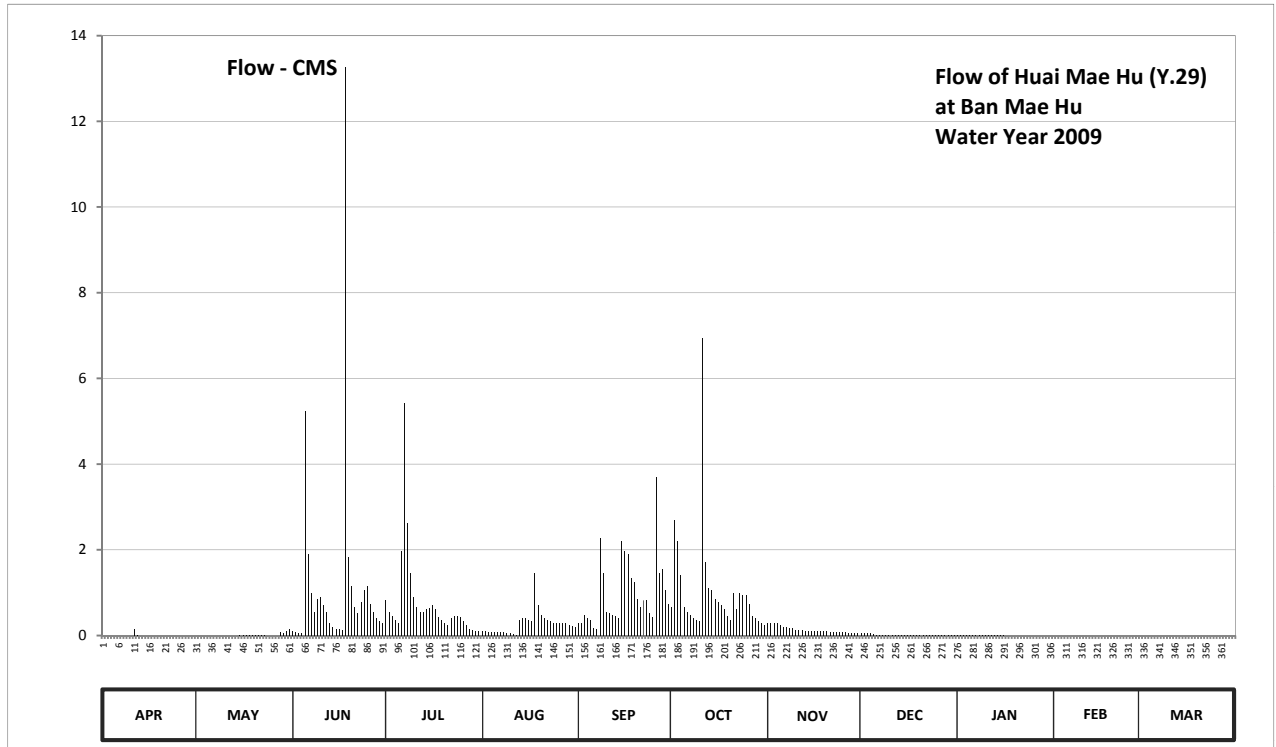
Lat 17 - 42 - 11 N Long 99 - 44 - 24 E

Location : on left bank at Ban Mae Hu.

	Ban	Mae Hu	Amphoe	Si Satchanalai	Changwat	Sukhothai
Drainage Area	57	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+93.445 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+98.126 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 means of 5 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
Rated by Current Meter	1983 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	93.75	93.77	93.97	94.23	93.96	94.05	94.19	94.06	93.93	93.84	93.81	93.79	
2	93.75	93.77	93.95	94.15	93.96	94.05	94.57	94.05	93.93	93.84	93.81	93.79	
3	93.75	93.77	93.93	94.12	93.95	94.13	94.50	94.05	93.92	93.84	93.81	93.79	
4	93.75	93.77	93.92	94.09	93.95	94.10	94.36	94.05	93.92	93.83	93.81	93.79	
5	93.75	93.77	94.87	94.05	93.95	94.08	94.19	94.04	93.91	93.83	93.81	93.78	
6	93.74	93.77	94.45	94.46	93.95	94.01	94.15	94.02	93.90	93.83	93.81	93.78	
7	93.74	93.77	94.27	94.89	93.95	93.99	94.13	94.02	93.90	93.85	93.81	93.78	
8	93.74	93.77	94.15	94.56	93.94	94.51	94.10	94.01	93.90	93.85	93.81	93.78	
9	93.74	93.77	94.24	94.37	93.93	94.37	94.08	94.01	93.90	93.85	93.81	93.78	
10	93.74	93.77	94.25	94.25	93.92	94.15	94.07	93.98	93.90	93.84	93.81	93.78	
11	93.99	93.77	94.20	94.19	93.91	94.14	95.04	93.98	93.89	93.84	93.81	93.76	
12	93.85	93.77	94.15	94.15	93.90	94.13	94.42	93.98	93.89	93.84	93.81	93.76	
13	93.80	93.78	94.05	94.15	94.08	94.12	94.30	93.97	93.89	93.83	93.81	93.76	
14	93.78	93.82	94.02	94.17	94.10	94.10	94.29	93.97	93.89	93.83	93.81	93.75	
15	93.78	93.85	94.00	94.18	94.10	94.50	94.24	93.97	93.89	93.83	93.81	93.75	
16	93.79	93.87	94.00	94.20	94.08	94.46	94.22	93.97	93.88	93.83	93.81	93.75	
17	93.80	93.87	93.98	94.17	94.07	94.45	94.20	93.97	93.88	93.82	93.81	93.75	
18	93.79	93.86	95.51	94.11	94.37	94.35	94.17	93.97	93.88	93.82	93.81	93.75	
19	93.79	93.85	94.44	94.08	94.20	94.33	94.12	93.96	93.87	93.82	93.80	93.75	
20	93.77	93.85	94.31	94.05	94.13	94.24	94.09	93.96	93.87	93.82	93.80	93.75	
21	93.76	93.85	94.19	94.04	94.10	94.19	94.27	93.95	93.86	93.82	93.80	93.77	
22	93.75	93.85	94.14	94.10	94.08	94.23	94.17	93.95	93.86	93.82	93.80	93.77	
23	93.75	93.83	94.22	94.12	94.07	94.23	94.27	93.95	93.85	93.82	93.80	93.76	
24	93.74	93.82	94.29	94.12	94.06	94.14	94.26	93.94	93.85	93.82	93.80	93.76	
25	93.74	93.81	94.31	94.11	94.06	94.11	94.26	93.94	93.85	93.82	93.80	93.75	
26	93.76	93.80	94.21	94.07	94.06	94.70	94.21	93.94	93.85	93.82	93.80	93.75	
27	93.75	93.79	94.15	94.04	94.05	94.37	94.12	93.93	93.85	93.82	93.80	93.75	
28	93.76	93.94	94.10	94.00	94.05	94.39	94.10	93.93	93.85	93.82	93.80	93.75	
29	93.76	93.92	94.07	93.98	94.04	94.29	94.07	93.92	93.85	93.81		93.75	
30	93.76	93.97	94.05	93.97	94.03	94.21	94.05	93.92	93.85	93.81		93.75	
31		94.00		93.97	94.02		94.04		93.85	93.81		93.75	
Mean	93.77	93.82	94.21	94.17	94.03	94.24	94.23	93.98	93.88	93.83	93.81	93.76	
Max	93.99	94.00	95.51	94.89	94.37	94.70	95.04	94.06	93.93	93.85	93.81	93.79	95.51
Min	93.74	93.77	93.92	93.97	93.90	93.99	94.04	93.92	93.85	93.81	93.80	93.75	93.74
Annual Max Momentary Gage Height	96.15		m. (MSL.) ,				at 06.00 Hours , on Jun 18 , 2009						
Zero Gage at Bottom Elevation	93.44		m. (MSL.) ,			River Bed	93.22		m. (MSL)				
Left Bank Elevation	96.42		m. (MSL.) ,										
Right Bank Elevation	96.02		m. (MSL.) ,			Drainage Area	57		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.11	0.82	0.10	0.28	0.67	0.30	0.06	0.01	0.00	0.00	
2	0.00	0.00	0.08	0.55	0.10	0.28	2.69	0.28	0.06	0.01	0.00	0.00	
3	0.00	0.00	0.06	0.46	0.08	0.49	2.20	0.28	0.05	0.01	0.00	0.00	
4	0.00	0.00	0.05	0.37	0.08	0.40	1.40	0.28	0.05	0.01	0.00	0.00	
5	0.00	0.00	5.23	0.28	0.08	0.35	0.67	0.25	0.03	0.01	0.00	0.00	
6	0.00	0.00	1.90	1.96	0.08	0.18	0.55	0.20	0.02	0.01	0.00	0.00	
7	0.00	0.00	0.98	5.41	0.08	0.14	0.49	0.20	0.02	0.01	0.00	0.00	
8	0.00	0.00	0.55	2.62	0.07	2.27	0.40	0.18	0.02	0.01	0.00	0.00	
9	0.00	0.00	0.86	1.45	0.06	1.45	0.35	0.18	0.02	0.01	0.00	0.00	
10	0.00	0.00	0.90	0.90	0.05	0.55	0.33	0.12	0.02	0.01	0.00	0.00	
11	0.14	0.00	0.70	0.67	0.03	0.52	6.94	0.12	0.02	0.01	0.00	0.00	
12	0.01	0.00	0.55	0.55	0.02	0.49	1.72	0.12	0.02	0.01	0.00	0.00	
13	0.00	0.00	0.28	0.55	0.35	0.46	1.10	0.11	0.02	0.01	0.00	0.00	
14	0.00	0.00	0.20	0.61	0.40	0.40	1.06	0.11	0.02	0.01	0.00	0.00	
15	0.00	0.01	0.15	0.64	0.40	2.20	0.86	0.11	0.02	0.01	0.00	0.00	
16	0.00	0.01	0.15	0.70	0.35	1.96	0.78	0.11	0.02	0.01	0.00	0.00	
17	0.00	0.01	0.12	0.61	0.33	1.90	0.70	0.11	0.02	0.00	0.00	0.00	
18	0.00	0.01	13.26	0.43	1.45	1.35	0.61	0.11	0.02	0.00	0.00	0.00	
19	0.00	0.01	1.84	0.35	0.70	1.25	0.46	0.10	0.01	0.00	0.00	0.00	
20	0.00	0.01	1.15	0.28	0.49	0.86	0.37	0.10	0.01	0.00	0.00	0.00	
21	0.00	0.01	0.67	0.25	0.40	0.67	0.98	0.08	0.01	0.00	0.00	0.00	
22	0.00	0.01	0.52	0.40	0.35	0.82	0.61	0.08	0.01	0.00	0.00	0.00	
23	0.00	0.01	0.78	0.46	0.33	0.82	0.98	0.08	0.01	0.00	0.00	0.00	
24	0.00	0.00	1.06	0.46	0.30	0.52	0.94	0.07	0.01	0.00	0.00	0.00	
25	0.00	0.00	1.15	0.43	0.30	0.43	0.94	0.07	0.01	0.00	0.00	0.00	
26	0.00	0.00	0.74	0.33	0.30	3.70	0.74	0.07	0.01	0.00	0.00	0.00	
27	0.00	0.00	0.55	0.25	0.28	1.45	0.46	0.06	0.01	0.00	0.00	0.00	
28	0.00	0.07	0.40	0.15	0.28	1.55	0.40	0.06	0.01	0.00	0.00	0.00	
29	0.00	0.05	0.33	0.12	0.25	1.06	0.33	0.05	0.01	0.00	0.00	0.00	
30	0.00	0.11	0.28	0.11	0.22	0.74	0.28	0.05	0.01	0.00	0.00	0.00	
31		0.15		0.11	0.20		0.25		0.01	0.00		0.00	
Total	0.15	0.47	35.60	23.28	8.51	29.54	31.26	4.04	0.64	0.16	0.00	0.00	133.65 CMSDAY
Mean	0.01	0.02	1.19	0.75	0.27	0.98	1.01	0.13	0.02	0.01	0.00	0.00	0.37 CMS
Max	0.14	0.15	13.26	5.41	1.45	3.70	6.94	0.30	0.06	0.01	0.00	0.00	13.26 CMS
Min	0.00	0.00	0.05	0.11	0.02	0.14	0.25	0.05	0.01	0.00	0.00	0.00	0.00 CMS
Runoff	0.01	0.04	3.08	2.01	0.74	2.55	2.70	0.35	0.06	0.01	0.00	0.00	11.55 MCM
Momentary Peak	25.75 CMS. at 96.15 m. (MSL) at 06.00 Hours , on Jun 18 , 2009												
Runoff Yield	6.42 Liters/Second/Square KM.			Momentary Peak Yield			451.754 Liters/Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Huai Pong at Ban Pong , Lampang (Y.30)

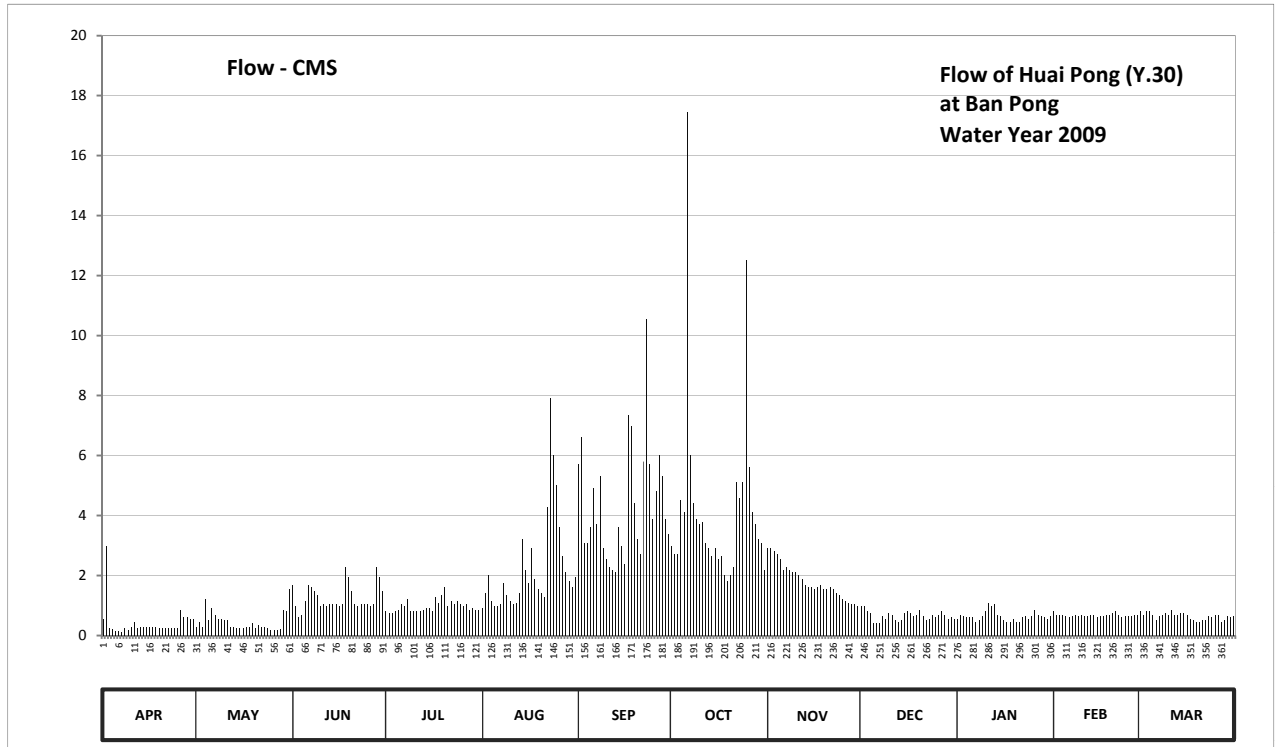
Lat 18 - 42 - 29 N Long 99 - 57 - 40 E

Location : on right bank at the bridge on highway.

	Ban Pong	Amphoe Ngao	Changwat	Lampang
Drainage Area	325	sq.km.		
Type of Gage	Staff gage			
Zero Gage at Bottom	+265.630 m. (MSL.)			
Bench Mark	B.M.-H.D.			
Location BM	On right bank about 25 meters from the top staff gage.			Elevation +271.053 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.			
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings			
Period of Available Gage Records	1983 to date			
Rating Operation				
Period of Rating	1983 to date			
Rated by Flot	-			
Rated by Current Meter	1983 to date			
Stability of Channel Regimes	Rather unstable.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records good. The carcass of the bridge is near the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2009.			

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.95	265.90	266.14	266.00	266.02	266.57	266.30	266.29	266.03	265.95	266.00	266.00	
2	266.30	265.93	266.03	265.99	266.10	266.65	266.27	266.29	266.03	265.98	265.98	265.98	
3	265.88	265.89	265.96	265.99	266.19	266.31	266.27	266.28	266.00	265.97	265.98	266.00	
4	265.87	266.07	265.98	266.00	266.06	266.31	266.45	266.27	265.99	265.96	265.98	266.00	
5	265.85	265.94	266.06	266.01	266.03	266.36	266.41	266.25	265.92	265.96	265.97	265.98	
6	265.85	266.02	266.14	266.04	266.03	266.49	267.38	266.21	265.92	265.96	265.96	265.94	
7	265.84	265.98	266.13	266.03	266.04	266.37	266.60	266.22	265.92	265.93	265.97	265.97	
8	265.88	265.95	266.11	266.07	266.15	266.53	266.44	266.21	265.97	265.94	265.98	265.98	
9	265.86	265.95	266.09	266.00	266.09	266.29	266.39	266.20	265.95	265.97	265.97	265.99	
10	265.89	265.94	266.03	266.00	266.06	266.25	266.37	266.20	265.99	266.00	265.98	265.98	
11	265.93	265.94	266.04	266.00	266.04	266.22	266.38	266.19	265.98	266.05	265.97	266.01	
12	265.88	265.90	266.03	266.00	266.05	266.21	266.31	266.17	265.94	266.03	265.97	265.98	
13	265.89	265.90	266.04	266.01	266.10	266.20	266.29	266.14	265.93	266.04	265.98	265.98	
14	265.89	265.88	266.04	266.02	266.32	266.36	266.26	266.13	265.94	265.98	265.98	265.99	
15	265.90	265.88	266.04	266.02	266.21	266.30	266.29	266.13	265.99	265.97	265.96	265.99	
16	265.89	265.88	266.03	266.00	266.15	266.23	266.25	266.12	266.00	265.94	265.97	265.98	
17	265.89	265.89	266.04	266.08	266.29	266.71	266.26	266.13	265.99	265.93	265.97	265.95	
18	265.89	265.89	266.22	266.05	266.17	266.68	266.19	266.14	265.97	265.93	265.98	265.94	
19	265.88	265.92	266.18	266.09	266.12	266.44	266.16	266.12	265.98	265.95	265.98	265.93	
20	265.88	265.88	266.11	266.13	266.10	266.32	266.19	266.12	266.01	265.93	265.99	265.93	
21	265.88	265.91	266.04	266.03	266.08	266.27	266.22	266.13	265.97	265.93	266.00	265.94	
22	265.88	265.90	266.03	266.06	266.43	266.58	266.51	266.12	265.94	265.96	265.98	265.94	
23	265.88	265.90	266.04	266.04	266.75	266.94	266.46	266.10	265.95	265.97	265.96	265.97	
24	265.88	265.88	266.04	266.06	266.60	266.57	266.51	266.09	265.98	265.95	265.97	265.96	
25	265.88	265.86	266.04	266.04	266.50	266.39	267.08	266.07	265.96	265.97	265.97	265.98	
26	266.01	265.86	266.03	266.03	266.36	266.48	266.56	266.06	265.98	266.01	265.97	265.98	
27	265.96	265.86	266.04	266.04	266.26	266.60	266.41	266.05	266.00	265.98	265.98	265.93	
28	265.96	265.87	266.22	266.01	266.20	266.53	266.37	266.04	265.98	265.97	265.98	265.94	
29	265.95	266.01	266.18	266.02	266.16	266.39	266.32	266.04	265.95	265.96		265.97	
30	265.95	266.00	266.11	266.01	266.13	266.34	266.31	266.03	265.96	265.95		265.96	
31		266.12		266.01	266.18		266.21		265.95	265.97		265.97	
Mean	265.91	265.93	266.07	266.03	266.19	266.43	266.40	266.15	265.97	265.97	265.98	265.97	
Max	266.30	266.12	266.22	266.13	266.75	266.94	267.38	266.29	266.03	266.05	266.00	266.01	267.38
Min	265.84	265.86	265.96	265.99	266.02	266.20	266.16	266.03	265.92	265.93	265.96	265.93	265.84
Annual Max Momentary Gage Height		267.88	m. (MSL.) ,				at 06.00 Hours , on Oct 25 , 2009						
Zero Gage at Bottom Elevation		265.63	m. (MSL.) ,			River Bed	265.85	m. (MSL)					
Left Bank Elevation			273.90	m. (MSL.) ,									
Right Bank Elevation			273.88	m. (MSL.) ,		Drainage Area	325	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.30	1.68	0.80	0.92	5.70	3.00	2.91	0.98	0.55	0.80	0.80	
2	3.00	0.45	0.98	0.75	1.40	6.60	2.73	2.91	0.98	0.70	0.70	0.70	
3	0.24	0.27	0.60	0.75	2.03	3.10	2.73	2.82	0.80	0.65	0.70	0.80	
4	0.21	1.22	0.70	0.80	1.16	3.10	4.50	2.73	0.75	0.60	0.70	0.80	
5	0.15	0.50	1.16	0.86	0.98	3.60	4.10	2.55	0.40	0.60	0.65	0.70	
6	0.15	0.92	1.68	1.04	0.98	4.90	17.44	2.19	0.40	0.60	0.60	0.50	
7	0.12	0.70	1.61	0.98	1.04	3.70	6.00	2.28	0.40	0.45	0.65	0.65	
8	0.24	0.55	1.47	1.22	1.75	5.30	4.40	2.19	0.65	0.50	0.70	0.70	
9	0.18	0.55	1.34	0.80	1.34	2.91	3.90	2.10	0.55	0.65	0.65	0.75	
10	0.27	0.50	0.98	0.80	1.16	2.55	3.70	2.10	0.75	0.80	0.70	0.70	
11	0.45	0.50	1.04	0.80	1.04	2.28	3.80	2.03	0.70	1.10	0.65	0.86	
12	0.24	0.30	0.98	0.80	1.10	2.19	3.10	1.89	0.50	0.98	0.65	0.70	
13	0.27	0.30	1.04	0.86	1.40	2.10	2.91	1.68	0.45	1.04	0.70	0.70	
14	0.27	0.24	1.04	0.92	3.20	3.60	2.64	1.61	0.50	0.70	0.70	0.75	
15	0.30	0.24	1.04	0.92	2.19	3.00	2.91	1.61	0.75	0.65	0.60	0.75	
16	0.27	0.24	0.98	0.80	1.75	2.37	2.55	1.54	0.80	0.50	0.65	0.70	
17	0.27	0.27	1.04	1.28	2.91	7.34	2.64	1.61	0.75	0.45	0.65	0.55	
18	0.27	0.27	2.28	1.10	1.89	6.96	2.03	1.68	0.65	0.45	0.70	0.50	
19	0.24	0.40	1.96	1.34	1.54	4.40	1.82	1.54	0.70	0.55	0.70	0.45	
20	0.24	0.24	1.47	1.61	1.40	3.20	2.03	1.54	0.86	0.45	0.75	0.45	
21	0.24	0.35	1.04	0.98	1.28	2.73	2.28	1.61	0.65	0.45	0.80	0.50	
22	0.24	0.30	0.98	1.16	4.30	5.80	5.10	1.54	0.50	0.60	0.70	0.50	
23	0.24	0.30	1.04	1.04	7.90	10.56	4.60	1.40	0.55	0.65	0.60	0.65	
24	0.24	0.24	1.04	1.16	6.00	5.70	5.10	1.34	0.70	0.55	0.65	0.60	
25	0.24	0.18	1.04	1.04	5.00	3.90	12.52	1.22	0.60	0.65	0.65	0.70	
26	0.86	0.18	0.98	0.98	3.60	4.80	5.60	1.16	0.70	0.86	0.65	0.70	
27	0.60	0.18	1.04	1.04	2.64	6.00	4.10	1.10	0.80	0.70	0.70	0.45	
28	0.60	0.21	2.28	0.86	2.10	5.30	3.70	1.04	0.70	0.65	0.70	0.50	
29	0.55	0.86	1.96	0.92	1.82	3.90	3.20	1.04	0.55	0.60		0.65	
30	0.55	0.80	1.47	0.86	1.61	3.40	3.10	0.98	0.60	0.55		0.60	
31		1.54		0.86	1.96		2.19		0.55	0.65		0.65	
Total	12.29	14.10	37.94	30.13	69.39	130.99	130.42	53.94	20.22	19.88	19.05	20.01	558.36 CMSDAY
Mean	0.41	0.45	1.26	0.97	2.24	4.37	4.21	1.80	0.65	0.64	0.68	0.65	1.53 CMS
Max	3.00	1.54	2.28	1.61	7.90	10.56	17.44	2.91	0.98	1.10	0.80	0.86	17.44 CMS
Min	0.12	0.18	0.60	0.75	0.92	2.10	1.82	0.98	0.40	0.45	0.60	0.45	0.12 CMS
Runoff	1.06	1.22	3.28	2.60	6.00	11.32	11.27	4.66	1.75	1.72	1.65	1.73	48.24 MCM
Momentary Peak	27.36 CMS. at 267.88 m. (MSL.) at 06.00 Hours , on Oct 25 , 2009												
Runoff Yield	4.71 Liters/Second/Square KM.			Momentary Peak Yield				84,185 Liters/Second/Square KM.					

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Thung Nong , Phayao (Y.31)

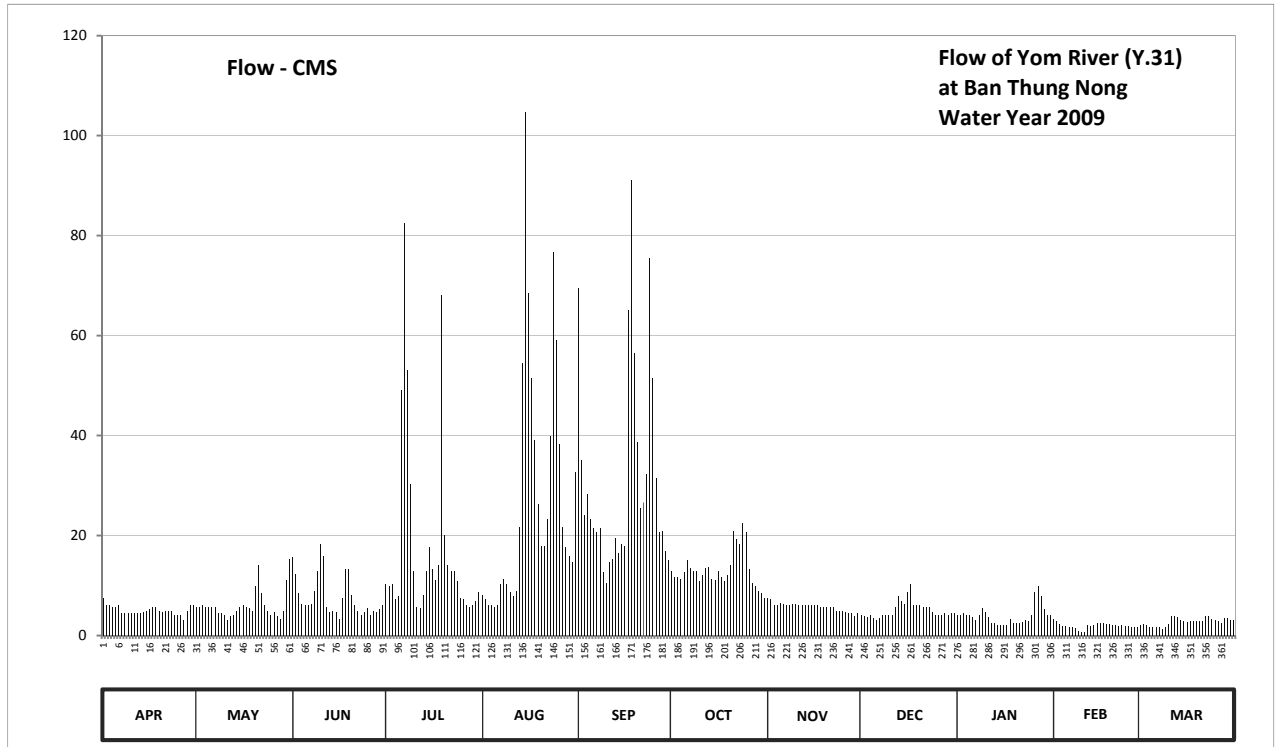
Lat 18 - 57 - 28 N Long 100 - 15 - 58 E

Location : on right bank downstream of the bridge of Pong - Chiang Muan road.

	Ban	Thung Nong	Amphoe	Chiang Muan	Changwat	Phayao
Drainage Area	1,981	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+257.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5 meters from the top staff gage.				Elevation	+266.960 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the islet about 200 meters downstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.15	258.09	258.42	258.24	258.17	259.69	258.33	258.15	258.01	258.01	257.93	257.81	
2	258.10	258.09	258.31	258.23	258.14	258.95	258.29	258.14	257.99	258.01	257.88	257.82	
3	258.10	258.10	258.18	258.24	258.10	258.68	258.29	258.10	257.96	258.02	257.82	257.80	
4	258.09	258.09	258.11	258.14	258.10	258.78	258.28	258.10	258.00	258.01	257.79	257.78	
5	258.09	258.09	258.10	258.16	258.08	258.66	258.32	258.12	257.95	258.01	257.79	257.76	
6	258.10	258.09	258.10	259.28	258.10	258.61	258.40	258.11	257.91	257.97	257.77	257.76	
7	258.02	258.09	258.11	259.91	258.24	258.59	258.35	258.10	257.95	257.91	257.76	257.77	
8	258.02	258.02	258.20	259.36	258.28	258.61	258.33	258.10	258.00	258.00	257.74	257.72	
9	258.02	258.02	258.33	258.83	258.24	258.32	258.33	258.11	258.01	258.07	257.69	257.76	
10	258.02	258.00	258.51	258.33	258.19	258.25	258.26	258.11	258.01	258.03	257.66	257.82	
11	258.02	257.90	258.43	258.09	258.16	258.39	258.30	258.10	258.01	257.97	257.67	257.99	
12	258.02	257.99	258.09	258.07	258.20	258.41	258.35	258.10	258.08	257.85	257.80	257.98	
13	258.02	258.00	258.03	258.17	258.62	258.55	258.36	258.10	258.16	257.86	257.79	257.96	
14	258.03	258.05	258.04	258.33	259.39	258.45	258.28	258.10	258.13	257.81	257.80	257.91	
15	258.05	258.09	258.03	258.49	260.28	258.51	258.27	258.10	258.11	257.80	257.84	257.89	
16	258.06	258.10	257.94	258.34	259.67	258.50	258.33	258.10	258.19	257.80	257.86	257.87	
17	258.09	258.09	258.15	258.27	259.33	259.60	258.29	258.10	258.24	257.81	257.84	257.88	
18	258.08	258.07	258.34	258.37	259.05	260.05	258.26	258.09	258.10	257.92	257.83	257.89	
19	258.05	258.05	258.34	259.66	258.73	259.43	258.30	258.09	258.10	257.86	257.82	257.89	
20	258.03	258.23	258.17	258.57	258.50	259.04	258.37	258.08	258.10	257.86	257.80	257.89	
21	258.05	258.37	258.10	258.37	258.50	258.71	258.60	258.08	258.09	257.86	257.80	257.89	
22	258.05	258.18	258.05	258.33	258.66	258.74	258.54	258.08	258.08	257.87	257.79	257.99	
23	258.05	258.10	258.01	258.33	259.07	258.88	258.51	258.05	258.08	257.90	257.80	257.99	
24	258.00	258.05	258.03	258.26	259.81	259.79	258.64	258.04	258.03	257.89	257.79	257.93	
25	258.00	258.00	258.07	258.15	259.48	259.33	258.59	258.04	258.00	258.01	257.79	257.90	
26	258.01	258.03	258.01	258.14	259.03	258.86	258.34	258.03	258.00	258.19	257.77	257.89	
27	257.91	257.99	258.05	258.10	258.62	258.59	258.25	258.02	258.01	258.23	257.78	257.86	
28	258.05	257.94	258.03	258.09	258.49	258.60	258.23	258.02	258.02	258.16	257.78	257.95	
29	258.10	258.05	258.06	258.10	258.43	258.46	258.20	257.98	258.01	258.06		257.95	
30	258.10	258.27	258.10	258.13	258.39	258.40	258.18	258.02	258.02	258.00		257.91	
31		258.41		258.19	258.89		258.15		258.02	258.00			
Mean	258.05	258.09	258.15	258.43	258.68	258.81	258.34	258.08	258.04	257.96	257.79	257.87	
Max	258.15	258.41	258.51	259.91	260.28	260.05	258.64	258.15	258.24	258.23	257.93	257.99	260.28
Min	257.91	257.90	257.94	258.07	258.08	258.25	258.15	257.98	257.91	257.80	257.66	257.72	257.66
Annual Max Momentary Gage Height	260.40		m. (MSL.) ,			at 15.00 Hours , on Aug 15 , 2009							
Zero Gage at Bottom Elevation	257.00		m. (MSL.) ,			River Bed	253.59		m. (MSL)				
Left Bank Elevation	267.60		m. (MSL.) ,										
Right Bank Elevation	267.28		m. (MSL.) ,			Drainage Area	1981		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	5.80	15.60	10.20	8.10	69.50	12.90	7.50	4.20	4.20	3.30	2.10	
2	6.00	5.80	12.30	9.90	7.20	35.00	11.70	7.20	3.90	4.20	2.80	2.20	
3	6.00	6.00	8.40	10.20	6.00	24.20	11.70	6.00	3.60	4.40	2.20	2.00	
4	5.80	5.80	6.30	7.20	6.00	28.20	11.40	6.00	4.00	4.20	1.90	1.80	
5	5.80	5.80	6.00	7.80	5.60	23.40	12.60	6.60	3.50	4.20	1.90	1.60	
6	6.00	5.80	6.00	49.00	6.00	21.40	15.00	6.30	3.10	3.70	1.70	1.60	
7	4.40	5.80	6.30	82.60	10.20	20.70	13.50	6.00	3.50	3.10	1.60	1.70	
8	4.40	4.40	9.00	53.00	11.40	21.40	12.90	6.00	4.00	4.00	1.40	1.20	
9	4.40	4.40	12.90	30.20	10.20	12.60	12.90	6.30	4.20	5.40	0.90	1.60	
10	4.40	4.00	18.30	12.90	8.70	10.50	10.80	6.30	4.20	4.60	0.60	2.20	
11	4.40	3.00	15.90	5.80	7.80	14.70	12.00	6.00	4.20	3.70	0.70	3.90	
12	4.40	3.90	5.80	5.40	9.00	15.30	13.50	6.00	5.60	2.50	2.00	3.80	
13	4.40	4.00	4.60	8.10	21.80	19.50	13.80	6.00	7.80	2.60	1.90	3.60	
14	4.60	5.00	4.80	12.90	54.50	16.50	11.40	6.00	6.90	2.10	2.00	3.10	
15	5.00	5.80	4.60	17.70	104.80	18.30	11.10	6.00	6.30	2.00	2.40	2.90	
16	5.20	6.00	3.40	13.20	68.50	18.00	12.90	6.00	8.70	2.00	2.60	2.70	
17	5.80	5.80	7.50	11.10	51.50	65.00	11.70	6.00	10.20	2.10	2.40	2.80	
18	5.60	5.40	13.20	14.10	39.00	91.00	10.80	5.80	6.00	3.20	2.30	2.90	
19	5.00	5.00	13.20	68.00	26.20	56.50	12.00	5.80	6.00	2.60	2.20	2.90	
20	4.60	9.90	8.10	20.10	18.00	38.60	14.10	5.60	6.00	2.60	2.00	2.90	
21	5.00	14.10	6.00	14.10	18.00	25.40	21.00	5.60	5.80	2.60	2.00	2.90	
22	5.00	8.40	5.00	12.90	23.40	26.60	19.20	5.60	5.60	2.70	1.90	3.90	
23	5.00	6.00	4.20	12.90	39.80	32.20	18.30	5.00	5.60	3.00	2.00	3.90	
24	4.00	5.00	4.60	10.80	76.60	75.40	22.60	4.80	4.60	2.90	1.90	3.30	
25	4.00	4.00	5.40	7.50	59.00	51.50	20.70	4.80	4.00	4.20	1.90	3.00	
26	4.20	4.60	4.20	7.20	38.20	31.40	13.20	4.60	4.00	8.70	1.70	2.90	
27	3.10	3.90	5.00	6.00	21.80	20.70	10.50	4.40	4.20	9.90	1.80	2.60	
28	5.00	3.40	4.60	5.80	17.70	21.00	9.90	4.40	4.40	7.80	1.80	3.50	
29	6.00	5.00	5.20	6.00	15.90	16.80	9.00	3.80	4.20	5.20		3.50	
30	6.00	11.10	6.00	6.90	14.70	15.00	8.40	4.40	4.40	4.00		3.10	
31		15.30		8.70	32.60		7.50		4.40	4.00		3.10	
Total	151.00	188.20	232.40	548.20	838.20	936.30	409.00	170.80	157.10	122.40	53.80	85.20	3892.60 CMSDAY
Mean	5.03	6.07	7.75	17.68	27.04	31.21	13.19	5.69	5.07	3.95	1.92	2.75	10.66 CMS
Max	7.50	15.30	18.30	82.60	104.80	91.00	22.60	7.50	10.20	9.90	3.30	3.90	104.80 CMS
Min	3.10	3.00	3.40	5.40	5.60	10.50	7.50	3.80	3.10	2.00	0.60	1.20	0.60 CMS
Runoff	13.05	16.26	20.08	47.36	72.42	80.90	35.34	14.76	13.57	10.58	4.65	7.36	336.32 MCM
Momentary Peak	112.00 CMS. at 260.40 m. (MSL.) at 15.00 Hours , on Aug 15 , 2009												
Runoff Yield	5.38 Liters/Second/Square KM.			Momentary Peak Yield				56.537 Liters/Second/Square KM.					

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Khlong Tan , Sukhothai (Y.33)

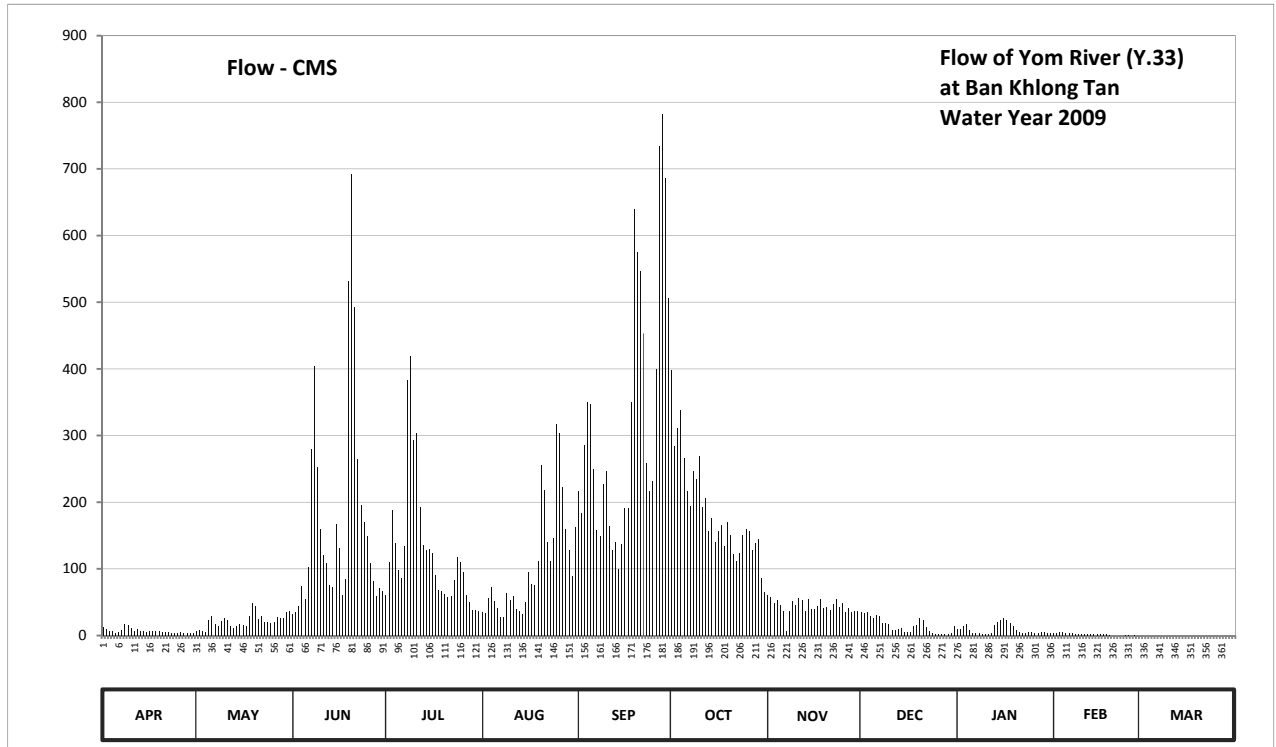
Lat 17 - 10 - 06 N Long 99 - 51 - 52 E

Location : on left bank at the bridge on road from Tambon Khlong Tan.

	Ban Khlong Tan	Amphoe Si Samrong	Changwat Sukhothai
Drainage Area	13,948 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+45.820 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 20.30 meters from the top staff gage.	Elevation	+66.280 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 means of 5 readings		
Period of Available Gage Records	1990 to date		
Rating Operation			
Period of Rating	1990 to date		
Rated by Flot	-		
Rated by Current Meter	1990 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by the temporary weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 26 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.21	46.95	47.71	48.28	47.76	50.19	51.85	48.28	47.77	47.08	46.72	46.32	
2	47.07	47.01	47.77	48.98	47.73	49.86	50.86	48.22	47.74	47.06	46.71	46.28	
3	46.97	46.90	48.01	49.90	48.20	50.87	51.12	48.07	47.79	47.26	46.82	46.27	
4	46.95	46.82	48.50	49.34	48.49	51.45	51.35	48.15	47.62	47.34	46.82	46.27	
5	46.80	47.49	48.18	48.83	48.13	51.42	50.68	48.03	47.56	47.02	46.75	46.25	
6	46.84	47.63	48.89	48.67	47.94	50.51	50.19	47.83	47.66	46.78	46.72	46.25	
7	47.01	47.32	50.82	49.28	47.58	49.57	49.97	46.91	47.63	46.72	46.72	46.24	
8	47.31	47.24	51.90	51.73	47.59	49.46	50.48	47.82	47.38	46.75	46.67	46.22	
9	47.27	47.45	50.55	52.02	48.32	50.29	50.37	48.12	47.36	46.67	46.67	46.21	
10	47.15	47.54	49.59	50.95	48.15	50.48	50.71	48.03	47.31	46.67	46.67	46.21	
11	46.94	47.48	49.11	51.06	48.25	49.66	49.94	48.21	46.99	46.67	46.67	46.20	
12	47.07	47.22	48.95	49.95	47.88	49.21	50.08	48.15	47.02	46.77	46.67	46.19	
13	46.97	47.16	48.52	49.29	47.82	49.35	49.56	47.82	47.05	47.27	46.67	46.19	
14	46.91	47.23	48.49	49.21	47.70	48.85	49.78	48.19	47.15	47.42	46.67	46.18	
15	46.86	47.33	49.69	49.22	48.11	49.32	49.35	47.90	46.89	47.47	46.67	46.14	
16	46.91	47.30	49.24	49.15	48.79	49.93	49.55	47.90	46.87	47.54	46.67	46.12	
17	46.92	47.25	48.28	48.73	48.55	49.93	49.67	48.00	46.89	47.46	46.67	46.11	
18	46.91	47.61	48.66	48.41	48.52	51.45	49.27	48.18	47.26	47.36	46.67	46.11	
19	46.90	48.07	52.96	48.39	48.99	53.79	49.72	47.91	47.29	47.23	46.48	46.10	
20	46.89	47.99	54.16	48.30	50.58	53.32	49.49	47.95	47.54	47.00	46.35	46.10	
21	46.84	47.52	52.64	48.22	50.20	53.09	49.12	47.87	47.47	46.86	46.36	46.09	
22	46.83	47.64	50.66	48.25	49.36	52.31	48.99	48.06	47.17	46.78	46.36	46.09	
23	46.80	47.39	49.98	48.64	49.00	50.60	49.14	48.19	46.95	46.81	46.32	46.08	
24	46.78	47.40	49.72	49.07	49.43	50.19	49.48	47.97	46.78	46.82	46.44	46.07	
25	46.80	47.35	49.46	48.98	51.17	50.33	49.60	48.08	46.69	46.82	46.44	46.07	
26	46.82	47.39	48.95	48.79	51.05	51.86	49.55	47.79	46.67	46.77	46.39	46.07	
27	46.80	47.59	48.62	48.29	50.25	54.46	49.20	47.94	46.67	46.79	46.43	46.07	
28	46.80	47.55	48.26	48.10	49.59	54.80	49.34	47.77	46.66	46.82	46.40	46.06	
29	46.80	47.55	48.46	47.87	49.21	54.12	49.41	47.81	46.67	46.82		46.06	
30	46.81	47.76	48.37	47.87	48.72	52.75	48.67	47.82	46.77	46.77		46.06	
31		47.80		47.80	49.64		48.35		47.26	46.72		46.05	
Mean	46.93	47.42	49.50	49.08	48.80	51.11	49.83	47.97	47.18	46.98	46.59	46.15	
Max	47.31	48.07	54.16	52.02	51.17	54.80	51.85	48.28	47.79	47.54	46.82	46.32	54.80
Min	46.78	46.82	47.71	47.80	47.58	48.85	48.35	46.91	46.66	46.67	46.32	46.05	46.05
Annual Max Momentary Gage Height	54.92		m. (MSL.) ,			at 06.00 Hours , on Sep 28 , 2009							
Zero Gage at Bottom Elevation	45.82		m. (MSL.) ,			River Bed	43.99	m. (MSL)					
Left Bank Elevation		55.83		m. (MSL.) ,									
Right Bank Elevation		55.83		m. (MSL.) ,		Drainage Area	13948	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.30	7.00	32.40	60.80	34.40	217.00	398.00	60.80	34.80	9.60	3.20	0.00	
2	9.40	8.20	34.80	110.40	33.20	184.00	284.00	57.20	33.60	9.20	3.10	0.00	
3	7.40	6.00	44.60	188.00	56.00	285.00	310.40	48.20	35.60	14.80	4.40	0.00	
4	7.00	4.40	74.00	139.20	73.40	350.00	338.00	53.00	28.80	17.60	4.40	0.00	
5	4.00	23.60	54.80	98.40	51.80	346.40	266.00	45.80	26.40	8.40	3.50	0.00	
6	4.80	29.20	103.20	85.60	41.60	249.00	217.00	37.20	30.40	3.80	3.20	0.00	
7	8.20	16.80	280.00	134.40	27.20	157.60	195.00	6.20	29.20	3.20	3.20	0.00	
8	16.40	14.20	404.00	383.60	27.60	148.80	246.00	36.80	19.20	3.50	2.70	0.00	
9	15.10	22.00	253.00	418.40	63.20	227.00	235.00	51.20	18.40	2.70	2.70	0.00	
10	11.50	25.60	159.20	293.00	53.00	246.00	269.00	45.80	16.40	2.70	2.70	0.00	
11	6.80	23.20	120.80	304.00	59.00	164.80	192.00	56.60	7.80	2.70	2.70	0.00	
12	9.40	13.60	108.00	193.00	39.20	128.80	206.00	53.00	8.40	3.70	2.70	0.00	
13	7.40	11.80	75.20	135.20	36.80	140.00	156.80	36.80	9.00	15.10	2.70	0.00	
14	6.20	13.90	73.40	128.80	32.00	100.00	176.00	55.40	11.50	20.80	2.70	0.00	
15	5.20	17.20	167.20	129.60	50.60	137.60	140.00	40.00	5.80	22.80	2.70	0.00	
16	6.20	16.00	131.20	124.00	95.20	191.00	156.00	40.00	5.40	25.60	2.70	0.00	
17	6.40	14.50	60.80	90.40	77.00	191.00	165.60	44.00	5.80	22.40	2.70	0.00	
18	6.20	28.40	84.80	68.60	75.20	350.00	133.60	54.80	14.80	18.40	2.70	0.00	
19	6.00	48.20	531.20	67.40	111.20	640.60	170.00	40.40	15.70	13.90	0.80	0.00	
20	5.80	43.60	692.40	62.00	256.00	574.80	151.20	42.00	25.60	8.00	0.00	0.00	
21	4.80	24.80	492.80	57.20	218.00	546.80	121.60	38.80	22.80	5.20	0.00	0.00	
22	4.60	29.60	264.00	59.00	140.80	453.20	111.20	47.60	12.10	3.80	0.00	0.00	
23	4.00	19.60	196.00	83.20	112.00	258.00	123.20	55.40	7.00	4.20	0.00	0.00	
24	3.80	20.00	170.00	117.60	146.40	217.00	150.40	42.80	3.80	4.40	0.40	0.00	
25	4.00	18.00	148.80	110.40	316.40	231.00	160.00	48.80	2.90	4.40	0.40	0.00	
26	4.40	19.60	108.00	95.20	303.00	399.20	156.00	35.60	2.70	3.70	0.00	0.00	
27	4.00	27.60	81.60	61.40	223.00	734.40	128.00	41.60	2.70	3.90	0.30	0.00	
28	4.00	26.00	59.60	50.00	159.20	782.00	139.20	34.80	2.60	4.40	0.00	0.00	
29	4.00	26.00	71.60	38.80	128.80	686.80	144.80	36.40	2.70	4.40	0.00	0.00	
30	4.20	34.40	66.20	38.80	89.60	506.00	85.60	36.80	3.70	3.70	0.00	0.00	
31		36.00		36.00	163.20		65.00		14.80	3.20		0.00	
Total	204.50	669.00	5143.60	3962.40	3294.00	9843.80	5790.60	1323.80	460.40	274.20	56.60	0.00	31022.90 CMSDAY
Mean	6.82	21.58	171.45	127.82	106.26	328.13	186.79	44.13	14.85	8.85	2.02	0.00	84.99 CMS
Max	16.40	48.20	692.40	418.40	316.40	782.00	398.00	60.80	35.60	25.60	4.40	0.00	782.00 CMS
Min	3.80	4.40	32.40	36.00	27.20	100.00	65.00	6.20	2.60	2.70	0.00	0.00	0.00 CMS
Runoff	17.67	57.80	444.41	342.35	284.60	850.50	500.31	114.38	39.78	23.69	4.89	0.00	2680.38 MCM
Momentary Peak	798.80 CMS. at 54.92 m. (MSL) at 06.00 Hours , on Sep 28 , 2009												
Runoff Yield	6.09 Liters/Second/Square KM.			Momentary Peak Yield			57.27 Liters/Second/Square KM.						

WATER YEAR : 2009

Yom RIVER BASIN

Nam Mae Lai at Ban Mae Lai , Phrae (Y.34)

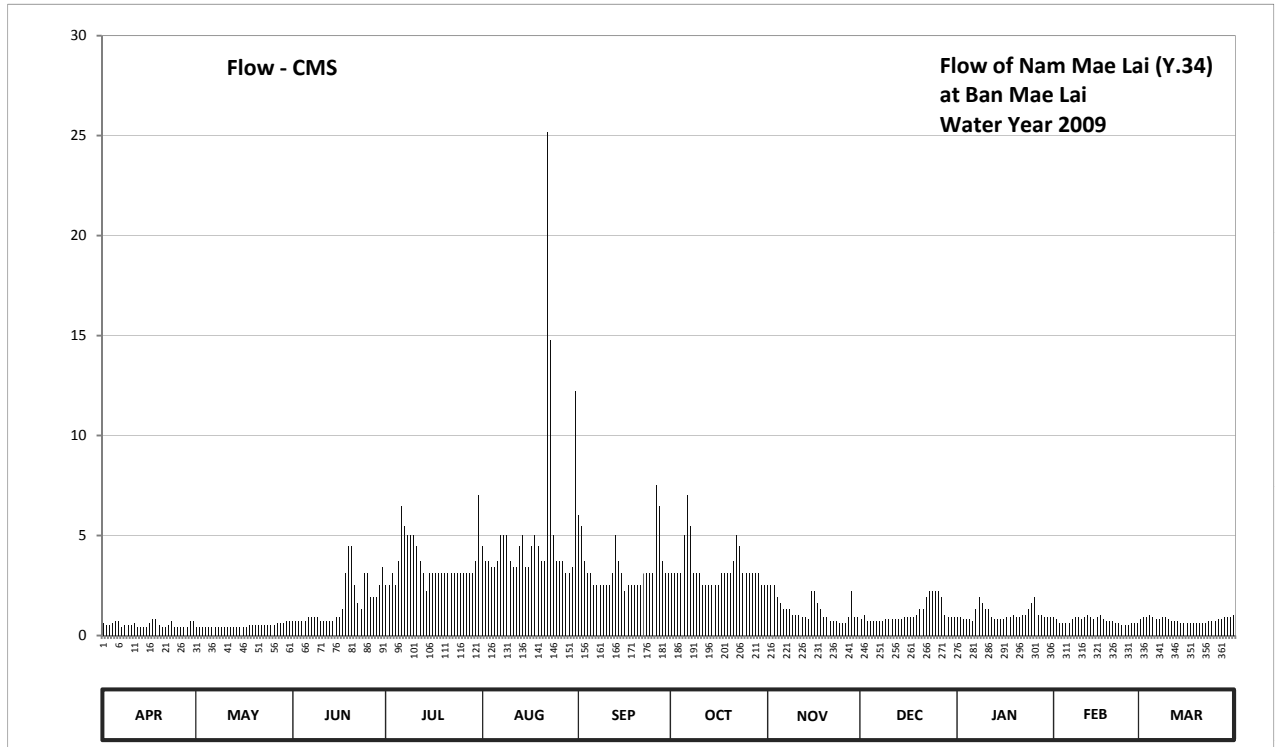
Lat 18 - 12 - 59 N Long 100 - 12 - 36 E

Location : on left bank at the bridge on highway.

	Ban Mae Lai	Amphoe Mueang	Changwat Phrae
Drainage Area	336 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+157.270 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.	Elevation	+167.293 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by the temporary weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.16	159.14	159.17	159.25	159.31	159.34	159.27	159.25	159.18	159.19	159.19	159.18	
2	159.15	159.14	159.17	159.25	159.29	159.33	159.27	159.25	159.20	159.19	159.18	159.19	
3	159.15	159.14	159.17	159.27	159.29	159.29	159.27	159.25	159.17	159.18	159.16	159.19	
4	159.16	159.14	159.17	159.25	159.28	159.27	159.27	159.23	159.17	159.18	159.16	159.20	
5	159.17	159.14	159.17	159.29	159.28	159.27	159.32	159.22	159.17	159.18	159.16	159.19	
6	159.17	159.14	159.19	159.35	159.29	159.25	159.36	159.21	159.17	159.17	159.16	159.18	
7	159.14	159.14	159.19	159.33	159.32	159.25	159.33	159.21	159.17	159.21	159.18	159.18	
8	159.15	159.14	159.19	159.32	159.32	159.25	159.27	159.21	159.17	159.23	159.19	159.19	
9	159.15	159.14	159.19	159.32	159.32	159.25	159.27	159.20	159.18	159.22	159.19	159.19	
10	159.15	159.14	159.17	159.32	159.29	159.25	159.27	159.20	159.18	159.21	159.18	159.18	
11	159.16	159.14	159.17	159.31	159.28	159.25	159.25	159.20	159.18	159.21	159.19	159.17	
12	159.14	159.14	159.17	159.29	159.28	159.27	159.25	159.19	159.18	159.19	159.20	159.17	
13	159.14	159.14	159.17	159.27	159.31	159.32	159.25	159.19	159.18	159.18	159.19	159.17	
14	159.14	159.14	159.17	159.24	159.32	159.29	159.25	159.18	159.18	159.18	159.18	159.16	
15	159.14	159.14	159.19	159.27	159.28	159.27	159.25	159.24	159.19	159.18	159.19	159.16	
16	159.16	159.14	159.19	159.27	159.28	159.24	159.25	159.24	159.19	159.18	159.20	159.16	
17	159.18	159.14	159.21	159.27	159.31	159.25	159.27	159.22	159.19	159.19	159.18	159.16	
18	159.18	159.15	159.27	159.27	159.32	159.25	159.27	159.21	159.19	159.19	159.17	159.16	
19	159.15	159.15	159.31	159.27	159.31	159.25	159.27	159.19	159.20	159.20	159.17	159.16	
20	159.14	159.15	159.31	159.27	159.29	159.25	159.27	159.19	159.21	159.19	159.17	159.16	
21	159.14	159.15	159.25	159.27	159.29	159.25	159.29	159.17	159.21	159.19	159.16	159.16	
22	159.15	159.15	159.22	159.27	159.62	159.27	159.32	159.17	159.23	159.20	159.16	159.16	
23	159.17	159.15	159.21	159.27	159.49	159.27	159.31	159.17	159.24	159.20	159.15	159.17	
24	159.14	159.15	159.27	159.27	159.32	159.27	159.27	159.16	159.24	159.21	159.15	159.17	
25	159.14	159.15	159.27	159.27	159.29	159.27	159.27	159.16	159.24	159.22	159.15	159.17	
26	159.14	159.15	159.23	159.27	159.29	159.37	159.27	159.16	159.24	159.23	159.16	159.18	
27	159.14	159.16	159.23	159.27	159.29	159.35	159.27	159.19	159.23	159.20	159.16	159.18	
28	159.14	159.16	159.23	159.27	159.27	159.29	159.27	159.24	159.20	159.20	159.16	159.19	
29	159.17	159.16	159.25	159.27	159.27	159.27	159.27	159.19	159.19	159.19	159.19	159.19	
30	159.17	159.17	159.28	159.29	159.28	159.27	159.25	159.19	159.19	159.19	159.19	159.19	
31		159.17	159.36	159.45			159.25		159.19	159.19		159.20	
Mean	159.15	159.15	159.21	159.28	159.32	159.28	159.27	159.20	159.20	159.20	159.17	159.18	
Max	159.18	159.17	159.31	159.36	159.62	159.37	159.36	159.25	159.24	159.23	159.20	159.20	159.62
Min	159.14	159.14	159.17	159.24	159.27	159.24	159.25	159.16	159.17	159.17	159.15	159.16	159.14
Annual Max Momentary Gage Height	159.87	m. (MSL.) ,		at 18.00 Hours , on Aug 22 , 2009									
Zero Gage at Bottom Elevation	157.27	m. (MSL.) ,		River Bed		157.81	m. (MSL)						
Left Bank Elevation	167.47	m. (MSL.) ,											
Right Bank Elevation	167.46	m. (MSL.) ,		Drainage Area		336	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.40	0.70	2.50	4.50	6.00	3.10	2.50	0.80	0.90	0.90	0.80	
2	0.50	0.40	0.70	2.50	3.70	5.50	3.10	2.50	1.00	0.90	0.80	0.90	
3	0.50	0.40	0.70	3.10	3.70	3.70	3.10	2.50	0.70	0.80	0.60	0.90	
4	0.60	0.40	0.70	2.50	3.40	3.10	3.10	1.90	0.70	0.80	0.60	1.00	
5	0.70	0.40	0.70	3.70	3.40	3.10	5.00	1.60	0.70	0.80	0.60	0.90	
6	0.70	0.40	0.90	6.50	3.70	2.50	7.00	1.30	0.70	0.70	0.60	0.80	
7	0.40	0.40	0.90	5.50	5.00	2.50	5.50	1.30	0.70	1.30	0.80	0.80	
8	0.50	0.40	0.90	5.00	5.00	2.50	3.10	1.30	0.70	1.90	0.90	0.90	
9	0.50	0.40	0.90	5.00	5.00	2.50	3.10	1.00	0.80	1.60	0.90	0.90	
10	0.50	0.40	0.70	5.00	3.70	2.50	3.10	1.00	0.80	1.30	0.80	0.80	
11	0.60	0.40	0.70	4.50	3.40	2.50	2.50	1.00	0.80	1.30	0.90	0.70	
12	0.40	0.40	0.70	3.70	3.40	3.10	2.50	0.90	0.80	0.90	1.00	0.70	
13	0.40	0.40	0.70	3.10	4.50	5.00	2.50	0.90	0.80	0.80	0.90	0.70	
14	0.40	0.40	0.70	2.20	5.00	3.70	2.50	0.80	0.80	0.80	0.80	0.60	
15	0.40	0.40	0.90	3.10	3.40	3.10	2.50	2.20	0.90	0.80	0.90	0.60	
16	0.60	0.40	0.90	3.10	3.40	2.20	2.50	2.20	0.90	0.80	1.00	0.60	
17	0.80	0.40	1.30	3.10	4.50	2.50	3.10	1.60	0.90	0.90	0.80	0.60	
18	0.80	0.50	3.10	3.10	5.00	2.50	3.10	1.30	0.90	0.90	0.70	0.60	
19	0.50	0.50	4.50	3.10	4.50	2.50	3.10	0.90	1.00	1.00	0.70	0.60	
20	0.40	0.50	4.50	3.10	3.70	2.50	3.10	0.90	1.30	0.90	0.70	0.60	
21	0.40	0.50	2.50	3.10	3.70	2.50	3.70	0.70	1.30	0.90	0.60	0.60	
22	0.50	0.50	1.60	3.10	25.20	3.10	5.00	0.70	1.90	1.00	0.60	0.60	
23	0.70	0.50	1.30	3.10	14.76	3.10	4.50	0.70	2.20	1.00	0.50	0.70	
24	0.40	0.50	3.10	3.10	5.00	3.10	3.10	0.60	2.20	1.30	0.50	0.70	
25	0.40	0.50	3.10	3.10	3.70	3.10	3.10	0.60	2.20	1.60	0.50	0.70	
26	0.40	0.50	1.90	3.10	3.70	7.50	3.10	0.60	2.20	1.90	0.60	0.80	
27	0.40	0.60	1.90	3.10	3.70	6.50	3.10	0.90	1.90	1.00	0.60	0.80	
28	0.40	0.60	1.90	3.10	3.10	3.70	3.10	2.20	1.00	1.00	0.60	0.90	
29	0.70	0.60	2.50	3.10	3.10	3.10	3.10	0.90	0.90	0.90		0.90	
30	0.70	0.70	3.40	3.70	3.40	3.10	2.50	0.90	0.90	0.90		0.90	
31		0.70		7.00	12.20		2.50		0.90	0.90		1.00	
Total	15.80	14.50	49.00	112.00	163.46	102.30	103.40	38.40	34.30	32.50	20.40	23.60	709.66 CMSDAY
Mean	0.53	0.47	1.63	3.61	5.27	3.41	3.34	1.28	1.11	1.05	0.73	0.76	1.94 CMS
Max	0.80	0.70	4.50	7.00	25.20	7.50	7.00	2.50	2.20	1.90	1.00	1.00	25.20 CMS
Min	0.40	0.40	0.70	2.20	3.10	2.20	2.50	0.60	0.70	0.70	0.50	0.60	0.40 CMS
Runoff	1.37	1.25	4.23	9.68	14.12	8.84	8.93	3.32	2.96	2.81	1.76	2.04	61.32 MCM
Momentary Peak	52.92 CMS. at 159.87 m. (MSL.) at 18.00 Hours , on Aug 22 , 2009												
Runoff Yield	5.79 Liters/Second/Square KM.			Momentary Peak Yield			157.500 Liters/Second/Square KM.						

WATER YEAR : 2009**Yom RIVER BASIN**

Nam Mae Khuan at Ban Pa Kha , Phayao (Y.36)

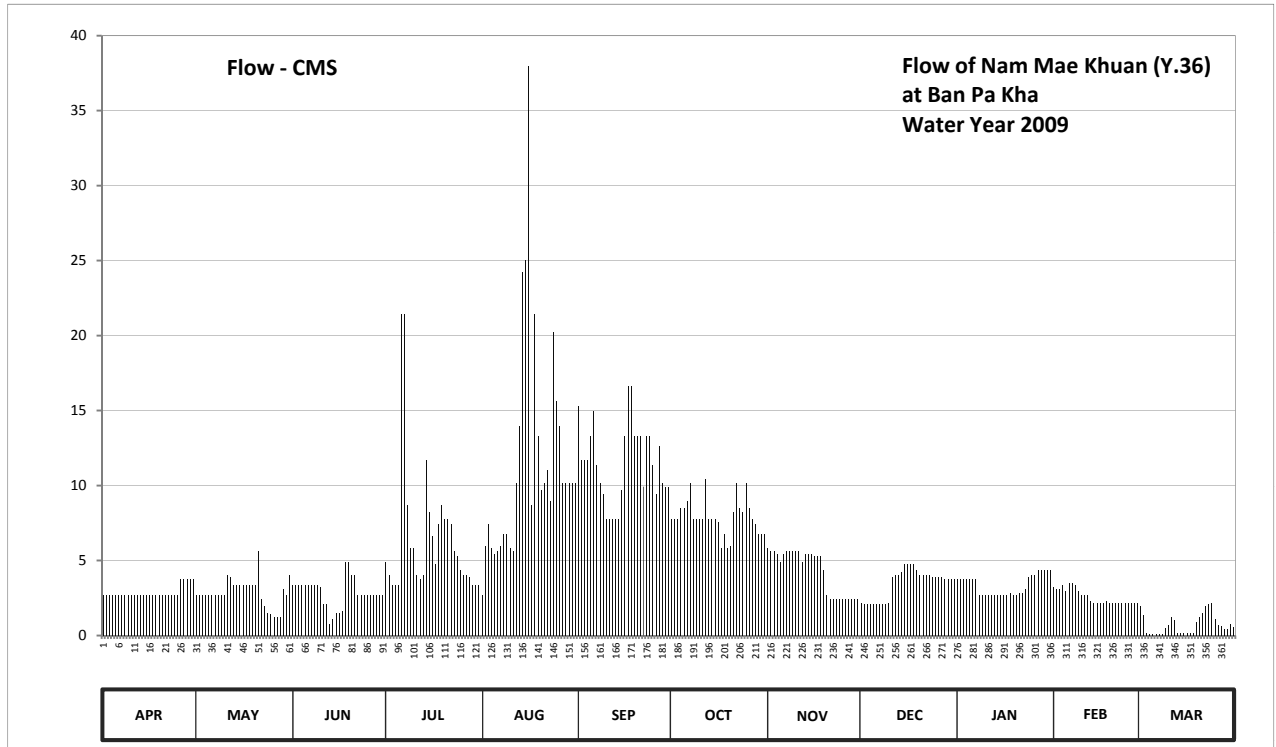
Lat 19 - 09 - 24 N Long 100 - 19 - 36 E

Location : on left bank at the bridge.

	Ban Pa Kha	Amphoe Pong	Changwat Phayao
Drainage Area	853 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+298.586 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 20 meters from the abutment of the bridge.	Elevation	+307.764 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by the islet at the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	300.29	300.29	300.34	300.44	300.29	300.85	300.59	300.49	300.25	300.37	300.33	300.23	
2	300.29	300.29	300.34	300.39	300.50	300.74	300.59	300.48	300.24	300.37	300.32	300.17	
3	300.29	300.29	300.34	300.34	300.57	300.74	300.59	300.48	300.24	300.37	300.32	299.98	
4	300.29	300.29	300.34	300.34	300.49	300.74	300.62	300.47	300.24	300.37	300.34	299.95	
5	300.29	300.29	300.34	300.34	300.47	300.79	300.62	300.44	300.24	300.37	300.31	299.95	
6	300.29	300.29	300.34	301.01	300.48	300.84	300.64	300.47	300.24	300.37	300.35	299.95	
7	300.29	300.29	300.34	301.01	300.50	300.73	300.69	300.48	300.24	300.37	300.35	299.95	
8	300.29	300.29	300.34	300.63	300.54	300.69	300.59	300.48	300.24	300.29	300.34	299.96	
9	300.29	300.29	300.34	300.49	300.54	300.66	300.59	300.48	300.24	300.29	300.31	300.05	
10	300.29	300.29	300.33	300.49	300.49	300.59	300.59	300.48	300.25	300.29	300.29	300.08	
11	300.29	300.39	300.24	300.39	300.48	300.59	300.59	300.48	300.38	300.29	300.29	300.15	
12	300.29	300.38	300.24	300.37	300.69	300.59	300.70	300.44	300.39	300.29	300.29	300.13	
13	300.29	300.34	300.09	300.39	300.81	300.59	300.59	300.47	300.39	300.29	300.26	299.98	
14	300.29	300.34	300.14	300.74	301.08	300.59	300.59	300.47	300.40	300.29	300.25	299.98	
15	300.29	300.34	300.19	300.61	301.10	300.67	300.59	300.47	300.43	300.29	300.25	299.98	
16	300.29	300.34	300.19	300.53	301.36	300.79	300.58	300.46	300.43	300.29	300.25	299.98	
17	300.29	300.34	300.20	300.43	300.63	300.89	300.49	300.46	300.43	300.29	300.25	299.98	
18	300.29	300.34	300.44	300.57	301.01	300.89	300.54	300.46	300.43	300.30	300.26	299.99	
19	300.29	300.34	300.44	300.63	300.79	300.79	300.49	300.41	300.41	300.29	300.25	300.11	
20	300.29	300.34	300.39	300.59	300.67	300.79	300.50	300.29	300.39	300.29	300.25	300.15	
21	300.29	300.48	300.39	300.59	300.69	300.79	300.61	300.27	300.39	300.30	300.25	300.19	
22	300.29	300.27	300.29	300.57	300.72	300.68	300.69	300.27	300.39	300.30	300.25	300.23	
23	300.29	300.23	300.29	300.48	300.64	300.79	300.62	300.27	300.39	300.32	300.25	300.24	
24	300.29	300.19	300.29	300.46	300.98	300.79	300.61	300.27	300.38	300.38	300.25	300.25	
25	300.29	300.18	300.29	300.41	300.86	300.73	300.69	300.27	300.38	300.39	300.25	300.14	
26	300.37	300.15	300.29	300.39	300.81	300.66	300.62	300.27	300.38	300.39	300.25	300.08	
27	300.37	300.15	300.29	300.39	300.69	300.77	300.59	300.27	300.38	300.41	300.25	300.07	
28	300.37	300.15	300.29	300.38	300.69	300.69	300.57	300.27	300.37	300.41	300.25	300.04	
29	300.37	300.32	300.29	300.34	300.69	300.68	300.54	300.27	300.37	300.41		300.04	
30	300.37	300.29	300.29	300.34	300.69	300.68	300.54	300.27	300.37	300.41		300.09	
31		300.39		300.34	300.69		300.54		300.37	300.41		300.06	
Mean	300.30	300.30	300.30	300.50	300.70	300.73	300.59	300.40	300.34	300.34	300.28	300.07	
Max	300.37	300.48	300.44	301.01	301.36	300.89	300.70	300.49	300.43	300.41	300.35	300.25	301.36
Min	300.29	300.15	300.09	300.34	300.29	300.59	300.49	300.27	300.24	300.29	300.25	299.95	299.95
Annual Max Momentary Gage Height		301.40		m. (MSL.) ,			at 12.00 Hours , on Aug 16 , 2009						
Zero Gage at Bottom Elevation		298.59		m. (MSL.) ,		River Bed	298.98		m. (MSL)				
Left Bank Elevation		307.39		m. (MSL.) ,									
Right Bank Elevation		307.39		m. (MSL.) ,		Drainage Area	853		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.68	2.68	3.36	4.92	2.68	15.30	7.80	5.82	2.20	3.78	3.22	1.96	
2	2.68	2.68	3.36	4.06	6.00	11.68	7.80	5.64	2.08	3.78	3.08	1.36	
3	2.68	2.68	3.36	3.36	7.40	11.68	7.80	5.64	2.08	3.78	3.08	0.16	
4	2.68	2.68	3.36	3.36	5.82	11.68	8.48	5.46	2.08	3.78	3.36	0.10	
5	2.68	2.68	3.36	3.36	5.46	13.28	8.48	4.92	2.08	3.78	2.94	0.10	
6	2.68	2.68	3.36	21.40	5.64	14.96	8.96	5.46	2.08	3.78	3.50	0.10	
7	2.68	2.68	3.36	21.40	6.00	11.36	10.16	5.64	2.08	3.78	3.50	0.10	
8	2.68	2.68	3.36	8.72	6.80	10.16	7.80	5.64	2.08	2.68	3.36	0.12	
9	2.68	2.68	3.36	5.82	6.80	9.44	7.80	5.64	2.08	2.68	2.94	0.50	
10	2.68	2.68	3.22	5.82	5.82	7.80	7.80	5.64	2.20	2.68	2.68	0.68	
11	2.68	4.06	2.08	4.06	5.64	7.80	7.80	5.64	3.92	2.68	2.68	1.20	
12	2.68	3.92	2.08	3.78	10.16	7.80	10.40	4.92	4.06	2.68	2.68	1.04	
13	2.68	3.36	0.74	4.06	13.94	7.80	7.80	5.46	4.06	2.68	2.32	0.16	
14	2.68	3.36	1.12	11.68	24.20	7.80	7.80	5.46	4.20	2.68	2.20	0.16	
15	2.68	3.36	1.52	8.24	25.00	9.68	7.80	5.46	4.74	2.68	2.20	0.16	
16	2.68	3.36	1.52	6.60	38.00	13.28	7.60	5.28	4.74	2.68	2.20	0.16	
17	2.68	3.36	1.60	4.74	8.72	16.66	5.82	5.28	4.74	2.68	2.20	0.16	
18	2.68	3.36	4.92	7.40	21.40	16.66	6.80	5.28	4.74	2.80	2.32	0.18	
19	2.68	3.36	4.92	8.72	13.28	13.28	5.82	4.38	4.38	2.68	2.20	0.88	
20	2.68	3.36	4.06	7.80	9.68	13.28	6.00	2.68	4.06	2.68	2.20	1.20	
21	2.68	5.64	4.06	7.80	10.16	13.28	8.24	2.44	4.06	2.80	2.20	1.52	
22	2.68	2.44	2.68	7.40	11.04	9.92	10.16	2.44	4.06	2.80	2.20	1.96	
23	2.68	1.96	2.68	5.64	8.96	13.28	8.48	2.44	4.06	3.08	2.20	2.08	
24	2.68	1.52	2.68	5.28	20.20	13.28	8.24	2.44	3.92	3.92	2.20	2.20	
25	2.68	1.44	2.68	4.38	15.64	11.36	10.16	2.44	3.92	4.06	2.20	1.12	
26	3.78	1.20	2.68	4.06	13.94	9.44	8.48	2.44	3.92	4.06	2.20	0.68	
27	3.78	1.20	2.68	4.06	10.16	12.64	7.80	2.44	3.92	4.38	2.20	0.62	
28	3.78	1.20	2.68	3.92	10.16	10.16	7.40	2.44	3.78	4.38	2.20	0.44	
29	3.78	3.08	2.68	3.36	10.16	9.92	6.80	2.44	3.78	4.38		0.44	
30	3.78	2.68	2.68	3.36	10.16	9.92	6.80	2.44	3.78	4.38		0.74	
31		4.06		3.36	10.16		6.80		3.78	4.38		0.56	
Total	85.90	88.08	86.20	201.92	359.18	344.58	245.88	129.74	107.66	14.04	72.46	22.84	1848.48
Mean	2.86	2.84	2.87	6.51	11.59	11.49	7.93	4.32	3.47	3.36	2.59	0.74	5.06
Max	3.78	5.64	4.92	21.40	38.00	16.66	10.40	5.82	4.74	4.38	3.50	2.20	38.00
Min	2.68	1.20	0.74	3.36	2.68	7.80	5.82	2.44	2.08	2.68	2.20	0.10	0.10
Runoff	7.42	7.61	7.45	17.45	31.03	29.77	21.24	11.21	9.30	8.99	6.26	1.97	159.71
Momentary Peak	40.00 CMS. at 301.40 m. (MSL.) at 12.00 Hours , on Aug 16 , 2009												
Runoff Yield	5.94 Liters/Second/Square KM.			Momentary Peak Yield			46,893 Liters/Second/Square KM.						

WATER YEAR : 2009**Yom RIVER BASIN****Yom River at Ban Wang Chin , Phrae (Y.37)**

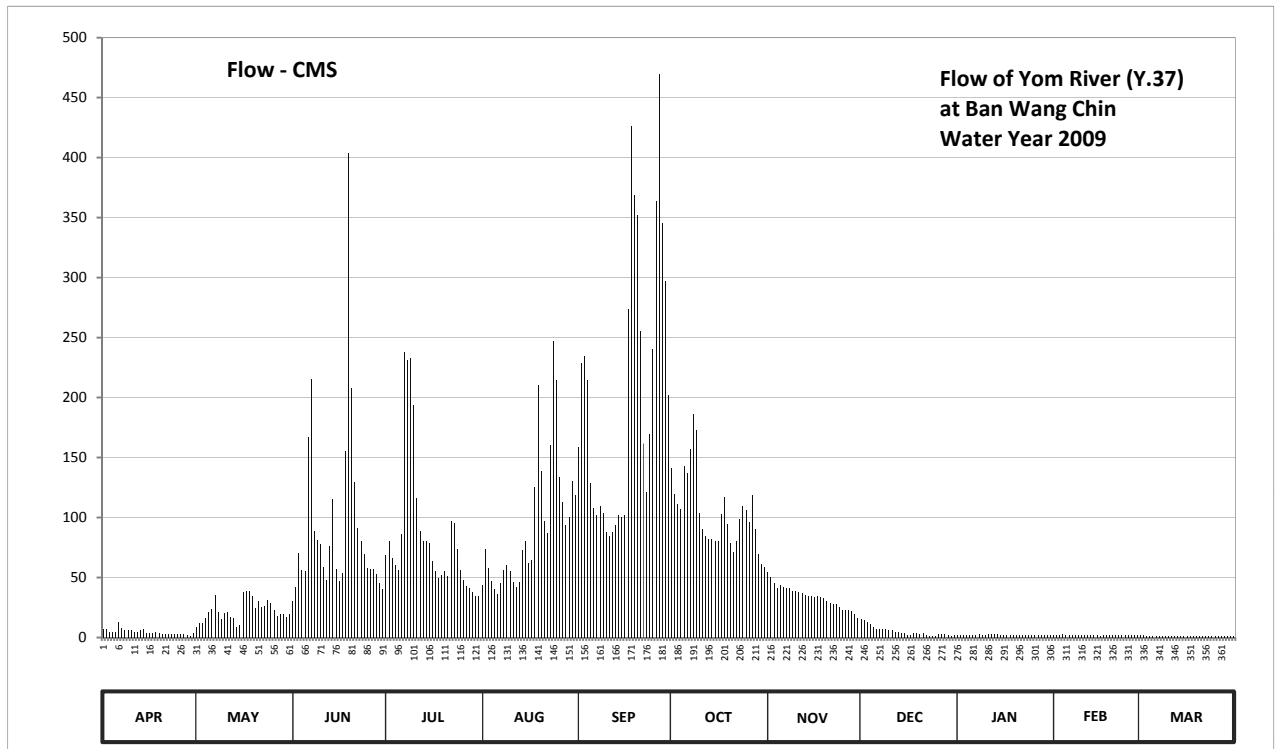
Lat 17 - 53 - 48 N Long 99 - 36 - 28 E

Location : on left bank at the bridge on road.

	Ban	Wang Chin	Amphoe	Wang Chin	Changwat	Phrae
Drainage Area	10,305	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+92.280	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the top staff gage.				Elevation	+105.250 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The weir situated about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	94.65	94.21	94.61	95.11	94.80	96.13	95.97	94.93	94.35	94.38	94.43	94.37	
2	94.65	94.28	94.77	95.26	95.17	96.77	95.73	94.88	94.33	94.38	94.42	94.36	
3	94.58	94.28	95.13	95.08	94.97	96.82	95.64	94.82	94.30	94.38	94.43	94.34	
4	94.56	94.36	94.95	95.00	94.84	96.64	95.59	94.76	94.27	94.36	94.44	94.32	
5	94.57	94.45	94.94	94.95	94.75	95.83	95.99	94.79	94.22	94.38	94.42	94.32	
6	94.75	94.49	96.21	95.33	94.69	95.60	95.92	94.77	94.18	94.38	94.40	94.32	
7	94.66	94.68	96.65	96.85	94.82	95.53	96.12	94.76	94.18	94.39	94.41	94.32	
8	94.63	94.45	95.36	96.79	94.95	95.62	96.38	94.76	94.18	94.45	94.43	94.32	
9	94.63	94.34	95.27	96.81	95.01	95.55	96.26	94.72	94.17	94.42	94.40	94.32	
10	94.62	94.44	95.22	96.45	94.94	95.35	95.55	94.72	94.14	94.38	94.38	94.32	
11	94.58	94.45	94.98	95.69	94.83	95.31	95.38	94.71	94.14	94.48	94.38	94.31	
12	94.58	94.38	94.85	95.36	94.77	95.35	95.31	94.70	94.09	94.48	94.38	94.29	
13	94.62	94.36	95.20	95.26	94.83	95.42	95.28	94.68	94.08	94.48	94.38	94.28	
14	94.64	94.22	95.68	95.26	95.16	95.53	95.28	94.67	94.06	94.48	94.38	94.27	
15	94.53	94.25	94.96	95.23	95.26	95.50	95.26	94.66	94.06	94.43	94.36	94.26	
16	94.51	94.71	94.84	95.05	95.03	95.53	95.26	94.65	94.01	94.43	94.35	94.25	
17	94.52	94.73	94.92	94.94	95.06	97.14	95.54	94.66	93.99	94.43	94.38	94.25	
18	94.56	94.73	96.10	94.87	95.79	98.34	95.70	94.65	94.05	94.42	94.38	94.28	
19	94.54	94.66	98.17	94.90	96.60	97.90	95.43	94.64	94.06	94.40	94.38	94.29	
20	94.48	94.51	96.58	94.94	95.94	97.77	95.23	94.60	94.04	94.38	94.38	94.29	
21	94.46	94.60	95.84	94.89	95.46	96.99	95.14	94.58	94.05	94.38	94.38	94.30	
22	94.46	94.52	95.39	95.46	95.34	96.16	95.26	94.57	94.00	94.38	94.37	94.30	
23	94.45	94.54	95.25	95.44	96.15	95.75	95.48	94.56	93.98	94.38	94.36	94.30	
24	94.46	94.62	95.12	95.17	96.92	96.23	95.62	94.52	93.98	94.38	94.36	94.30	
25	94.46	94.58	94.97	94.95	96.64	96.87	95.58	94.48	93.98	94.38	94.36	94.29	
26	94.48	94.48	94.96	94.85	95.88	97.86	95.45	94.48	94.02	94.38	94.36	94.28	
27	94.46	94.40	94.96	94.78	95.65	98.67	95.72	94.48	94.04	94.38	94.36	94.27	
28	94.43	94.43	94.91	94.76	95.42	97.72	95.38	94.47	94.04	94.38	94.38	94.26	
29	94.32	94.43	94.82	94.71	95.51	97.33	95.12	94.42	93.99	94.38		94.26	
30	94.06	94.38	94.75	94.67	95.85	96.53	95.02	94.37	94.32	94.38		94.25	
31		94.43		94.66	95.72		94.98		94.38	94.38		94.25	
Mean	94.53	94.46	95.35	95.27	95.38	96.46	95.53	94.65	94.12	94.40	94.39	94.29	
Max	94.75	94.73	98.17	96.85	96.92	98.67	96.38	94.93	94.38	94.48	94.44	94.37	98.67
Min	94.06	94.21	94.61	94.66	94.69	95.31	94.98	94.37	93.98	94.36	94.35	94.25	93.98
Annual Max Momentary Gage Height	99.08		m. (MSL.) ,			at 06.00 Hours , on Sep 27 , 2009							
Zero Gage at Bottom Elevation	92.28		m. (MSL.) ,			River Bed	91.65	m. (MSL)					
Left Bank Elevation		105.34		m. (MSL.) ,									
Right Bank Elevation		106.37		m. (MSL.) ,		Drainage Area	10305	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	8.50	30.70	68.80	44.00	158.30	141.30	54.40	15.50	1.90	2.40	1.80	
2	7.50	12.00	41.90	80.80	73.60	228.70	119.70	50.40	14.50	1.90	2.30	1.70	
3	4.70	12.00	70.40	66.40	57.60	234.40	111.60	45.60	13.00	1.90	2.40	1.60	
4	4.40	16.00	56.00	60.00	47.20	214.40	107.20	41.20	11.50	1.70	2.60	1.40	
5	4.60	21.00	55.20	56.00	40.50	128.70	143.10	43.30	9.00	1.90	2.30	1.40	
6	12.50	23.40	167.10	86.40	36.30	108.00	136.80	41.90	7.40	1.90	2.00	1.40	
7	8.00	35.60	215.50	238.10	45.60	102.40	157.20	41.20	7.40	1.90	2.20	1.40	
8	6.50	21.00	88.80	230.90	56.00	109.80	185.80	41.20	7.40	2.70	2.40	1.40	
9	6.50	15.00	81.60	233.20	60.80	104.00	172.60	38.40	7.10	2.30	2.00	1.40	
10	6.00	20.40	77.60	193.50	55.20	88.00	104.00	38.40	6.20	1.90	1.90	1.40	
11	4.70	21.00	58.40	116.10	46.40	84.80	90.40	37.70	6.20	3.20	1.90	1.40	
12	4.70	17.00	48.00	88.80	41.90	88.00	84.80	37.00	4.70	3.20	1.90	1.20	
13	6.00	16.00	76.00	80.80	46.40	93.60	82.40	35.60	4.40	3.20	1.90	1.20	
14	7.00	9.00	115.20	80.80	72.80	102.40	82.40	34.90	3.80	3.20	1.90	1.10	
15	3.90	10.50	56.80	78.40	80.80	100.00	80.80	34.20	3.80	2.40	1.70	1.00	
16	3.70	37.70	47.20	64.00	62.40	102.40	80.80	33.50	2.30	2.40	1.60	1.00	
17	3.80	39.10	53.60	55.20	64.80	273.60	103.20	34.20	1.80	2.40	1.90	1.00	
18	4.40	39.10	155.00	49.60	125.10	426.20	117.00	33.50	3.50	2.30	1.90	1.20	
19	4.10	34.20	404.10	52.00	210.00	369.00	94.40	32.80	3.80	2.00	1.90	1.20	
20	3.20	24.60	207.80	55.20	138.60	352.10	78.40	30.00	3.20	1.90	1.90	1.20	
21	2.90	30.00	129.60	51.20	96.80	255.30	71.20	28.80	3.50	1.90	1.90	1.30	
22	2.90	25.20	91.20	96.80	87.20	161.60	80.80	28.20	2.00	1.90	1.80	1.30	
23	2.70	26.40	80.00	95.20	160.50	121.50	98.40	27.60	1.60	1.90	1.70	1.30	
24	2.90	31.40	69.60	73.60	246.70	169.30	109.80	25.20	1.60	1.90	1.70	1.30	
25	2.90	28.80	57.60	56.00	214.40	240.60	106.40	22.80	1.60	1.90	1.70	1.20	
26	3.20	22.80	56.80	48.00	133.20	363.80	96.00	22.80	2.60	1.90	1.70	1.20	
27	2.90	18.00	56.80	42.60	112.50	469.80	118.80	22.80	3.20	1.90	1.70	1.10	
28	2.40	19.80	52.80	41.20	93.60	345.60	90.40	22.20	3.20	1.90	1.90	1.00	
29	1.40	19.80	45.60	37.70	100.80	296.90	69.60	19.20	1.80	1.90		1.00	
30	3.80	17.00	40.50	34.90	130.50	202.30	61.60	16.50	1.40	1.90		1.00	
31		19.80		34.20	118.80		58.40		1.90	1.90		1.00	
Total	141.70	692.10	2787.40	2646.40	2901.00	6095.50	3235.30	1015.50	160.90	67.10	55.10	39.10	19837.10 CMSDAY
Mean	4.70	22.30	92.90	85.40	93.60	203.20	104.40	33.90	5.20	2.20	2.00	1.30	54.30 CMS
Max	12.50	39.10	404.10	238.10	246.70	469.80	185.80	54.40	15.50	3.20	2.60	1.80	469.80 CMS
Min	1.40	8.50	30.70	34.20	36.30	84.80	58.40	16.50	1.40	1.70	1.60	1.00	1.00 CMS
Runoff	12.24	59.80	240.83	228.65	250.65	526.65	279.53	87.74	13.90	5.80	4.76	3.38	1713.93 MCM
Momentary Peak	527.20 CMS. at 99.08 m. (MSL) at 06.00 Hours , on Sep 27 , 2009												
Runoff Yield	5.27 Liters/Second/Square KM.			Momentary Peak Yield			51.16 Liters/Second/Square KM.						

WATER YEAR : 2009**Yom RIVER BASIN****Nam Mae Kham Mi at Ban Mae Kham Mi Tamnak Tham , Phrae (Y.38)**

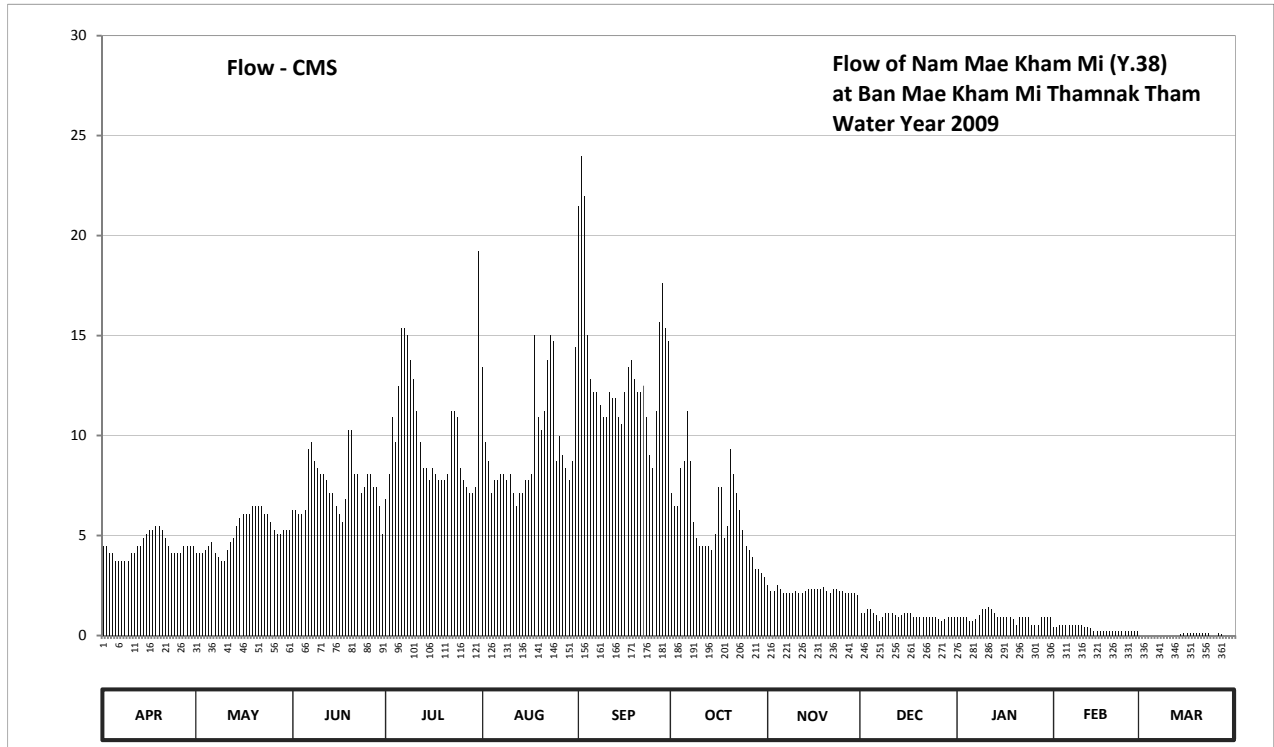
Lat 18 - 15 - 54 N Long 100 - 14 - 28 E

Location : on right bank at the bridge on road.

	Ban	Mae Kham Mi Tamnak Tham	Amphoe	Nong Muang Khai	Changwat	Phrae
Drainage Area	425	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+170.100 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 15 meters from the top staff gage.				Elevation	+179.900 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The islet situated of the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	172.20	172.18	172.29	172.31	172.52	172.73	172.32	172.10	171.96	171.94	171.88	171.80	
2	172.20	172.18	172.29	172.35	172.40	172.78	172.30	172.07	171.96	171.94	171.88	171.80	
3	172.18	172.18	172.28	172.44	172.37	172.74	172.30	172.07	171.98	171.94	171.90	171.73	
4	172.18	172.19	172.28	172.40	172.32	172.57	172.36	172.10	171.98	171.94	171.90	171.73	
5	172.16	172.20	172.29	172.49	172.34	172.50	172.37	172.08	171.96	171.92	171.90	171.73	
6	172.16	172.21	172.39	172.58	172.34	172.48	172.45	172.06	171.95	171.92	171.90	171.80	
7	172.16	172.18	172.40	172.58	172.35	172.48	172.37	172.06	171.92	171.93	171.90	171.80	
8	172.16	172.17	172.37	172.57	172.35	172.46	172.26	172.06	171.94	171.95	171.90	171.80	
9	172.16	172.16	172.36	172.53	172.34	172.44	172.22	172.06	171.96	171.98	171.90	171.80	
10	172.18	172.16	172.35	172.50	172.35	172.44	172.20	172.07	171.96	171.98	171.90	171.80	
11	172.18	172.19	172.35	172.45	172.32	172.48	172.20	172.06	171.96	171.99	171.88	171.80	
12	172.20	172.21	172.34	172.40	172.30	172.47	172.20	172.06	171.95	171.98	171.88	171.80	
13	172.20	172.22	172.32	172.36	172.32	172.47	172.20	172.07	171.94	171.96	171.87	171.80	
14	172.22	172.25	172.32	172.36	172.32	172.44	172.19	172.08	171.95	171.94	171.85	171.81	
15	172.23	172.27	172.30	172.34	172.34	172.43	172.23	172.08	171.96	171.94	171.85	171.82	
16	172.24	172.28	172.28	172.36	172.34	172.48	172.33	172.08	171.96	171.94	171.85	171.82	
17	172.24	172.28	172.26	172.35	172.35	172.52	172.33	172.08	171.96	171.94	171.85	171.82	
18	172.25	172.28	172.31	172.34	172.57	172.53	172.22	172.08	171.94	171.94	171.85	171.82	
19	172.25	172.30	172.42	172.34	172.44	172.50	172.25	172.09	171.94	171.93	171.85	171.82	
20	172.24	172.30	172.42	172.34	172.42	172.48	172.39	172.07	171.94	171.90	171.85	171.82	
21	172.22	172.30	172.35	172.35	172.45	172.48	172.35	172.06	171.94	171.94	171.85	171.82	
22	172.20	172.30	172.35	172.45	172.53	172.49	172.32	172.08	171.94	171.94	171.85	171.82	
23	172.18	172.28	172.32	172.45	172.57	172.44	172.29	172.08	171.94	171.94	171.85	171.82	
24	172.18	172.28	172.33	172.44	172.56	172.38	172.24	172.07	171.94	171.94	171.85	171.75	
25	172.18	172.26	172.35	172.36	172.37	172.36	172.20	172.07	171.94	171.90	171.85	171.75	
26	172.18	172.24	172.35	172.34	172.41	172.45	172.19	172.06	171.93	171.90	171.85	171.82	
27	172.20	172.23	172.33	172.33	172.38	172.59	172.17	172.06	171.92	171.90	171.85	171.81	
28	172.20	172.23	172.33	172.32	172.36	172.64	172.14	172.06	171.93	171.94	171.85	171.80	
29	172.20	172.24	172.30	172.32	172.34	172.58	172.14	172.06	171.94	171.94		171.80	
30	172.20	172.24	172.23	172.33	172.37	172.56	172.13	172.05	171.94	171.94		171.80	
31		172.24		172.68	172.55		172.12		171.94	171.94		171.80	
Mean	172.20	172.23	172.33	172.41	172.40	172.51	172.26	172.07	171.95	171.94	171.87	171.80	
Max	172.25	172.30	172.42	172.68	172.57	172.78	172.45	172.10	171.98	171.99	171.90	171.82	172.78
Min	172.16	172.16	172.23	172.31	172.30	172.36	172.12	172.05	171.92	171.90	171.85	171.73	171.73
Annual Max Momentary Gage Height		172.80		m. (MSL.) ,			at 16.00 Hours , on Sep 1 , 2009						
Zero Gage at Bottom Elevation		170.10		m. (MSL.) ,		River Bed	172.40		m. (MSL)				
Left Bank Elevation			180.09		m. (MSL.) ,								
Right Bank Elevation			180.07		m. (MSL.) ,	Drainage Area	425		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.50	4.10	6.30	6.81	13.44	21.50	7.13	2.50	1.10	0.90	0.40	0.00	
2	4.50	4.10	6.30	8.08	9.65	24.00	6.50	2.20	1.10	0.90	0.40	0.00	
3	4.10	4.10	6.10	10.91	8.70	22.00	6.50	2.20	1.30	0.90	0.50	0.00	
4	4.10	4.30	6.10	9.65	7.13	15.04	8.39	2.50	1.30	0.90	0.50	0.00	
5	3.70	4.50	6.30	12.49	7.76	12.80	8.70	2.30	1.10	0.70	0.50	0.00	
6	3.70	4.70	9.33	15.36	7.76	12.17	11.22	2.10	1.00	0.70	0.50	0.00	
7	3.70	4.10	9.65	15.36	8.08	12.17	8.70	2.10	0.70	0.80	0.50	0.00	
8	3.70	3.90	8.70	15.04	8.08	11.54	5.70	2.10	0.90	1.00	0.50	0.00	
9	3.70	3.70	8.39	13.76	7.76	10.91	4.90	2.10	1.10	1.30	0.50	0.00	
10	4.10	3.70	8.08	12.80	8.08	10.91	4.50	2.20	1.10	1.30	0.50	0.00	
11	4.10	4.30	8.08	11.22	7.13	12.17	4.50	2.10	1.10	1.40	0.40	0.00	
12	4.50	4.70	7.76	9.65	6.50	11.86	4.50	2.10	1.00	1.30	0.40	0.00	
13	4.50	4.90	7.13	8.39	7.13	11.86	4.50	2.20	0.90	1.10	0.35	0.00	
14	4.90	5.50	7.13	8.39	7.13	10.91	4.30	2.30	1.00	0.90	0.25	0.05	
15	5.10	5.90	6.50	7.76	7.76	10.59	5.10	2.30	1.10	0.90	0.25	0.10	
16	5.30	6.10	6.10	8.39	7.76	12.17	7.44	2.30	1.10	0.90	0.25	0.10	
17	5.30	6.10	5.70	8.08	8.08	13.44	7.44	2.30	1.10	0.90	0.25	0.10	
18	5.50	6.10	6.81	7.76	15.04	13.76	4.90	2.30	0.90	0.90	0.25	0.10	
19	5.50	6.50	10.28	7.76	10.91	12.80	5.50	2.40	0.90	0.80	0.25	0.10	
20	5.30	6.50	10.28	7.76	10.28	12.17	9.33	2.20	0.90	0.50	0.25	0.10	
21	4.90	6.50	8.08	8.08	11.22	12.17	8.08	2.10	0.90	0.90	0.25	0.10	
22	4.50	6.50	8.08	11.22	13.76	12.49	7.13	2.30	0.90	0.90	0.25	0.10	
23	4.10	6.10	7.13	11.22	15.04	10.91	6.30	2.30	0.90	0.90	0.25	0.10	
24	4.10	6.10	7.44	10.91	14.72	9.02	5.30	2.20	0.90	0.90	0.25	0.00	
25	4.10	5.70	8.08	8.39	8.70	8.39	4.50	2.20	0.90	0.50	0.25	0.00	
26	4.10	5.30	8.08	7.76	9.97	11.22	4.30	2.10	0.80	0.50	0.25	0.10	
27	4.50	5.10	7.44	7.44	9.02	15.68	3.90	2.10	0.70	0.50	0.25	0.05	
28	4.50	5.10	7.44	7.13	8.39	17.60	3.30	2.10	0.80	0.90	0.25	0.00	
29	4.50	5.30	6.50	7.13	7.76	15.36	3.30	2.10	0.90	0.90	0.00	0.00	
30	4.50	5.30	5.10	7.44	8.70	14.72	3.10	2.00	0.90	0.90	0.00	0.00	
31		5.30		19.20	14.40		2.90		0.90	0.90		0.00	
Total	133.60	160.10	224.39	311.34	295.84	402.33	181.86	66.30	30.20	27.70	9.70	1.10	1844.46 CMSDAY
Mean	4.45	5.16	7.48	10.04	9.54	13.41	5.87	2.21	0.97	0.89	0.35	0.04	5.05 CMS
Max	5.50	6.50	10.28	19.20	15.04	24.00	11.22	2.50	1.30	1.40	0.50	0.10	24.00 CMS
Min	3.70	3.70	5.10	6.81	6.50	8.39	2.90	2.00	0.70	0.50	0.25	0.00	0.00 CMS
Runoff	11.54	13.83	19.39	26.90	25.56	34.76	15.71	5.73	2.61	2.39	0.84	0.10	159.36 MCM
Momentary Peak	25.00 CMS. at 172.80 m. (MSL.) at 16.00 Hours , on Sep 1 , 2009												
Runoff Yield	11.89 Liters/Second/Square KM.			Momentary Peak Yield			58.824 Liters/Second/Square KM.						

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Forestry Office , Nan (N.1)

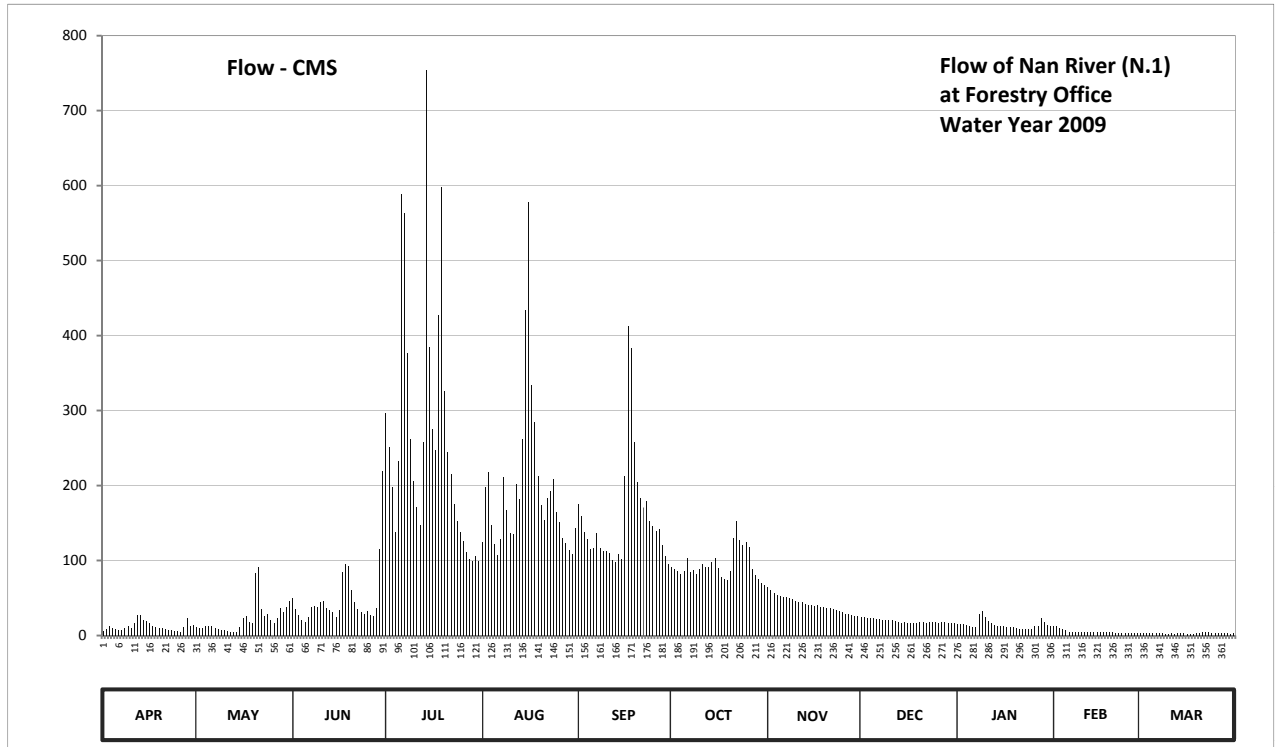
Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

Location : on right bank in front of Forestry Office.

	Ban	Forestry Office	Amphoe	Mueang	Changwat	Nan
Drainage Area	4,560	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+192.200 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On west side of automatic gage building.				Elevation	+199.868 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1922 - 1956 , 1962 to date					
Rating Operation						
Period of Rating	1954 - 1956 , 1979 to date					
Rated by Flot	-					
Rated by Current Meter	1954 - 1956 , 1979 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.20	192.27	192.66	194.54	193.31	193.69	193.04	192.79	192.42	192.32	192.30	192.10	
2	192.24	192.25	192.52	194.24	193.86	193.57	193.02	192.76	192.41	192.32	192.29	192.10	
3	192.29	192.25	192.44	193.86	194.00	193.41	192.99	192.72	192.40	192.32	192.26	192.10	
4	192.25	192.30	192.38	193.41	193.48	193.34	192.96	192.70	192.40	192.31	192.24	192.09	
5	192.23	192.29	192.35	194.10	193.28	193.23	192.99	192.69	192.40	192.30	192.21	192.09	
6	192.22	192.29	192.42	196.36	193.17	193.24	193.14	192.68	192.39	192.28	192.17	192.09	
7	192.21	192.26	192.55	196.22	193.34	193.40	192.98	192.67	192.39	192.28	192.17	192.09	
8	192.25	192.24	192.56	195.08	193.95	193.24	193.00	192.66	192.38	192.46	192.16	192.09	
9	192.30	192.22	192.55	194.31	193.63	193.21	192.95	192.65	192.38	192.49	192.15	192.08	
10	192.25	192.21	192.61	193.91	193.40	193.21	193.01	192.63	192.38	192.41	192.14	192.08	
11	192.33	192.18	192.63	193.66	193.39	193.19	193.08	192.62	192.37	192.36	192.14	192.09	
12	192.45	192.17	192.54	193.48	193.88	193.12	193.04	192.61	192.36	192.34	192.14	192.08	
13	192.44	192.16	192.51	194.28	193.74	193.10	193.04	192.59	192.35	192.31	192.13	192.09	
14	192.37	192.17	192.48	197.28	194.31	193.18	193.10	192.57	192.34	192.30	192.14	192.09	
15	192.36	192.28	192.42	195.13	195.44	193.13	193.14	192.57	192.35	192.29	192.14	192.09	
16	192.33	192.40	192.51	194.40	196.30	193.96	193.03	192.56	192.34	192.29	192.14	192.08	
17	192.30	192.43	192.98	194.21	194.79	195.31	192.92	192.57	192.34	192.28	192.13	192.08	
18	192.27	192.35	193.08	195.40	194.46	195.12	192.89	192.55	192.34	192.27	192.13	192.08	
19	192.26	192.34	193.05	196.41	193.96	194.28	192.88	192.55	192.34	192.27	192.13	192.09	
20	192.25	192.97	192.76	194.74	193.68	193.90	192.99	192.54	192.35	192.25	192.13	192.10	
21	192.23	193.04	192.62	194.19	193.53	193.75	193.35	192.53	192.35	192.23	192.12	192.15	
22	192.21	192.52	192.52	193.98	193.75	193.66	193.52	192.52	192.34	192.23	192.12	192.14	
23	192.21	192.43	192.48	193.69	193.82	193.72	193.33	192.51	192.35	192.23	192.12	192.13	
24	192.20	192.46	192.46	193.52	193.93	193.52	193.27	192.50	192.35	192.23	192.12	192.12	
25	192.18	192.38	192.50	193.41	193.61	193.47	193.31	192.48	192.35	192.23	192.12	192.11	
26	192.17	192.34	192.45	193.32	193.51	193.42	193.25	192.46	192.34	192.29	192.11	192.09	
27	192.27	192.40	192.43	193.20	193.35	193.44	193.02	192.46	192.35	192.29	192.11	192.09	
28	192.40	192.53	192.54	193.13	193.30	193.27	192.94	192.44	192.35	192.40	192.11	192.09	
29	192.30	192.48	193.23	193.11	193.22	193.16	192.90	192.43	192.34	192.35		192.09	
30	192.31	192.55	194.01	193.16	193.18	193.08	192.85	192.43	192.33	192.31		192.08	
31		192.63		193.11	193.45		192.82		192.33	192.30		192.12	
Mean	192.28	192.38	192.64	194.29	193.81	193.54	193.06	192.58	192.36	192.31	192.16	192.10	
Max	192.45	193.04	194.01	197.28	196.30	195.31	193.52	192.79	192.42	192.49	192.30	192.15	197.28
Min	192.17	192.16	192.35	193.11	193.17	193.08	192.82	192.43	192.33	192.23	192.11	192.08	192.08
Annual Max Momentary Gage Height		197.78	m. (MSL.) ,				at 08.00 Hours , on Jul 14 , 2009						
Zero Gage at Bottom Elevation		192.20	m. (MSL.) ,			River Bed	188.32	m. (MSL)					
Left Bank Elevation			203.92	m. (MSL.) ,									
Right Bank Elevation			203.83	m. (MSL.) ,		Drainage Area	4560	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.00	10.90	49.60	296.00	125.30	174.70	91.40	63.90	25.00	15.00	13.00	3.00		
2	8.80	9.50	35.00	251.60	198.40	159.10	89.20	60.60	24.00	15.00	12.30	3.00		
3	12.30	9.50	27.00	198.40	218.00	138.30	85.90	56.20	23.00	15.00	10.20	3.00		
4	9.50	13.00	21.00	138.30	147.40	129.20	82.60	54.00	23.00	14.00	8.80	2.70		
5	8.10	12.30	18.00	232.00	121.40	114.90	85.90	52.90	23.00	13.00	6.70	2.70		
6	7.40	12.30	25.00	588.80	107.10	116.20	103.20	51.80	22.00	11.60	5.10	2.70		
7	6.70	10.20	38.00	563.60	129.20	137.00	84.80	50.70	22.00	11.60	5.10	2.70		
8	9.50	8.80	39.00	377.00	211.00	116.20	87.00	49.60	21.00	29.00	4.80	2.70		
9	13.00	7.40	38.00	261.50	166.90	112.30	81.50	48.50	21.00	32.00	4.50	2.40		
10	9.50	6.70	44.10	205.40	137.00	112.30	88.10	46.30	21.00	24.00	4.20	2.40		
11	16.00	5.40	46.30	170.80	135.70	109.70	95.80	45.20	20.00	19.00	4.20	2.70		
12	28.00	5.10	37.00	147.40	201.20	100.60	91.40	44.10	19.00	17.00	4.20	2.40		
13	27.00	4.80	34.00	257.20	181.60	98.00	91.40	42.00	18.00	14.00	3.90	2.70		
14	20.00	5.10	31.00	754.40	261.50	108.40	98.00	40.00	17.00	13.00	4.20	2.70		
15	19.00	11.60	25.00	384.50	433.40	101.90	103.20	40.00	18.00	12.30	4.20	2.70		
16	16.00	23.00	34.00	275.00	578.00	212.40	90.30	39.00	17.00	12.30	4.20	2.40		
17	13.00	26.00	84.80	247.40	333.50	412.60	78.20	40.00	17.00	11.60	3.90	2.40		
18	10.90	18.00	95.80	427.00	284.00	383.00	74.90	38.00	17.00	10.90	3.90	2.40		
19	10.20	17.00	92.50	597.80	212.40	257.20	73.80	38.00	17.00	10.90	3.90	2.70		
20	9.50	83.70	60.60	326.00	173.40	204.00	85.90	37.00	18.00	9.50	3.90	3.00		
21	8.10	91.40	45.20	244.60	153.90	183.00	130.50	36.00	18.00	8.10	3.60	4.50		
22	6.70	35.00	35.00	215.20	183.00	170.80	152.60	35.00	17.00	8.10	3.60	4.20		
23	6.70	26.00	31.00	174.70	192.80	178.80	127.90	34.00	18.00	8.10	3.60	3.90		
24	6.00	29.00	29.00	152.60	208.20	152.60	120.10	33.00	18.00	8.10	3.60	3.60		
25	5.40	21.00	33.00	138.30	164.30	146.10	125.30	31.00	18.00	8.10	3.60	3.30		
26	5.10	17.00	28.00	126.60	151.30	139.60	117.50	29.00	17.00	12.30	3.30	2.70		
27	10.90	23.00	26.00	111.00	130.50	142.20	89.20	29.00	18.00	12.30	3.30	2.70		
28	23.00	36.00	37.00	101.90	124.00	120.10	80.40	27.00	18.00	23.00	3.30	2.70		
29	13.00	31.00	114.90	99.30	113.60	105.80	76.00	26.00	17.00	18.00		2.70		
30	14.00	38.00	219.40	105.80	108.40	95.80	70.50	26.00	16.00	14.00		2.40		
31		46.30		99.30	143.50		67.20		16.00	13.00		3.60		
Total	359.30	694.00	1474.20	8269.40	6029.90	4732.80	2919.70	1243.80	594.00	443.80	143.10	89.70	26993.70 CMSDAY	
Mean	11.98	22.39	49.14	266.75	194.51	157.76	94.18	41.46	19.16	14.32	5.11	2.89	73.96 CMS	
Max	28.00	91.40	219.40	754.40	578.00	412.60	152.60	63.90	25.00	32.00	13.00	4.50	754.40 CMS	
Min	5.10	4.80	18.00	99.30	107.10	95.80	67.20	26.00	16.00	8.10	3.30	2.40	2.40 CMS	
Runoff	31.04	59.96	127.37	714.48	520.98	408.91	252.26	107.46	51.32	38.34	12.36	7.75	2332.26 MCM	
Momentary Peak	844.40 CMS. at 197.78 m. (MSL.) at 08.00 Hours , on Jul 14 , 2009													
Runoff Yield	16.22 Liters/Second/Square KM.			Momentary Peak Yield									185.175 Liters/Second/Square KM.	

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Nai Mueang , Uttaradit (N.2B)

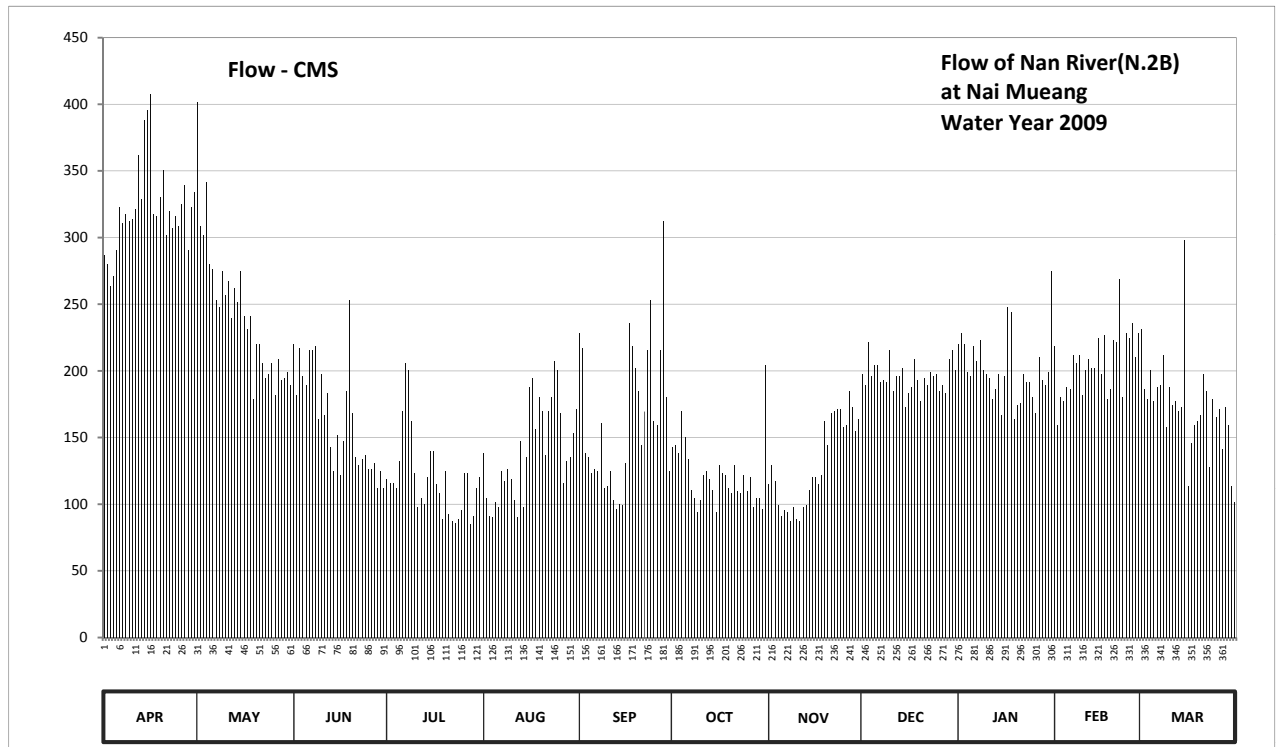
Lat 17 - 36 - 30 N Long 100 - 06 - 08 E

Location : on right bank at Mueang, Uttaradit.

	Ban Nai Mueang	Amphoe Mueang	Changwat Uttaradit
Drainage Area	16,865 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+52.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	Elevation	+63.138 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 means of 5 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 34 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.14	54.76	53.75	53.09	53.22	53.80	53.25	53.06	53.61	53.75	53.74	53.82	
2	54.10	54.26	53.51	53.07	52.98	53.73	53.26	53.16	53.56	53.80	53.36	53.54	
3	54.01	54.22	53.73	53.07	52.88	53.22	53.22	53.08	53.76	53.75	53.50	53.49	
4	54.05	54.44	53.60	53.04	52.87	53.20	53.43	52.94	53.60	53.62	53.48	53.63	
5	54.16	54.10	53.56	53.18	52.96	53.12	53.30	52.88	53.65	53.60	53.55	53.48	
6	54.34	54.08	53.72	53.43	52.93	53.14	53.19	52.91	53.65	53.74	53.54	53.55	
7	54.27	53.95	53.72	53.66	53.13	53.13	53.03	52.90	53.57	53.67	53.70	53.56	
8	54.31	53.92	53.74	53.63	53.08	53.37	52.98	52.85	53.58	53.77	53.66	53.70	
9	54.28	54.07	53.39	53.38	53.14	53.04	52.90	52.93	53.57	53.63	53.70	53.35	
10	54.29	53.97	53.61	53.12	53.09	53.05	52.97	52.86	53.72	53.61	53.51	53.55	
11	54.33	54.03	53.41	52.93	52.97	53.13	53.11	52.85	53.53	53.59	53.63	53.46	
12	54.55	53.87	53.52	52.98	52.87	52.97	53.13	52.93	53.60	53.49	53.68	53.48	
13	54.37	54.00	53.25	52.95	53.28	52.92	53.09	52.94	53.60	53.54	53.64	53.43	
14	54.69	53.94	53.13	53.10	52.93	52.95	53.03	53.03	53.64	53.61	53.64	53.45	
15	54.73	54.07	53.31	53.23	53.20	52.94	52.90	53.10	53.45	53.41	53.78	54.20	
16	54.79	53.88	53.11	53.23	53.55	53.17	53.16	53.10	53.52	53.60	53.61	53.05	
17	54.31	53.82	53.28	53.06	53.59	53.85	53.12	53.06	53.55	53.92	53.79	53.27	
18	54.30	53.88	53.53	53.01	53.34	53.74	53.11	53.11	53.68	53.90	53.49	53.36	
19	54.38	53.49	53.95	52.86	53.50	53.64	53.04	53.38	53.58	53.39	53.54	53.38	
20	54.49	53.75	53.42	53.13	53.43	53.53	53.01	53.26	53.48	53.46	53.77	53.41	
21	54.22	53.75	53.20	52.89	53.21	53.26	53.16	53.42	53.59	53.47	53.76	53.61	
22	54.32	53.66	53.16	52.85	53.43	53.43	53.02	53.43	53.56	53.61	54.04	53.53	
23	54.25	53.59	53.19	52.84	53.50	53.72	53.01	53.44	53.62	53.57	53.50	53.15	
24	54.30	53.61	53.21	52.86	53.67	53.95	53.11	53.44	53.60	53.57	53.80	53.49	
25	54.26	53.66	53.14	52.91	53.63	53.38	53.02	53.35	53.61	53.50	53.78	53.40	
26	54.35	53.51	53.14	53.12	53.42	53.36	53.10	53.36	53.53	53.42	53.85	53.44	
27	54.43	53.68	53.17	53.12	53.07	53.72	52.93	53.53	53.56	53.69	53.69	53.24	
28	54.16	53.58	53.04	52.83	53.18	54.28	52.98	53.45	53.52	53.58	53.80	53.45	
29	54.34	53.59	53.13	52.88	53.20	53.50	52.98	53.33	53.68	53.56		53.36	
30	54.40	53.62	53.04	53.04	53.32	53.13	52.92	53.39	53.72	53.62		53.05	
31		53.56	53.10	53.44			53.65		53.63	54.07		52.96	
Mean	54.33	53.88	53.39	53.08	53.23	53.38	53.10	53.15	53.60	53.63	53.66	53.45	
Max	54.79	54.76	53.95	53.66	53.67	54.28	53.65	53.53	53.76	54.07	54.04	54.20	54.79
Min	54.01	53.49	53.04	52.83	52.87	52.92	52.90	52.85	53.45	53.39	53.36	52.96	52.83
Annual Max Momentary Gage Height	55.31		m. (MSL.) ,				at 08.00 Hours , on Apr 15 , 2009						
Zero Gage at Bottom Elevation	52.30		m. (MSL.) ,			River Bed	48.63		m. (MSL)				
Left Bank Elevation	61.40		m. (MSL.) ,										
Right Bank Elevation	60.75		m. (MSL.) ,			Drainage Area	16865		Square Kilometers				



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

Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	287.20	401.68	220.00	118.70	138.00	228.00	142.50	114.80	197.60	220.00	218.40	231.20	
2	280.00	308.80	181.60	116.10	104.40	216.80	144.00	129.00	189.60	228.00	159.00	186.40	
3	263.80	301.60	216.80	116.10	91.40	138.00	138.00	117.40	221.60	220.00	180.00	178.50	
4	271.00	341.52	196.00	112.20	90.10	135.00	169.50	99.20	196.00	199.20	177.00	200.80	
5	290.80	280.00	189.60	132.00	101.80	123.00	150.00	91.40	204.00	196.00	188.00	177.00	
6	323.20	276.40	215.20	169.50	97.90	126.00	133.50	95.30	204.00	218.40	186.40	188.00	
7	310.60	253.00	215.20	205.60	124.50	124.50	110.90	94.00	191.20	207.20	212.00	189.60	
8	317.80	247.60	218.40	200.80	117.40	160.50	104.40	87.50	192.80	223.20	205.60	212.00	
9	312.40	274.60	163.50	162.00	126.00	112.20	94.00	97.90	191.20	200.80	212.00	157.50	
10	314.20	256.60	197.60	123.00	118.70	113.50	103.10	88.80	215.20	197.60	181.60	188.00	
11	321.40	267.40	166.50	97.90	103.10	124.50	121.50	87.50	184.80	194.40	200.80	174.00	
12	362.20	239.20	183.20	104.40	90.10	103.10	124.50	97.90	196.00	178.50	208.80	177.00	
13	328.60	262.00	142.50	100.50	147.00	96.60	118.70	99.20	196.00	186.40	202.40	169.50	
14	388.52	251.20	124.50	120.00	97.90	100.50	110.90	110.90	202.40	197.60	202.40	172.50	
15	396.04	274.60	151.50	139.50	135.00	99.20	94.00	120.00	172.50	166.50	224.80	298.00	
16	407.32	240.80	121.50	139.50	188.00	130.50	129.00	120.00	183.20	196.00	197.60	113.50	
17	317.80	231.20	147.00	114.80	194.40	236.00	123.00	114.80	188.00	247.60	226.40	145.50	
18	316.00	240.80	184.80	108.30	156.00	218.40	121.50	121.50	208.80	244.00	178.50	159.00	
19	330.40	178.50	253.00	88.80	180.00	202.40	112.20	162.00	192.80	163.50	186.40	162.00	
20	350.92	220.00	168.00	124.50	169.50	184.80	108.30	144.00	177.00	174.00	223.20	166.50	
21	301.60	220.00	135.00	92.70	136.50	144.00	129.00	168.00	194.40	175.50	221.60	197.60	
22	319.60	205.60	129.00	87.50	169.50	169.50	109.60	169.50	189.60	197.60	269.20	184.80	
23	307.00	194.40	133.50	86.20	180.00	215.20	108.30	171.00	199.20	191.20	180.00	127.50	
24	316.00	197.60	136.50	88.80	207.20	253.00	121.50	171.00	196.00	191.20	228.00	178.50	
25	308.80	205.60	126.00	95.30	200.80	162.00	109.60	157.50	197.60	180.00	224.80	165.00	
26	325.00	181.60	126.00	123.00	168.00	159.00	120.00	159.00	184.80	168.00	236.00	171.00	
27	339.64	208.80	130.50	123.00	116.10	215.20	97.90	184.80	189.60	210.40	210.40	141.00	
28	290.80	192.80	112.20	84.90	132.00	312.40	104.40	172.50	183.20	192.80	228.00	172.50	
29	323.20	194.40	124.50	91.40	135.00	180.00	104.40	154.50	208.80	189.60		159.00	
30	334.00	199.20	112.20	112.20	153.00	124.50	96.60	163.50	215.20	199.20		113.50	
31		189.60		120.00	171.00		204.00		200.80	274.60		101.80	
Total	9655.84	7537.10	4921.80	3699.20	4340.30	4908.30	3758.80	3864.40	6063.90	6229.00	5769.30	5358.70	66106.65 CMSDAY
Mean	321.86	243.13	164.06	119.33	140.01	163.61	121.25	128.81	195.61	200.94	206.05	172.86	181.11 CMS
Max	407.32	401.68	253.00	205.60	207.20	312.40	204.00	184.80	221.60	274.60	269.20	298.00	407.32 CMS
Min	263.80	178.50	112.20	84.90	90.10	96.60	94.00	87.50	172.50	163.50	159.00	101.80	84.90 CMS
Runoff	834.27	651.21	425.24	319.61	375.00	424.08	324.76	333.88	523.92	538.19	498.47	462.99	5711.62 MCM
Momentary Peak	510.00 CMS. at 55.31 m. (MSL) at 08.00 Hours , on Apr 15 , 2009												
Runoff Yield	10.74 Liters/Second/Square KM.			Momentary Peak Yield				30.240 Liters/Second/Square KM.					

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Mueang , Phitsanulok (N.5A)

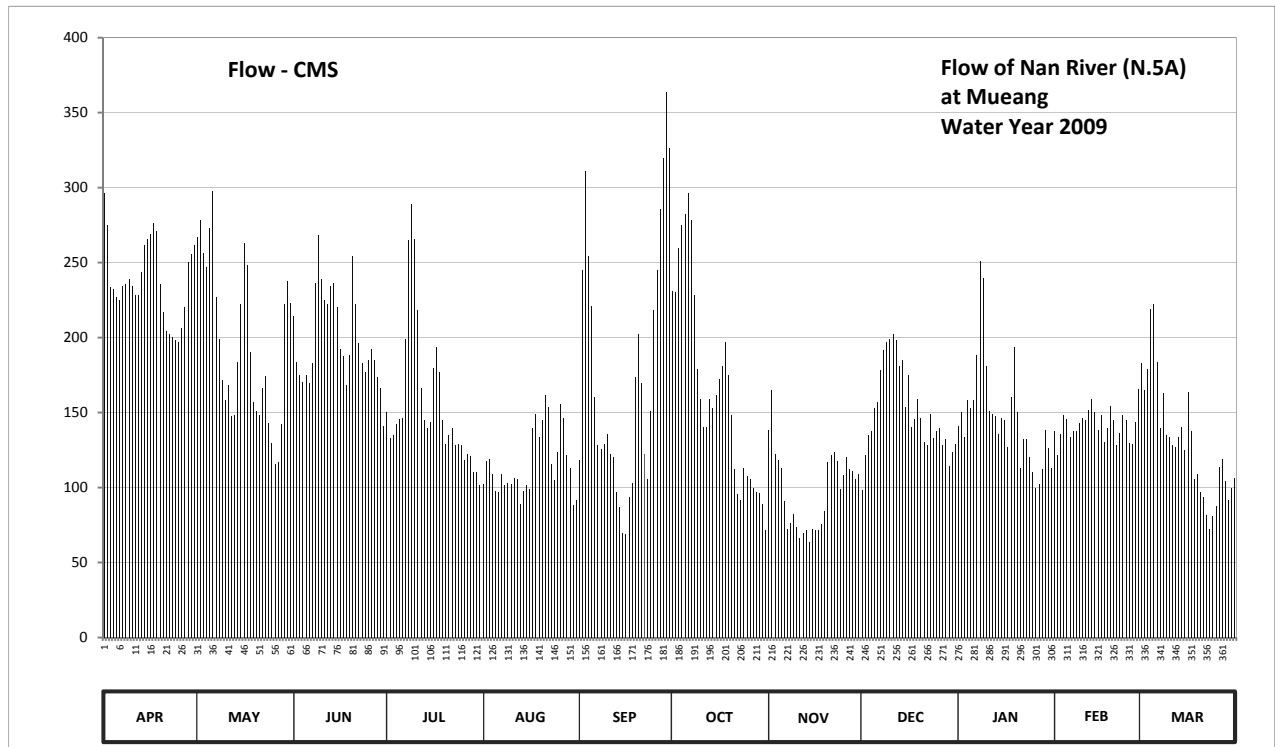
Lat 16 - 49 - 19 N Long 100 - 15 - 49 E

Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

	Ban Nai Mueang	Amphoe Mueang	Changwat Phitsanulok
Drainage Area	25,039 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+34.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.	Elevation	+44.800 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1963 to date		
Rating Operation			
Period of Rating	1966 to date		
Rated by Flot	-		
Rated by Current Meter	1966 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 32 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.86	37.58	37.07	36.40	35.82	36.03	37.24	36.27	35.77	36.30	36.26	36.75	
2	37.66	37.69	36.76	36.21	36.02	37.37	37.23	36.56	36.07	36.40	36.07	36.56	
3	37.26	37.48	36.67	36.23	36.04	37.99	37.51	36.08	36.23	36.22	36.24	36.71	
4	37.25	37.39	36.62	36.31	35.91	37.46	37.66	36.03	36.26	36.49	36.38	37.12	
5	37.20	37.64	36.67	36.35	35.76	37.14	37.73	35.96	36.43	36.43	36.35	37.15	
6	37.18	37.87	36.61	36.36	35.75	36.51	37.86	35.66	36.48	36.49	36.22	36.76	
7	37.27	37.20	36.75	36.92	35.91	36.15	37.69	35.39	36.70	36.81	36.26	36.28	
8	37.28	36.92	37.29	37.56	35.81	36.12	37.21	35.45	36.84	37.43	36.26	36.54	
9	37.31	36.63	37.59	37.79	35.83	36.16	36.71	35.54	36.90	37.32	36.32	36.23	
10	37.27	36.49	37.31	37.57	35.82	36.24	36.50	35.41	36.92	36.73	36.36	36.22	
11	37.21	36.60	37.18	37.11	35.88	36.08	36.29	35.30	36.95	36.41	36.34	36.15	
12	37.21	36.37	37.15	36.58	35.87	36.05	36.29	35.35	36.91	36.39	36.42	36.14	
13	37.36	36.38	37.27	36.34	35.64	35.75	36.50	35.38	36.73	36.37	36.50	36.22	
14	37.53	36.76	37.29	36.28	35.76	35.61	36.43	35.26	36.77	36.24	36.40	36.29	
15	37.57	37.15	37.13	36.33	35.81	35.35	36.53	35.39	36.44	36.36	36.27	36.11	
16	37.60	37.54	36.85	36.72	35.78	35.34	36.64	35.38	36.67	36.34	36.38	36.55	
17	37.67	37.40	36.80	36.86	36.28	35.70	36.73	35.38	36.29	36.14	36.18	36.26	
18	37.62	36.83	36.60	36.69	36.39	35.83	36.90	35.44	36.35	36.51	36.28	35.87	
19	37.28	36.48	36.81	36.34	36.22	36.65	36.67	35.57	36.50	36.86	36.45	35.91	
20	37.10	36.41	37.46	36.16	36.34	36.95	36.38	36.01	36.36	36.40	36.34	35.75	
21	36.97	36.38	37.15	36.23	36.53	36.61	35.95	36.07	36.18	35.96	36.15	35.70	
22	36.95	36.58	36.89	36.28	36.44	36.08	35.73	36.09	36.15	36.20	36.25	35.53	
23	36.93	36.66	36.75	36.15	35.99	35.87	35.67	36.02	36.39	36.20	36.38	35.39	
24	36.91	36.32	36.69	36.16	35.86	36.41	35.96	35.78	36.21	36.05	36.34	35.52	
25	36.90	36.17	36.77	36.15	36.09	37.11	35.89	35.90	36.26	35.93	36.17	35.62	
26	36.99	35.99	36.85	36.03	36.46	37.37	35.87	36.05	36.28	35.79	36.16	35.97	
27	37.13	36.01	36.77	36.08	36.36	37.76	35.79	35.95	36.15	35.82	36.33	36.04	
28	37.42	36.31	36.65	36.06	36.07	38.07	35.75	35.94	36.20	35.95	36.57	35.85	
29	37.47	37.15	36.58	35.93	35.96	38.46	35.74	35.87	35.98	36.27		35.67	
30	37.53	37.30	36.30	35.93	35.63	38.13	35.64	35.91	36.09	36.13		35.79	
31		37.16		35.81	35.67		35.38		36.16	35.96		35.88	
Mean	37.30	36.87	36.91	36.45	35.99	36.61	36.52	35.75	36.41	36.35	36.31	36.15	
Max	37.86	37.87	37.59	37.79	36.53	38.46	37.86	36.56	36.95	37.43	36.57	37.15	38.46
Min	36.90	35.99	36.30	35.81	35.63	35.34	35.38	35.26	35.77	35.79	36.07	35.39	35.26
Annual Max Momentary Gage Height		38.57		m. (MSL.) ,			at 20.00 Hours , on Sep 29 , 2009						
Zero Gage at Bottom Elevation		34.50		m. (MSL.) ,		River Bed	31.78		m. (MSL)				
Left Bank Elevation		45.04		m. (MSL.) ,									
Right Bank Elevation		45.21		m. (MSL.) ,		Drainage Area	25039		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	296.60	266.90	214.00	150.00	102.00	118.40	231.20	138.30	98.40	141.00	137.40	182.75	
2	275.30	278.45	183.70	132.90	117.60	244.85	230.15	164.70	121.60	150.00	121.60	164.70	
3	233.30	256.40	175.15	134.70	119.20	310.90	259.55	122.40	134.70	133.80	135.60	178.95	
4	232.25	246.95	170.40	141.90	108.80	254.30	275.30	118.40	137.40	158.10	148.20	219.00	
5	227.00	273.20	175.15	145.50	97.70	221.00	282.65	112.80	152.70	152.70	145.50	222.00	
6	225.00	297.70	169.45	146.40	97.00	159.95	296.60	90.70	157.20	158.10	133.80	183.70	
7	234.35	227.00	182.75	199.00	108.80	128.00	278.45	72.35	178.00	188.45	137.40	139.20	
8	235.40	199.00	236.45	264.80	101.25	125.60	228.05	76.25	191.30	251.15	137.40	162.80	
9	238.55	171.35	267.95	288.95	102.75	128.80	178.95	82.30	197.00	239.60	142.80	134.70	
10	234.35	158.10	238.55	265.85	102.00	135.60	159.00	73.65	199.00	180.85	146.40	133.80	
11	228.05	168.50	225.00	218.00	106.50	122.40	140.10	66.50	202.00	150.90	144.60	128.00	
12	228.05	147.30	222.00	166.60	105.75	120.00	140.10	69.75	198.00	149.10	151.80	127.20	
13	243.80	148.20	234.35	144.60	89.30	97.00	159.00	71.70	180.85	147.30	159.00	133.80	
14	261.65	183.70	236.45	139.20	97.70	87.20	152.70	63.90	184.65	135.60	150.00	140.10	
15	265.85	222.00	220.00	143.70	101.25	69.75	161.85	72.35	153.60	146.40	138.30	124.80	
16	269.00	262.70	192.25	179.90	99.10	69.10	172.30	71.70	175.15	144.60	148.20	163.75	
17	276.35	248.00	187.50	193.20	139.20	93.50	180.85	71.70	140.10	127.20	130.40	137.40	
18	271.10	190.35	168.50	177.05	149.10	102.75	197.00	75.60	145.50	159.95	139.20	105.75	
19	235.40	157.20	188.45	144.60	133.80	173.25	175.15	84.40	159.00	193.20	154.50	108.80	
20	217.00	150.90	254.30	128.80	144.60	202.00	148.20	116.80	146.40	150.00	144.60	97.00	
21	204.00	148.20	222.00	134.70	161.85	169.45	112.00	121.60	130.40	112.80	128.00	93.50	
22	202.00	166.60	196.05	139.20	153.60	122.40	95.60	123.20	128.00	132.00	136.50	81.60	
23	200.00	174.20	182.75	128.00	115.20	105.75	91.40	117.60	149.10	132.00	148.20	72.35	
24	198.00	142.80	177.05	128.80	105.00	150.90	112.80	99.10	132.90	120.00	144.60	80.90	
25	197.00	129.60	184.65	128.00	123.20	218.00	107.25	108.00	137.40	110.40	129.60	87.90	
26	206.00	115.20	192.25	118.40	155.40	244.85	105.75	120.00	139.20	99.80	128.80	113.60	
27	220.00	116.80	184.65	122.40	146.40	285.80	99.80	112.00	128.00	102.00	143.70	119.20	
28	250.10	141.90	173.25	120.80	121.60	319.70	97.00	111.20	132.00	112.00	165.65	104.25	
29	255.35	222.00	166.60	110.40	112.80	363.90	96.30	105.75	114.40	138.30		91.40	
30	261.65	237.50	141.00	110.40	88.60	326.30	89.30	108.80	123.20	126.40		99.80	
31		223.00		101.25	91.40		71.70		128.80	112.80		106.50	
Total	7122.45	6071.70	5962.60	4848.00	3598.45	5271.40	5126.05	2943.50	4695.95	4556.50	3971.75	4039.20	58207.55 CMSDAY
Mean	237.42	195.86	198.75	156.39	116.08	175.71	165.36	98.12	151.48	146.98	141.85	130.30	159.47 CMS
Max	296.60	297.70	267.95	288.95	161.85	363.90	296.60	164.70	202.00	251.15	165.65	222.00	363.90 CMS
Min	197.00	115.20	141.00	101.25	88.60	69.10	71.70	63.90	98.40	99.80	121.60	72.35	63.90 CMS
Runoff	615.38	524.60	515.17	418.87	310.91	455.45	442.89	254.32	405.73	393.68	343.16	348.99	5029.13 MCM
Momentary Peak	376.55 CMS. at 38.57 m. (MSL) at 20.00 Hours , on Sep 29 , 2009												
Runoff Yield	6.37 Liters/Second/Square KM.			Momentary Peak Yield				15.039 Liters/Second/Square KM.					

WATER YEAR : 2009**Nan RIVER BASIN****Nan River at Mueang , Phichit (N.7A)**

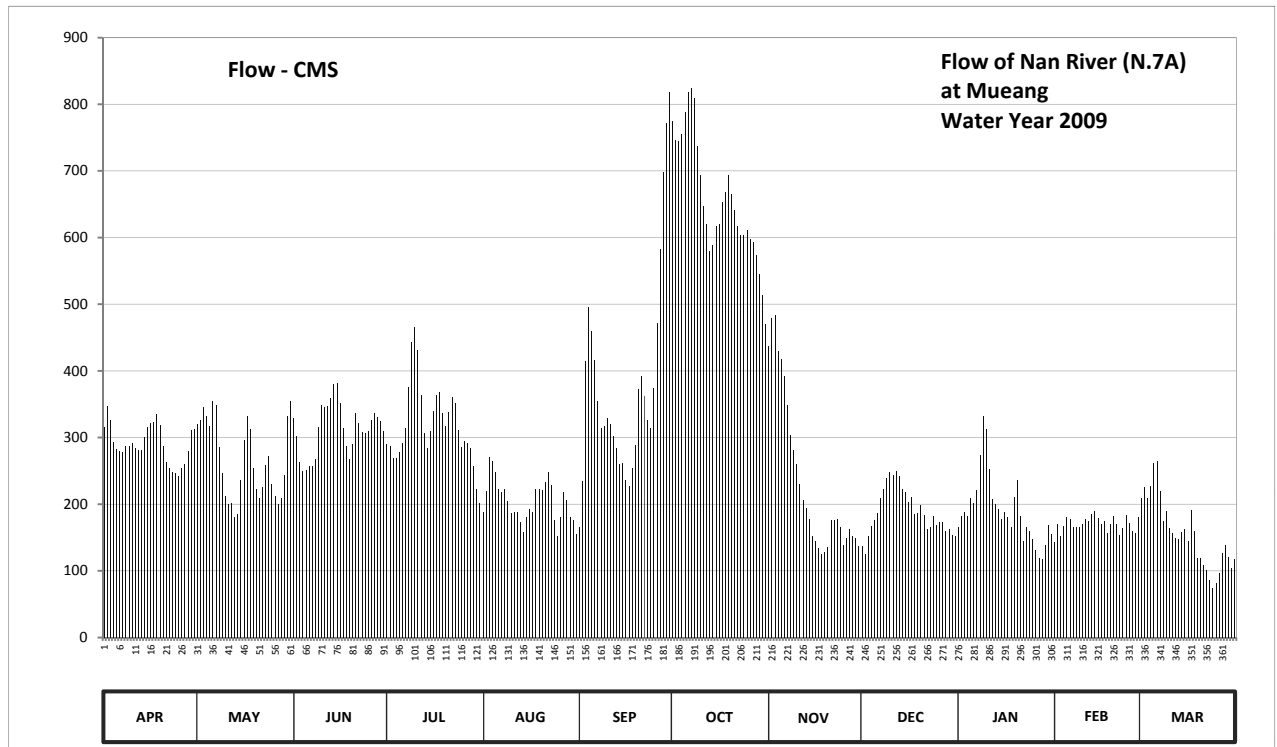
Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

Location : on right bank in front of Phichit Phitthaya Khom School

	Ban	Rat Chang Khwan	Amphoe	Mueang	Changwat	Phichit
Drainage Area	27,897	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+26.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of Phichit Phitthaya Khom School.				Elevation	+42.146 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2000 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records very good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 35 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.42	29.46	29.54	29.20	28.30	28.08	33.10	30.46	27.81	28.08	27.87	28.48	
2	29.70	29.52	29.30	29.18	28.58	28.71	32.88	30.81	27.68	28.24	28.12	28.63	
3	29.52	29.68	28.97	29.02	29.03	30.27	32.87	30.85	27.95	28.30	27.95	28.49	
4	29.22	29.56	28.85	29.02	28.98	30.94	32.95	30.40	28.10	28.24	28.10	28.65	
5	29.14	29.43	28.86	29.09	28.83	30.64	33.20	30.30	28.19	28.48	28.23	28.95	
6	29.11	29.76	28.91	29.21	28.61	30.28	33.42	30.09	28.28	28.42	28.20	28.98	
7	29.10	29.71	28.91	29.41	28.56	29.76	33.47	29.71	28.49	28.59	28.09	28.58	
8	29.17	29.16	29.01	29.95	28.61	29.41	33.36	29.32	28.61	29.06	28.09	28.17	
9	29.17	28.82	29.42	30.51	28.44	29.43	32.81	29.12	28.75	29.56	28.09	28.31	
10	29.21	28.51	29.71	30.70	28.28	29.54	32.48	28.94	28.83	29.39	28.13	28.07	
11	29.15	28.40	29.68	30.41	28.30	29.46	32.12	28.67	28.79	28.87	28.20	28.00	
12	29.12	28.42	29.70	29.84	28.29	29.30	31.91	28.46	28.85	28.47	28.17	27.93	
13	29.12	28.22	29.80	29.34	28.15	29.15	31.60	28.35	28.78	28.40	28.26	27.91	
14	29.29	28.26	29.99	29.15	28.01	28.94	31.67	28.20	28.61	28.33	28.31	28.01	
15	29.42	28.72	30.00	29.37	28.22	28.95	31.89	27.96	28.56	28.20	28.21	28.05	
16	29.47	29.25	29.74	29.63	28.33	28.72	31.91	27.88	28.43	28.30	28.12	27.89	
17	29.49	29.57	29.41	29.84	28.29	28.64	32.16	27.78	28.50	28.23	28.17	28.32	
18	29.59	29.39	29.18	29.88	28.61	28.88	32.28	27.68	28.27	28.08	27.99	28.02	
19	29.45	28.88	29.01	29.61	28.60	29.19	32.47	27.72	28.28	28.50	28.13	27.63	
20	29.17	28.60	29.20	29.44	28.59	29.92	32.26	27.80	28.39	28.72	28.24	27.63	
21	28.97	28.49	29.61	29.62	28.70	30.09	32.07	28.18	28.25	28.24	28.13	27.51	
22	28.88	28.63	29.48	29.81	28.83	29.83	31.89	28.19	28.05	27.88	27.97	27.43	
23	28.84	28.93	29.36	29.73	28.66	29.52	31.78	28.20	28.08	28.08	28.07	27.27	
24	28.82	29.04	29.34	29.38	28.19	29.41	31.78	28.08	28.24	28.03	28.25	27.15	
25	28.78	28.68	29.37	29.16	27.95	29.93	31.84	27.83	28.11	27.91	28.14	27.23	
26	28.88	28.51	29.52	29.24	28.23	30.75	31.74	27.92	28.16	27.75	28.02	27.39	
27	28.94	28.40	29.60	29.21	28.56	31.62	31.70	28.06	28.15	27.62	28.00	27.71	
28	29.11	28.48	29.55	29.15	28.45	32.51	31.55	27.96	28.03	27.60	28.22	27.82	
29	29.38	28.80	29.50	28.91	28.23	33.07	31.33	27.92	28.06	27.83		27.64	
30	29.40	29.56	29.37	28.61	28.19	33.42	31.08	27.81	27.97	28.11		27.47	
31		29.76		28.42	27.98		30.73		27.96	27.98		27.60	
Mean	29.20	28.99	29.40	29.45	28.44	29.95	32.20	28.69	28.30	28.31	28.12	27.97	
Max	29.70	29.76	30.00	30.70	29.03	33.42	33.47	30.85	28.85	29.56	28.31	28.98	33.47
Min	28.78	28.22	28.85	28.42	27.95	28.08	30.73	27.68	27.68	27.60	27.87	27.15	27.15
Annual Max Momentary Gage Height	33.48		m. (MSL.) ,				at 18.00 Hours , on Oct 6 , 2009						
Zero Gage at Bottom Elevation	26.00		m. (MSL.) ,			River Bed	22.18		m. (MSL)				
Left Bank Elevation	41.89		m. (MSL.) ,										
Right Bank Elevation	41.93		m. (MSL.) ,			Drainage Area	27897		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	315.30	319.90	329.10	290.00	189.00	165.40	775.00	437.20	137.05	165.40	143.35	208.80		
2	347.50	326.80	301.50	287.70	219.80	234.10	746.40	479.25	124.60	182.40	169.60	225.30		
3	326.80	345.20	263.55	269.30	270.45	414.40	745.10	484.25	151.75	189.00	151.75	209.90		
4	292.30	331.40	249.75	269.30	264.70	495.50	755.50	430.00	167.50	182.40	167.50	227.50		
5	283.10	316.45	250.90	277.35	247.45	458.80	788.00	418.00	176.95	208.80	181.30	261.25		
6	279.65	354.40	256.65	291.15	223.10	415.60	817.70	392.80	186.80	202.20	178.00	264.70		
7	278.50	348.65	256.65	314.15	217.60	354.40	824.45	348.65	209.90	220.90	166.45	219.80		
8	286.55	285.40	268.15	376.25	223.10	314.15	809.60	303.80	223.10	273.90	166.45	174.85		
9	286.55	246.30	315.30	443.20	204.40	316.45	737.30	280.80	238.50	331.40	166.45	190.10		
10	291.15	212.10	348.65	466.00	186.80	329.10	694.40	260.10	247.45	311.85	170.65	164.35		
11	284.25	200.00	345.20	431.20	189.00	319.90	647.60	229.70	242.90	252.05	178.00	157.00		
12	280.80	202.20	347.50	363.60	187.90	301.50	620.30	206.60	249.75	207.70	174.85	149.65		
13	280.80	180.20	359.00	306.10	172.75	284.25	580.00	194.50	241.80	200.00	184.60	147.55		
14	300.35	184.60	380.85	284.25	158.05	260.10	589.10	178.00	223.10	192.30	190.10	158.05		
15	315.30	235.20	382.00	309.55	180.20	261.25	617.70	152.80	217.60	178.00	179.10	162.25		
16	321.05	295.75	352.10	339.45	192.30	235.20	620.30	144.40	203.30	189.00	169.60	145.45		
17	323.35	332.55	314.15	363.60	187.90	226.40	652.80	134.10	211.00	181.30	174.85	191.20		
18	334.85	311.85	287.70	368.20	223.10	253.20	668.40	124.60	185.70	165.40	155.95	159.10		
19	318.75	253.20	268.15	337.15	222.00	288.85	693.10	128.40	186.80	211.00	170.65	119.85		
20	286.55	222.00	290.00	317.60	220.90	372.80	665.80	136.00	198.90	235.20	182.40	119.85		
21	263.55	209.90	337.15	338.30	233.00	392.80	641.10	175.90	183.50	182.40	170.65	108.45		
22	253.20	225.30	322.20	360.15	247.45	362.45	617.70	176.95	162.25	144.40	153.85	100.85		
23	248.60	258.95	308.40	350.95	228.60	326.80	603.40	178.00	165.40	165.40	164.35	85.65		
24	246.30	271.60	306.10	310.70	176.95	314.15	603.40	165.40	182.40	160.15	183.50	74.50		
25	241.80	230.80	309.55	285.40	151.75	373.95	611.20	139.15	168.55	147.55	171.70	81.85		
26	253.20	212.10	326.80	294.60	181.30	472.00	598.20	148.60	173.80	131.25	159.10	97.05		
27	260.10	200.00	336.00	291.15	217.60	582.60	593.00	163.30	172.75	118.90	157.00	127.45		
28	279.65	208.80	330.25	284.25	205.50	698.30	573.50	152.80	160.15	117.00	180.20	138.10		
29	310.70	244.00	324.50	256.65	181.30	771.10	544.90	148.60	163.30	139.15		120.80		
30	313.00	331.40	309.55	223.10	176.95	817.70	513.00	137.05	153.85	168.55		104.65		
31		354.40		202.20	154.90		469.60		152.80	154.90		117.00		
Total	8703.55	8251.40	9377.35	9902.55	6335.80	11413.20	20417.55	7049.70	5863.20	5909.85	4761.95	4812.85	102798.96	CMSDAY
Mean	290.12	266.17	312.58	319.44	204.38	380.44	658.63	234.99	189.14	190.64	170.07	155.25	281.64	CMS
Max	347.50	354.40	382.00	466.00	270.45	817.70	824.45	484.25	249.75	331.40	190.10	264.70	824.45	CMS
Min	241.80	180.20	249.75	202.20	151.75	165.40	469.60	124.60	124.60	117.00	143.35	74.50	74.50	CMS
Runoff	751.99	712.92	810.20	855.58	547.41	986.10	1764.08	609.09	506.58	510.61	411.43	415.83	8881.83	MCM
Momentary Peak	825.80 CMS. at 33.48 m. (MSL.) at 18.00 Hours , on Oct 6 , 2009													
Runoff Yield	10.10 Liters/Second/Square KM.			Momentary Peak Yield				29.602 /Second/Square KM.						

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Ban Hor Krai , Phichit (N.8A)

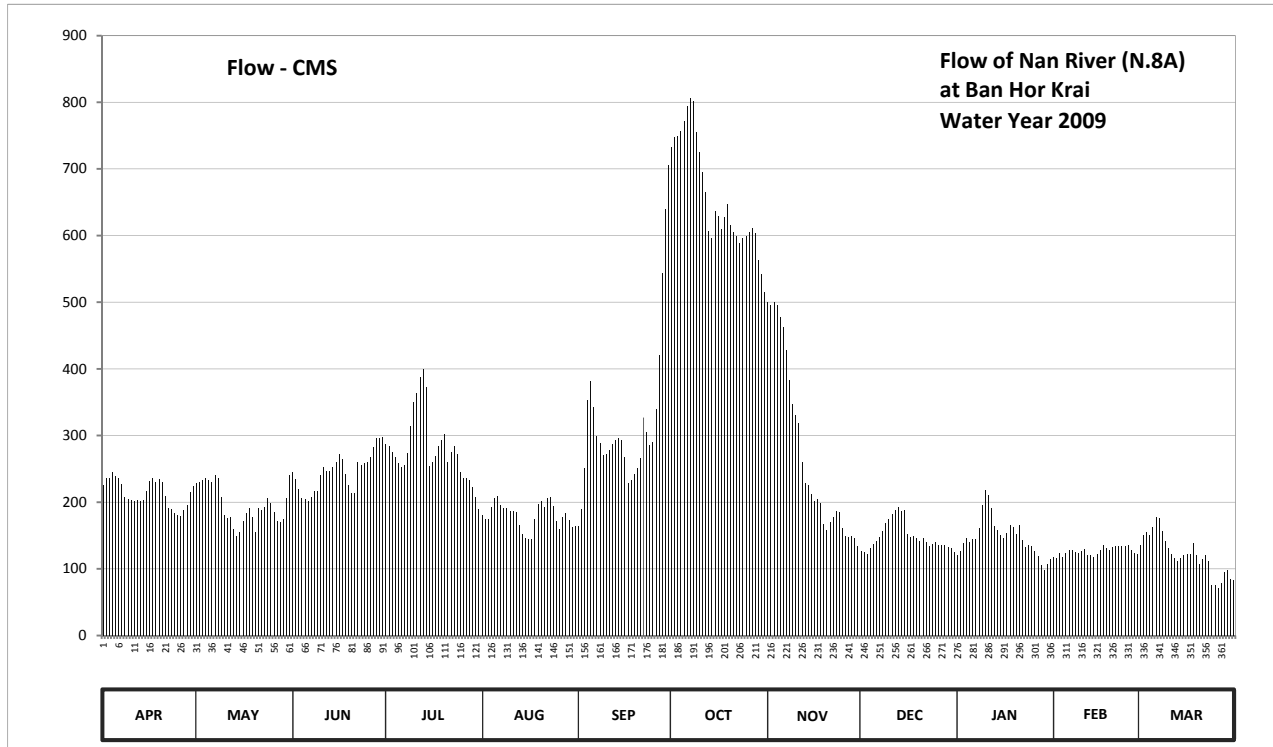
Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

Location : on right bank opposite to Wat Bang Mun Nak.

	Ban Hor Krai	Amphoe Bang Mun Nak	Changwat Phichit
Drainage Area	31,472 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+20.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 89 meters upstream from the top staff gage.	Elevation	+30.948 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 means of 5 readings		
Period of Available Gage Records	2000 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 19 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.84	23.90	24.11	24.64	23.21	22.96	29.01	26.90	22.34	22.24	22.20	22.50	
2	24.00	23.91	23.98	24.59	23.11	23.34	29.13	26.86	22.33	22.35	22.18	22.74	
3	23.99	23.95	23.77	24.48	23.11	24.19	29.14	26.90	22.26	22.54	22.29	22.81	
4	24.12	24.01	23.57	24.39	23.37	25.40	29.21	26.86	22.42	22.67	22.20	22.74	
5	24.04	23.96	23.54	24.28	23.56	25.71	29.34	26.67	22.52	22.57	22.29	22.94	
6	24.00	23.91	23.51	24.20	23.61	25.28	29.53	26.52	22.60	22.65	22.38	23.15	
7	23.87	24.05	23.60	24.25	23.42	24.78	29.63	26.18	22.69	22.65	22.38	23.13	
8	23.60	24.01	23.72	24.47	23.35	24.65	29.59	25.73	22.85	22.91	22.32	22.85	
9	23.55	23.60	23.71	24.97	23.36	24.43	29.19	25.33	23.02	23.41	22.29	22.60	
10	23.53	23.21	24.05	25.36	23.28	24.45	28.94	25.15	23.12	23.75	22.35	22.43	
11	23.50	23.14	24.20	25.51	23.29	24.52	28.69	25.02	23.22	23.63	22.40	22.27	
12	23.53	23.16	24.13	25.77	23.27	24.64	28.42	24.29	23.32	23.36	22.24	22.17	
13	23.50	22.89	24.13	25.90	22.99	24.72	27.89	23.90	23.37	22.97	22.25	22.10	
14	23.52	22.73	24.21	25.62	22.77	24.76	27.78	23.84	23.29	22.86	22.19	22.18	
15	23.71	22.81	24.31	24.22	22.66	24.72	28.16	23.66	23.32	22.74	22.26	22.24	
16	23.93	23.08	24.44	24.31	22.65	24.40	28.09	23.50	22.76	22.67	22.38	22.26	
17	24.01	23.24	24.36	24.41	22.65	23.88	27.91	23.54	22.70	22.79	22.49	22.26	
18	23.91	23.36	24.08	24.59	23.12	23.96	28.07	23.46	22.73	22.98	22.42	22.54	
19	23.97	23.15	23.84	24.71	23.44	24.07	28.26	23.00	22.67	22.95	22.38	22.25	
20	23.91	22.83	23.68	24.83	23.50	24.18	27.96	22.88	22.59	22.76	22.45	22.02	
21	23.62	23.36	23.68	24.29	23.38	24.38	27.87	23.04	22.67	22.99	22.48	22.15	
22	23.36	23.32	24.31	24.49	23.58	25.11	27.81	23.16	22.57	22.61	22.48	22.25	
23	23.34	23.38	24.25	24.59	23.59	24.87	27.72	23.28	22.47	22.44	22.46	22.10	
24	23.25	23.56	24.28	24.46	23.40	24.62	27.79	23.27	22.52	22.50	22.48	21.48	
25	23.21	23.45	24.31	24.12	23.08	24.68	27.81	22.92	22.56	22.48	22.50	21.46	
26	23.18	23.26	24.39	24.01	22.89	25.25	27.87	22.71	22.50	22.35	22.38	21.37	
27	23.30	23.07	24.58	24.01	23.15	26.10	27.93	22.70	22.50	22.22	22.29	21.53	
28	23.42	23.04	24.74	23.95	23.25	27.31	27.85	22.73	22.50	22.00	22.28	21.82	
29	23.69	23.11	24.76	23.81	23.10	28.19	27.49	22.67	22.45	21.87		21.86	
30	23.82	23.57	24.77	23.59	22.94	28.78	27.29	22.46	22.41	22.02		21.65	
31		24.06		23.34	22.96		27.05		22.33	22.14		21.62	
Mean	23.67	23.42	24.10	24.52	23.19	24.94	28.34	24.30	22.70	22.68	22.35	22.24	
Max	24.12	24.06	24.77	25.90	23.61	28.78	29.63	26.90	23.37	23.75	22.50	23.15	29.63
Min	23.18	22.73	23.51	23.34	22.65	22.96	27.05	22.46	22.26	21.87	22.18	21.37	21.37
Annual Max Momentary Gage Height	29.63		m. (MSL.) ,				at 06.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	20.00		m. (MSL.) ,			River Bed	19.79	m. (MSL)					
Left Bank Elevation		31.28		m. (MSL.) ,									
Right Bank Elevation		31.72		m. (MSL.) ,		Drainage Area	31472	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	224.95	229.09	244.80	287.20	181.42	164.15	733.45	500.00	126.40	120.40	118.00	136.00		
2	236.00	229.78	234.62	283.20	174.51	190.40	747.64	496.00	125.80	127.00	116.80	150.40		
3	235.31	232.55	220.11	274.40	174.51	251.20	748.82	500.00	121.60	138.40	123.40	154.60		
4	245.60	236.80	206.29	267.20	192.47	353.00	757.09	496.00	131.20	146.20	118.00	150.40		
5	239.20	233.24	204.22	258.40	205.60	381.00	772.45	477.00	137.20	140.20	123.40	162.76		
6	236.00	229.78	202.15	252.00	209.05	342.20	794.91	462.00	142.00	145.00	128.80	177.27		
7	227.02	240.00	208.36	256.00	195.93	298.40	806.73	428.00	147.40	145.00	128.80	175.89		
8	208.36	236.80	216.65	273.60	191.09	288.00	802.00	383.00	157.00	160.69	125.20	157.00		
9	204.91	208.36	215.96	314.30	191.78	270.40	754.73	346.70	168.29	195.24	123.40	142.00		
10	203.53	181.42	240.00	349.40	186.25	272.00	725.18	330.50	175.20	218.73	127.00	131.80		
11	201.45	176.58	252.00	362.90	186.95	277.60	695.64	318.80	182.11	210.44	130.00	122.20		
12	203.53	177.96	246.40	387.00	185.56	287.20	665.31	259.20	189.02	191.78	120.40	116.20		
13	201.45	159.40	246.40	400.00	166.22	293.60	607.34	229.09	192.47	164.84	121.00	112.00		
14	202.84	149.80	252.80	372.80	152.20	296.80	595.31	224.95	186.95	157.60	117.40	116.80		
15	215.96	154.60	260.80	253.60	145.60	293.60	636.87	212.51	189.02	150.40	121.60	120.40		
16	231.16	172.44	271.20	260.80	145.00	268.00	629.22	201.45	151.60	146.20	128.80	121.60		
17	236.80	183.49	264.80	268.80	145.00	227.71	609.53	204.22	148.00	153.40	135.40	121.60		
18	229.78	191.78	242.40	283.20	175.20	233.24	627.03	198.69	149.80	165.53	131.20	138.40		
19	233.93	177.27	224.95	292.80	197.31	241.60	647.81	166.91	146.20	163.45	128.80	121.00		
20	229.78	155.80	213.89	302.40	201.45	250.40	615.00	158.80	141.40	151.60	133.00	107.20		
21	209.75	191.78	213.89	259.20	193.16	266.40	605.16	169.67	146.20	166.22	134.80	115.00		
22	191.78	189.02	260.80	275.20	206.98	326.90	598.59	177.96	140.20	142.60	134.80	121.00		
23	190.40	193.16	256.00	283.20	207.67	305.60	588.75	186.25	134.20	132.40	133.60	112.00		
24	184.18	205.60	258.40	272.80	194.55	285.60	596.41	185.56	137.20	136.00	134.80	76.00		
25	181.42	198.00	260.80	245.60	172.44	290.40	598.59	161.38	139.60	134.80	136.00	75.00		
26	179.35	184.87	267.20	236.80	159.40	339.50	605.16	148.60	136.00	127.00	128.80	70.50		
27	187.64	171.75	282.40	236.80	177.27	420.00	611.72	148.00	136.00	119.20	123.40	78.50		
28	195.93	169.67	295.20	232.55	184.18	543.91	602.97	149.80	136.00	106.00	122.80	95.20		
29	214.58	174.51	296.80	222.87	173.82	640.16	563.59	146.20	133.00	98.20		97.60		
30	223.56	206.29	297.60	207.67	162.76	706.27	541.72	133.60	130.60	107.20		85.00		
31		240.80		190.40	164.15		515.47		125.80	114.40		83.20		
Total	6406.15	6082.39	7357.89	8663.09	5599.48	9605.24	20400.19	8200.84	4603.46	4576.12	3549.40	3744.52	88788.78	CMSDAY
Mean	213.54	196.21	245.26	279.45	180.63	320.17	658.07	273.36	148.50	147.62	126.76	120.79	243.26	CMS
Max	245.60	240.80	297.60	400.00	209.05	706.27	806.73	500.00	192.47	218.73	136.00	177.27	806.73	CMS
Min	179.35	149.80	202.15	190.40	145.00	164.15	515.47	133.60	121.60	98.20	116.80	70.50	70.50	CMS
Runoff	553.49	525.52	635.72	748.49	483.80	829.89	1762.58	708.55	397.74	395.38	306.67	323.53	7671.35	MCM
Momentary Peak	806.73 CMS. at 29.63 m. (MSL.) at 06.00 Hours , on Oct 7 , 2009													
Runoff Yield	7.73 Liters/Second/Square KM.			Momentary Peak Yield				25.633 Liters/Second/Square KM.						

WATER YEAR : 2009**Nan RIVER BASIN****Nan River at Ban Taphan Hin , Phichit (N.10A)**

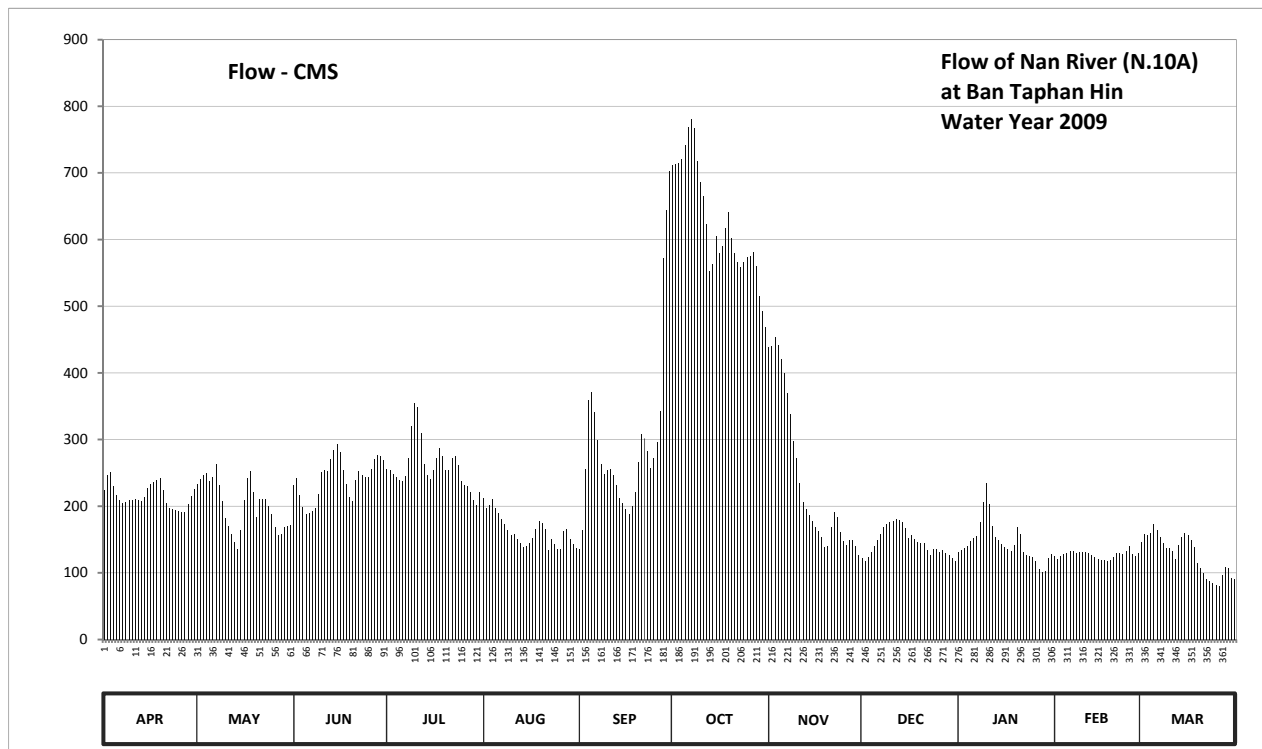
Lat 16 - 13 - 00 N Long 100 - 25 - 19 E

Location : on left bank near Amphoe Taphan Hin Office about 250 meters from Station N.10

	Ban Taphan Hin	Amphoe Taphan Hin	Changwat Phichit
Drainage Area	30,328 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+22.280 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near automatic gage building.	Elevation	+33.300 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 means of 5 readings		
Period of Available Gage Records	1969 to date		
Rating Operation			
Period of Rating	1974 - 1979, 1991 to date		
Rated by Flot	-		
Rated by Current Meter	1974 - 1982, 1987, 1991 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 35 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.19	25.31	25.29	25.59	25.05	23.97	30.15	27.56	23.75	23.91	23.81	24.15	
2	25.48	25.39	25.41	25.57	24.87	24.39	30.17	27.57	23.69	23.96	23.74	24.32	
3	25.52	25.48	25.10	25.49	24.93	25.58	30.18	27.70	23.78	24.00	23.80	24.29	
4	25.26	25.51	24.88	25.43	25.03	26.76	30.24	27.58	23.91	24.06	23.86	24.34	
5	25.10	25.37	24.73	25.38	24.87	26.88	30.42	27.37	24.05	24.16	23.89	24.53	
6	25.02	25.44	24.75	25.37	24.75	26.56	30.66	27.16	24.18	24.23	23.92	24.39	
7	24.96	25.68	24.80	25.45	24.63	26.09	30.76	26.86	24.32	24.28	23.93	24.26	
8	24.97	25.29	24.87	25.79	24.52	25.67	30.65	26.53	24.47	24.57	23.89	24.13	
9	25.01	24.99	25.13	26.32	24.40	25.49	30.21	26.08	24.52	24.97	23.90	24.01	
10	25.01	24.65	25.52	26.70	24.30	25.56	29.92	25.78	24.56	25.33	23.90	24.00	
11	25.03	24.48	25.56	26.64	24.31	25.58	29.73	25.33	24.58	24.94	23.91	23.94	
12	25.02	24.31	25.55	26.20	24.21	25.48	29.35	24.97	24.62	24.49	23.87	23.73	
13	25.00	24.14	25.77	25.68	24.13	25.29	28.69	24.84	24.61	24.25	23.82	24.08	
14	25.07	23.98	25.92	25.48	24.02	25.06	28.80	24.72	24.57	24.18	23.77	24.26	
15	25.23	24.39	26.02	25.40	24.06	24.95	29.18	24.59	24.44	24.11	23.73	24.33	
16	25.31	25.02	25.89	25.56	24.13	24.85	28.95	24.45	24.24	24.04	23.71	24.29	
17	25.34	25.41	25.57	25.79	24.23	24.73	29.04	24.37	24.29	23.98	23.70	24.18	
18	25.38	25.55	25.30	25.95	24.42	24.90	29.29	24.26	24.20	23.94	23.68	24.02	
19	25.42	25.17	25.07	25.82	24.59	25.17	29.51	24.04	24.15	24.08	23.70	23.64	
20	25.19	24.68	24.99	25.56	24.55	25.72	29.15	24.05	24.13	24.45	23.77	23.50	
21	24.96	25.04	25.38	25.56	24.42	26.18	28.95	24.47	24.13	24.31	23.88	23.37	
22	24.87	25.03	25.55	25.79	23.96	26.12	28.83	24.78	23.95	23.90	23.88	23.24	
23	24.84	25.04	25.47	25.82	24.21	25.91	28.76	24.68	23.82	23.82	23.85	23.17	
24	24.82	24.91	25.44	25.65	24.11	25.61	28.83	24.35	23.97	23.81	23.94	23.11	
25	24.80	24.74	25.43	25.37	23.97	25.78	28.90	24.17	23.97	23.78	24.06	23.05	
26	24.78	24.46	25.58	25.28	23.98	26.06	28.91	24.09	23.90	23.67	23.85	23.02	
27	24.78	24.29	25.77	25.27	24.37	26.57	28.97	24.18	23.96	23.48	23.81	23.32	
28	24.94	24.31	25.84	25.17	24.42	28.88	28.77	24.18	23.89	23.41	23.87	23.53	
29	25.09	24.46	25.82	25.02	24.22	29.54	28.32	24.06	23.84	23.42		23.50	
30	25.21	24.48	25.75	24.92	24.10	30.07	28.10	23.82	23.75	23.76		23.26	
31		24.50	25.17	24.01		27.86			23.68	23.85		23.22	
Mean	25.09	24.89	25.41	25.62	24.38	25.98	29.36	25.29	24.13	24.10	23.84	23.81	
Max	25.52	25.68	26.02	26.70	25.05	30.07	30.76	27.70	24.62	25.33	24.06	24.53	30.76
Min	24.78	23.98	24.73	24.92	23.96	23.97	27.86	23.82	23.68	23.41	23.68	23.02	23.02
Annual Max Momentary Gage Height	30.77		m. (MSL.) ,				at 09.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	22.28		m. (MSL.) ,				River Bed 20.34		m. (MSL)				
Left Bank Elevation	32.05		m. (MSL.) ,										
Right Bank Elevation	33.70		m. (MSL.) ,				Drainage Area 30328		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	223.52	233.26	231.63	255.97	212.17	135.20	711.50	439.00	122.00	131.60	125.60	146.56		
2	247.04	239.74	241.37	254.34	197.86	163.66	713.70	440.00	118.40	134.60	121.40	158.67		
3	250.29	247.04	216.22	247.86	202.43	255.16	714.80	453.00	123.80	137.00	125.00	156.54		
4	229.20	249.48	198.57	242.99	210.54	359.40	721.40	441.00	131.60	140.60	128.60	160.10		
5	216.22	238.12	187.89	238.93	197.86	371.00	741.20	420.00	140.00	147.27	130.40	173.64		
6	209.73	243.80	189.31	238.12	189.31	341.40	769.20	399.00	148.70	152.26	132.20	163.66		
7	204.87	263.27	192.87	244.61	180.76	299.10	781.20	369.00	158.67	155.83	132.80	154.40		
8	205.68	231.63	197.86	272.19	172.93	262.46	768.00	338.70	169.36	176.49	130.40	145.14		
9	208.92	207.30	218.66	319.80	164.37	247.86	718.10	298.20	172.93	205.68	131.00	137.60		
10	208.92	182.19	250.29	354.00	157.25	253.53	686.20	271.38	175.77	234.88	131.00	137.00		
11	210.54	170.07	253.53	348.60	157.96	255.16	665.30	234.88	177.20	203.24	131.60	133.40		
12	209.73	157.96	252.72	309.00	150.84	247.04	623.50	205.68	180.05	170.79	129.20	120.80		
13	208.11	145.85	270.57	263.27	145.14	231.63	552.00	195.73	179.34	153.69	126.20	141.80		
14	213.79	135.80	283.80	247.04	138.20	212.98	563.00	187.17	176.49	148.70	123.20	154.40		
15	226.77	163.66	292.80	240.56	140.60	204.06	604.80	177.91	167.23	143.71	120.80	159.39		
16	233.26	209.73	281.10	253.53	145.14	196.44	579.50	167.94	152.97	139.40	119.60	156.54		
17	235.69	241.37	254.34	272.19	152.26	187.89	589.40	162.24	156.54	135.80	119.00	148.70		
18	238.93	252.72	232.44	286.50	165.80	200.00	616.90	154.40	150.13	133.40	117.80	138.20		
19	242.18	221.90	213.79	274.80	177.91	221.90	641.10	139.40	146.56	141.80	119.00	115.40		
20	223.52	184.33	207.30	253.53	175.06	266.51	601.50	140.00	145.14	167.94	123.20	107.00		
21	204.87	211.36	238.93	253.53	165.80	307.20	579.50	169.36	145.14	157.96	129.80	99.20		
22	197.86	210.54	252.72	272.19	134.60	301.80	566.30	191.45	134.00	131.00	129.80	91.40		
23	195.73	211.36	246.23	274.80	150.84	282.90	559.00	184.33	126.20	126.20	128.00	87.50		
24	194.30	200.81	243.80	260.83	143.71	257.59	566.30	160.81	135.20	125.60	133.40	84.50		
25	192.87	188.60	242.99	238.12	135.20	271.38	574.00	147.99	135.20	123.80	140.60	81.50		
26	191.45	168.65	255.16	230.82	135.80	296.40	575.10	142.40	131.00	117.20	128.00	80.00		
27	191.45	156.54	270.57	230.01	162.24	342.30	581.70	148.70	134.60	105.80	125.60	96.20		
28	203.24	157.96	276.60	221.90	165.80	571.80	560.00	148.70	130.40	101.60	129.20	108.80		
29	215.41	168.65	274.80	209.73	151.55	644.40	515.00	140.60	127.40	102.20		107.00		
30	225.14	170.07	268.94	201.62	143.00	702.70	493.00	126.20	122.00	122.60		92.60		
31		171.50		221.90	137.60		469.00		117.80	128.00		90.20		
Total	6459.23	6235.26	7237.80	8033.28	5060.53	8890.85	19401.20	7195.17	4531.82	4496.64	3562.40	3927.84	85032.02	CMSDAY
Mean	215.31	201.14	241.26	259.14	163.24	296.36	625.85	239.84	146.19	145.05	127.23	126.70	232.96	CMS
Max	250.29	263.27	292.80	354.00	212.17	702.70	781.20	453.00	180.05	234.88	140.60	173.64	781.20	CMS
Min	191.45	135.80	187.89	201.62	134.60	135.20	469.00	126.20	117.80	101.60	117.80	80.00	80.00	CMS
Runoff	558.08	538.73	625.35	694.08	437.23	768.17	1676.26	621.66	391.55	388.51	307.79	339.37	7346.77	MCM
Momentary Peak	782.40 CMS. at 30.77 m. (MSL.) at 09.00 Hours , on Oct 7 , 2009													
Runoff Yield	7.68 Liters/Second/Square KM.			Momentary Peak Yield				25.798 Liters/Second/Square KM.						

WATER YEAR : 2009**Nan RIVER BASIN****Nan River at Ban Hat Phai , Uttaradit (N.12A)**

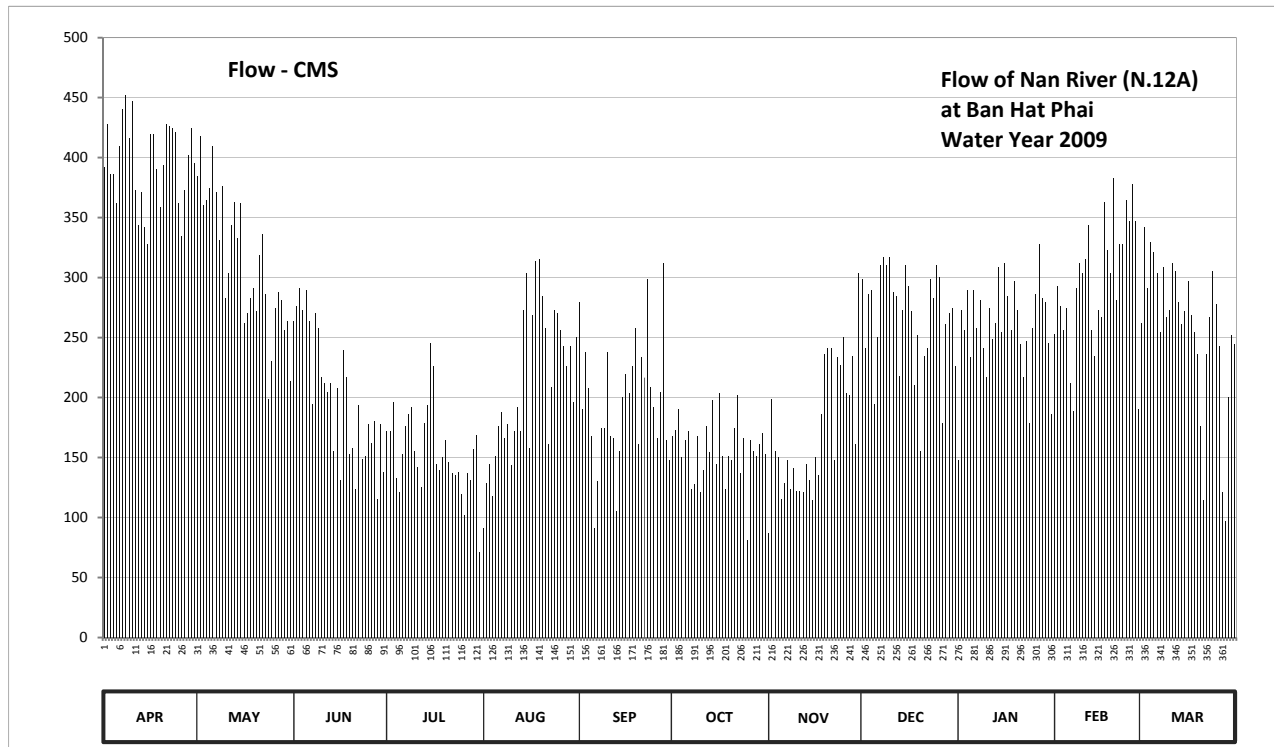
Lat 17 - 44 - 11 N Long 100 - 32 - 27 E

Location : on right bank about 4 kilometers downstream, Sirikit Dam Site, along Phasom - Silot road.

	Ban	Hat Phai	Amphoe	Tha Pla	Changwat	Uttaradit
Drainage Area	15,579	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+69.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank in front of gage observer's house.				Elevation	+84.000 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1966 to date					
Rating Operation						
Period of Rating	1966 to date					
Rated by Flot	-					
Rated by Current Meter	1966 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Flow regulated by Sirikit Dam reservoir about 6 kilometers above gage site. Stage-discharge relation defined by 34 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.46	72.41	71.66	71.04	70.42	71.76	71.01	70.39	71.88	70.86	71.59	71.65	
2	72.68	72.62	71.74	71.04	70.72	71.17	71.05	71.23	71.51	71.72	71.84	72.15	
3	72.42	72.26	71.83	71.21	70.84	71.49	71.17	70.92	71.80	71.61	71.74	71.83	
4	72.42	72.29	71.72	70.75	70.64	71.29	70.88	70.88	71.82	71.82	71.61	72.07	
5	72.27	72.35	71.82	70.66	70.89	71.01	70.99	70.62	71.20	71.46	71.73	72.02	
6	72.57	72.57	71.66	70.90	71.07	70.42	71.04	70.72	71.57	71.82	71.32	71.91	
7	72.76	72.33	71.20	71.07	71.15	70.73	70.68	70.86	71.95	71.62	71.16	71.60	
8	72.83	72.08	71.70	71.14	71.00	71.06	70.71	70.68	71.99	71.77	71.83	71.94	
9	72.61	72.36	71.62	71.18	71.08	71.06	71.01	70.81	71.95	71.51	71.96	71.68	
10	72.80	71.78	71.35	70.92	70.83	71.49	70.66	70.67	71.99	71.35	71.91	71.72	
11	72.34	71.91	71.32	70.82	71.04	71.01	70.80	70.67	71.81	71.73	71.98	71.96	
12	72.16	72.16	71.27	70.69	71.18	71.00	71.07	70.66	71.79	71.56	72.16	71.92	
13	72.33	72.28	71.32	71.09	71.04	70.54	70.91	70.84	71.36	71.65	71.61	71.76	
14	72.15	72.09	70.92	71.19	71.72	70.92	71.22	70.74	71.72	71.94	71.47	71.64	
15	72.06	72.27	71.29	71.54	71.91	71.24	70.84	70.61	71.95	71.60	71.72	71.71	
16	72.63	71.65	70.74	71.41	70.94	71.37	71.26	70.88	71.84	71.96	71.68	71.87	
17	72.63	71.70	71.50	70.84	71.69	71.26	70.89	70.77	71.71	71.79	72.28	71.69	
18	72.45	71.78	71.35	70.80	71.97	71.41	70.68	71.14	71.31	71.61	72.03	71.60	
19	72.25	71.83	70.90	70.88	71.98	71.62	70.89	71.48	71.58	71.87	71.91	71.48	
20	72.47	71.71	70.94	70.99	71.79	70.96	70.86	71.51	70.92	71.72	72.40	71.07	
21	72.68	72.00	70.68	70.85	71.62	71.46	71.06	71.51	71.47	71.53	71.77	70.61	
22	72.67	72.11	71.19	70.78	70.96	71.35	71.25	70.86	71.51	71.35	72.06	71.48	
23	72.66	71.80	70.87	70.77	71.30	71.88	70.78	71.46	71.88	71.55	72.06	71.68	
24	72.64	71.23	70.89	70.79	71.72	71.30	71.00	71.42	71.78	71.09	72.29	71.92	
25	72.27	71.44	71.08	70.65	71.70	71.18	70.34	71.57	71.95	71.62	72.18	71.75	
26	72.10	71.73	70.97	70.51	71.61	71.00	70.99	71.26	71.89	71.80	72.37	71.52	
27	72.34	71.81	71.10	70.78	71.52	71.27	70.92	71.25	71.09	72.06	72.18	70.66	
28	72.52	71.77	70.62	70.74	71.41	71.96	70.89	71.47	71.64	71.78	71.17	70.47	
29	72.66	71.61	71.08	70.93	71.52	70.99	70.96	70.96	71.70	71.76		71.24	
30	72.48	71.66	70.79	71.02	71.21	70.86	71.03	71.91	71.73	71.54		71.58	
31		71.33		70.26	71.57		70.90		71.41	71.14		71.53	
Mean	72.48	71.97	71.24	70.91	71.29	71.20	70.93	71.03	71.67	71.62	71.86	71.60	
Max	72.83	72.62	71.83	71.54	71.98	71.96	71.26	71.91	71.99	72.06	72.40	72.15	72.83
Min	72.06	71.23	70.62	70.26	70.42	70.42	70.34	70.39	70.92	70.86	71.16	70.47	70.26
Annual Max Momentary Gage Height	74.21		m. (MSL.) ,				at 15.00 Hours , on Apr 8 , 2009						
Zero Gage at Bottom Elevation	69.00		m. (MSL.) ,			River Bed	67.05		m. (MSL)				
Left Bank Elevation	82.68		m. (MSL.) ,										
Right Bank Elevation	83.8		m. (MSL.) ,			Drainage Area	15579		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	392.29	384.25	263.90	171.73	91.04	279.66	167.43	87.38	298.96	147.45	253.22	262.38	
2	427.69	418.04	276.44	171.73	128.90	190.37	173.17	198.97	241.03	273.22	292.53	342.41	
3	385.85	360.11	290.92	196.10	144.80	237.97	190.37	155.40	286.09	256.28	276.44	290.92	
4	385.85	364.94	273.22	132.88	118.30	207.57	150.10	150.10	289.31	289.31	256.28	329.54	
5	361.72	374.59	289.31	120.95	151.42	167.43	164.67	115.65	194.67	233.40	274.83	321.49	
6	409.99	409.99	263.90	152.75	176.03	91.04	171.73	128.90	250.18	289.31	212.05	303.79	
7	440.56	371.37	194.67	176.03	187.50	130.23	123.60	147.45	310.23	257.80	188.93	254.75	
8	452.14	331.15	270.00	186.07	166.00	174.60	127.58	123.60	316.66	281.26	290.92	308.62	
9	416.43	376.20	257.80	191.80	177.47	174.60	167.43	140.82	310.23	241.03	311.84	266.95	
10	447.00	282.87	216.62	155.40	143.48	237.97	120.95	122.27	316.66	216.62	303.79	273.22	
11	372.98	303.79	212.05	142.15	171.73	167.43	139.50	122.27	287.70	274.83	315.06	311.84	
12	344.02	344.02	204.70	124.93	191.80	166.00	176.03	120.95	284.48	248.65	344.02	305.40	
13	371.37	363.33	212.05	178.90	171.73	105.68	154.08	144.80	218.15	262.38	256.28	279.66	
14	342.41	332.75	155.40	193.23	273.22	155.40	197.53	131.55	273.22	308.62	234.93	260.85	
15	327.93	361.72	207.57	245.60	303.79	200.40	144.80	114.33	310.23	254.75	273.22	271.61	
16	419.64	262.38	131.55	225.78	158.05	219.68	203.27	150.10	292.53	311.84	266.95	297.36	
17	419.64	270.00	239.50	144.80	268.48	203.27	151.42	135.52	271.61	284.48	363.33	268.48	
18	390.68	282.87	216.62	139.50	313.45	225.78	123.60	186.07	210.52	256.28	323.10	254.75	
19	358.50	290.92	152.75	150.10	315.06	257.80	151.42	236.45	251.70	297.36	303.79	236.45	
20	393.90	271.61	158.05	164.67	284.48	160.70	147.45	241.03	155.40	273.22	382.64	176.03	
21	427.69	318.27	123.60	146.12	257.80	233.40	174.60	241.03	234.93	244.07	281.26	114.33	
22	426.08	335.97	193.23	136.85	160.70	216.62	201.83	147.45	241.03	216.62	327.93	236.45	
23	424.47	286.09	148.78	135.52	209.00	298.96	136.85	233.40	298.96	247.13	327.93	266.95	
24	421.25	198.97	151.42	138.18	273.22	209.00	166.00	227.30	282.87	178.90	364.94	305.40	
25	361.72	230.35	177.47	119.63	270.00	191.80	81.28	250.18	310.23	257.80	347.24	278.05	
26	334.36	274.83	162.03	102.02	256.28	166.00	164.67	203.27	300.57	286.09	377.81	242.55	
27	372.98	287.70	180.33	136.85	242.55	204.70	155.40	201.83	178.90	327.93	347.24	120.95	
28	401.94	281.26	115.65	131.55	225.78	311.84	151.42	234.93	260.85	282.87	190.37	97.14	
29	424.47	256.28	177.47	156.73	242.55	164.67	160.70	160.70	270.00	279.66		200.40	
30	395.51	263.90	138.18	168.87	196.10	147.45	170.30	303.79	274.83	245.60		251.70	
31		213.57		71.52	250.18		152.75		225.78	186.07		244.07	
Total	11851.06	9704.09	6055.18	4808.94	6520.89	5898.02	4861.93	5157.49	8248.51	8010.83	8288.87	7974.49	87380.32
Mean	395.04	313.04	201.84	155.13	210.35	196.60	156.84	171.92	266.08	258.41	296.03	257.24	239.40
Max	452.14	418.04	290.92	245.60	315.06	311.84	203.27	303.79	316.66	327.93	382.64	342.41	452.14
Min	327.93	198.97	115.65	71.52	91.04	91.04	81.28	87.38	155.40	147.45	188.93	97.14	71.52
Runoff	1023.93	838.43	523.17	415.49	563.41	509.59	420.07	445.61	712.67	692.14	716.16	689.00	7549.66
Momentary Peak	695.90 CMS. at 74.21 m. (MSL) at 15.00 Hours , on Apr 8 , 2009												
Runoff Yield	15.37 Liters/Second/Square KM.			Momentary Peak Yield				44,669 Liters/Second/Square KM.					

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Ban Bun Nak , Nan (N.13A)

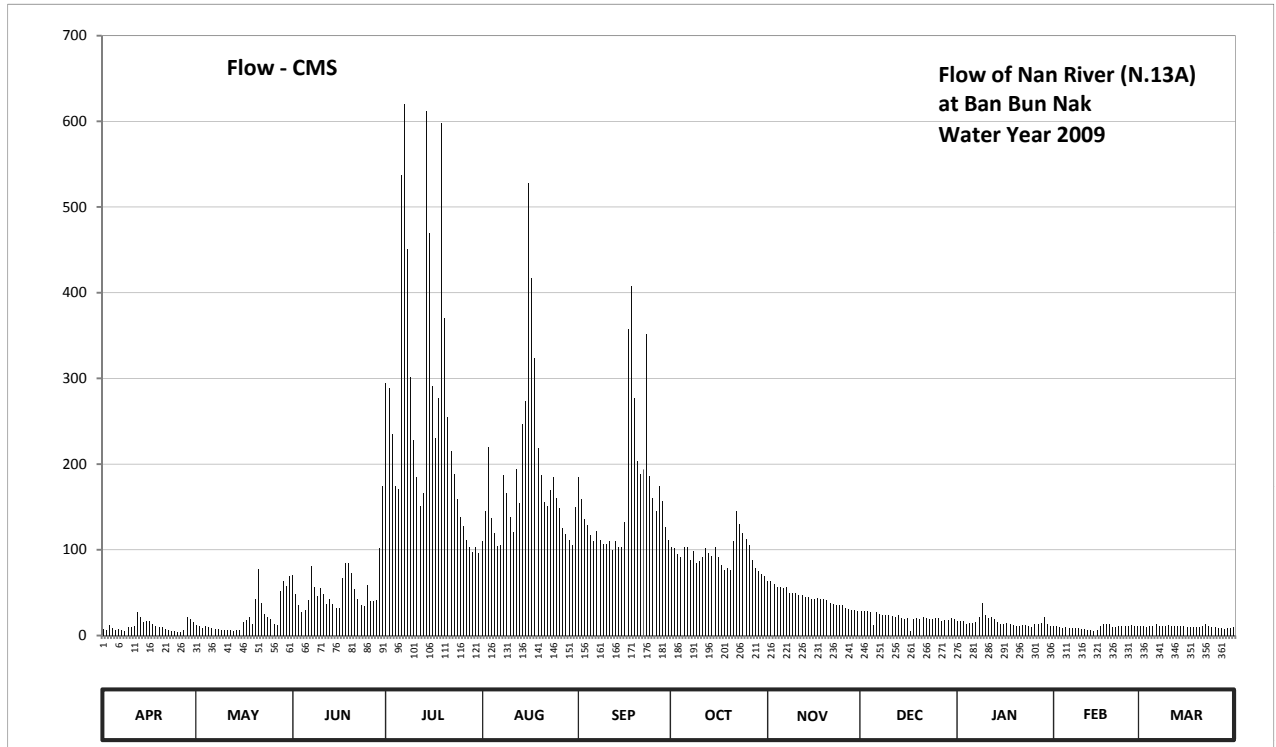
Lat 18 - 33 - 12 N Long 100 - 46 - 03 E

Location : on right bank about 2 kilometers upstream from Station N.13

	Ban	Bun Nak	Amphoe	Wiang Sa	Changwat	Nan
Drainage Area	8,706	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+177.400 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+192.700 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.88	177.96	178.56	180.48	178.94	179.56	178.88	178.48	178.13	178.02	177.94	177.94	
2	177.86	177.93	178.33	180.43	179.24	179.35	178.86	178.48	178.13	178.02	177.93	177.94	
3	177.95	177.90	178.21	179.98	179.86	179.16	178.80	178.45	178.13	178.02	177.91	177.91	
4	177.89	177.94	178.12	179.48	179.17	179.10	178.76	178.41	178.12	177.98	177.90	177.93	
5	177.86	177.91	178.15	179.45	179.02	179.00	178.87	178.41	177.95	177.99	177.91	177.93	
6	177.87	177.90	178.26	182.32	178.89	178.94	178.87	178.40	178.12	178.00	177.90	177.97	
7	177.86	177.88	178.66	182.93	178.90	179.04	178.73	178.42	178.10	178.01	177.90	177.93	
8	177.84	177.87	178.42	181.68	179.58	178.95	178.83	178.35	178.09	178.07	177.89	177.93	
9	177.92	177.86	178.31	180.54	179.41	178.91	178.69	178.35	178.09	178.23	177.89	177.93	
10	177.91	177.85	178.40	179.92	179.18	178.91	178.72	178.34	178.09	178.09	177.88	177.95	
11	177.93	177.86	178.33	179.56	179.03	178.94	178.76	178.32	178.08	178.05	177.87	177.94	
12	178.12	177.85	178.22	179.28	179.64	178.84	178.86	178.32	178.07	178.06	177.86	177.94	
13	178.06	177.84	178.27	179.41	179.31	178.94	178.81	178.30	178.09	178.04	177.85	177.93	
14	178.01	177.85	178.22	182.87	180.08	178.88	178.78	178.30	178.05	178.01	177.84	177.93	
15	178.02	177.85	178.17	181.82	180.30	178.88	178.87	178.28	178.04	177.97	177.85	177.94	
16	178.02	178.01	178.17	180.45	182.25	179.13	178.77	178.28	178.05	177.97	177.93	177.92	
17	177.98	178.03	178.52	179.94	181.43	180.97	178.67	178.29	177.83	177.99	177.97	177.92	
18	177.93	178.06	178.70	180.33	180.71	181.36	178.61	178.28	178.04	177.98	177.97	177.92	
19	177.91	177.98	178.70	182.77	179.85	180.33	178.64	178.27	178.05	177.95	177.97	177.92	
20	177.91	178.27	178.58	181.07	179.58	179.72	178.61	178.26	178.04	177.93	177.92	177.91	
21	177.87	178.63	178.39	180.15	179.32	179.59	178.94	178.23	178.06	177.94	177.92	177.93	
22	177.86	178.23	178.28	179.82	179.28	179.64	179.23	178.22	178.05	177.95	177.94	177.97	
23	177.84	178.10	178.21	179.59	179.44	180.93	179.11	178.21	178.04	177.95	177.94	177.93	
24	177.83	178.06	178.19	179.35	179.56	179.57	179.02	178.20	178.04	177.93	177.94	177.91	
25	177.82	178.04	178.44	179.18	179.36	179.36	178.96	178.20	178.05	177.92	177.94	177.91	
26	177.81	177.97	178.25	179.09	179.26	179.24	178.90	178.17	178.05	177.97	177.95	177.90	
27	177.86	177.96	178.25	178.95	179.07	179.48	178.73	178.16	178.02	177.97	177.94	177.89	
28	178.07	178.37	178.26	178.88	179.01	179.33	178.64	178.15	178.03	177.99	177.94	177.88	
29	178.04	178.48	178.86	178.82	178.95	179.08	178.60	178.15	178.03	178.07		177.89	
30	178.01	178.43	179.48	178.88	178.90	178.95	178.57	178.14	178.05	177.98		177.90	
31		178.54		178.81	179.27		178.54		178.04	177.94		177.91	
Mean	177.92	178.05	178.40	180.20	179.54	179.40	178.79	178.29	178.06	178.00	177.91	177.92	
Max	178.12	178.63	179.48	182.93	182.25	181.36	179.23	178.48	178.13	178.23	177.97	177.97	182.93
Min	177.81	177.84	178.12	178.81	178.89	178.84	178.54	178.14	177.83	177.92	177.84	177.88	177.81
Annual Max Momentary Gage Height	183.15		m. (MSL.) ,				at 18.00 Hours , on Jul 14 , 2009						
Zero Gage at Bottom Elevation	177.40		m. (MSL.) ,			River Bed	175.14		m. (MSL)				
Left Bank Elevation		190.03		m. (MSL.) ,									
Right Bank Elevation		192.58		m. (MSL.) ,		Drainage Area	8706		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.80	12.60	71.00	294.60	110.40	184.20	103.80	63.00	28.00	17.00	11.40	11.40	
2	6.60	10.80	48.00	288.60	145.80	159.00	101.60	63.00	28.00	17.00	10.80	11.40	
3	12.00	9.00	36.00	234.60	220.20	136.20	95.00	60.00	28.00	17.00	9.60	9.60	
4	8.40	11.40	27.00	174.60	137.40	129.00	91.00	56.00	27.00	13.80	9.00	10.80	
5	6.60	9.60	30.00	171.00	119.40	117.00	102.70	56.00	12.00	14.40	9.60	10.80	
6	7.20	9.00	41.00	537.20	104.90	110.40	102.70	55.00	27.00	15.00	9.00	13.20	
7	6.60	7.80	81.00	620.20	106.00	121.80	88.00	57.00	25.00	16.00	9.00	10.80	
8	5.40	7.20	57.00	450.80	186.60	111.50	98.30	50.00	24.00	22.00	8.40	10.80	
9	10.20	6.60	46.00	301.80	166.20	107.10	84.00	50.00	24.00	38.00	8.40	10.80	
10	9.60	6.00	55.00	227.40	138.60	107.10	87.00	49.00	24.00	24.00	7.80	12.00	
11	10.80	6.60	48.00	184.20	120.60	110.40	91.00	47.00	23.00	20.00	7.20	11.40	
12	27.00	6.00	37.00	150.60	193.80	99.40	101.60	47.00	22.00	21.00	6.60	11.40	
13	21.00	5.40	42.00	166.20	154.20	110.40	96.10	45.00	24.00	19.00	6.00	10.80	
14	16.00	6.00	37.00	611.80	246.60	103.80	93.00	45.00	20.00	16.00	5.40	10.80	
15	17.00	6.00	32.00	469.70	273.00	103.80	102.70	43.00	19.00	13.20	6.00	11.40	
16	17.00	16.00	32.00	291.00	527.75	132.60	92.00	43.00	20.00	13.20	10.80	10.20	
17	13.80	18.00	67.00	229.80	417.05	357.10	82.00	44.00	4.80	14.40	13.20	10.20	
18	10.80	21.00	85.00	276.60	323.30	407.80	76.00	43.00	19.00	13.80	13.20	10.20	
19	9.60	13.80	85.00	597.95	219.00	276.60	79.00	42.00	20.00	12.00	13.20	10.20	
20	9.60	42.00	73.00	370.10	186.60	203.40	76.00	41.00	19.00	10.80	10.20	9.60	
21	7.20	78.00	54.00	255.00	155.40	187.80	110.40	38.00	21.00	11.40	10.20	10.80	
22	6.60	38.00	43.00	215.40	150.60	193.80	144.60	37.00	20.00	12.00	11.40	13.20	
23	5.40	25.00	36.00	187.80	169.80	351.90	130.20	36.00	19.00	12.00	11.40	10.80	
24	4.80	21.00	34.00	159.00	184.20	185.40	119.40	35.00	19.00	10.80	11.40	9.60	
25	4.20	19.00	59.00	138.60	160.20	160.20	112.60	35.00	20.00	10.20	11.40	9.60	
26	3.60	13.20	40.00	127.80	148.20	145.80	106.00	32.00	20.00	13.20	12.00	9.00	
27	6.60	12.60	40.00	111.50	125.40	174.60	88.00	31.00	17.00	13.20	11.40	8.40	
28	22.00	52.00	41.00	103.80	118.20	156.60	79.00	30.00	18.00	14.40	11.40	7.80	
29	19.00	63.00	101.60	97.20	111.50	126.60	75.00	30.00	18.00	22.00		8.40	
30	16.00	58.00	174.60	103.80	106.00	111.50	72.00	29.00	20.00	13.80		9.00	
31		69.00		96.10	149.40		69.00		19.00	11.40		9.60	
Total	328.40	679.60	1653.20	8244.75	5676.30	4982.80	2949.70	1332.00	648.80	492.00	275.40	324.00	27586.95 CMSDAY
Mean	10.95	21.92	55.11	265.96	183.11	166.09	95.15	44.40	20.93	15.87	9.84	10.45	75.58 CMS
Max	27.00	78.00	174.60	620.20	527.75	407.80	144.60	63.00	28.00	38.00	13.20	13.20	620.20 CMS
Min	3.60	5.40	27.00	96.10	104.90	99.40	69.00	29.00	4.80	10.20	5.40	7.80	3.60 CMS
Runoff	28.37	58.72	142.84	712.35	490.43	430.51	254.85	115.09	56.06	42.51	23.80	27.99	2383.51 MCM
Momentary Peak	651.00 CMS. at 183.15 m. (MSL.) at 18.00 Hours , on Jul 14 , 2009												
Runoff Yield	8.68 Liters/Second/Square KM.			Momentary Peak Yield 74,776 Liters/Second/Square KM.									

WATER YEAR : 2009**Nan RIVER BASIN****Nan River at Wat Luang Pho Kaeo , Nakhon Sawan (N.14A)**

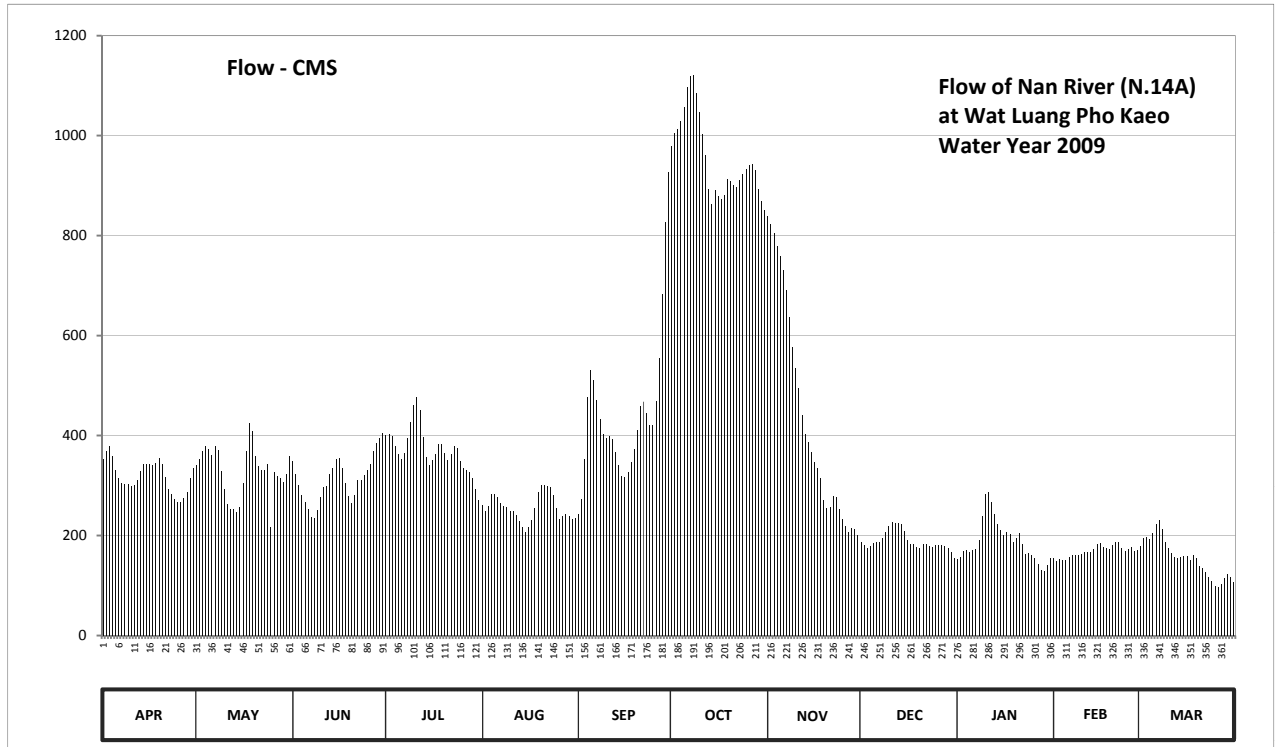
Lat 15 - 53 - 44 N Long 100 - 18 - 42 E

Location : on right bank in front of Wat Luang Pho Kaeo about 1 kilometer upstream from Station N.14

	Ban	Wat Luang Pho Kaeo	Amphoe	Chum Saeng	Changwat	Nakhon Sawan
Drainage Area	32,826	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank in front of automatic gage building.				Elevation	+32.155 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1971 to date					
Rating Operation						
Period of Rating	1973 - 1979, 1991 to date					
Rated by Flot	-					
Rated by Current Meter	1972 - 1980, 1991 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by Naresuan Dam Stage-discharge relation defined by 16 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.40	22.31	22.37	22.78	21.58	21.40	26.22	25.50	20.80	20.38	20.42	20.70	
2	22.53	22.41	22.16	22.80	21.45	21.70	26.35	25.41	20.73	20.44	20.33	20.87	
3	22.61	22.53	21.95	22.76	21.56	22.40	26.39	25.31	20.66	20.59	20.39	20.91	
4	22.46	22.62	21.78	22.62	21.79	23.34	26.47	25.16	20.70	20.62	20.35	20.86	
5	22.23	22.57	21.64	22.48	21.80	23.71	26.61	25.05	20.76	20.57	20.37	20.99	
6	22.08	22.47	21.50	22.40	21.74	23.57	26.81	24.90	20.80	20.62	20.44	21.19	
7	21.98	22.62	21.34	22.50	21.61	23.29	26.92	24.66	20.80	20.64	20.50	21.27	
8	21.97	22.55	21.33	22.74	21.57	23.02	26.93	24.35	20.88	20.83	20.50	21.07	
9	21.97	22.21	21.49	22.98	21.54	22.79	26.75	23.99	21.01	21.36	20.48	20.80	
10	21.94	21.88	21.73	23.22	21.47	22.74	26.56	23.73	21.15	21.80	20.52	20.66	
11	21.95	21.59	21.91	23.33	21.46	22.76	26.34	23.46	21.23	21.82	20.55	20.53	
12	22.04	21.50	21.94	23.15	21.37	22.72	26.13	23.07	21.21	21.65	20.56	20.43	
13	22.20	21.50	22.15	22.75	21.26	22.52	25.78	22.79	21.22	21.41	20.57	20.42	
14	22.32	21.44	22.26	22.44	21.13	22.31	25.62	22.68	21.19	21.19	20.64	20.44	
15	22.33	21.55	22.41	22.31	21.01	22.12	25.77	22.52	21.03	21.05	20.75	20.46	
16	22.32	21.99	22.43	22.39	21.12	22.09	25.71	22.35	20.84	20.95	20.77	20.46	
17	22.31	22.53	22.25	22.49	21.28	22.18	25.67	22.26	20.75	21.02	20.68	20.36	
18	22.34	22.96	21.99	22.64	21.52	22.35	25.72	22.08	20.74	20.96	20.65	20.50	
19	22.43	22.84	21.75	22.65	21.83	22.56	25.89	21.67	20.67	20.80	20.63	20.41	
20	22.32	22.45	21.61	22.50	21.95	22.86	25.86	21.52	20.65	20.87	20.72	20.22	
21	22.10	22.29	21.78	22.39	21.96	23.21	25.82	21.55	20.75	20.98	20.80	20.17	
22	21.89	22.23	22.05	22.49	21.93	23.27	25.80	21.75	20.75	20.74	20.78	20.06	
23	21.80	22.23	22.05	22.61	21.92	23.11	25.87	21.73	20.71	20.51	20.66	19.94	
24	21.70	22.32	22.14	22.58	21.77	22.93	25.94	21.50	20.67	20.53	20.59	19.82	
25	21.64	21.12	22.23	22.38	21.51	22.94	25.99	21.29	20.72	20.50	20.64	19.69	
26	21.65	22.18	22.33	22.25	21.30	23.28	26.03	21.14	20.72	20.42	20.67	19.66	
27	21.71	22.11	22.54	22.23	21.35	23.86	26.04	21.01	20.72	20.27	20.59	19.73	
28	21.82	22.08	22.66	22.18	21.40	24.62	25.98	21.09	20.71	20.12	20.61	19.92	
29	22.07	22.01	22.73	22.07	21.36	25.43	25.78	21.08	20.65	20.09		20.01	
30	22.25	22.15	22.81	21.88	21.30	25.96	25.65	20.94	20.57	20.23		19.93	
31		22.46		21.68	21.32		25.56		20.41	20.42		19.79	
Mean	22.11	22.18	22.04	22.54	21.52	23.03	26.10	22.85	20.81	20.79	20.58	20.40	
Max	22.61	22.96	22.81	23.33	21.96	25.96	26.93	25.50	21.23	21.82	20.80	21.27	26.93
Min	21.64	21.12	21.33	21.68	21.01	21.40	25.56	20.94	20.41	20.09	20.33	19.66	19.66
Annual Max Momentary Gage Height	26.96		m. (MSL.) ,			at 15.00 Hours , on Oct 8 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	14.08	m. (MSL)					
Left Bank Elevation	29.84		m. (MSL.) ,										
Right Bank Elevation	32.10		m. (MSL.) ,			Drainage Area	32826	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2001 to March 31, 2002

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	352.00	341.20	348.40	400.40	261.00	243.00	979.00	840.00	188.00	152.40	155.60	179.00		
2	367.90	353.20	323.60	403.00	248.00	273.00	1005.00	822.90	181.70	157.20	148.40	194.30		
3	378.30	367.90	300.50	397.80	259.00	352.00	1013.00	804.80	175.40	169.20	153.20	197.90		
4	359.20	379.60	281.80	379.60	282.90	477.60	1029.00	777.80	179.00	171.80	150.00	193.40		
5	331.60	373.10	267.00	361.60	284.00	531.60	1057.00	758.00	184.40	167.60	151.60	205.10		
6	314.80	360.40	253.00	352.00	277.40	510.50	1097.00	731.00	188.00	171.80	157.20	223.10		
7	303.80	379.60	237.00	364.00	264.00	470.60	1119.20	690.20	188.00	173.60	162.00	230.30		
8	302.70	370.50	236.00	395.20	260.00	432.80	1121.30	637.50	195.20	190.70	162.00	212.30		
9	302.70	329.20	252.00	427.20	257.00	401.70	1085.00	576.40	206.90	239.00	160.40	188.00		
10	299.40	292.80	276.30	460.80	250.00	395.20	1047.00	534.80	219.50	284.00	163.60	175.40		
11	300.50	262.00	296.10	476.20	249.00	397.80	1003.00	494.40	226.70	286.20	166.00	164.40		
12	310.40	253.00	299.40	451.00	240.00	392.60	961.00	439.80	224.90	268.00	166.80	156.40		
13	328.00	253.00	322.50	396.50	229.40	366.60	893.20	401.70	225.80	244.00	167.60	155.60		
14	342.40	247.00	335.20	356.80	217.70	341.20	862.80	387.40	223.10	223.10	173.60	157.20		
15	343.60	258.00	353.20	341.20	206.90	319.20	891.30	366.60	208.70	210.50	183.50	158.80		
16	342.40	304.90	355.60	350.80	216.80	315.90	879.90	346.00	191.60	201.50	185.30	158.80		
17	341.20	367.90	334.00	362.80	231.20	325.80	872.30	335.20	183.50	207.80	177.20	150.80		
18	344.80	424.40	304.90	382.20	255.00	346.00	881.80	314.80	182.60	202.40	174.50	162.00		
19	355.60	408.20	278.50	383.50	287.30	371.80	914.10	270.00	176.30	188.00	172.70	154.80		
20	342.40	358.00	264.00	364.00	300.50	410.80	908.40	255.00	174.50	194.30	180.80	139.60		
21	317.00	338.80	281.80	350.80	301.60	459.40	900.80	258.00	183.50	204.20	188.00	135.60		
22	293.90	331.60	311.50	362.80	298.30	467.80	897.00	278.50	183.50	182.60	186.20	126.80		
23	284.00	331.60	311.50	378.30	297.20	445.40	910.30	276.30	179.90	162.80	175.40	117.20		
24	273.00	342.40	321.40	374.40	280.70	420.20	923.60	253.00	176.30	164.40	169.20	108.40		
25	267.00	216.80	331.60	349.60	254.00	421.60	933.10	232.10	180.80	162.00	173.60	99.30		
26	268.00	325.80	343.60	334.00	233.00	469.20	941.00	218.60	180.80	155.60	176.30	97.20		
27	274.10	318.10	369.20	331.60	238.00	555.60	943.00	206.90	180.80	143.60	169.20	102.10		
28	286.20	314.80	384.80	325.80	243.00	683.40	931.20	214.10	179.90	131.60	170.90	115.60		
29	313.70	307.10	393.90	313.70	239.00	826.70	893.20	213.20	174.50	129.20		122.80		
30	334.00	322.50	404.30	292.80	233.00	927.40	868.50	200.60	167.60	140.40		116.40		
31	359.20		271.00	235.00		851.40		154.80	155.60			106.30		
Total	9574.60	10192.60	9372.60	11491.40	7929.90	13352.40	29613.40	13135.60	5866.20	5835.10	4720.80	4804.90	125889.50	CMSDAY
Mean	319.15	328.79	312.42	370.69	255.80	445.08	955.27	437.85	189.23	188.23	168.60	155.00	344.90	CMS
Max	378.30	424.40	404.30	476.20	301.60	927.40	1121.30	840.00	226.70	286.20	188.00	230.30	1121.30	CMS
Min	267.00	216.80	236.00	271.00	206.90	243.00	851.40	200.60	154.80	129.20	148.40	97.20	97.20	CMS
Runoff	827.25	880.64	809.79	992.86	685.14	1153.65	2558.60	1134.92	506.84	504.15	407.88	415.14	10876.85	MCM
Momentary Peak	1127.60 CMS. at 26.96 m. (MSL) at 15.00 Hours , on Oct 8 , 2009													
Runoff Yield	10.51 Liters/Second/Square KM.			Momentary Peak Yield				34,351 Liters/Second/Square KM.						

WATER YEAR : 2009**Nan RIVER BASIN****Khwae Noi at Ban Yang , Phitsanulok (N.22)**

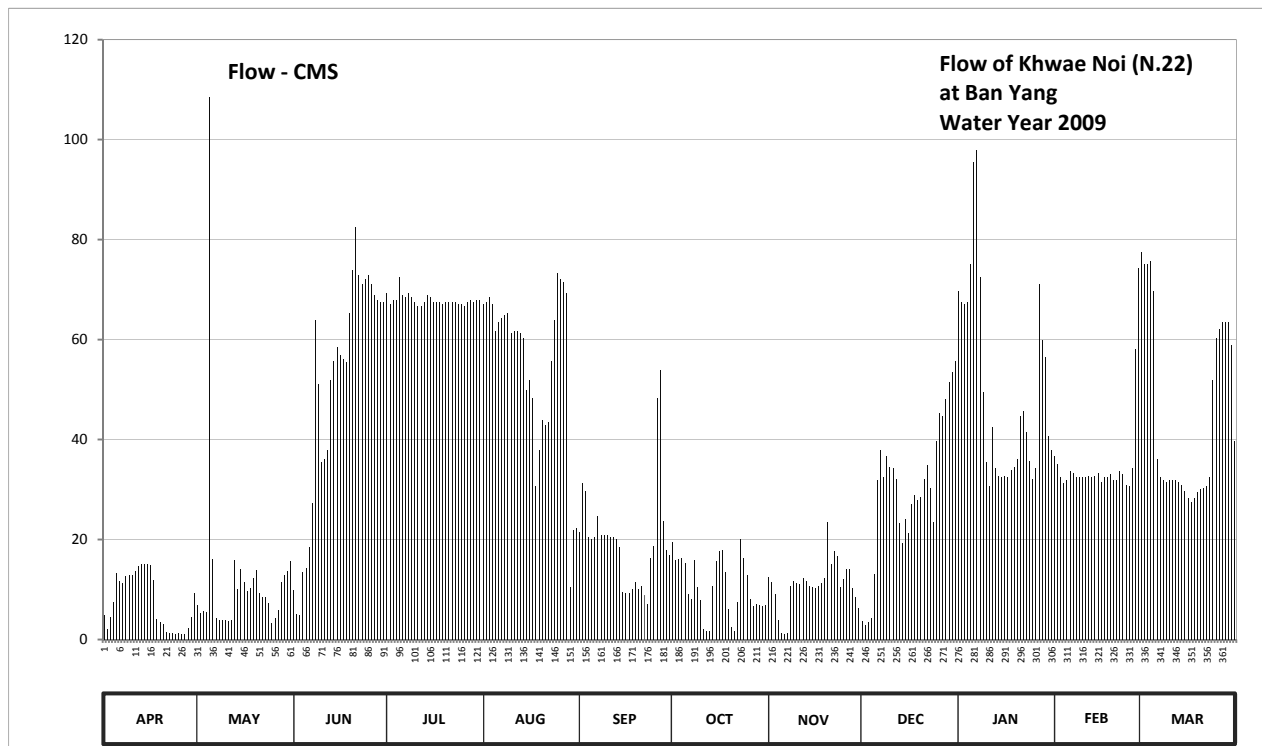
Lat 17 - 01 - 56 N Long 100 - 22 - 20 E

Location : on right bank about 1 kilometer downstream from District Forestry Office.

	Ban Yang	Amphoe Wat Bot	Changwat Phitsanulok
Drainage Area	4,764 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+42.676 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of the Meteorological Station.	Elevation	+51.975 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 means of 5 readings		
Period of Available Gage Records	1963 to date		
Rating Operation			
Period of Rating	1963 - 1974, 1996 to date		
Rated by Flot	-		
Rated by Current Meter	1963 - 1974, 1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.39	42.51	42.67	44.54	44.49	43.20	43.12	42.80	42.31	44.55	43.72	44.72	
2	42.15	42.42	42.41	44.49	44.50	43.54	42.97	42.75	42.24	44.50	43.67	44.67	
3	42.36	42.44	42.40	44.51	44.52	43.49	42.98	42.63	42.30	44.49	43.58	44.67	
4	42.54	42.43	42.85	44.51	44.49	43.16	42.99	42.32	42.35	44.50	43.54	44.68	
5	42.84	45.35	42.89	44.61	44.37	43.14	42.94	42.06	42.83	44.67	43.56	44.55	
6	42.76	42.98	43.08	44.53	44.41	43.16	42.63	42.01	43.56	45.09	43.62	43.70	
7	42.74	42.35	43.41	44.52	44.43	43.32	42.58	42.07	43.75	45.14	43.61	43.58	
8	42.81	42.32	44.42	44.54	44.44	43.18	42.97	42.71	43.58	44.61	43.58	43.56	
9	42.82	42.32	44.11	44.52	44.45	43.18	42.70	42.76	43.72	44.07	43.58	43.55	
10	42.82	42.32	43.68	44.50	44.36	43.18	42.56	42.74	43.65	43.68	43.58	43.56	
11	42.86	42.31	43.70	44.48	44.37	43.16	42.15	42.73	43.64	43.52	43.58	43.56	
12	42.91	42.32	43.75	44.48	44.37	43.16	42.12	42.79	43.57	43.88	43.59	43.56	
13	42.93	42.97	44.13	44.50	44.36	43.14	42.11	42.76	43.27	43.64	43.58	43.55	
14	42.93	42.68	44.23	44.53	44.34	43.08	42.71	42.71	43.11	43.59	43.59	43.53	
15	42.93	42.88	44.30	44.52	44.08	42.65	42.96	42.70	43.30	43.58	43.61	43.49	
16	42.92	42.75	44.26	44.50	44.13	42.64	43.05	42.69	43.19	43.59	43.55	43.44	
17	42.77	42.66	44.24	44.50	44.04	42.64	43.06	42.71	43.40	43.58	43.58	43.42	
18	42.34	42.69	44.22	44.50	43.52	42.68	42.85	42.74	43.46	43.63	43.58	43.44	
19	42.30	42.79	44.45	44.49	43.75	42.75	42.46	42.79	43.43	43.65	43.60	43.48	
20	42.26	42.87	44.64	44.50	43.92	42.68	42.21	43.28	43.45	43.70	43.56	43.50	
21	42.10	42.64	44.83	44.50	43.89	42.71	42.11	42.93	43.57	43.94	43.56	43.51	
22	42.07	42.60	44.62	44.50	43.91	42.62	42.54	43.05	43.66	43.97	43.62	43.52	
23	42.04	42.60	44.58	44.50	44.23	42.52	43.14	43.01	43.51	43.85	43.60	43.58	
24	42.03	42.53	44.60	44.49	44.42	42.99	42.99	42.70	43.28	43.69	43.53	44.13	
25	42.04	42.29	44.62	44.49	44.63	43.09	42.82	42.78	43.80	43.57	43.52	44.34	
26	42.03	42.35	44.58	44.48	44.60	44.04	42.57	42.88	43.96	43.64	43.64	44.38	
27	42.02	42.45	44.53	44.50	44.59	44.18	42.50	42.88	43.94	44.58	44.29	44.41	
28	42.17	42.75	44.51	44.51	44.54	43.29	42.52	42.69	44.03	44.33	44.65	44.41	
29	42.36	42.82	44.50	44.50	42.70	43.06	42.51	42.60	44.12	44.25		44.41	
30	42.64	42.86	44.50	44.51	43.22	43.02	42.50	42.47	44.17	43.83		44.31	
31		42.96		44.51	43.23		42.51		44.23	43.75		43.80	
Mean	42.50	42.68	43.99	44.51	44.17	43.09	42.67	42.69	43.43	44.03	43.65	43.90	
Max	42.93	45.35	44.83	44.61	44.63	44.18	43.14	43.28	44.23	45.14	44.65	44.72	45.35
Min	42.02	42.29	42.40	44.48	42.70	42.52	42.11	42.01	42.24	43.52	43.52	43.42	42.01
Annual Max Momentary Gage Height	46.67		m. (MSL.) ,				at 12.00 Hours , on May 5 , 2009						
Zero Gage at Bottom Elevation	42.67		m. (MSL.) ,			River Bed	40.50	m. (MSL)					
Left Bank Elevation		52.18		m. (MSL.) ,									
Right Bank Elevation		52.80		m. (MSL.) ,		Drainage Area	4764	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.85	6.92	9.90	69.30	67.05	21.50	19.50	12.50	3.65	69.75	36.72	77.40	
2	2.00	5.35	5.17	67.05	67.50	31.20	15.90	11.50	2.90	67.50	35.10	75.15	
3	4.40	5.70	5.00	67.95	68.40	29.70	16.10	9.10	3.50	67.05	32.40	75.15	
4	7.45	5.52	13.50	67.95	67.05	20.50	16.30	3.80	4.25	67.50	31.20	75.60	
5	13.30	108.50	14.30	72.45	61.65	20.00	15.30	1.30	13.10	75.15	31.80	69.75	
6	11.70	16.10	18.50	68.85	63.45	20.50	9.10	1.05	31.80	95.50	33.60	36.00	
7	11.30	4.25	27.30	68.40	64.35	24.60	8.15	1.35	37.80	98.00	33.30	32.40	
8	12.70	3.80	63.90	69.30	64.80	21.00	15.90	10.70	32.40	72.45	32.40	31.80	
9	12.90	3.80	51.09	68.40	65.25	21.00	10.50	11.70	36.72	49.53	32.40	31.50	
10	12.90	3.80	35.40	67.50	61.20	21.00	7.80	11.30	34.50	35.40	32.40	31.80	
11	13.70	3.65	36.00	66.60	61.65	20.50	2.00	11.10	34.20	30.60	32.40	31.80	
12	14.70	3.80	37.80	66.60	61.65	20.50	1.70	12.30	32.10	42.48	32.70	31.80	
13	15.10	15.90	51.87	67.50	61.20	20.00	1.60	11.70	23.25	34.20	32.40	31.50	
14	15.10	10.10	55.77	68.85	60.30	18.50	10.70	10.70	19.25	32.70	32.70	30.90	
15	15.10	14.10	58.50	68.40	49.92	9.50	15.70	10.50	24.00	32.40	33.30	29.70	
16	14.90	11.50	56.94	67.50	51.87	9.30	17.75	10.30	21.25	32.70	31.50	28.20	
17	11.90	9.70	56.16	67.50	48.36	9.30	18.00	10.70	27.00	32.40	32.40	27.60	
18	4.10	10.30	55.38	67.50	30.60	10.10	13.50	11.30	28.80	33.90	32.40	28.20	
19	3.50	12.30	65.25	67.05	37.80	11.50	6.05	12.30	27.90	34.50	33.00	29.40	
20	3.10	13.90	73.80	67.50	43.92	10.10	2.60	23.50	28.50	36.00	31.80	30.00	
21	1.50	9.30	82.50	67.50	42.84	10.70	1.60	15.10	32.10	44.64	31.80	30.30	
22	1.35	8.50	72.90	67.50	43.56	8.90	7.45	17.75	34.80	45.72	33.60	30.60	
23	1.20	8.50	71.10	67.50	55.77	7.10	20.00	16.75	30.30	41.40	33.00	32.40	
24	1.15	7.27	72.00	67.05	63.90	16.30	16.30	10.50	23.50	35.70	30.90	51.87	
25	1.20	3.40	72.90	67.05	73.35	18.75	12.90	12.10	39.60	32.10	30.60	60.30	
26	1.15	4.25	71.10	66.60	72.00	48.36	7.98	14.10	45.36	34.20	34.20	62.10	
27	1.10	5.88	68.85	67.50	71.55	53.82	6.75	14.10	44.64	71.10	58.11	63.45	
28	2.20	11.50	67.95	67.95	69.30	23.75	7.10	10.30	47.97	59.85	74.25	63.45	
29	4.40	12.90	67.50	67.50	10.50	18.00	6.92	8.50	51.48	56.55		63.45	
30	9.30	13.70	67.50	67.95	22.00	17.00	6.75	6.23	53.43	40.68		58.95	
31		15.70		67.95	22.25		6.92		55.77	37.80		39.60	
Total	229.25	369.89	1505.83	2104.20	1704.99	592.98	324.82	324.13	925.82	1539.45	982.38	1392.12	11995.86 CMSDAY
Mean	7.64	11.93	50.19	67.88	55.00	19.77	10.48	10.80	29.87	49.66	35.08	44.91	32.87 CMS
Max	15.10	108.50	82.50	72.45	73.35	53.82	20.00	23.50	55.77	98.00	74.25	77.40	108.50 CMS
Min	1.10	3.40	5.00	66.60	10.50	7.10	1.60	1.05	2.90	30.60	30.60	27.60	1.05 CMS
Runoff	19.81	31.96	130.10	181.80	147.31	51.23	28.06	28.01	79.99	133.01	84.88	120.28	1036.44 MCM
Momentary Peak	182.20 CMS. at 46.67 m. (MSL) at 12.00 Hours , on May 5 , 2009												
Runoff Yield	6.90 Liters/Second/Square KM.			Momentary Peak Yield			38.245 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Khwaeng Noi at Ban Yang , Phitsanulok (N.22A)

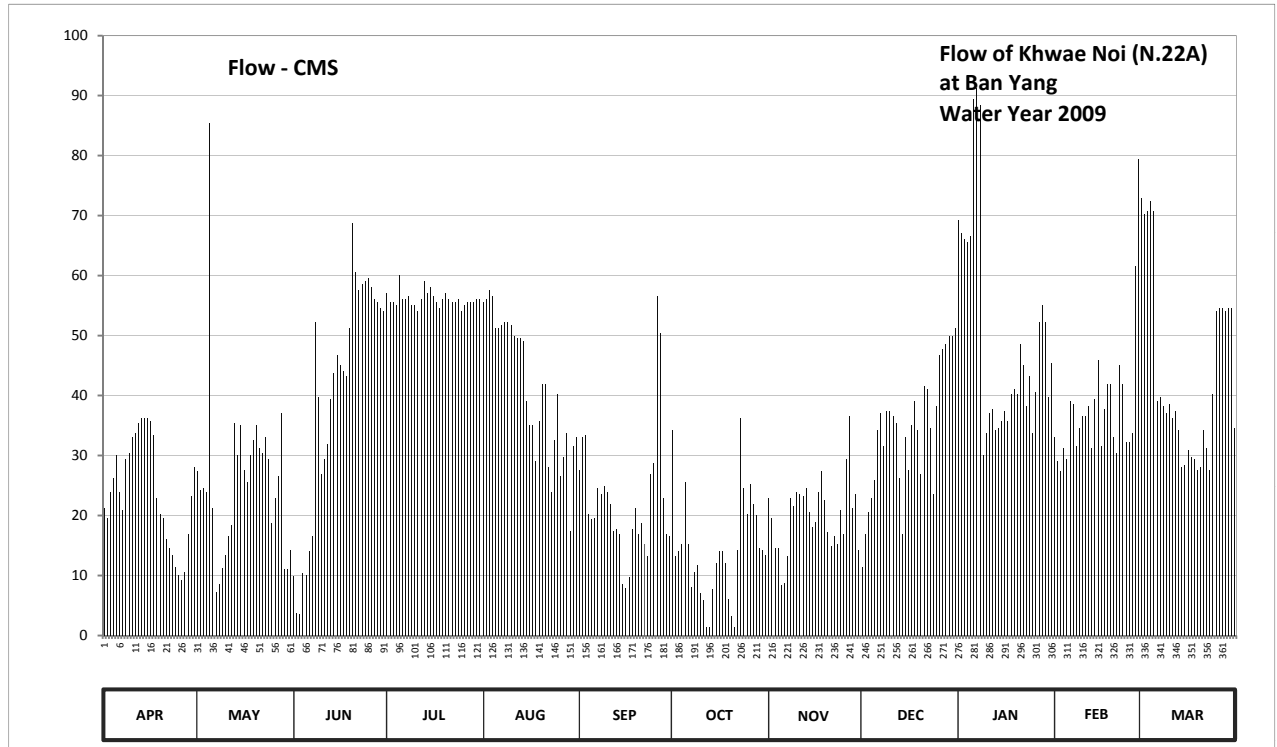
Lat 16 - 59 - 33 N Long 100 - 19 - 31 E

Location : on left bank at Ban Yang.

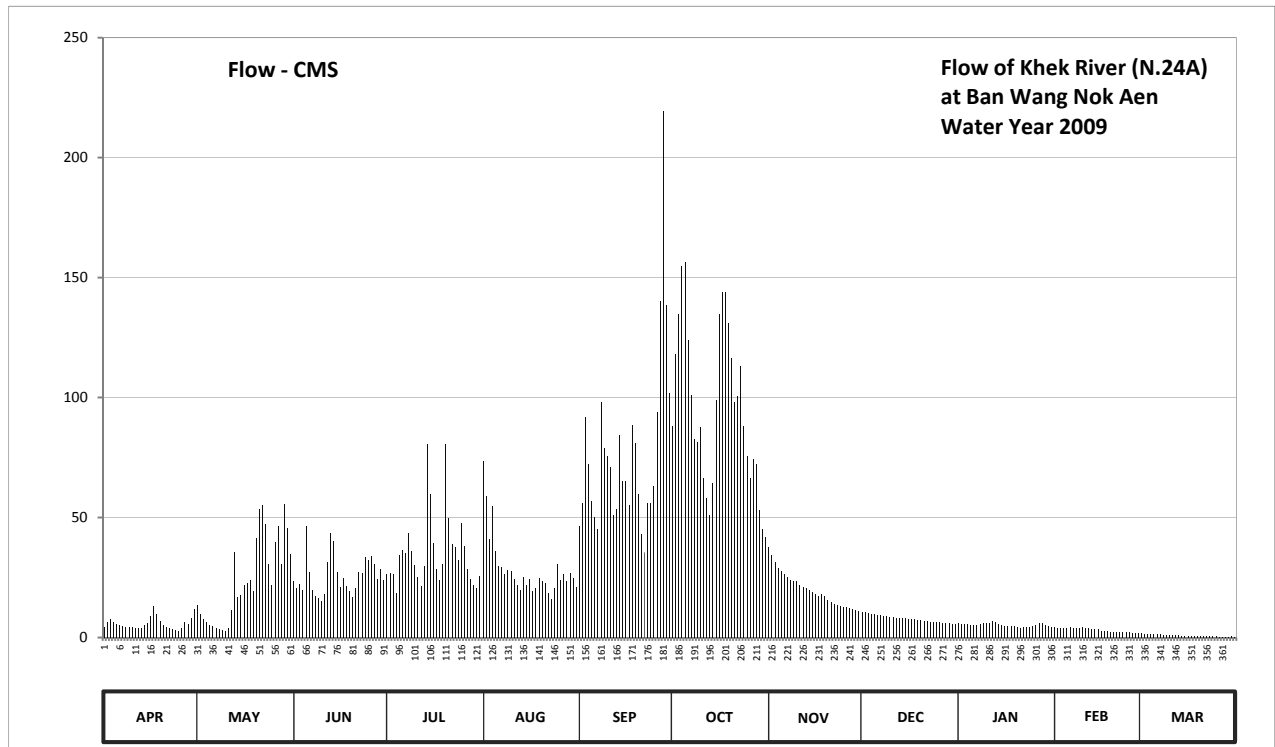
	Ban Yang	Amphoe Wat Bot	Changwat Phitsanulok
Drainage Area	4,774 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+41.630 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+52.936 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.27	42.45	41.85	43.16	43.13	42.46	42.64	42.32	41.92	43.40	42.61	43.47	
2	42.22	42.36	41.49	43.13	43.14	42.61	41.99	42.22	42.13	43.36	42.50	43.42	
3	42.35	42.37	41.48	43.13	43.17	42.62	42.02	42.04	42.25	43.34	42.45	43.43	
4	42.42	42.35	41.87	43.12	43.15	42.24	42.07	42.04	42.32	43.33	42.56	43.46	
5	42.53	43.70	41.86	43.22	43.04	42.21	42.40	41.78	42.41	43.35	42.51	43.43	
6	42.35	42.27	42.02	43.14	43.04	42.22	42.07	41.80	42.64	43.77	42.76	42.76	
7	42.26	41.71	42.12	43.14	43.05	42.37	41.76	41.99	42.71	43.80	42.75	42.78	
8	42.51	41.79	43.06	43.15	43.06	42.34	41.88	42.32	42.57	43.75	42.57	42.74	
9	42.54	41.91	42.78	43.12	43.06	42.38	41.93	42.28	42.72	42.53	42.65	42.71	
10	42.61	42.00	42.44	43.12	43.05	42.35	41.70	42.35	42.72	42.63	42.70	42.75	
11	42.63	42.12	42.51	43.10	43.01	42.29	41.64	42.34	42.70	42.71	42.70	42.69	
12	42.67	42.18	42.58	43.14	43.00	42.15	41.26	42.33	42.67	42.73	42.74	42.72	
13	42.69	42.67	42.77	43.20	43.00	42.16	41.25	42.37	42.42	42.64	42.56	42.64	
14	42.69	42.53	42.87	43.16	42.99	42.13	41.74	42.25	42.13	42.65	42.77	42.47	
15	42.69	42.66	42.94	43.18	42.76	41.79	41.94	42.17	42.61	42.68	42.92	42.48	
16	42.68	42.46	42.90	43.15	42.66	41.75	42.02	42.20	42.46	42.72	42.57	42.55	
17	42.62	42.40	42.88	43.13	42.66	41.84	42.02	42.35	42.66	42.68	42.73	42.52	
18	42.32	42.53	42.86	43.11	42.50	42.16	41.94	42.45	42.76	42.79	42.83	42.51	
19	42.24	42.60	43.04	43.14	42.68	42.27	41.65	42.31	42.64	42.81	42.83	42.46	
20	42.22	42.66	43.39	43.16	42.83	42.13	41.45	42.14	42.44	42.79	42.61	42.47	
21	42.10	42.56	43.23	43.14	42.83	42.19	41.26	42.06	42.82	42.98	42.54	42.64	
22	42.04	42.54	43.17	43.13	42.47	42.07	42.03	42.12	42.81	42.90	42.90	42.56	
23	42.00	42.61	43.19	43.13	42.35	41.99	42.69	42.07	42.65	42.74	42.83	42.46	
24	41.92	42.51	43.20	43.14	42.60	42.44	42.37	42.26	42.34	42.86	42.59	42.79	
25	41.86	42.19	43.21	43.10	42.79	42.49	42.24	42.13	42.74	42.63	42.59	43.10	
26	41.82	42.32	43.18	43.12	42.43	43.15	42.39	42.51	42.94	42.80	42.63	43.11	
27	41.88	42.43	43.14	43.13	42.52	43.02	42.29	42.70	42.96	43.06	43.25	43.11	
28	42.13	42.71	43.13	43.13	42.63	42.32	42.23	42.27	42.98	43.12	43.59	43.10	
29	42.33	41.90	43.11	43.13	42.15	42.13	42.04	42.34	43.01	43.06		43.11	
30	42.47	41.90	43.10	43.14	42.57	42.12	42.03	42.03	43.01	42.78		43.11	
31	42.03		43.14	42.61		42.00		43.04	42.91		42.65		
Mean	42.34	42.37	42.71	43.14	42.80	42.28	41.97	42.22	42.62	42.98	42.72	42.85	
Max	42.69	43.70	43.39	43.22	43.17	43.15	42.69	42.70	43.04	43.80	43.59	43.47	43.80
Min	41.82	41.71	41.48	43.10	42.15	41.75	41.25	41.78	41.92	42.53	42.45	42.46	41.25
Annual Max Momentary Gage Height	44.27		m. (MSL.) ,				at 12.00 Hours , on May 5 , 2009						
Zero Gage at Bottom Elevation	41.63		m. (MSL.) ,			River Bed	38.78	m. (MSL)					
Left Bank Elevation	51.54		m. (MSL.) ,										
Right Bank Elevation	51.63		m. (MSL.) ,			Drainage Area	4774	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.31	27.30	9.90	57.00	55.50	27.64	34.20	22.96	11.50	69.20	33.00	72.91	
2	19.66	24.28	3.77	55.50	56.00	33.00	13.25	19.66	16.90	67.12	29.00	70.26	
3	23.95	24.61	3.64	55.50	57.50	33.40	14.00	14.50	20.65	66.08	27.30	70.79	
4	26.28	23.95	10.34	55.00	56.50	20.32	15.25	14.50	22.96	65.56	31.16	72.38	
5	30.08	85.50	10.12	60.00	51.30	19.33	25.60	8.44	25.94	66.60	29.36	70.79	
6	23.95	21.31	14.00	56.00	51.30	19.66	15.25	8.80	34.20	89.49	39.00	39.00	
7	20.98	7.18	16.60	56.00	51.75	24.61	8.08	13.25	37.00	91.20	38.60	39.80	
8	29.36	8.62	52.20	56.50	52.20	23.62	10.56	22.96	31.52	88.35	31.52	38.20	
9	30.44	11.25	39.80	55.00	52.20	24.94	11.75	21.64	37.40	30.08	34.60	37.00	
10	33.00	13.50	26.96	55.00	51.75	23.95	7.00	23.95	37.40	33.80	36.60	38.60	
11	33.80	16.60	29.36	54.00	49.95	21.97	5.92	23.62	36.60	37.00	36.60	36.20	
12	35.40	18.40	31.88	56.00	49.50	17.50	1.48	23.29	35.40	37.80	38.20	37.40	
13	36.20	35.40	39.40	59.00	49.50	17.80	1.40	24.61	26.28	34.20	31.16	34.20	
14	36.20	30.08	43.68	57.00	49.05	16.90	7.72	20.65	16.90	34.60	39.40	27.98	
15	36.20	35.00	46.80	58.00	39.00	8.62	12.00	18.10	33.00	35.80	45.90	28.32	
16	35.80	27.64	45.00	56.50	35.00	7.90	14.00	19.00	27.64	37.40	31.52	30.80	
17	33.40	25.60	44.12	55.50	35.00	9.68	14.00	23.95	35.00	35.80	37.80	29.72	
18	22.96	30.08	43.24	54.50	29.00	17.80	12.00	27.30	39.00	40.20	41.92	29.36	
19	20.32	32.60	51.30	56.00	35.80	21.31	6.10	22.63	34.20	41.04	41.92	27.64	
20	19.66	35.00	68.68	57.00	41.92	16.90	3.25	17.20	26.96	40.20	33.00	27.98	
21	16.00	31.16	60.50	56.00	41.92	18.70	1.48	15.00	41.48	48.60	30.44	34.20	
22	14.50	30.44	57.50	55.50	27.98	15.25	14.25	16.60	41.04	45.00	45.00	31.16	
23	13.50	33.00	58.50	55.50	23.95	13.25	36.20	15.25	34.60	38.20	41.92	27.64	
24	11.50	29.36	59.00	56.00	32.60	26.96	24.61	20.98	23.62	43.24	32.24	40.20	
25	10.12	18.70	59.50	54.00	40.20	28.66	20.32	16.90	38.20	33.80	32.24	54.00	
26	9.24	22.96	58.00	55.00	26.62	56.50	25.27	29.36	46.80	40.60	33.80	54.50	
27	10.56	26.62	56.00	55.50	29.72	50.40	21.97	36.60	47.70	52.20	61.50	54.50	
28	16.90	37.00	55.50	55.50	33.80	22.96	19.99	21.31	48.60	55.00	79.45	54.00	
29	23.29	11.00	54.50	55.50	17.50	16.90	14.50	23.62	49.95	52.20		54.50	
30	27.98	11.00	54.00	56.00	31.52	16.60	14.25	14.25	49.95	39.80		54.50	
31		14.25		56.00	33.00		13.50		51.30	45.45		34.60	
Total	722.54	799.39	1203.79	1735.50	1288.53	673.03	439.15	600.88	1059.69	1535.61	1064.15	1353.13	12475.39 CMSDAY
Mean	24.08	25.79	40.13	55.98	41.57	22.43	14.17	20.03	34.18	49.54	38.01	43.65	34.18 CMS
Max	36.20	85.50	68.68	60.00	57.50	56.50	36.20	36.60	51.30	91.20	79.45	72.91	91.20 CMS
Min	9.24	7.18	3.64	54.00	17.50	7.90	1.40	8.44	11.50	30.08	27.30	27.64	1.40 CMS
Runoff	62.43	69.07	104.01	149.95	111.33	58.15	37.94	51.92	91.56	132.68	91.94	116.91	1077.87 MCM
Momentary Peak	120.08 CMS. at 44.27 m. (MSL.) at 12.00 Hours , on May 5 , 2009												
Runoff Yield	7.16 Liters/Second/Square KM.			Momentary Peak Yield				25.153 Liters/Second/Square KM.					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.20	13.42	23.30	26.36	73.59	46.32	87.95	37.58	10.82	6.00	4.20	1.80	
2	6.60	9.91	20.45	26.70	59.09	55.94	118.24	34.40	10.43	5.76	3.98	1.60	
3	7.56	7.56	22.40	26.53	41.00	91.70	134.60	31.46	10.04	5.52	3.87	1.60	
4	6.48	6.36	19.85	18.50	54.89	72.21	154.58	28.91	9.91	5.52	3.76	1.50	
5	5.64	5.04	46.32	34.22	36.06	56.99	156.48	27.72	9.65	5.40	3.76	1.50	
6	5.16	4.56	27.21	36.25	29.93	50.27	123.76	26.53	9.52	5.28	4.20	1.40	
7	4.92	3.98	19.85	35.12	29.42	44.99	100.95	25.00	9.39	5.40	3.98	1.30	
8	4.32	3.54	17.30	43.66	26.53	97.95	82.64	24.15	9.00	5.76	3.98	1.20	
9	4.32	3.10	16.55	35.87	28.23	78.80	81.44	23.30	8.88	5.88	3.87	1.20	
10	4.32	2.88	15.10	30.10	27.72	75.44	87.70	23.30	8.64	5.88	4.20	1.10	
11	3.98	3.76	17.90	25.00	24.49	70.83	66.23	21.80	8.52	6.00	3.87	1.10	
12	4.09	11.34	31.29	21.35	21.65	51.11	58.25	21.20	8.16	6.72	3.76	1.00	
13	3.98	35.49	43.47	29.59	19.85	53.42	50.90	20.60	8.16	6.48	3.65	0.90	
14	5.16	16.85	40.43	80.48	25.34	84.32	64.39	19.85	8.04	5.76	3.43	0.80	
15	6.00	17.75	27.38	59.96	21.95	65.31	98.70	18.80	8.04	5.28	3.32	0.80	
16	8.76	21.65	21.20	39.29	24.32	65.08	134.90	18.05	7.80	4.80	2.88	0.70	
17	13.14	22.70	24.66	28.57	19.40	55.31	143.79	17.30	7.68	4.68	2.66	0.70	
18	9.65	23.81	21.50	24.15	20.75	88.45	143.79	17.90	7.56	4.68	2.55	0.60	
19	6.84	19.55	19.25	30.61	24.66	80.96	131.00	17.15	7.44	4.56	2.44	0.60	
20	5.16	41.38	17.00	80.48	23.30	59.74	116.35	15.66	7.32	4.32	2.44	0.60	
21	4.44	53.63	20.60	49.64	22.70	43.28	98.20	14.82	7.08	3.98	2.33	0.60	
22	3.87	55.31	27.21	38.91	18.50	35.49	100.45	14.12	6.72	4.20	2.22	0.50	
23	3.43	47.33	26.70	37.77	16.10	56.15	112.92	13.56	6.60	4.20	2.22	0.50	
24	3.10	30.44	33.50	32.48	20.45	56.15	88.20	13.14	6.48	4.32	2.11	0.50	
25	2.77	21.65	32.31	47.54	30.44	63.04	75.44	12.86	6.48	4.80	2.11	0.50	
26	3.98	39.86	33.86	38.15	24.15	93.95	66.46	12.58	6.36	5.28	2.00	0.40	
27	6.24	46.32	30.61	28.57	26.53	140.07	74.51	12.30	6.12	6.00	1.90	0.40	
28	5.76	30.61	24.32	24.49	23.30	219.25	72.21	11.88	6.00	5.88	1.80	0.40	
29	8.28	55.73	28.57	21.95	27.04	138.52	53.21	11.60	5.88	5.40		0.40	
30	11.88	45.56	23.98	20.75	24.83	101.95	45.18	11.21	5.76	4.80		0.50	
31		34.58		25.51	20.90		41.95		5.76	4.44		0.40	
Total	174.03	735.65	774.07	1098.55	887.11	2292.99	2965.37	598.73	244.24	162.98	87.49	27.10	10048.31 CMSDAY
Mean	5.80	23.73	25.80	35.44	28.62	76.43	95.66	19.96	7.88	5.26	3.12	0.87	27.53 CMS
Max	13.14	55.73	46.32	80.48	73.59	219.25	156.48	37.58	10.82	6.72	4.20	1.80	219.25 CMS
Min	2.77	2.88	15.10	18.50	16.10	35.49	41.95	11.21	5.76	3.98	1.80	0.40	0.40 CMS
Runoff	15.04	63.56	66.88	94.92	76.65	198.11	256.21	51.73	21.10	14.08	7.56	2.34	868.17 MCM
Momentary Peak	237.64 CMS. at 50.52 m. (MSL.) at 06.00 Hours , on Sep 28 , 2009												
Runoff Yield	14.98 Liters/Second/Square KM.			Momentary Peak Yield			129.293 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Ban Nong Kham , Phitsanulok (N.27A)

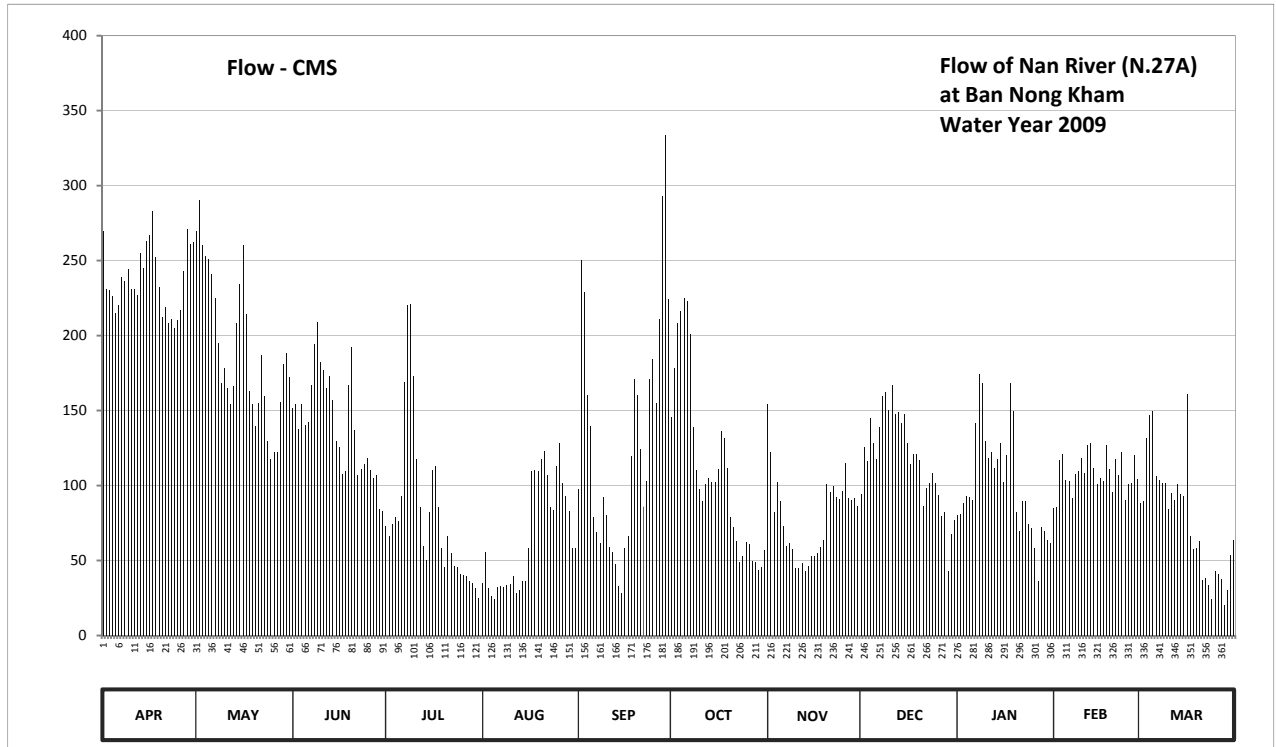
Lat 17 - 01 - 46 N Long 100 - 11 - 00 E

Location : on right bank about 1.8 kilometers downstream from Phrom Phiram Dam.

	Ban Nong Kham	Amphoe Phrom Phiram	Changwat Phitsanulok
Drainage Area	19,363 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+38.430 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 10 meters from the top staff gage.	Elevation	+48.572 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow regulated by Naresuan Dam about 2 kilometers above gage site. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.47	41.47	40.27	39.29	38.69	39.64	40.21	40.30	39.59	39.39	39.46	39.51	
2	41.08	41.66	40.30	39.19	39.04	41.27	40.55	39.94	39.98	39.40	39.47	39.52	
3	41.07	41.37	40.12	39.30	38.63	41.06	40.85	39.42	39.87	39.51	39.88	40.05	
4	41.03	41.30	40.30	39.37	38.53	40.37	40.93	39.70	40.20	39.57	39.93	40.22	
5	40.92	41.28	40.15	39.33	38.49	40.14	41.02	39.52	40.01	39.56	39.72	40.25	
6	40.97	41.18	40.17	39.57	38.64	39.37	41.00	39.29	39.89	39.53	39.71	39.75	
7	41.16	41.02	40.44	40.46	38.65	39.23	40.78	39.10	40.13	40.16	39.55	39.72	
8	41.13	40.72	40.71	40.97	38.64	39.12	40.13	39.12	40.36	40.51	39.77	39.69	
9	41.21	40.45	40.86	40.98	38.67	39.56	39.80	39.07	40.39	40.45	39.79	39.69	
10	41.08	40.55	40.59	40.50	38.68	39.39	39.64	38.87	40.26	40.03	39.90	39.45	
11	41.08	40.42	40.54	39.89	38.77	39.09	39.52	38.87	40.44	39.90	39.78	39.60	
12	41.04	40.30	40.42	39.47	38.57	39.04	39.68	38.93	40.23	39.94	40.00	39.53	
13	41.32	40.43	40.50	39.10	38.61	38.92	39.74	38.84	40.24	39.82	40.01	39.68	
14	41.22	40.85	40.33	38.96	38.71	38.66	39.70	38.90	40.16	39.89	39.82	39.59	
15	41.40	41.11	40.03	39.42	38.71	38.56	39.70	39.00	40.23	40.01	39.68	39.57	
16	41.44	41.37	39.98	39.80	39.08	39.08	39.81	39.00	40.01	39.70	39.74	40.38	
17	41.59	40.91	39.77	39.83	39.79	39.19	40.10	39.03	39.85	39.92	39.71	39.19	
18	41.29	40.40	39.79	39.47	39.80	39.91	40.05	39.09	39.93	40.45	40.00	39.07	
19	41.09	40.30	40.44	39.08	39.79	40.48	39.82	39.15	39.93	40.25	39.81	39.08	
20	40.89	40.14	40.69	38.89	39.89	40.37	39.37	39.68	39.88	39.42	39.61	39.14	
21	40.96	40.31	40.11	39.19	39.95	39.97	39.28	39.61	39.48	39.24	39.89	38.73	
22	40.85	40.64	39.76	39.03	39.76	39.47	39.14	39.67	39.65	39.52	39.76	38.75	
23	40.88	40.36	39.81	38.90	39.47	39.71	38.94	39.56	39.69	39.52	39.94	38.67	
24	40.82	40.03	39.85	38.88	39.44	40.48	39.00	39.54	39.78	39.30	39.53	38.49	
25	40.87	39.89	39.90	38.80	39.83	40.61	39.13	39.62	39.69	39.27	39.68	38.83	
26	40.94	39.94	39.80	38.79	40.01	40.31	39.11	39.86	39.58	39.08	39.69	38.80	
27	41.20	39.94	39.74	38.77	39.69	40.88	38.95	39.55	39.38	38.71	39.92	38.74	
28	41.48	40.32	39.76	38.72	39.57	41.68	38.94	39.53	39.42	39.28	39.73	38.40	
29	41.38	40.58	39.45	38.69	39.43	42.05	38.85	39.55	38.83	39.24		38.61	
30	41.39	40.65	39.43	38.63	39.08	41.01	38.88	39.48	39.21	39.15		39.01	
31		40.49		38.50	39.08		39.06		39.34	39.12		39.15	
Mean	41.14	40.66	40.13	39.35	39.15	39.95	39.73	39.36	39.86	39.64	39.77	39.32	
Max	41.59	41.66	40.86	40.98	40.01	42.05	41.02	40.30	40.44	40.51	40.01	40.38	42.05
Min	40.82	39.89	39.43	38.50	38.49	38.56	38.85	38.84	38.83	38.71	39.46	38.40	38.40
Annual Max Momentary Gage Height		42.13		m. (MSL.) ,			at 09.00 Hours , on Sep 29 , 2009						
Zero Gage at Bottom Elevation		38.43		m. (MSL.) ,		River Bed	36.72		m. (MSL)				
Left Bank Elevation			47.71		m. (MSL.) ,								
Right Bank Elevation		48.51		m. (MSL.) ,		Drainage Area	19363		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	270.00	270.00	151.30	73.30	34.95	97.80	145.90	154.00	94.30	80.30	85.20	88.70	
2	231.00	290.60	154.00	66.30	55.80	250.00	178.00	121.90	125.30	81.00	85.90	89.40	
3	230.00	260.00	137.80	74.00	31.65	229.00	208.00	82.40	115.95	88.70	116.80	131.50	
4	226.00	253.00	154.00	78.90	26.50	160.30	216.00	102.00	145.00	92.90	121.05	146.80	
5	215.00	251.00	140.50	76.10	24.50	139.60	225.00	89.40	127.90	92.20	103.60	149.50	
6	220.00	241.00	142.30	92.90	32.20	78.90	223.00	73.30	117.65	90.10	102.80	106.00	
7	239.00	225.00	167.00	169.00	32.75	69.10	201.00	60.00	138.70	141.40	91.50	103.60	
8	236.00	195.00	194.00	220.00	32.20	61.40	138.70	61.40	159.40	174.00	107.60	101.30	
9	244.00	168.00	209.00	221.00	33.85	92.20	110.00	57.90	162.10	168.00	109.20	101.30	
10	231.00	178.00	182.00	173.00	34.40	80.30	97.80	44.85	150.40	129.70	118.50	84.50	
11	231.00	165.00	177.00	117.65	39.35	59.30	89.40	44.85	167.00	118.50	108.40	95.00	
12	227.00	154.00	165.00	85.90	28.50	55.80	100.60	48.45	147.70	121.90	127.00	90.10	
13	255.00	166.00	173.00	60.00	30.55	47.80	105.20	43.20	148.60	111.70	127.90	100.60	
14	245.00	208.00	156.70	50.40	36.05	33.30	102.00	46.50	141.40	117.65	111.70	94.30	
15	263.00	234.00	129.70	82.40	36.05	28.00	102.00	53.00	147.70	127.90	100.60	92.90	
16	267.00	260.00	125.30	110.00	58.60	58.60	110.85	53.00	127.90	102.00	105.20	161.20	
17	282.90	214.00	107.60	112.55	109.20	66.30	136.00	55.10	114.25	120.20	102.80	66.30	
18	252.00	163.00	109.20	85.90	110.00	119.35	131.50	59.30	121.05	168.00	127.00	57.90	
19	232.00	154.00	167.00	58.60	109.20	171.00	111.70	63.50	121.05	149.50	110.85	58.60	
20	212.00	139.60	192.00	45.95	117.65	160.30	78.90	100.60	116.80	82.40	95.70	62.80	
21	219.00	154.90	136.90	66.30	122.75	124.45	72.60	95.70	86.60	69.80	117.65	37.15	
22	208.00	187.00	106.80	55.10	106.80	85.90	62.80	99.90	98.50	89.40	106.80	38.25	
23	211.00	159.40	110.85	46.50	85.90	102.80	49.10	92.20	101.30	89.40	121.90	33.85	
24	205.00	129.70	114.25	45.40	83.80	171.00	53.00	90.80	108.40	74.00	90.10	24.50	
25	210.00	117.65	118.50	41.00	112.55	184.00	62.10	96.40	101.30	71.90	100.60	42.65	
26	217.00	121.90	110.00	40.45	127.90	154.90	60.70	115.10	93.60	58.60	101.30	41.00	
27	243.00	121.90	105.20	39.35	101.30	211.00	49.75	91.50	79.60	36.05	120.20	37.70	
28	271.00	155.80	106.80	36.60	92.90	292.80	49.10	90.10	82.40	72.60	104.40	20.00	
29	261.00	181.00	84.50	34.95	83.10	333.50	43.75	91.50	42.65	69.80		30.55	
30	262.00	188.00	83.10	31.65	58.60	224.00	45.40	86.60	67.70	63.50		53.70	
31		172.00		25.00	58.60		57.20		76.80	61.40		63.50	
Total	7115.90	5878.45	4211.30	2516.15	2048.15	3942.70	3417.05	2364.45	3629.00	3114.50	3022.25	2405.15	43665.05 CMSDAY
Mean	237.20	189.63	140.38	81.17	66.07	131.42	110.23	78.82	117.06	100.47	107.94	77.59	119.63 CMS
Max	282.90	290.60	209.00	221.00	127.90	333.50	225.00	154.00	167.00	174.00	127.90	161.20	333.50 CMS
Min	205.00	117.65	83.10	25.00	24.50	28.00	43.75	43.20	42.65	36.05	85.20	20.00	20.00 CMS
Runoff	614.81	507.90	363.86	217.40	176.96	340.65	295.23	204.29	313.55	269.09	261.12	207.81	3772.66 MCM
Momentary Peak	342.30 CMS. at 42.13 m. (MSL) at 09.00 Hours , on Sep 29 , 2009												
Runoff Yield	6.18 Liters/Second/Square KM.			Momentary Peak Yield				17.678 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Ban Na Klam , Uttaradit (N.28A)

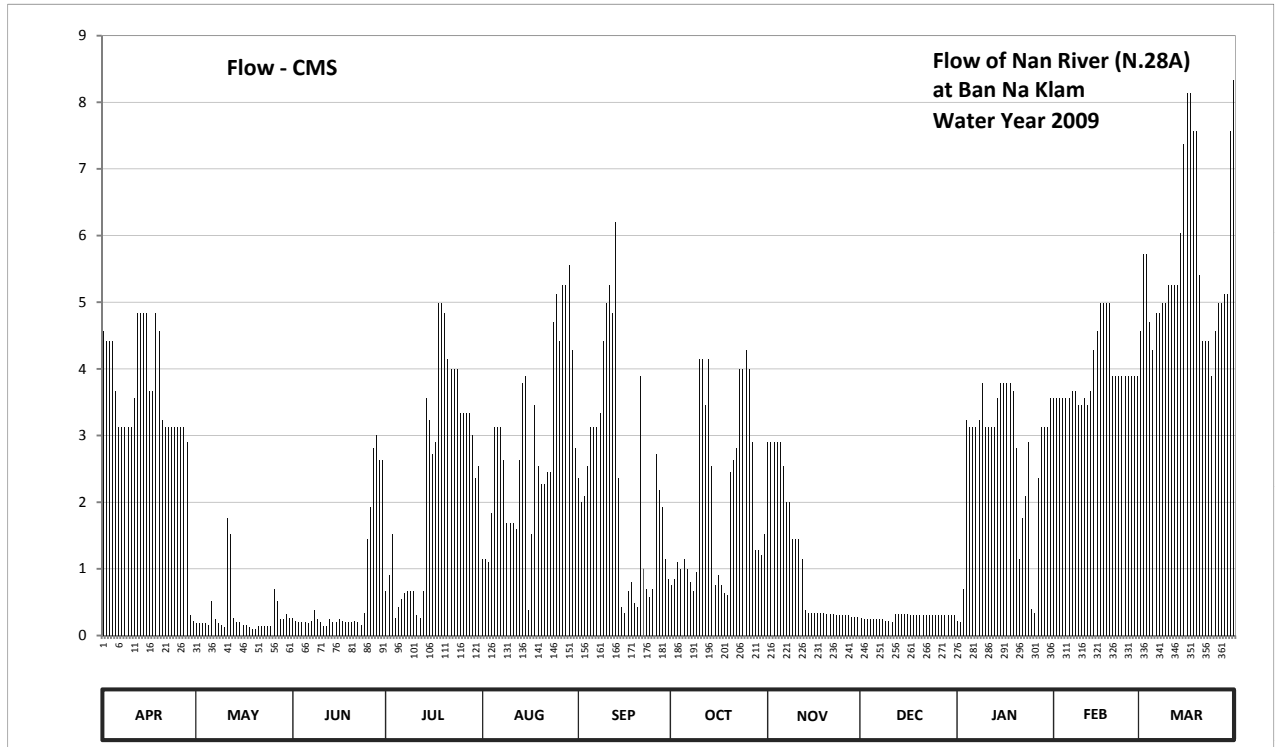
Lat 17 - 35 - 00 N Long 100 - 29 - 30 E

Location : on right bank at Ban Na Klam.

	Ban	Na Klam	Amphoe	Nam Pat	Changwat	Uttaradit
Drainage Area	368	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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.14	121.49	121.53	121.69	121.79	121.94	121.71	122.00	121.53	121.51	122.06	122.14	
2	122.13	121.49	121.51	121.74	121.79	121.90	121.73	122.00	121.52	121.50	122.06	122.22	
3	122.13	121.49	121.50	121.84	121.78	121.91	121.78	122.00	121.52	121.70	122.06	122.22	
4	122.13	121.49	121.50	121.53	121.88	121.96	121.76	122.00	121.52	122.03	122.06	122.15	
5	122.07	121.48	121.50	121.61	122.02	122.02	121.79	122.00	121.52	122.02	122.06	122.12	
6	122.02	121.64	121.49	121.65	122.02	122.02	121.76	121.96	121.52	122.02	122.06	122.16	
7	122.02	121.52	121.51	121.68	122.02	122.02	121.72	121.90	121.52	122.02	122.07	122.16	
8	122.02	121.49	121.59	121.69	121.97	122.04	121.69	121.90	121.52	122.03	122.07	122.17	
9	122.02	121.48	121.52	121.69	121.86	122.13	121.75	121.83	121.51	122.08	122.05	122.17	
10	122.02	121.46	121.50	121.69	121.86	122.17	122.11	121.83	121.51	122.02	122.05	122.19	
11	122.06	121.87	121.47	121.55	121.86	122.19	122.11	121.83	121.50	122.02	122.06	122.19	
12	122.16	121.84	121.47	121.53	121.85	122.16	122.05	121.79	121.56	122.02	122.05	122.19	
13	122.16	121.53	121.52	121.69	121.97	122.25	122.11	121.59	121.56	122.02	122.07	122.19	
14	122.16	121.50	121.50	122.06	122.08	121.94	121.96	121.57	121.56	122.06	122.12	122.24	
15	122.16	121.50	121.50	122.03	122.09	121.61	121.71	121.57	121.56	122.08	122.14	122.32	
16	122.07	121.48	121.52	121.98	121.59	121.57	121.74	121.57	121.56	122.08	122.17	122.36	
17	122.07	121.48	121.51	122.00	121.84	121.69	121.71	121.57	121.55	122.08	122.17	122.36	
18	122.16	121.46	121.50	122.17	122.05	121.72	121.68	121.57	121.55	122.08	122.17	122.33	
19	122.14	121.45	121.50	122.17	121.96	121.63	121.67	121.57	121.55	122.07	122.17	122.33	
20	122.03	121.45	121.50	122.16	121.93	121.61	121.95	121.56	121.55	121.99	122.09	122.20	
21	122.02	121.47	121.51	122.11	121.93	122.09	121.97	121.56	121.55	121.79	122.09	122.13	
22	122.02	121.47	121.50	122.10	121.95	121.76	121.99	121.56	121.55	121.87	122.09	122.13	
23	122.02	121.47	121.48	122.10	121.95	121.70	122.10	121.55	121.55	121.91	122.09	122.13	
24	122.02	121.47	121.57	122.10	122.15	121.66	122.10	121.55	121.55	122.00	122.09	122.09	
25	122.02	121.47	121.83	122.04	122.18	121.70	122.12	121.55	121.55	121.60	122.09	122.14	
26	122.02	121.70	121.89	122.04	122.13	121.98	122.10	121.55	121.55	121.57	122.09	122.17	
27	122.02	121.64	121.99	122.04	122.19	121.92	122.00	121.55	121.55	121.94	122.09	122.17	
28	122.00	121.52	122.01	122.04	122.19	121.89	121.81	121.54	121.55	122.02	122.09	122.18	
29	121.55	121.52	121.97	122.01	122.21	121.79	121.81	121.54	121.55	122.02		122.18	
30	121.51	121.56	121.97	121.94	122.12	121.73	121.80	121.54	121.55	122.02		122.33	
31		121.53		121.96	121.99		121.84		121.55	122.06		122.37	
Mean	122.04	121.53	121.60	121.89	121.97	121.89	121.88	121.70	121.54	121.94	122.09	122.21	
Max	122.16	121.87	122.01	122.17	122.21	122.25	122.12	122.00	121.56	122.08	122.17	122.37	122.37
Min	121.51	121.45	121.47	121.53	121.59	121.57	121.67	121.54	121.50	121.50	122.05	122.09	121.45
Annual Max Momentary Gage Height	122.37		m. (MSL.) ,			at 15.00 Hours ,	on Mar 30 ,	2009					
Zero Gage at Bottom Elevation	120.27		m. (MSL.) ,			River Bed	121.79		m. (MSL)				
Left Bank Elevation	128.40		m. (MSL.) ,										
Right Bank Elevation	126.75		m. (MSL.) ,			Drainage Area	368		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.56	0.18	0.26	0.67	1.15	2.36	0.75	2.90	0.26	0.22	3.56	4.56	
2	4.42	0.18	0.22	0.90	1.15	2.00	0.85	2.90	0.24	0.20	3.56	5.72	
3	4.42	0.18	0.20	1.52	1.10	2.09	1.10	2.90	0.24	0.70	3.56	5.72	
4	4.42	0.18	0.20	0.26	1.84	2.54	1.00	2.90	0.24	3.23	3.56	4.70	
5	3.67	0.16	0.20	0.43	3.12	3.12	1.15	2.90	0.24	3.12	3.56	4.28	
6	3.12	0.52	0.18	0.55	3.12	3.12	1.00	2.54	0.24	3.12	3.56	4.84	
7	3.12	0.24	0.22	0.64	3.12	3.12	0.80	2.00	0.24	3.12	3.67	4.84	
8	3.12	0.18	0.38	0.67	2.63	3.34	0.67	2.00	0.24	3.23	3.67	4.98	
9	3.12	0.16	0.24	0.67	1.68	4.42	0.95	1.44	0.22	3.78	3.45	4.98	
10	3.12	0.12	0.20	0.67	1.68	4.98	4.14	1.44	0.22	3.12	3.45	5.26	
11	3.56	1.76	0.14	0.30	1.68	5.26	4.14	1.44	0.20	3.12	3.56	5.26	
12	4.84	1.52	0.14	0.26	1.60	4.84	3.45	1.15	0.32	3.12	3.45	5.26	
13	4.84	0.26	0.24	0.67	2.63	6.20	4.14	0.38	0.32	3.12	3.67	5.26	
14	4.84	0.20	0.20	3.56	3.78	2.36	2.54	0.34	0.32	3.56	4.28	6.04	
15	4.84	0.20	0.20	3.23	3.89	0.43	0.75	0.34	0.32	3.78	4.56	7.38	
16	3.67	0.16	0.24	2.72	0.38	0.34	0.90	0.34	0.32	3.78	4.98	8.14	
17	3.67	0.16	0.22	2.90	1.52	0.67	0.75	0.34	0.30	3.78	4.98	8.14	
18	4.84	0.12	0.20	4.98	3.45	0.80	0.64	0.34	0.30	3.78	4.98	7.57	
19	4.56	0.10	0.20	4.98	2.54	0.49	0.61	0.34	0.30	3.67	4.98	7.57	
20	3.23	0.10	0.20	4.84	2.27	0.43	2.45	0.32	0.30	2.81	3.89	5.40	
21	3.12	0.14	0.22	4.14	2.27	3.89	2.63	0.32	0.30	1.15	3.89	4.42	
22	3.12	0.14	0.20	4.00	2.45	1.00	2.81	0.32	0.30	1.76	3.89	4.42	
23	3.12	0.14	0.16	4.00	2.45	0.70	4.00	0.30	0.30	2.09	3.89	4.42	
24	3.12	0.14	0.34	4.00	4.70	0.58	4.00	0.30	0.30	2.90	3.89	3.89	
25	3.12	0.14	1.44	3.34	5.12	0.70	4.28	0.30	0.30	0.40	3.89	4.56	
26	3.12	0.70	1.92	3.34	4.42	2.72	4.00	0.30	0.30	0.34	3.89	4.98	
27	3.12	0.52	2.81	3.34	5.26	2.18	2.90	0.30	0.30	2.36	3.89	4.98	
28	2.90	0.24	3.01	3.34	5.26	1.92	1.28	0.28	0.30	3.12	3.89	5.12	
29	0.30	0.24	2.63	3.01	5.56	1.15	1.28	0.28	0.30	3.12		5.12	
30	0.22	0.32	2.63	2.36	4.28	0.85	1.20	0.28	0.30	3.12		7.57	
31	0.26		2.54	2.81		1.52		0.30	3.56			8.33	
Total	105.24	9.66	19.64	72.83	88.91	68.60	62.68	32.23	8.68	82.28	110.05	173.71	834.51 CMSDAY
Mean	3.51	0.31	0.65	2.35	2.87	2.29	2.02	1.07	0.28	2.65	3.93	5.60	2.29 CMS
Max	4.84	1.76	3.01	4.98	5.56	6.20	4.28	2.90	0.32	3.78	4.98	8.33	8.33 CMS
Min	0.22	0.10	0.14	0.26	0.38	0.34	0.61	0.28	0.20	0.20	3.45	3.89	0.10 CMS
Runoff	9.09	0.84	1.70	6.29	7.68	5.93	5.42	2.79	0.75	7.11	9.51	15.01	72.10 MCM
Momentary Peak	8.33 CMS. at 122.37 m. (MSL.) at 15.00 Hours , on Mar 30 , 2009												
Runoff Yield	6.21 Liters/Second/Square KM.			Momentary Peak Yield			22.636 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Nam Khwae Noi at Ban Nong Krathao , Phitsanulok (N.36)

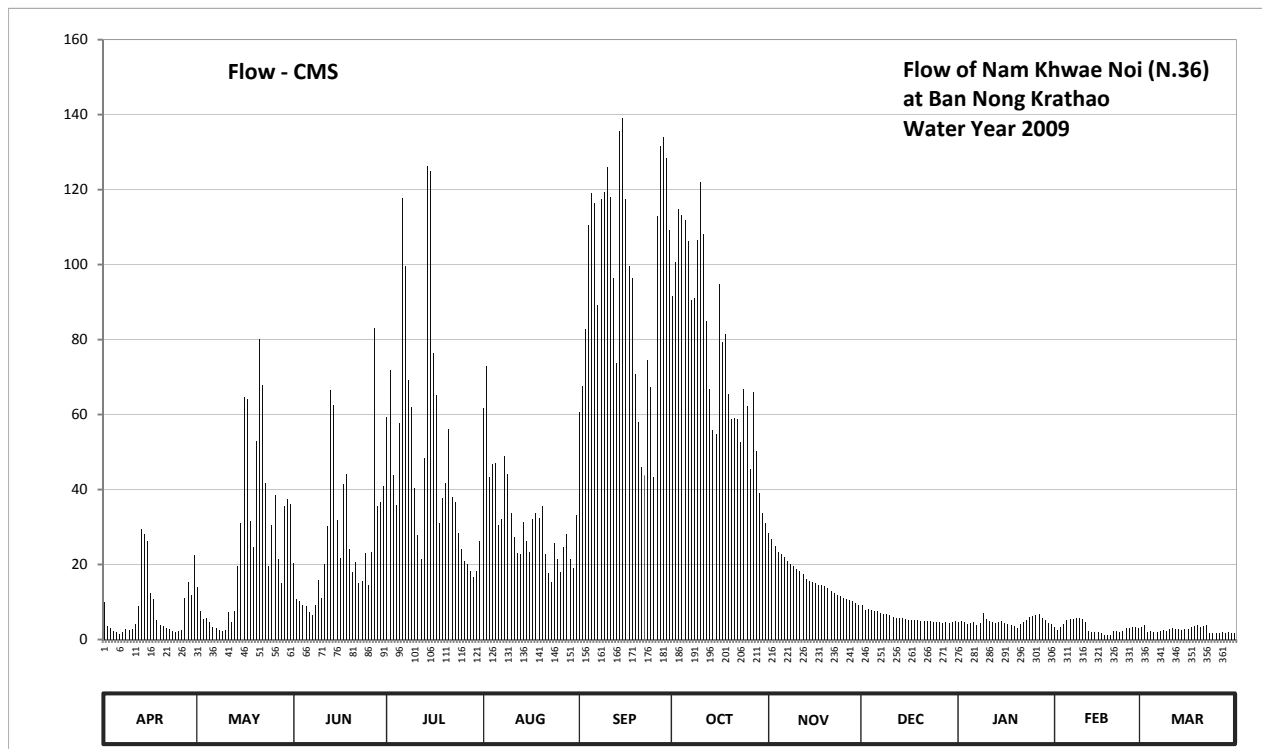
Lat 17 - 04 - 59 N Long 100 - 49 - 44 E

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
Drainage Area	1,710	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+191.880 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank along the measuring line.				Elevation	+200.293 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 means of 5 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1971 - 1979 , 1993 to date					
Rated by Flot	-					
Rated by Current Meter	1971 - 1979 , 1993 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 14 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	193.79	194.07	194.50	196.35	196.44	196.40	197.50	194.95	193.71	193.28	193.11	193.13	
2	193.16	193.58	193.85	196.82	196.85	196.66	197.79	194.86	193.61	193.29	193.04	193.17	
3	193.08	193.35	193.81	195.69	195.67	197.20	198.23	194.75	193.62	193.27	193.12	192.97	
4	193.01	193.38	193.71	195.33	195.82	198.10	198.18	194.66	193.60	193.22	193.21	192.99	
5	192.95	193.26	193.70	196.28	195.84	198.36	198.14	194.64	193.59	193.24	193.34	192.97	
6	192.83	193.12	193.55	198.32	195.06	198.28	197.96	194.59	193.57	193.27	193.36	192.97	
7	192.95	193.09	193.47	197.75	195.15	197.42	197.46	194.52	193.53	193.19	193.37	193.01	
8	193.07	193.05	193.72	196.72	195.92	198.31	197.48	194.47	193.51	193.25	193.39	193.04	
9	193.05	193.02	194.21	196.45	195.70	198.37	197.97	194.44	193.49	193.52	193.40	193.01	
10	193.06	193.03	193.87	195.53	195.23	198.57	198.45	194.40	193.47	193.36	193.37	193.07	
11	193.20	193.55	194.47	194.92	194.88	198.33	198.02	194.37	193.43	193.31	193.27	193.08	
12	193.69	193.27	195.04	194.56	194.65	197.65	197.27	194.31	193.40	193.26	192.99	193.07	
13	195.00	193.57	196.62	195.90	194.63	196.88	196.63	194.23	193.40	193.24	192.96	193.06	
14	194.93	194.44	196.47	198.58	195.10	198.86	196.21	194.19	193.38	193.26	192.95	193.05	
15	194.83	195.09	195.13	198.54	194.82	198.97	196.17	194.17	193.37	193.29	192.95	193.07	
16	193.97	196.55	194.57	196.98	194.66	198.31	197.60	194.15	193.34	193.23	192.90	193.06	
17	193.85	196.53	195.58	196.57	195.14	197.75	197.08	194.12	193.33	193.20	192.80	193.13	
18	193.34	195.12	195.70	195.09	195.23	197.65	197.15	194.12	193.32	193.18	192.79	193.15	
19	193.19	194.73	194.71	195.41	195.16	196.78	196.58	194.10	193.32	193.15	192.76	193.19	
20	193.15	196.09	194.34	195.59	195.32	196.30	196.33	194.06	193.31	193.10	193.00	193.12	
21	193.09	197.11	194.51	196.22	194.64	195.79	196.34	194.01	193.31	193.20	193.01	193.15	
22	193.06	196.67	194.16	195.43	194.32	195.69	196.33	193.96	193.29	193.28	192.95	193.17	
23	193.02	195.60	194.19	195.37	194.17	196.91	196.07	193.93	193.29	193.32	193.02	192.90	
24	192.97	194.44	194.65	194.94	194.79	196.65	196.63	193.90	193.28	193.41	193.08	192.92	
25	192.99	195.06	194.11	194.71	194.56	195.67	196.46	193.87	193.28	193.44	193.08	192.90	
26	193.04	195.45	194.66	194.53	194.35	198.17	195.76	193.85	193.27	193.46	193.11	192.91	
27	193.86	194.55	197.21	194.48	194.73	198.74	196.60	193.82	193.25	193.49	193.12	192.93	
28	194.17	194.15	195.32	194.36	194.93	198.81	195.97	193.80	193.26	193.39	193.09	192.92	
29	193.93	195.32	195.37	194.26	194.56	198.64	195.48	193.76	193.25	193.32		192.93	
30	194.62	195.40	195.56	194.36	194.42	198.06	195.22	193.72	193.27	193.25		192.91	
31		195.34		194.83	195.20		195.08		193.29	193.22		192.91	
Mean	193.50	194.55	194.69	195.83	195.09	197.61	196.91	194.22	193.40	193.29	193.09	193.03	
Max	195.00	197.11	197.21	198.58	196.85	198.97	198.45	194.95	193.71	193.52	193.40	193.19	198.97
Min	192.83	193.02	193.47	194.26	194.17	195.67	195.08	193.72	193.25	193.10	192.76	192.90	192.76
Annual Max Momentary Gage Height	199.06		m. (MSL.) ,			at 06.00 Hours , on Sep 15 , 2009							
Zero Gage at Bottom Elevation	191.88		m. (MSL.) ,		River Bed	191.88		m. (MSL)					
Left Bank Elevation		203.16		m. (MSL.) ,									
Right Bank Elevation		203.21		m. (MSL.) ,	Drainage Area	1710		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.08	13.85	20.50	59.35	61.68	60.60	91.70	28.50	9.12	4.72	3.19	3.37	
2	3.64	7.60	10.85	71.96	72.80	67.62	100.69	26.88	7.92	4.81	2.56	3.73	
3	2.92	5.35	10.33	43.78	43.34	82.80	114.79	24.90	8.04	4.63	3.28	2.05	
4	2.29	5.62	9.12	35.93	46.66	110.60	113.16	23.28	7.80	4.18	4.09	2.15	
5	1.95	4.54	9.00	57.60	47.12	119.08	111.88	22.92	7.70	4.36	5.26	2.05	
6	1.35	3.28	7.30	117.76	30.54	116.44	106.12	22.03	7.50	4.63	5.44	2.05	
7	1.95	3.01	6.50	99.45	32.25	89.22	90.46	20.84	7.10	3.91	5.53	2.29	
8	2.83	2.65	9.24	69.24	48.96	117.43	91.08	19.99	6.90	4.45	5.71	2.56	
9	2.65	2.38	15.95	61.95	44.00	119.41	106.44	19.48	6.70	7.00	5.80	2.29	
10	2.74	2.47	11.11	40.26	33.83	126.01	122.05	18.80	6.50	5.44	5.53	2.83	
11	4.00	7.30	19.99	27.96	27.24	118.09	108.04	18.35	6.10	4.99	4.63	2.92	
12	8.88	4.63	30.16	21.52	23.10	96.35	84.83	17.45	5.80	4.54	2.15	2.83	
13	29.40	7.50	66.54	48.50	22.74	73.64	66.81	16.25	5.80	4.36	2.00	2.74	
14	28.14	19.48	62.49	126.34	31.30	135.58	55.85	15.65	5.62	4.54	1.95	2.65	
15	26.34	31.11	31.87	125.02	26.16	139.21	54.88	15.35	5.53	4.81	1.95	2.83	
16	12.41	64.65	21.69	76.44	23.28	117.43	94.80	15.05	5.26	4.27	1.70	2.74	
17	10.85	64.11	41.36	65.19	32.06	99.45	79.32	14.60	5.17	4.00	1.20	3.37	
18	5.26	31.68	44.00	31.11	33.83	96.35	81.35	14.60	5.08	3.82	1.16	3.55	
19	3.91	24.54	24.18	37.62	32.44	70.86	65.46	14.30	5.08	3.55	1.04	3.91	
20	3.55	52.96	17.90	41.58	35.72	58.10	58.85	13.70	4.99	3.10	2.20	3.28	
21	3.01	80.19	20.67	56.10	22.92	45.98	59.10	12.95	4.99	4.00	2.29	3.55	
22	2.74	67.89	15.20	38.06	17.60	43.78	58.85	12.28	4.81	4.72	1.95	3.73	
23	2.38	41.80	15.65	36.77	15.35	74.48	52.48	11.89	4.81	5.08	2.38	1.70	
24	2.05	19.48	23.10	28.32	25.62	67.35	66.81	11.50	4.72	5.90	2.92	1.80	
25	2.15	30.54	14.45	24.18	21.52	43.34	62.22	11.11	4.72	6.20	2.92	1.70	
26	2.56	38.50	23.28	21.01	18.05	112.84	45.32	10.85	4.63	6.40	3.19	1.75	
27	10.98	21.35	83.09	20.16	24.54	131.62	66.00	10.46	4.45	6.70	3.28	1.85	
28	15.35	15.05	35.72	18.20	28.14	133.93	50.11	10.20	4.54	5.71	3.01	1.80	
29	11.89	35.72	36.77	16.70	21.52	128.32	39.16	9.72	4.45	5.08		1.85	
30	22.56	37.40	40.92	18.20	19.14	109.32	33.62	9.24	4.63	4.45		1.75	
31		36.14		26.34	33.20		30.92		4.81	4.18		1.75	
Total	240.81	782.77	778.93	1562.60	996.65	2905.23	2363.15	493.12	181.27	148.53	88.31	79.42	10620.79 CMSDAY
Mean	8.03	25.25	25.96	50.41	32.15	96.84	76.23	16.44	5.85	4.79	3.15	2.56	29.10 CMS
Max	29.40	80.19	83.09	126.34	72.80	139.21	122.05	28.50	9.12	7.00	5.80	3.91	139.21 CMS
Min	1.35	2.38	6.50	16.70	15.35	43.34	30.92	9.24	4.45	3.10	1.04	1.70	1.04 CMS
Runoff	20.81	67.63	67.30	135.01	86.11	251.01	204.18	42.61	15.66	12.83	7.63	6.86	917.64 MCM
Momentary Peak	142.24 CMS. at 199.06 m. (MSL.) at 06.00 Hours , on Sep 15 , 2009												
Runoff Yield	17.02 Liters/Second/Square KM.			Momentary Peak Yield				83.181 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Nam Yao at Ban Nam Yao , Nan (N.49)

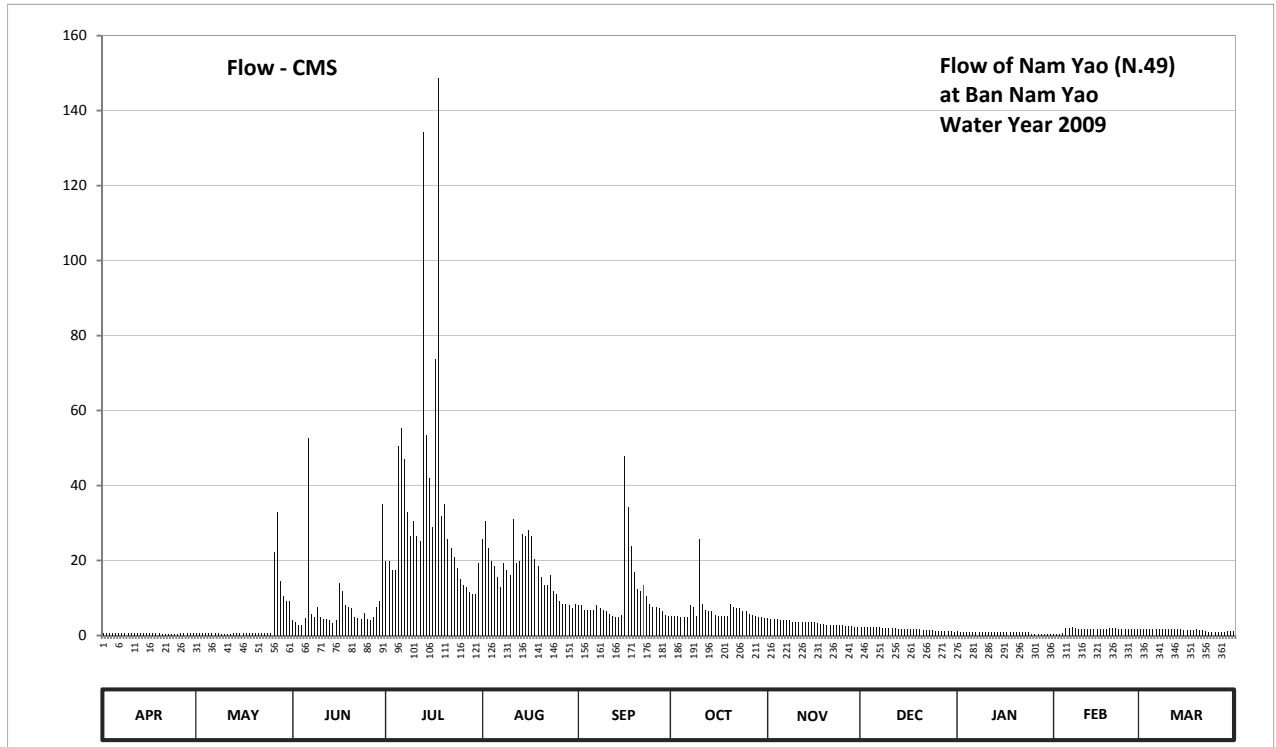
Lat 18 - 59 - 33 N Long 100 - 56 - 36 E

Location : on right bank downstream of the bridge of Nam Yao, along Pua - Sila Phet Road.

	Ban	Nam Yao	Amphoe	Pua	Changwat	Nan
Drainage Area	153	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+263.983 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 15 meters from the top staff gage.				Elevation	+270.035 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1979 to date					
Rated by Flot	-					
Rated by Current Meter	1979 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.56	265.55	265.21	265.58	265.68	265.35	265.26	265.23	265.12	265.06	265.43	265.81	
2	265.56	265.55	265.18	265.58	265.76	265.35	265.26	265.22	265.12	265.05	265.44	265.81	
3	265.56	265.55	265.14	265.54	265.64	265.32	265.26	265.22	265.11	265.05	265.44	265.81	
4	265.56	265.55	265.14	265.54	265.58	265.32	265.24	265.22	265.11	265.05	265.54	265.81	
5	265.56	265.55	265.23	266.05	265.56	265.32	265.24	265.21	265.11	265.05	265.84	265.82	
6	265.56	265.54	266.08	266.12	265.51	265.32	265.24	265.21	265.11	265.05	265.84	265.82	
7	265.56	265.53	265.29	266.00	265.46	265.35	265.35	265.20	265.11	265.05	265.87	265.82	
8	265.56	265.53	265.25	265.80	265.57	265.33	265.34	265.20	265.10	265.04	265.84	265.81	
9	265.56	265.52	265.34	265.69	265.54	265.32	265.26	265.18	265.10	265.04	265.83	265.81	
10	265.56	265.52	265.25	265.76	265.52	265.31	265.68	265.18	265.10	265.04	265.83	265.81	
11	265.58	265.52	265.22	265.69	265.77	265.29	265.36	265.18	265.10	265.04	265.83	265.82	
12	265.64	265.52	265.22	265.67	265.57	265.26	265.32	265.18	265.10	265.04	265.83	265.82	
13	265.64	265.53	265.20	266.96	265.58	265.25	265.31	265.18	265.09	265.04	265.83	265.81	
14	265.64	265.58	265.17	266.09	265.70	265.24	265.31	265.18	265.08	265.04	265.83	265.81	
15	265.64	265.53	265.21	265.93	265.69	265.27	265.27	265.18	265.08	265.04	265.83	265.80	
16	265.58	265.55	265.48	265.73	265.72	266.01	265.26	265.18	265.08	265.04	265.82	265.80	
17	265.54	265.55	265.44	266.36	265.69	265.82	265.26	265.17	265.08	265.04	265.82	265.80	
18	265.54	265.55	265.35	267.08	265.59	265.65	265.26	265.15	265.08	265.04	265.83	265.80	
19	265.54	265.54	265.34	265.78	265.56	265.53	265.26	265.15	265.08	265.04	265.84	265.83	
20	265.52	265.55	265.33	265.83	265.51	265.45	265.36	265.14	265.08	265.04	265.85	265.80	
21	265.52	265.57	265.25	265.68	265.47	265.44	265.34	265.14	265.07	265.04	265.84	265.78	
22	265.52	265.56	265.23	265.64	265.47	265.47	265.33	265.14	265.07	265.04	265.83	265.76	
23	265.52	265.56	265.22	265.60	265.52	265.41	265.33	265.14	265.07	265.04	265.82	265.69	
24	265.52	265.53	265.30	265.55	265.44	265.36	265.31	265.14	265.07	265.04	265.82	265.68	
25	265.52	265.53	265.22	265.50	265.42	265.34	265.31	265.14	265.06	265.41	265.82	265.68	
26	265.54	265.62	265.20	265.47	265.38	265.34	265.29	265.13	265.06	265.40	265.81	265.68	
27	265.58	265.80	265.25	265.46	265.36	265.33	265.27	265.13	265.06	265.37	265.81	265.68	
28	265.58	265.49	265.34	265.43	265.36	265.31	265.26	265.13	265.06	265.36	265.81	265.68	
29	265.57	265.41	265.38	265.42	265.35	265.28	265.25	265.12	265.06	265.36		265.76	
30	265.57	265.38	265.83	265.42	265.33	265.26	265.24	265.12	265.06	265.35		265.75	
31		265.38		265.57	265.36		265.23		265.05	265.35		265.76	
Mean	265.56	265.54	265.31	265.79	265.54	265.39	265.30	265.17	265.08	265.12	265.78	265.78	
Max	265.64	265.80	266.08	267.08	265.77	266.01	265.68	265.23	265.12	265.41	265.87	265.83	267.08
Min	265.52	265.38	265.14	265.42	265.33	265.24	265.23	265.12	265.05	265.04	265.43	265.68	265.04
Annual Max Momentary Gage Height	267.83		m. (MSL.) ,				at 08.00 Hours , on Jul 18 , 2009						
Zero Gage at Bottom Elevation	263.98		m. (MSL.) ,			River Bed	264.07		m. (MSL)				
Left Bank Elevation		273.19		m. (MSL.) ,									
Right Bank Elevation		275.26		m. (MSL.) ,		Drainage Area	153		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.55	4.20	19.80	25.80	8.00	5.20	4.60	2.40	1.20	0.43	1.60	
2	0.56	0.55	3.60	19.80	30.60	8.00	5.20	4.40	2.40	1.00	0.44	1.60	
3	0.56	0.55	2.80	17.40	23.40	6.80	5.20	4.40	2.20	1.00	0.44	1.60	
4	0.56	0.55	2.80	17.40	19.80	6.80	4.80	4.40	2.20	1.00	0.54	1.60	
5	0.56	0.55	4.60	50.50	18.60	6.80	4.80	4.20	2.20	1.00	1.90	1.70	
6	0.56	0.54	52.60	55.40	15.60	6.80	4.80	4.20	2.20	1.00	1.90	1.70	
7	0.56	0.53	5.80	47.00	13.00	8.00	8.00	4.00	2.20	1.00	2.20	1.70	
8	0.56	0.53	5.00	33.00	19.20	7.20	7.60	4.00	2.00	0.80	1.90	1.60	
9	0.56	0.52	7.60	26.40	17.40	6.80	5.20	3.60	2.00	0.80	1.80	1.60	
10	0.56	0.52	5.00	30.60	16.20	6.40	25.80	3.60	2.00	0.80	1.80	1.60	
11	0.58	0.52	4.40	26.40	31.20	5.80	8.40	3.60	2.00	0.80	1.80	1.70	
12	0.76	0.52	4.40	25.20	19.20	5.20	6.80	3.60	2.00	0.80	1.80	1.70	
13	0.76	0.53	4.00	134.20	19.80	5.00	6.40	3.60	1.80	0.80	1.80	1.60	
14	0.76	0.58	3.40	53.30	27.00	4.80	6.40	3.60	1.60	0.80	1.80	1.60	
15	0.76	0.53	4.20	42.10	26.40	5.40	5.40	3.60	1.60	0.80	1.80	1.50	
16	0.58	0.55	14.00	28.80	28.20	47.70	5.20	3.60	1.60	0.80	1.70	1.50	
17	0.54	0.55	12.00	73.80	26.40	34.40	5.20	3.40	1.60	0.80	1.70	1.50	
18	0.54	0.55	8.00	148.60	20.40	24.00	5.20	3.00	1.60	0.80	1.80	1.50	
19	0.54	0.54	7.60	31.80	18.60	16.80	5.20	3.00	1.60	0.80	1.90	1.80	
20	0.52	0.55	7.20	35.10	15.60	12.50	8.40	2.80	1.60	0.80	2.00	1.50	
21	0.52	0.57	5.00	25.80	13.50	12.00	7.60	2.80	1.40	0.80	1.90	1.40	
22	0.52	0.56	4.60	23.40	13.50	13.50	7.20	2.80	1.40	0.80	1.80	1.30	
23	0.52	0.56	4.40	21.00	16.20	10.50	7.20	2.80	1.40	0.80	1.70	0.96	
24	0.52	0.53	6.00	18.00	12.00	8.40	6.40	2.80	1.40	0.80	1.70	0.92	
25	0.52	0.53	4.40	15.00	11.00	7.60	6.40	2.80	1.20	0.41	1.70	0.92	
26	0.54	22.20	4.00	13.50	9.20	7.60	5.80	2.60	1.20	0.40	1.60	0.92	
27	0.58	33.00	5.00	13.00	8.40	7.20	5.40	2.60	1.20	0.37	1.60	0.92	
28	0.58	14.50	7.60	11.50	8.40	6.40	5.20	2.60	1.20	0.36	1.60	0.92	
29	0.57	10.50	9.20	11.00	8.00	5.60	5.00	2.40	1.20	0.36		1.30	
30	0.57	9.20	35.10	11.00	7.20	5.20	4.80	2.40	1.20	0.35		1.25	
31		9.20		19.20	8.40		4.60		1.00	0.35		1.30	
Total	17.38	112.16	248.50	1099.00	548.20	317.20	204.80	101.80	52.60	23.40	45.05	44.31	2814.40 CMSDAY
Mean	0.58	3.62	8.28	35.45	17.68	10.57	6.61	3.39	1.70	0.75	1.61	1.43	7.71 CMS
Max	0.76	33.00	52.60	148.60	31.20	47.70	25.80	4.60	2.40	1.20	2.20	1.80	148.60 CMS
Min	0.52	0.52	2.80	11.00	7.20	4.80	4.60	2.40	1.00	0.35	0.43	0.92	0.35 CMS
Runoff	1.50	9.69	21.47	94.95	47.36	27.41	17.70	8.80	4.55	2.02	3.89	3.83	243.16 MCM
Momentary Peak	257.10 CMS. at 267.83 m. (MSL.) at 08.00 Hours , on Jul 18 , 2009												
Runoff Yield	50.40 Liters/Second/Square KM.			Momentary Peak Yield				1680.392 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Klong Wang Pong at Ban Wang Pong , Phetchabun (N.54)

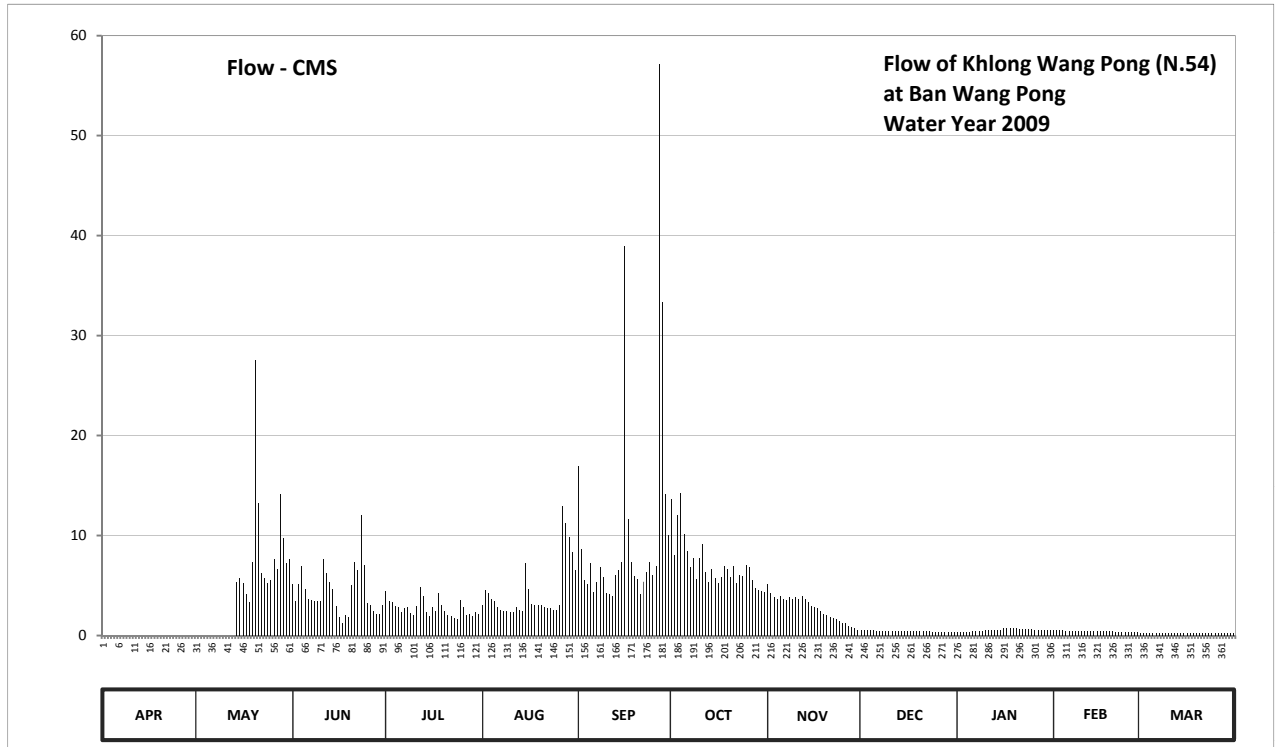
Lat 16 - 19 - 34 N Long 100 - 48 - 17 E

Location : on left bank at the bridge on road.

	Ban Wang Pong	Amphoe Chon Dan	Changwat Phetchabun
Drainage Area	174 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+104.350 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	Elevation	+107.656 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 means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.34	104.38	104.52	104.46	104.33	105.32	105.12	104.52	104.05	104.01	104.05	103.99	
2	104.33	104.37	104.37	104.37	104.47	104.78	104.74	104.44	104.05	104.01	104.05	103.99	
3	104.32	104.37	104.52	104.36	104.44	104.55	105.02	104.40	104.05	104.01	104.05	103.99	
4	104.30	104.38	104.66	104.32	104.39	104.52	105.16	104.39	104.05	104.01	104.05	103.99	
5	104.33	104.36	104.48	104.31	104.37	104.68	104.89	104.41	104.05	104.01	104.04	103.99	
6	104.36	104.37	104.39	104.27	104.31	104.45	104.77	104.39	104.04	104.03	104.04	103.99	
7	104.38	104.37	104.38	104.30	104.29	104.54	104.65	104.38	104.04	104.03	104.04	103.99	
8	104.40	104.36	104.37	104.31	104.28	104.65	104.72	104.40	104.04	104.04	104.04	103.99	
9	104.37	104.39	104.37	104.26	104.28	104.58	104.56	104.39	104.04	104.04	104.04	103.99	
10	104.36	104.37	104.37	104.24	104.27	104.44	104.72	104.40	104.04	104.05	104.04	103.99	
11	104.33	104.38	104.71	104.32	104.27	104.43	104.82	104.39	104.04	104.05	104.03	103.99	
12	104.34	104.39	104.61	104.50	104.31	104.41	104.62	104.41	104.04	104.05	104.03	103.99	
13	104.32	104.39	104.54	104.41	104.29	104.60	104.54	104.39	104.04	104.05	104.03	103.99	
14	104.33	104.54	104.48	104.27	104.28	104.63	104.64	104.36	104.04	104.05	104.03	103.99	
15	104.34	104.57	104.32	104.23	104.68	104.69	104.57	104.32	104.04	104.05	104.03	103.99	
16	104.36	104.53	104.22	104.31	104.48	106.41	104.53	104.31	104.03	104.08	104.03	103.99	
17	104.37	104.43	104.16	104.28	104.34	104.99	104.58	104.30	104.03	104.08	104.03	103.99	
18	104.38	104.36	104.24	104.44	104.33	104.69	104.66	104.28	104.03	104.08	104.02	103.99	
19	104.37	104.69	104.22	104.33	104.33	104.59	104.64	104.25	104.03	104.08	104.02	103.99	
20	104.36	105.88	104.51	104.28	104.33	104.56	104.58	104.24	104.03	104.08	104.02	103.99	
21	104.33	105.10	104.69	104.24	104.31	104.43	104.66	104.22	104.02	104.06	104.01	103.99	
22	104.34	104.61	104.63	104.23	104.30	104.54	104.53	104.21	104.02	104.06	104.01	103.99	
23	104.33	104.57	105.02	104.21	104.30	104.62	104.60	104.20	104.02	104.06	104.01	103.99	
24	104.33	104.53	104.67	104.20	104.29	104.69	104.59	104.18	104.01	104.06	104.01	103.99	
25	104.36	104.55	104.35	104.38	104.29	104.60	104.67	104.16	104.01	104.06	104.01	103.99	
26	104.37	104.71	104.33	104.31	104.33	104.66	104.65	104.15	104.01	104.05	104.00	103.99	
27	104.39	104.64	104.28	104.24	105.08	107.17	104.55	104.12	104.01	104.05	104.00	103.99	
28	104.37	105.15	104.25	104.25	104.96	106.16	104.49	104.10	104.01	104.05	104.00	103.99	
29	104.36	104.86	104.25	104.23	104.87	105.15	104.47	104.08	104.01	104.05		103.99	
30	104.36	104.68	104.33	104.27	104.76	104.88	104.46	104.05	104.01	104.05		103.99	
31		104.71		104.25	104.63		104.45		104.01	104.05		103.99	
Mean	104.35	104.58	104.44	104.30	104.43	104.85	104.67	104.29	104.03	104.05	104.03	103.99	
Max	104.40	105.88	105.02	104.50	105.08	107.17	105.16	104.52	104.05	104.08	104.05	103.99	107.17
Min	104.30	104.36	104.16	104.20	104.27	104.41	104.45	104.05	104.01	104.01	104.00	103.99	103.99
Annual Max Momentary Gage Height		107.93	m. (MSL.) ,				at 12.00 Hours , on Sep 27 , 2009						
Zero Gage at Bottom Elevation		104.35	m. (MSL.) ,			River Bed	103.76	m. (MSL)					
Left Bank Elevation		109.34	m. (MSL.) ,										
Right Bank Elevation		109.51	m. (MSL.) ,			Drainage Area	174	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	5.14	4.46	3.03	16.89	13.63	5.14	0.55	0.35	0.55	0.27	
2	0.00	0.00	3.47	3.47	4.57	8.62	8.06	4.24	0.55	0.35	0.55	0.27	
3	0.00	0.00	5.14	3.36	4.24	5.50	12.10	3.80	0.55	0.35	0.55	0.27	
4	0.00	0.00	6.94	2.92	3.69	5.14	14.28	3.69	0.55	0.35	0.55	0.27	
5	0.00	0.00	4.68	2.81	3.47	7.22	10.16	3.91	0.55	0.35	0.50	0.27	
6	0.00	0.00	3.69	2.37	2.81	4.35	8.48	3.69	0.50	0.45	0.50	0.27	
7	0.00	0.00	3.58	2.70	2.59	5.38	6.80	3.58	0.50	0.45	0.50	0.27	
8	0.00	0.00	3.47	2.81	2.48	6.80	7.78	3.80	0.50	0.50	0.50	0.27	
9	0.00	0.00	3.47	2.26	2.48	5.86	5.62	3.69	0.50	0.50	0.50	0.27	
10	0.00	0.00	3.47	2.04	2.37	4.24	7.78	3.80	0.50	0.55	0.50	0.27	
11	0.00	0.00	7.64	2.92	2.37	4.13	9.18	3.69	0.50	0.55	0.45	0.27	
12	0.00	0.00	6.24	4.90	2.81	3.91	6.38	3.91	0.50	0.55	0.45	0.27	
13	0.00	0.00	5.38	3.91	2.59	6.10	5.38	3.69	0.50	0.55	0.45	0.27	
14	0.00	5.38	4.68	2.37	2.48	6.52	6.66	3.36	0.50	0.55	0.45	0.27	
15	0.00	5.74	2.92	1.93	7.22	7.36	5.74	2.92	0.50	0.55	0.45	0.27	
16	0.00	5.26	1.82	2.81	4.68	38.89	5.26	2.81	0.45	0.70	0.45	0.27	
17	0.00	4.13	1.28	2.48	3.14	11.65	5.86	2.70	0.45	0.70	0.45	0.27	
18	0.00	3.36	2.04	4.24	3.03	7.36	6.94	2.48	0.45	0.70	0.40	0.27	
19	0.00	7.36	1.82	3.03	3.03	5.98	6.66	2.15	0.45	0.70	0.40	0.27	
20	0.00	27.54	5.02	2.48	3.03	5.62	5.86	2.04	0.45	0.70	0.40	0.27	
21	0.00	13.30	7.36	2.04	2.81	4.13	6.94	1.82	0.40	0.60	0.35	0.27	
22	0.00	6.24	6.52	1.93	2.70	5.38	5.26	1.71	0.40	0.60	0.35	0.27	
23	0.00	5.74	12.10	1.71	2.70	6.38	6.10	1.60	0.40	0.60	0.35	0.27	
24	0.00	5.26	7.08	1.60	2.59	7.36	5.98	1.44	0.35	0.60	0.35	0.27	
25	0.00	5.50	3.25	3.58	2.59	6.10	7.08	1.28	0.35	0.60	0.35	0.27	
26	0.00	7.64	3.03	2.81	3.03	6.94	6.80	1.20	0.35	0.55	0.30	0.27	
27	0.00	6.66	2.48	2.04	13.00	57.11	5.50	0.96	0.35	0.55	0.30	0.27	
28	0.00	14.12	2.15	2.15	11.20	33.32	4.79	0.80	0.35	0.55	0.30	0.27	
29	0.00	9.74	2.15	1.93	9.88	14.12	4.57	0.70	0.35	0.55		0.27	
30	0.00	7.22	3.03	2.37	8.34	10.02	4.46	0.55	0.35	0.55		0.27	
31		7.64		2.15	6.52		4.35		0.35	0.55		0.27	
Total	0.00	147.83	131.04	84.58	131.47	318.38	220.44	81.15	14.00	16.75	12.20	8.37	1166.21 CMSDAY
Mean	0.00	4.77	4.37	2.73	4.24	10.61	7.11	2.71	0.45	0.54	0.44	0.27	3.20 CMS
Max	0.00	27.54	12.10	4.90	13.00	57.11	14.28	5.14	0.55	0.70	0.55	0.27	57.11 CMS
Min	0.00	0.00	1.28	1.60	2.37	3.91	4.35	0.55	0.35	0.35	0.30	0.27	0.00 CMS
Runoff	0.00	12.77	11.32	7.31	11.36	27.51	19.05	7.01	1.21	1.45	1.05	0.72	100.76 MCM
Momentary Peak	76.81 CMS. at 107.93 m. (MSL.) at 12.00 Hours , on Sep 27 , 2009												
Runoff Yield	18.36 Liters/Second/Square KM.			Momentary Peak Yield				441.437 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Nam Phak at Ban Tha Sakae , Phitsanulok (N.55)

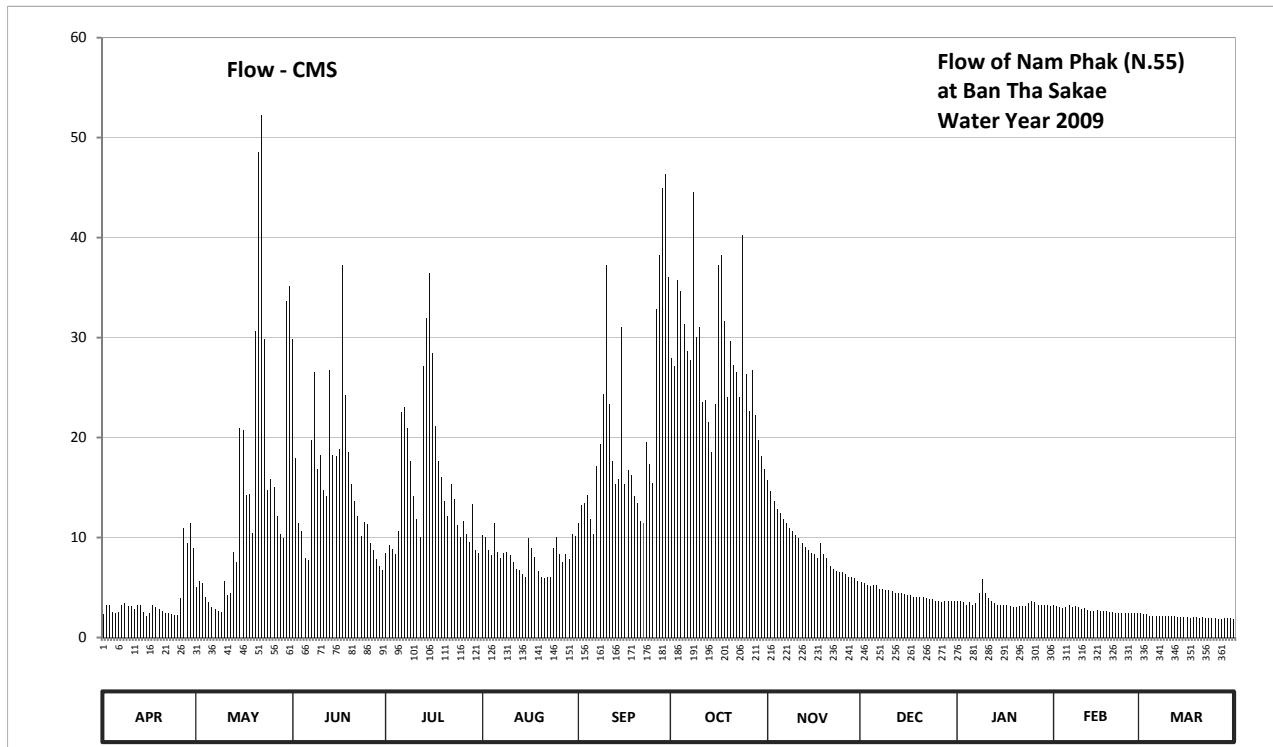
Lat 17 - 15 - 06 N Long 100 - 37 - 53 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

	Ban Tha Sakae	Amphoe Chat Trakan	Changwat Phitsanulok
Drainage Area	971 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+182.830 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 13 meters from the top staff gage.	Elevation	+191.446 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 means of 5 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 15 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.39	183.67	185.60	183.98	184.13	184.23	185.47	184.56	183.72	183.53	183.49	183.40	
2	183.49	183.73	184.73	184.05	184.11	184.37	185.41	184.48	183.71	183.53	183.48	183.39	
3	183.49	183.71	184.23	184.01	184.00	184.39	186.00	184.40	183.70	183.52	183.47	183.39	
4	183.42	183.58	184.16	183.97	183.96	184.45	185.93	184.34	183.68	183.50	183.46	183.37	
5	183.40	183.52	183.94	184.16	184.23	184.26	185.71	184.31	183.69	183.52	183.47	183.37	
6	183.42	183.47	183.92	185.08	183.99	184.14	185.52	184.26	183.69	183.50	183.49	183.36	
7	183.49	183.45	184.87	185.12	183.94	184.67	185.45	184.23	183.66	183.51	183.47	183.36	
8	183.51	183.43	185.37	184.96	183.98	184.84	186.59	184.19	183.66	183.61	183.48	183.36	
9	183.48	183.42	184.65	184.71	183.99	185.21	185.62	184.16	183.64	183.75	183.47	183.36	
10	183.48	183.73	184.76	184.44	183.96	186.10	185.69	184.13	183.64	183.61	183.45	183.36	
11	183.45	183.59	184.49	184.26	183.90	185.14	185.15	184.10	183.63	183.56	183.46	183.36	
12	183.49	183.62	184.44	184.11	183.85	184.71	185.17	184.06	183.62	183.54	183.44	183.36	
13	183.50	183.99	185.38	185.41	183.84	184.53	185.01	184.03	183.62	183.51	183.43	183.35	
14	183.42	183.90	184.76	185.75	183.80	184.57	184.78	184.00	183.61	183.49	183.43	183.35	
15	183.37	184.96	184.75	186.05	183.78	185.69	185.14	183.98	183.60	183.49	183.44	183.35	
16	183.40	184.95	184.80	185.50	184.10	184.53	186.10	183.97	183.59	183.50	183.43	183.35	
17	183.50	184.45	186.10	184.98	184.02	184.64	186.17	183.94	183.59	183.50	183.43	183.34	
18	183.47	184.46	185.20	184.71	183.95	184.60	185.73	184.06	183.58	183.48	183.43	183.35	
19	183.45	184.15	184.78	184.59	183.83	184.44	185.19	183.97	183.58	183.47	183.42	183.35	
20	183.43	185.66	184.53	184.40	183.77	184.39	185.59	183.94	183.57	183.47	183.42	183.34	
21	183.41	186.85	184.40	184.29	183.76	184.25	185.42	183.87	183.57	183.48	183.41	183.35	
22	183.40	187.08	184.29	184.53	183.78	184.23	185.37	183.85	183.56	183.48	183.40	183.34	
23	183.39	185.60	184.12	184.42	183.77	184.86	185.19	183.83	183.55	183.48	183.40	183.34	
24	183.38	184.49	184.24	184.21	184.02	184.69	186.30	183.82	183.55	183.51	183.40	183.34	
25	183.38	184.57	184.22	184.11	184.11	184.54	185.35	183.82	183.53	183.54	183.40	183.33	
26	183.56	184.51	184.06	184.25	183.97	185.81	185.09	183.80	183.53	183.52	183.40	183.32	
27	184.19	184.29	184.00	184.14	183.90	186.17	185.38	183.78	183.52	183.50	183.40	183.32	
28	184.06	184.14	183.93	184.07	183.97	186.62	185.06	183.77	183.53	183.49	183.40	183.33	
29	184.23	184.10	183.87	184.38	183.93	186.71	184.87	183.76	183.53	183.50		183.33	
30	184.02	185.86	183.84	184.00	184.14	186.02	184.75	183.74	183.54	183.50		183.33	
31		185.96		183.98	184.12		184.65		183.53	183.48		183.32	
Mean	183.54	184.42	184.55	184.54	183.95	184.93	185.45	184.04	183.60	183.52	183.44	183.35	
Max	184.23	187.08	186.10	186.05	184.23	186.71	186.59	184.56	183.72	183.75	183.49	183.40	187.08
Min	183.37	183.42	183.84	183.97	183.76	184.14	184.65	183.74	183.52	183.47	183.40	183.32	183.32
Annual Max Momentary Gage Height	187.19		m. (MSL.) ,				at 06.00 Hours , on May 22 , 2009						
Zero Gage at Bottom Elevation	182.83		m. (MSL.) ,			River Bed	182.96		m. (MSL)				
Left Bank Elevation		191.25		m. (MSL.) ,									
Right Bank Elevation		191.16		m. (MSL.) ,		Drainage Area	971		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.33	5.00	29.80	8.46	10.26	11.46	27.98	15.68	5.50	3.60	3.21	2.40		
2	3.21	5.60	17.89	9.30	10.02	13.21	27.14	14.64	5.40	3.60	3.12	2.33		
3	3.21	5.40	11.46	8.82	8.70	13.47	35.70	13.60	5.30	3.50	3.03	2.33		
4	2.58	4.10	10.62	8.34	8.22	14.25	34.65	12.82	5.10	3.30	2.94	2.19		
5	2.40	3.50	7.98	10.62	11.46	11.82	31.35	12.43	5.20	3.50	3.03	2.19		
6	2.58	3.03	7.74	22.52	8.58	10.38	28.68	11.82	5.20	3.30	3.21	2.12		
7	3.21	2.85	19.71	23.08	7.98	17.11	27.70	11.46	4.90	3.40	3.03	2.12		
8	3.40	2.67	26.58	20.88	8.46	19.32	44.55	10.98	4.90	4.40	3.12	2.12		
9	3.12	2.58	16.85	17.63	8.58	24.34	30.08	10.62	4.70	5.80	3.03	2.12		
10	3.12	5.60	18.28	14.12	8.22	37.20	31.06	10.26	4.70	4.40	2.85	2.12		
11	2.85	4.20	14.77	11.82	7.50	23.36	23.50	9.90	4.60	3.90	2.94	2.12		
12	3.21	4.50	14.12	10.02	6.90	17.63	23.78	9.42	4.50	3.70	2.76	2.12		
13	3.30	8.58	26.72	27.14	6.78	15.29	21.54	9.06	4.50	3.40	2.67	2.05		
14	2.58	7.50	18.28	31.95	6.30	15.81	18.54	8.70	4.40	3.21	2.67	2.05		
15	2.19	20.88	18.15	36.45	6.10	31.06	23.36	8.46	4.30	3.21	2.76	2.05		
16	2.40	20.75	18.80	28.40	9.90	15.29	37.20	8.34	4.20	3.30	2.67	2.05		
17	3.30	14.25	37.20	21.14	8.94	16.72	38.25	7.98	4.20	3.30	2.67	1.98		
18	3.03	14.38	24.20	17.63	8.10	16.20	31.65	9.42	4.10	3.12	2.67	2.05		
19	2.85	10.50	18.54	16.07	6.66	14.12	24.06	8.34	4.10	3.03	2.58	2.05		
20	2.67	30.64	15.29	13.60	6.00	13.47	29.66	7.98	4.00	3.03	2.58	1.98		
21	2.49	48.60	13.60	12.18	5.90	11.70	27.28	7.14	4.00	3.12	2.49	2.05		
22	2.40	52.28	12.18	15.29	6.10	11.46	26.58	6.90	3.90	3.12	2.40	1.98		
23	2.33	29.80	10.14	13.86	6.00	19.58	24.06	6.66	3.80	3.12	2.40	1.98		
24	2.26	14.77	11.58	11.22	8.94	17.37	40.20	6.54	3.80	3.40	2.40	1.98		
25	2.26	15.81	11.34	10.02	10.02	15.42	26.30	6.54	3.60	3.70	2.40	1.91		
26	3.90	15.03	9.42	11.70	8.34	32.85	22.66	6.30	3.60	3.50	2.40	1.84		
27	10.98	12.18	8.70	10.38	7.50	38.25	26.72	6.10	3.50	3.30	2.40	1.84		
28	9.42	10.38	7.86	9.54	8.34	45.00	22.24	6.00	3.60	3.21	2.40	1.91		
29	11.46	9.90	7.14	13.34	7.86	46.36	19.71	5.90	3.60	3.30		1.91		
30	8.94	33.60	6.78	8.70	10.38	36.00	18.15	5.70	3.70	3.30		1.91		
31		35.10		8.46	10.14		16.85		3.60	3.12		1.84		
Total	113.98	453.96	471.72	482.68	253.18	625.50	861.18	275.69	134.50	108.19	76.83	63.69	3921.10	CMSDAY
Mean	3.80	14.64	15.72	15.57	8.17	20.85	27.78	9.19	4.34	3.49	2.74	2.05	10.74	CMS
Max	11.46	52.28	37.20	36.45	11.46	46.36	44.55	15.68	5.50	5.80	3.21	2.40	52.28	CMS
Min	2.19	2.58	6.78	8.34	5.90	10.38	16.85	5.70	3.50	3.03	2.40	1.84	1.84	CMS
Runoff	9.85	39.22	40.76	41.70	21.88	54.04	74.41	23.82	11.62	9.35	6.64	5.50	338.78	MCM
Momentary Peak	54.13 CMS. at 187.19 m. (MSL.) at 06.00 Hours , on May 22 , 2009													
Runoff Yield	11.06 Liters/Second/Square KM.			Momentary Peak Yield				55,747 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Nam Fua at Ban Nam Fua , Phitsanulok (N.58)

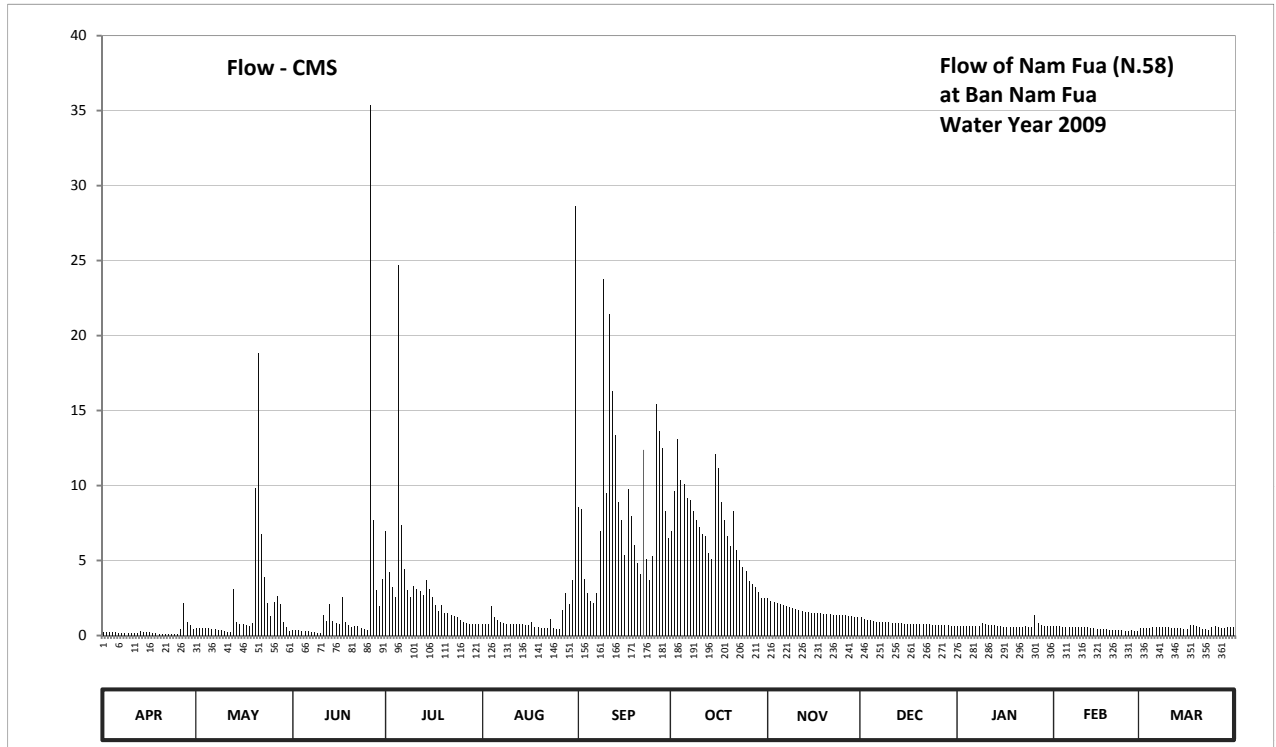
Lat 17 - 08 - 45 N Long 100 - 56 - 04 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

	Ban	Nam Fua	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	317	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+208.360 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 16 meters from the top staff gage.				Elevation	+214.931 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 means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 15 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.08	209.17	209.12	210.04	209.26	210.17	210.04	209.56	209.36	209.22	209.22	209.17	
2	209.08	209.17	209.12	209.78	209.26	210.16	210.26	209.54	209.34	209.22	209.22	209.17	
3	209.07	209.17	209.12	209.65	209.25	209.72	210.52	209.53	209.32	209.22	209.21	209.17	
4	209.07	209.16	209.11	209.57	209.49	209.60	210.32	209.52	209.32	209.22	209.20	209.17	
5	209.07	209.16	209.10	211.23	209.36	209.54	210.30	209.51	209.31	209.22	209.20	209.18	
6	209.06	209.15	209.10	210.07	209.32	209.52	210.22	209.50	209.30	209.22	209.20	209.18	
7	209.06	209.14	209.08	209.80	209.30	209.60	210.21	209.49	209.30	209.22	209.19	209.18	
8	209.06	209.12	209.08	209.63	209.28	210.04	210.15	209.48	209.29	209.22	209.19	209.18	
9	209.06	209.12	209.06	209.57	209.26	211.18	210.10	209.47	209.29	209.27	209.19	209.18	
10	209.06	209.10	209.06	209.66	209.25	210.25	210.06	209.46	209.29	209.25	209.18	209.18	
11	209.06	209.08	209.40	209.64	209.25	211.05	210.02	209.45	209.28	209.24	209.18	209.17	
12	209.06	209.08	209.31	209.62	209.25	210.74	210.01	209.44	209.28	209.24	209.18	209.17	
13	209.10	209.64	209.51	209.59	209.25	210.54	209.91	209.43	209.28	209.23	209.17	209.16	
14	209.08	209.29	209.31	209.71	209.25	210.20	209.87	209.43	209.27	209.22	209.16	209.16	
15	209.08	209.26	209.28	209.64	209.24	210.10	210.45	209.42	209.26	209.21	209.15	209.15	
16	209.07	209.26	209.26	209.57	209.24	209.90	210.38	209.42	209.26	209.20	209.15	209.15	
17	209.06	209.24	209.57	209.50	209.29	210.27	210.20	209.42	209.25	209.20	209.14	209.23	
18	209.06	209.22	209.30	209.44	209.19	210.12	210.10	209.42	209.25	209.19	209.14	209.23	
19	209.04	209.28	209.23	209.50	209.18	209.96	210.01	209.41	209.25	209.19	209.13	209.21	
20	209.04	210.28	209.20	209.42	209.16	209.84	209.95	209.41	209.25	209.19	209.13	209.18	
21	209.03	210.90	209.22	209.42	209.16	209.76	210.15	209.41	209.25	209.18	209.12	209.14	
22	209.03	210.02	209.21	209.40	209.16	210.47	209.93	209.40	209.25	209.18	209.12	209.14	
23	209.03	209.74	209.17	209.38	209.34	209.87	209.86	209.40	209.25	209.22	209.12	209.12	
24	209.03	209.52	209.14	209.36	209.17	209.71	209.82	209.40	209.24	209.20	209.11	209.18	
25	209.03	209.38	209.12	209.33	209.14	209.89	209.79	209.39	209.24	209.19	209.11	209.22	
26	209.14	209.53	211.79	209.30	209.14	210.68	209.70	209.39	209.24	209.39	209.13	209.19	
27	209.52	209.58	210.10	209.28	209.45	210.56	209.68	209.38	209.24	209.27	209.11	209.17	
28	209.30	209.51	209.63	209.26	209.60	210.48	209.65	209.38	209.24	209.24	209.11	209.17	
29	209.24	209.30	209.49	209.26	209.51	210.15	209.61	209.36	209.24	209.22		209.18	
30	209.15	209.20	209.72	209.26	209.71	210.00	209.56	209.36	209.22	209.22		209.18	
31		209.10		209.26	211.44		209.56		209.21	209.21		209.18	
Mean	209.09	209.38	209.36	209.59	209.36	210.14	210.01	209.44	209.27	209.22	209.16	209.18	
Max	209.52	210.90	211.79	211.23	211.44	211.18	210.52	209.56	209.36	209.39	209.22	209.23	211.79
Min	209.03	209.08	209.06	209.26	209.14	209.52	209.56	209.36	209.21	209.18	209.11	209.12	209.03
Annual Max Momentary Gage Height		213.12		m. (MSL.) ,									at 06.00 Hours , on Jun 26 , 2009
Zero Gage at Bottom Elevation		208.36		m. (MSL.) ,		River Bed	208.83		m. (MSL)				
Left Bank Elevation		214.94		m. (MSL.) ,									
Right Bank Elevation		214.90		m. (MSL.) ,		Drainage Area	317		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.51	0.36	6.98	0.78	8.54	6.98	2.48	1.20	0.66	0.66	0.51	
2	0.24	0.51	0.36	4.24	0.78	8.42	9.62	2.32	1.10	0.66	0.66	0.51	
3	0.21	0.51	0.36	3.20	0.75	3.76	13.08	2.24	1.00	0.66	0.63	0.51	
4	0.21	0.48	0.33	2.56	1.94	2.80	10.36	2.16	1.00	0.66	0.60	0.51	
5	0.21	0.48	0.30	24.67	1.20	2.32	10.10	2.08	0.95	0.66	0.60	0.54	
6	0.18	0.45	0.30	7.34	1.00	2.16	9.14	2.00	0.90	0.66	0.60	0.54	
7	0.18	0.42	0.24	4.40	0.90	2.80	9.02	1.94	0.90	0.66	0.57	0.54	
8	0.18	0.36	0.24	3.04	0.84	6.98	8.30	1.88	0.87	0.66	0.57	0.54	
9	0.18	0.36	0.18	2.56	0.78	23.74	7.70	1.82	0.87	0.81	0.57	0.54	
10	0.18	0.30	0.18	3.28	0.75	9.50	7.22	1.76	0.87	0.75	0.54	0.54	
11	0.18	0.24	1.40	3.12	0.75	21.40	6.74	1.70	0.84	0.72	0.54	0.51	
12	0.18	0.24	0.95	2.96	0.75	16.30	6.62	1.64	0.84	0.72	0.54	0.51	
13	0.30	3.12	2.08	2.72	0.75	13.36	5.51	1.58	0.84	0.69	0.51	0.48	
14	0.24	0.87	0.95	3.68	0.75	8.90	5.10	1.58	0.81	0.66	0.48	0.48	
15	0.24	0.78	0.84	3.12	0.72	7.70	12.10	1.52	0.78	0.63	0.45	0.45	
16	0.21	0.78	0.78	2.56	0.72	5.40	11.14	1.52	0.78	0.60	0.45	0.45	
17	0.18	0.72	2.56	2.00	0.87	9.74	8.90	1.52	0.75	0.60	0.42	0.69	
18	0.18	0.66	0.90	1.64	0.57	7.94	7.70	1.52	0.75	0.57	0.42	0.69	
19	0.12	0.84	0.69	2.00	0.54	6.06	6.62	1.46	0.75	0.57	0.39	0.63	
20	0.12	9.86	0.60	1.52	0.48	4.80	5.95	1.46	0.75	0.57	0.39	0.54	
21	0.09	18.80	0.66	1.52	0.48	4.08	8.30	1.46	0.75	0.54	0.36	0.42	
22	0.09	6.74	0.63	1.40	0.48	12.38	5.73	1.40	0.75	0.54	0.36	0.42	
23	0.09	3.92	0.51	1.30	1.10	5.10	5.00	1.40	0.75	0.66	0.36	0.36	
24	0.09	2.16	0.42	1.20	0.51	3.68	4.60	1.40	0.72	0.60	0.33	0.54	
25	0.09	1.30	0.36	1.05	0.42	5.30	4.32	1.35	0.72	0.57	0.33	0.66	
26	0.42	2.24	35.40	0.90	0.42	15.40	3.60	1.35	0.72	1.35	0.39	0.57	
27	2.16	2.64	7.70	0.84	1.70	13.64	3.44	1.30	0.72	0.81	0.33	0.51	
28	0.90	2.08	3.04	0.78	2.80	12.52	3.20	1.30	0.72	0.72	0.33	0.51	
29	0.72	0.90	1.94	0.78	2.08	8.30	2.88	1.20	0.72	0.66		0.54	
30	0.45	0.60	3.76	0.78	3.68	6.50	2.48	1.20	0.66	0.66		0.54	
31		0.30		0.78	28.66		2.48		0.63	0.63		0.54	
Total	9.06	64.17	69.02	98.92	58.95	259.52	213.93	49.54	25.41	20.91	13.38	16.32	899.13 CMSDAY
Mean	0.30	2.07	2.30	3.19	1.90	8.65	6.90	1.65	0.82	0.67	0.48	0.53	2.46 CMS
Max	2.16	18.80	35.40	24.67	28.66	23.74	13.08	2.48	1.20	1.35	0.66	0.69	35.40 CMS
Min	0.09	0.24	0.18	0.78	0.42	2.16	2.48	1.20	0.63	0.54	0.33	0.36	0.09 CMS
Runoff	0.78	5.54	5.96	8.55	5.09	22.42	18.48	4.28	2.20	1.81	1.16	1.41	77.69 MCM
Momentary Peak	67.22 CMS. at 213.12 m. (MSL.) at 06.00 Hours , on Jun 26 , 2009												
Runoff Yield	7.77 Liters/Second/Square KM.			Momentary Peak Yield			212.050 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Lam Nam Khan at Ban Na Chan , Phitsanulok (N.59)

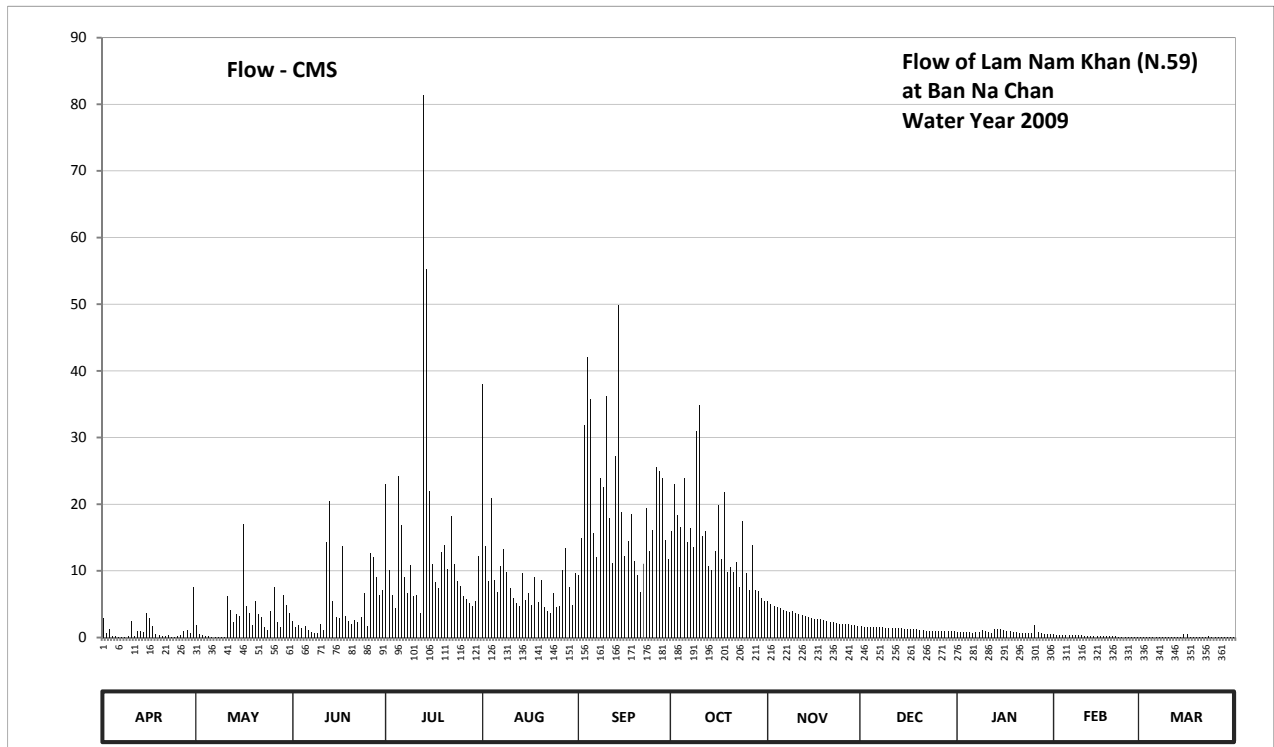
Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Chan.

	Ban Na Chan	Amphoe Nakhon Thai	Changwat Phitsanulok
Drainage Area	415 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+197.680 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 25 meters from the top staff gage.	Elevation	+206.935 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 means of 5 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +205.920 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	201.16	200.86	201.04	203.86	204.91	202.41	203.17	201.74	200.82	200.55	200.36	200.13	
2	200.44	200.40	200.81	202.51	202.93	203.06	203.86	201.65	200.81	200.54	200.35	200.13	
3	200.67	200.34	200.90	201.90	202.27	204.56	203.42	201.58	200.78	200.53	200.34	200.12	
4	200.25	200.26	200.76	201.53	203.67	205.10	203.24	201.55	200.78	200.52	200.33	200.11	
5	200.17	200.16	200.85	203.97	202.30	204.80	203.93	201.52	200.77	200.51	200.33	200.09	
6	200.11	200.10	200.64	203.26	202.00	203.14	203.00	201.47	200.77	200.50	200.32	200.07	
7	200.07	200.07	200.54	202.37	202.58	202.75	203.23	201.44	200.77	200.51	200.32	200.08	
8	200.03	200.04	200.48	201.98	202.89	203.93	202.92	201.41	200.77	200.55	200.30	200.08	
9	200.16	200.02	200.47	202.59	202.46	203.82	204.50	201.42	200.76	200.62	200.29	200.07	
10	201.06	200.05	200.91	201.89	202.11	204.82	204.74	201.37	200.76	200.56	200.27	200.08	
11	200.16	201.89	200.64	201.92	201.81	203.37	203.10	201.32	200.76	200.51	200.24	200.08	
12	200.57	201.47	203.00	201.36	201.67	202.64	203.18	201.28	200.75	200.49	200.22	200.07	
13	200.61	201.02	203.63	206.13	201.59	204.21	202.57	201.24	200.75	200.69	200.21	200.06	
14	200.55	201.31	201.73	205.59	202.44	205.41	202.51	201.20	200.73	200.67	200.20	200.05	
15	201.36	201.25	201.23	203.76	201.76	203.46	202.85	201.16	200.71	200.67	200.18	200.36	
16	201.16	203.28	201.19	202.61	201.98	202.77	203.57	201.14	200.69	200.63	200.17	200.43	
17	200.85	201.59	202.94	202.24	201.62	203.02	202.70	201.13	200.69	200.61	200.16	200.10	
18	200.43	201.35	201.25	202.10	202.36	203.43	203.74	201.12	200.68	200.59	200.16	200.08	
19	200.29	200.90	201.04	202.83	201.69	202.67	202.47	201.10	200.68	200.54	200.15	200.08	
20	200.24	201.73	200.93	202.95	202.30	202.41	202.55	201.04	200.65	200.51	200.16	200.07	
21	200.23	201.32	201.09	202.52	201.56	202.00	202.46	201.01	200.62	200.49	200.15	200.07	
22	200.27	201.21	201.02	203.41	201.43	202.62	202.66	200.99	200.60	200.44	200.14	200.07	
23	200.14	200.78	201.23	202.61	201.36	203.53	202.12	200.96	200.59	200.46	200.14	200.17	
24	200.05	200.65	201.97	202.26	201.99	202.86	203.33	200.94	200.59	200.46	200.14	200.05	
25	200.26	201.42	200.83	202.15	201.54	203.19	202.45	200.93	200.59	200.47	200.13	200.02	
26	200.35	202.12	202.81	201.88	201.59	204.08	202.06	200.92	200.58	200.86	200.14	200.12	
27	200.56	201.00	202.74	201.78	202.51	204.03	202.96	200.91	200.58	200.55	200.13	200.12	
28	200.66	200.79	202.37	201.67	202.91	203.93	202.06	200.88	200.57	200.45	200.13	200.11	
29	200.49	201.92	201.90	201.57	202.14	203.03	202.04	200.86	200.56	200.41		200.11	
30	202.14	201.60	202.06	201.72	201.62	202.70	201.83	200.83	200.58	200.40		200.11	
31		201.36		202.77	202.44		201.75		200.57	200.39		200.11	
Mean	200.52	201.04	201.43	202.64	202.21	203.46	202.93	201.20	200.69	200.54	200.22	200.11	
Max	202.14	203.28	203.63	206.13	204.91	205.41	204.74	201.74	200.82	200.86	200.36	200.43	206.13
Min	200.03	200.02	200.47	201.36	201.36	202.00	201.75	200.83	200.56	200.39	200.13	200.02	200.02
Annual Max Momentary Gage Height		206.56	m. (MSL.) ,				at 15.00 Hours , on Jul 13 , 2009						
Zero Gage at Bottom Elevation		197.68	m. (MSL.) ,			River Bed	198.84	m. (MSL)					
Left Bank Elevation			206.42	m. (MSL.) ,									
Right Bank Elevation		205.91	m. (MSL.) ,			Drainage Area	415	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.86	1.81	2.44	23.06	38.00	9.38	15.92	5.50	1.67	0.88	0.44	0.13	
2	0.60	0.50	1.63	10.18	13.67	14.87	23.06	5.05	1.63	0.85	0.43	0.13	
3	1.21	0.41	1.95	6.30	8.46	31.90	18.40	4.70	1.54	0.82	0.41	0.12	
4	0.28	0.29	1.48	4.45	20.97	42.00	16.60	4.55	1.54	0.80	0.40	0.11	
5	0.17	0.16	1.78	24.27	8.65	35.80	23.83	4.40	1.51	0.77	0.40	0.09	
6	0.11	0.10	1.12	16.80	6.80	15.63	14.30	4.15	1.51	0.75	0.38	0.07	
7	0.07	0.07	0.85	9.11	10.74	12.10	16.50	4.00	1.51	0.77	0.38	0.08	
8	0.03	0.04	0.70	6.70	13.31	23.83	13.58	3.85	1.51	0.88	0.35	0.08	
9	0.16	0.02	0.68	10.82	9.78	22.62	31.00	3.90	1.48	1.06	0.33	0.07	
10	2.51	0.05	1.99	6.25	7.46	36.20	34.81	3.68	1.48	0.90	0.31	0.08	
11	0.16	6.25	1.12	6.40	5.85	17.90	15.25	3.48	1.48	0.77	0.26	0.08	
12	0.93	4.15	14.30	3.64	5.15	11.22	16.01	3.32	1.45	0.73	0.23	0.07	
13	1.03	2.37	20.53	81.38	4.75	27.13	10.66	3.16	1.45	1.27	0.22	0.06	
14	0.88	3.44	5.45	55.30	9.62	49.90	10.18	3.00	1.39	1.21	0.20	0.05	
15	3.64	3.20	3.12	21.96	5.60	18.80	12.95	2.86	1.33	1.21	0.18	0.44	
16	2.86	17.00	2.97	10.98	6.70	12.26	19.90	2.79	1.27	1.09	0.17	0.57	
17	1.78	4.75	13.76	8.26	4.90	14.49	11.70	2.76	1.27	1.03	0.16	0.10	
18	0.57	3.60	3.20	7.40	9.04	18.50	21.74	2.72	1.24	0.97	0.16	0.08	
19	0.33	1.95	2.44	12.77	5.25	11.46	9.86	2.65	1.24	0.85	0.15	0.08	
20	0.26	5.45	2.05	13.85	8.65	9.38	10.50	2.44	1.15	0.77	0.16	0.07	
21	0.24	3.48	2.61	10.26	4.60	6.80	9.78	2.33	1.06	0.73	0.15	0.07	
22	0.31	3.04	2.37	18.30	3.95	11.06	11.38	2.27	1.00	0.60	0.14	0.07	
23	0.14	1.54	3.12	10.98	3.64	19.50	7.52	2.16	0.97	0.65	0.14	0.17	
24	0.05	1.15	6.65	8.39	6.75	13.04	17.50	2.09	0.97	0.65	0.14	0.05	
25	0.29	3.90	1.70	7.70	4.50	16.11	9.70	2.05	0.97	0.68	0.13	0.02	
26	0.43	7.52	12.59	6.20	4.75	25.56	7.16	2.02	0.95	1.81	0.14	0.12	
27	0.90	2.30	12.02	5.70	10.18	24.96	13.94	1.99	0.95	0.88	0.13	0.12	
28	1.18	1.57	9.11	5.15	13.49	23.83	7.16	1.88	0.93	0.63	0.13	0.11	
29	0.73	6.40	6.30	4.65	7.64	14.58	7.04	1.81	0.90	0.53		0.11	
30	7.64	4.80	7.16	5.40	4.90	11.70	5.95	1.70	0.95	0.50		0.11	
31		3.64		12.26	9.62		5.55		0.93	0.49		0.11	
Total	32.35	94.95	147.19	434.87	277.37	602.51	449.43	93.26	39.23	26.53	6.82	3.62	2208.13 CMSDAY
Mean	1.08	3.06	4.91	14.03	8.95	20.08	14.50	3.11	1.27	0.86	0.24	0.12	6.05 CMS
Max	7.64	17.00	20.53	81.38	38.00	49.90	34.81	5.50	1.67	1.81	0.44	0.57	81.38 CMS
Min	0.03	0.02	0.68	3.64	3.64	6.80	5.55	1.70	0.90	0.49	0.13	0.02	0.02 CMS
Runoff	2.80	8.20	12.72	37.57	23.97	52.06	38.83	8.06	3.39	2.29	0.59	0.31	190.78 MCM
Momentary Peak	118.08 CMS. at 206.56 m. (MSL.) at 15.00 Hours , on Jul 13 , 2009												
Runoff Yield	14.58 Liters/Second/Square KM.			Momentary Peak Yield 284.530 Liters/Second/Square KM.									

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Ban Hat Song Khwae , Uttaradit (N.60)

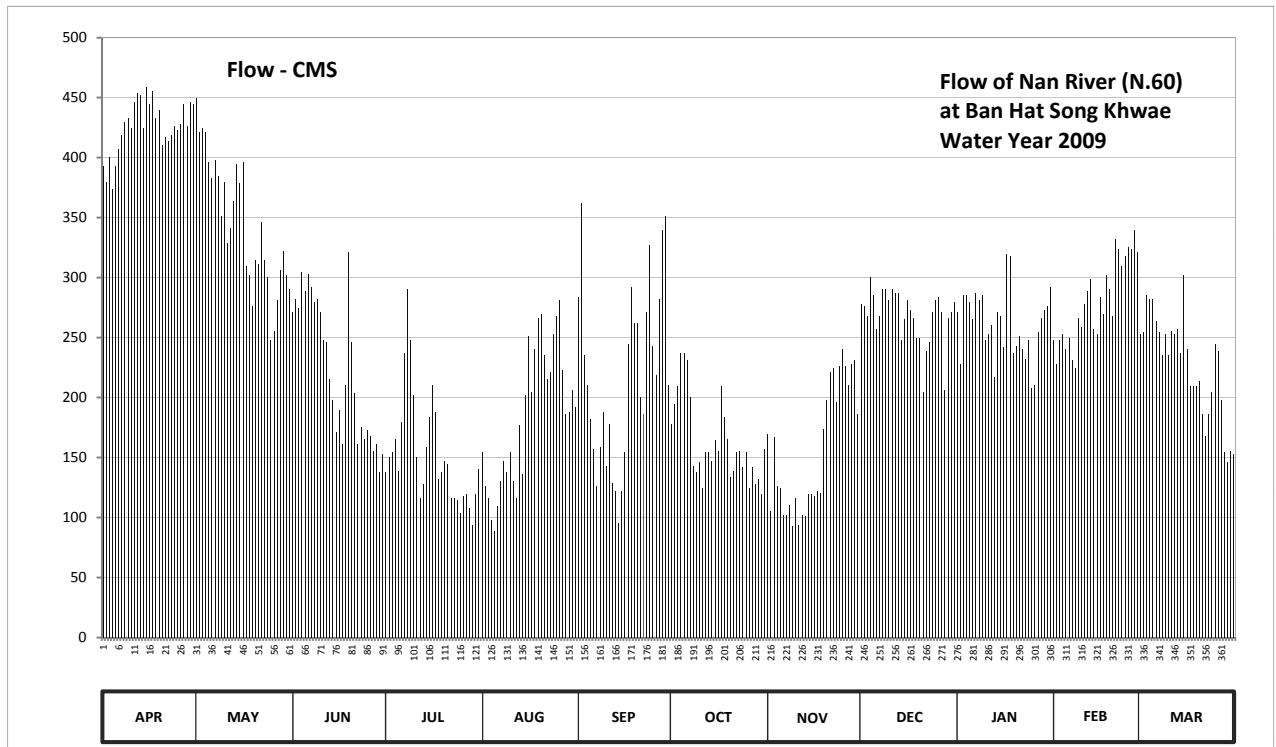
Lat 17 - 24 - 54 N Long 100 - 07 - 58 E

Location : on right bank about 1 kilometer downstream from Wat Hat Song Khwae.

	Ban	Hat Song Khwae	Amphoe	Tron	Changwat	Uttaradit
Drainage Area	18,447	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+48.500 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the Meteorological Station.				Elevation	+57.592 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Flow effected by Sirikit Dam reservoir. Stage-discharge relation defined by 34 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.38	51.73	50.62	49.71	49.83	50.70	50.00	49.94	50.66	50.62	50.47	50.50	
2	51.30	51.56	50.69	49.80	49.63	51.19	50.12	49.48	50.65	50.34	50.34	50.51	
3	51.43	51.58	50.64	49.83	49.56	50.39	50.22	49.92	50.60	50.71	50.47	50.71	
4	51.26	51.56	50.83	49.91	49.43	50.23	50.40	49.63	50.80	50.71	50.50	50.69	
5	51.38	51.40	50.73	49.72	49.36	50.03	50.40	49.62	50.71	50.67	50.42	50.69	
6	51.47	51.32	50.82	50.01	49.51	49.85	50.36	49.46	50.53	50.58	50.48	50.57	
7	51.54	51.41	50.75	50.40	49.66	49.63	50.16	49.46	50.60	50.72	50.36	50.51	
8	51.61	51.33	50.67	50.74	49.78	49.86	49.75	49.52	50.74	50.68	50.32	50.39	
9	51.63	51.12	50.69	50.47	49.71	50.07	49.71	49.39	50.74	50.71	50.59	50.50	
10	51.58	51.30	50.62	50.17	49.83	49.75	49.77	49.56	50.68	50.47	50.54	50.39	
11	51.71	50.98	50.47	49.80	49.66	50.00	49.62	49.40	50.74	50.50	50.66	50.52	
12	51.75	51.06	50.46	49.56	49.56	49.65	49.83	49.46	50.72	50.55	50.73	50.50	
13	51.74	51.20	50.26	49.64	49.99	49.60	49.83	49.45	50.72	50.27	50.79	50.53	
14	51.58	51.39	50.14	49.86	49.70	49.41	49.78	49.58	50.47	50.62	50.53	50.40	
15	51.78	51.29	49.95	50.04	50.17	49.60	49.90	49.58	50.58	50.60	50.50	50.81	
16	51.70	51.40	50.08	50.23	50.49	49.83	49.84	49.57	50.68	50.43	50.70	50.42	
17	51.76	50.86	49.88	50.07	50.19	50.45	50.22	49.60	50.63	50.92	50.61	50.22	
18	51.63	50.81	50.23	49.67	50.42	50.75	50.04	49.59	50.59	50.91	50.81	50.22	
19	51.67	50.65	50.93	49.71	50.59	50.56	49.91	49.97	50.48	50.40	50.74	50.22	
20	51.49	50.89	50.46	49.78	50.61	50.56	49.68	50.14	50.48	50.44	50.60	50.25	
21	51.53	50.87	50.18	49.76	50.39	50.16	49.72	50.30	50.19	50.49	51.00	50.06	
22	51.51	51.09	49.88	49.56	50.26	50.06	49.83	50.32	50.41	50.42	50.95	49.93	
23	51.54	50.89	49.98	49.56	50.30	50.62	49.84	50.13	50.46	50.37	50.86	50.06	
24	51.59	50.80	49.91	49.55	50.50	50.97	49.74	50.33	50.62	50.47	50.91	50.19	
25	51.57	50.47	49.96	49.47	50.60	50.44	49.83	50.42	50.68	50.21	50.96	50.45	
26	51.60	50.52	49.93	49.57	50.68	50.28	49.62	50.33	50.70	50.23	50.95	50.41	
27	51.70	50.68	49.84	49.58	50.31	50.69	49.74	50.23	50.62	50.51	51.05	50.14	
28	51.59	50.84	49.88	49.50	50.06	51.05	49.64	50.34	50.20	50.59	50.93	49.83	
29	51.71	50.94	49.71	49.40	50.07	51.12	49.67	50.36	50.59	50.63		49.77	
30	51.70	50.81	49.82	49.58	50.20	50.23	49.58	50.06	50.62	50.65		49.84	
31		50.74		49.73	50.10		49.85		50.67	50.75		49.82	
Mean	51.58	51.08	50.30	49.82	50.04	50.26	49.89	49.84	50.60	50.55	50.67	50.32	
Max	51.78	51.73	50.93	50.74	50.68	51.19	50.40	50.42	50.80	50.92	51.05	50.81	51.78
Min	51.26	50.47	49.71	49.40	49.36	49.41	49.58	49.39	50.19	50.21	50.32	49.77	49.36
Annual Max Momentary Gage Height	51.98		m. (MSL.) ,			at 15.00 Hours , on Apr 15 , 2009							
Zero Gage at Bottom Elevation	48.50		m. (MSL.) ,			River Bed	43.91	m. (MSL)					
Left Bank Elevation		59.24		m. (MSL.) ,									
Right Bank Elevation		58.73		m. (MSL.) ,		Drainage Area	18447	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	392.80	450.10	271.20	137.40	154.20	284.00	178.00	169.60	277.60	271.20	247.85	252.50	
2	380.00	421.60	282.40	150.00	126.20	362.40	194.80	105.20	276.00	227.70	227.70	254.05	
3	400.80	424.80	274.40	154.20	116.40	235.45	209.10	166.80	268.00	285.60	247.85	285.60	
4	373.60	421.60	304.80	165.40	98.20	210.65	237.00	126.20	300.00	285.60	252.50	282.40	
5	392.80	396.00	288.80	138.80	88.80	182.20	237.00	124.80	285.60	279.20	240.10	282.40	
6	407.20	383.20	303.20	179.40	109.40	157.00	230.80	102.40	257.15	264.90	249.40	263.35	
7	418.40	397.60	292.00	237.00	130.40	126.20	200.40	102.40	268.00	287.20	230.80	254.05	
8	429.70	384.80	279.20	290.40	147.20	158.40	143.00	110.80	290.40	280.80	224.60	235.45	
9	433.10	351.20	282.40	247.85	137.40	187.80	137.40	92.70	290.40	285.60	266.45	252.50	
10	424.80	380.00	271.20	201.80	154.20	143.00	145.80	116.40	280.80	247.85	258.70	235.45	
11	446.70	328.80	247.85	150.00	130.40	178.00	124.80	94.00	290.40	252.50	277.60	255.60	
12	453.50	341.60	246.30	116.40	116.40	129.00	154.20	102.40	287.20	260.25	288.80	252.50	
13	451.80	364.00	215.30	127.60	176.60	122.00	154.20	101.00	287.20	216.85	298.40	257.15	
14	424.80	394.40	197.60	158.40	136.00	95.40	147.20	119.20	247.85	271.20	257.15	237.00	
15	458.60	378.40	171.00	183.60	201.80	122.00	164.00	119.20	264.90	268.00	252.50	301.60	
16	445.00	396.00	189.20	210.65	250.95	154.20	155.60	117.80	280.80	241.65	284.00	240.10	
17	455.20	309.60	161.20	187.80	204.60	244.75	209.10	122.00	272.80	319.20	269.60	209.10	
18	433.10	301.60	210.65	131.80	240.10	292.00	183.60	120.60	266.45	317.60	301.60	209.10	
19	439.90	276.00	320.80	137.40	266.45	261.80	165.40	173.80	249.40	237.00	290.40	209.10	
20	410.40	314.40	246.30	147.20	269.60	261.80	133.20	197.60	249.40	243.20	268.00	213.75	
21	416.80	311.20	203.20	144.40	235.45	200.40	138.80	221.50	204.60	250.95	332.00	186.40	
22	413.60	346.40	161.20	116.40	215.30	186.40	154.20	224.60	238.55	240.10	324.00	168.20	
23	418.40	314.40	175.20	116.40	221.50	271.20	155.60	196.20	246.30	232.35	309.60	186.40	
24	426.40	300.00	165.40	115.00	252.50	327.20	141.60	226.15	271.20	247.85	317.60	204.60	
25	423.20	247.85	172.40	103.80	268.00	243.20	154.20	240.10	280.80	207.55	325.60	244.75	
26	428.00	255.60	168.20	117.80	280.80	218.40	124.80	226.15	284.00	210.65	324.00	238.55	
27	445.00	280.80	155.60	119.20	223.05	282.40	141.60	210.65	271.20	254.05	340.00	197.60	
28	426.40	306.40	161.20	108.00	186.40	340.00	127.60	227.70	206.00	266.45	320.80	154.20	
29	446.70	322.40	137.40	94.00	187.80	351.20	131.80	230.80	266.45	272.80		145.80	
30	445.00	301.60	152.80	119.20	206.00	210.65	119.20	186.40	271.20	276.00		155.60	
31		290.40		140.20	192.00		157.00		279.20	292.00		152.80	
Total	12761.70	10692.75	6708.40	4747.50	5724.10	6539.10	5051.00	4675.15	8309.85	8093.85	7827.60	7017.65	88148.66 CMSDAY
Mean	425.39	344.93	223.61	153.15	184.65	217.97	162.94	155.84	268.06	261.09	279.56	226.38	241.50 CMS
Max	458.60	450.10	320.80	290.40	280.80	362.40	237.00	240.10	300.00	319.20	340.00	301.60	458.60 CMS
Min	373.60	247.85	137.40	94.00	88.80	95.40	119.20	92.70	204.60	207.55	224.60	145.80	88.80 CMS
Runoff	1102.61	923.85	579.61	410.18	494.56	564.98	436.41	403.93	717.97	699.31	676.31	606.33	7616.04 MCM
Momentary Peak	492.60 CMS. at 51.98 m. (MSL) at 15.00 Hours , on Apr 15 , 2009												
Runoff Yield	13.09 Liters/Second/Square KM.			Momentary Peak Yield				26.704 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Huai Nam Khlung at Ban Huai Tha Nua , Phitsanulok (N.62)

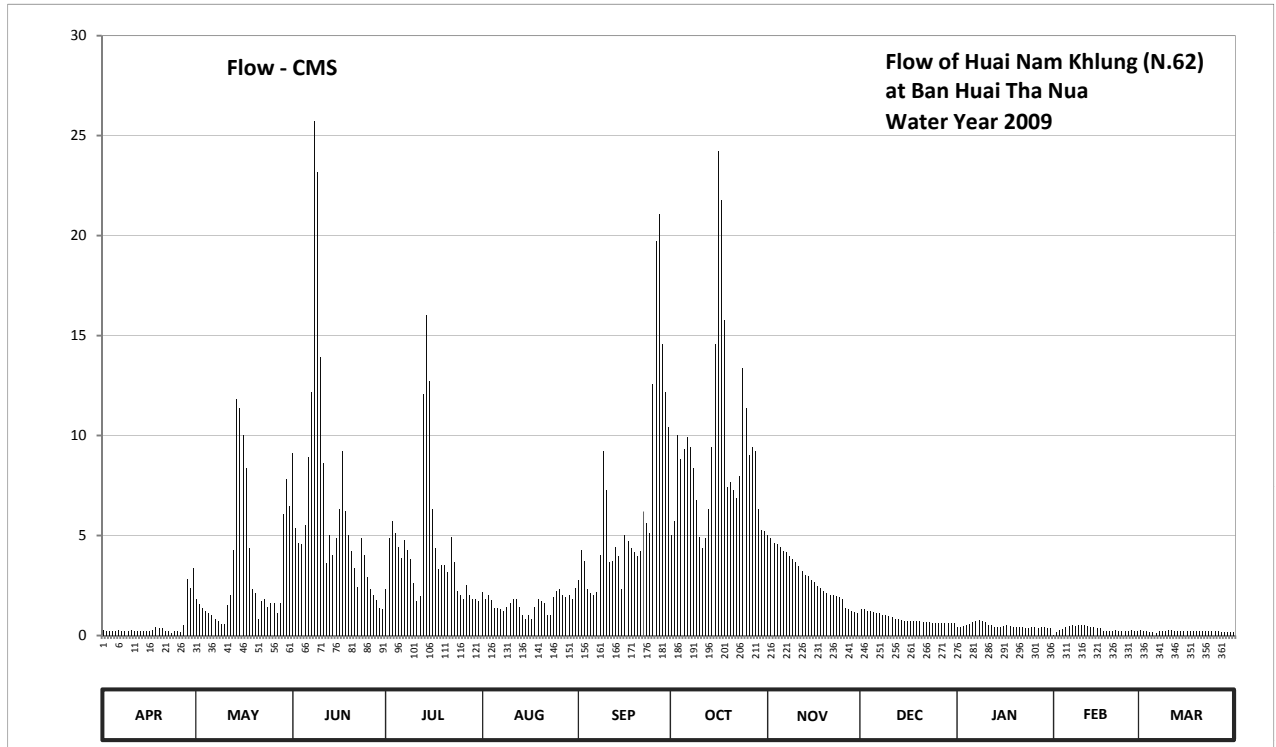
Lat 17 - 14 - 24 N Long 100 - 33 - 18 E

Location : on left bank at Ban Huai Tha Nua.

	Ban	Huai Tha Nua	Amphoe	Chat Trakan	Changwat	Phitsanulok
Drainage Area	353	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+190.310 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 60 meters from the top staff gage.				Elevation	+200.077 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 means of 5 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.91	191.30	192.26	191.40	191.37	191.48	191.80	191.81	191.20	190.96	190.81	190.91	
2	190.90	191.25	191.89	191.78	191.31	191.70	191.98	191.78	191.20	190.96	190.87	190.90	
3	190.89	191.21	191.75	191.98	191.35	191.62	192.35	191.75	191.19	190.99	190.91	190.89	
4	190.90	191.18	191.74	191.83	191.29	191.40	192.23	191.74	191.18	191.01	190.92	190.87	
5	190.90	191.16	191.93	191.72	191.21	191.36	192.28	191.72	191.17	191.02	190.96	190.86	
6	190.91	191.14	192.24	191.64	191.21	191.35	192.34	191.69	191.16	191.06	190.99	190.85	
7	190.89	191.10	192.55	191.77	191.20	191.37	192.29	191.68	191.16	191.07	191.00	190.89	
8	190.89	191.07	193.57	191.70	191.19	191.66	192.19	191.65	191.15	191.09	190.99	190.90	
9	190.90	191.02	193.40	191.63	191.23	192.27	192.07	191.63	191.14	191.08	191.00	190.90	
10	190.91	191.03	192.71	191.45	191.27	192.11	191.79	191.61	191.13	191.06	191.00	190.91	
11	190.88	191.24	192.21	191.28	191.31	191.61	191.71	191.58	191.12	191.01	191.01	190.91	
12	190.88	191.35	191.60	191.33	191.30	191.62	191.78	191.55	191.11	191.00	190.99	190.90	
13	190.89	191.70	191.81	192.54	191.23	191.72	192.04	191.52	191.10	190.98	190.96	190.90	
14	190.90	192.52	191.66	192.87	191.15	191.65	192.29	191.51	191.09	190.96	190.96	190.90	
15	190.90	192.48	191.78	192.60	191.11	191.40	192.76	191.48	191.08	190.97	190.95	190.90	
16	190.90	192.35	192.04	192.04	191.15	191.80	193.47	191.46	191.08	190.99	190.95	190.89	
17	190.91	192.19	192.27	191.71	191.11	191.76	193.30	191.43	191.07	191.00	190.90	190.89	
18	190.96	191.71	192.03	191.56	191.23	191.71	192.85	191.41	191.07	190.99	190.88	190.89	
19	190.95	191.40	191.80	191.59	191.31	191.68	192.12	191.39	191.07	190.98	190.89	190.89	
20	190.94	191.36	191.69	191.59	191.28	191.65	192.14	191.36	191.07	190.97	190.90	190.89	
21	190.89	191.10	191.57	191.54	191.26	191.69	192.11	191.35	191.06	190.96	190.91	190.88	
22	190.89	191.28	191.42	191.79	191.15	192.03	192.08	191.34	191.06	190.96	190.90	190.88	
23	190.84	191.30	191.78	191.61	191.14	191.95	192.16	191.33	191.06	190.95	190.89	190.88	
24	190.90	191.22	191.66	191.39	191.32	191.83	192.66	191.32	191.05	190.95	190.90	190.88	
25	190.88	191.26	191.50	191.34	191.38	192.59	192.48	191.31	191.05	190.97	190.90	190.88	
26	190.87	191.27	191.40	191.30	191.40	193.15	192.25	191.21	191.05	190.96	190.91	190.88	
27	191.00	191.16	191.35	191.44	191.35	193.25	192.29	191.20	191.05	190.95	190.90	190.87	
28	191.49	191.26	191.29	191.35	191.32	192.76	192.27	191.19	191.04	190.96	190.90	190.87	
29	191.41	192.02	191.21	191.30	191.35	192.55	192.04	191.17	191.04	190.96		190.87	
30	191.57	192.15	191.20	191.31	191.31	192.39	191.87	191.16	191.04	190.95		190.87	
31		192.05		191.28	191.41		191.86		191.04	190.94		190.87	
Mean	190.96	191.48	191.91	191.67	191.26	191.90	192.25	191.48	191.10	190.99	190.93	190.89	
Max	191.57	192.52	193.57	192.87	191.41	193.25	193.47	191.81	191.20	191.09	191.01	190.91	193.57
Min	190.84	191.02	191.20	191.28	191.11	191.35	191.71	191.16	191.04	190.94	190.81	190.85	190.81
Annual Max Momentary Gage Height		193.61	m. (MSL.) ,		at 06.00 Hours , on Jun 8 , 2009								
Zero Gage at Bottom Elevation		190.31	m. (MSL.) ,		River Bed	190.67	m. (MSL)						
Left Bank Elevation			196.90	m. (MSL.) ,									
Right Bank Elevation		196.88	m. (MSL.) ,		Drainage Area	353	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	1.80	9.10	2.30	2.15	2.78	5.00	5.04	1.30	0.40	0.02	0.28	
2	0.25	1.55	5.36	4.86	1.85	4.30	5.72	4.86	1.30	0.40	0.17	0.25	
3	0.22	1.35	4.65	5.72	2.05	3.74	10.00	4.65	1.25	0.48	0.28	0.22	
4	0.25	1.20	4.58	5.12	1.75	2.30	8.80	4.58	1.20	0.53	0.30	0.17	
5	0.25	1.10	5.52	4.44	1.35	2.10	9.30	4.44	1.15	0.56	0.40	0.15	
6	0.28	1.00	8.90	3.88	1.35	2.05	9.90	4.23	1.10	0.68	0.48	0.13	
7	0.22	0.80	12.15	4.79	1.30	2.15	9.40	4.16	1.10	0.71	0.50	0.22	
8	0.22	0.71	25.75	4.30	1.25	4.02	8.37	3.95	1.05	0.77	0.48	0.25	
9	0.25	0.56	23.20	3.81	1.45	9.20	6.75	3.81	1.00	0.74	0.50	0.25	
10	0.28	0.59	13.93	2.60	1.65	7.29	4.93	3.67	0.95	0.68	0.50	0.28	
11	0.20	1.50	8.60	1.70	1.85	3.67	4.37	3.46	0.90	0.53	0.53	0.28	
12	0.20	2.05	3.60	1.95	1.80	3.74	4.86	3.25	0.85	0.50	0.48	0.25	
13	0.22	4.30	5.04	12.04	1.45	4.44	6.34	3.04	0.80	0.45	0.40	0.25	
14	0.25	11.82	4.02	16.01	1.05	3.95	9.40	2.97	0.77	0.40	0.40	0.25	
15	0.25	11.38	4.86	12.70	0.85	2.30	14.58	2.78	0.74	0.43	0.37	0.25	
16	0.25	10.00	6.34	6.34	1.05	5.00	24.25	2.66	0.74	0.48	0.37	0.22	
17	0.28	8.37	9.20	4.37	0.85	4.72	21.80	2.48	0.71	0.50	0.25	0.22	
18	0.40	4.37	6.20	3.32	1.45	4.37	15.75	2.36	0.71	0.48	0.20	0.22	
19	0.37	2.30	5.00	3.53	1.85	4.16	7.42	2.25	0.71	0.45	0.22	0.22	
20	0.35	2.10	4.23	3.53	1.70	3.95	7.69	2.10	0.71	0.43	0.25	0.22	
21	0.22	0.80	3.39	3.18	1.60	4.23	7.29	2.05	0.68	0.40	0.28	0.20	
22	0.22	1.70	2.42	4.93	1.05	6.20	6.88	2.00	0.68	0.40	0.25	0.20	
23	0.10	1.80	4.86	3.67	1.00	5.60	7.96	1.95	0.68	0.37	0.22	0.20	
24	0.25	1.40	4.02	2.25	1.90	5.12	13.36	1.90	0.65	0.37	0.25	0.20	
25	0.20	1.60	2.90	2.00	2.20	12.59	11.38	1.85	0.65	0.43	0.25	0.20	
26	0.17	1.65	2.30	1.80	2.30	19.70	9.00	1.35	0.65	0.40	0.28	0.20	
27	0.50	1.10	2.05	2.54	2.05	21.10	9.40	1.30	0.65	0.37	0.25	0.17	
28	2.84	1.60	1.75	2.05	1.90	14.58	9.20	1.25	0.62	0.40	0.25	0.17	
29	2.36	6.07	1.35	1.80	2.05	12.15	6.34	1.15	0.62	0.40		0.17	
30	3.39	7.82	1.30	1.85	1.85	10.40	5.28	1.10	0.62	0.37		0.17	
31		6.48		1.70	2.36		5.24		0.62	0.35		0.17	
Total	15.52	100.87	196.57	135.08	50.31	191.90	285.96	86.64	26.16	14.86	9.13	6.63	1119.63 CMSDAY
Mean	0.52	3.25	6.55	4.36	1.62	6.40	9.22	2.89	0.84	0.48	0.33	0.21	3.07 CMS
Max	3.39	11.82	25.75	16.01	2.36	21.10	24.25	5.04	1.30	0.77	0.53	0.28	25.75 CMS
Min	0.10	0.56	1.30	1.70	0.85	2.05	4.37	1.10	0.62	0.35	0.02	0.13	0.02 CMS
Runoff	1.34	8.72	16.98	11.67	4.35	16.58	24.71	7.49	2.26	1.28	0.79	0.57	96.74 MCM
Momentary Peak	26.35 CMS. at 193.61 m. (MSL.) at 06.00 Hours , on Jun 8 , 2009												
Runoff Yield	8.69 Liters/Second/Square KM.			Momentary Peak Yield				74.646 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Ban Pha Khwang , Nan (N.64)

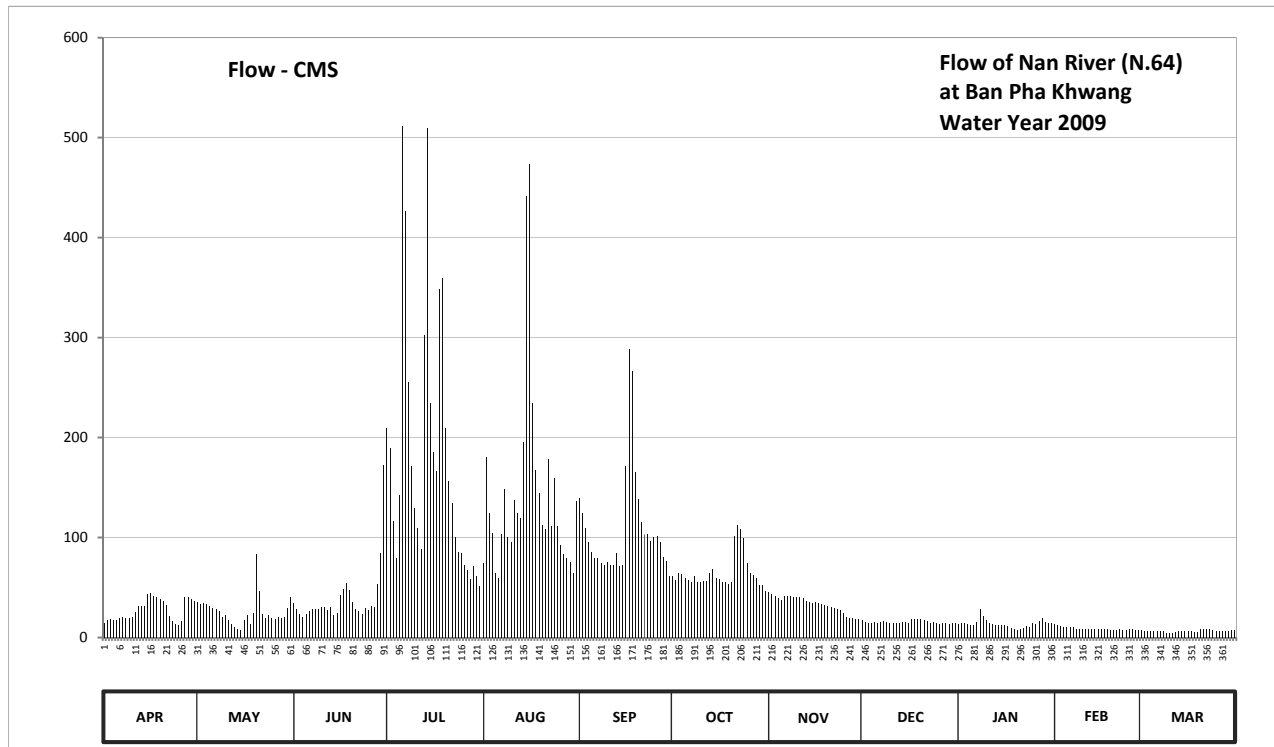
Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

Location : on right bank at the bridge on highway from Tambon Bo.

	Ban Pha Khwang	Amphoe Mueang	Changwat Nan
Drainage Area	3,476 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+210.900 m. (MSL.)		
Bench Mark	B.M.- Temporary.		
Location BM	On right bank at the approach of the bridge.	Elevation	+223.555 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	211.65	211.88	211.87	213.54	212.29	212.93	212.16	211.99	211.68	211.64	211.64	211.54	
2	211.68	211.86	211.80	213.37	213.29	212.80	212.12	211.97	211.66	211.65	211.63	211.53	
3	211.69	211.87	211.75	212.72	212.80	212.65	212.19	211.95	211.65	211.65	211.62	211.52	
4	211.68	211.86	211.72	212.34	212.59	212.50	212.18	211.93	211.65	211.64	211.60	211.53	
5	211.68	211.84	211.75	212.96	212.20	212.41	212.14	211.91	211.66	211.63	211.60	211.53	
6	211.70	211.82	211.78	216.01	212.14	212.34	212.12	211.95	211.65	211.63	211.60	211.53	
7	211.71	211.80	211.80	215.36	212.58	212.34	212.10	211.95	211.66	211.66	211.60	211.53	
8	211.70	211.78	211.80	213.94	213.01	212.29	212.16	211.95	211.67	211.80	211.58	211.53	
9	211.70	211.72	211.81	213.21	212.55	212.27	212.10	211.94	211.66	211.73	211.58	211.50	
10	211.72	211.74	211.83	212.84	212.50	212.30	212.10	211.94	211.65	211.68	211.58	211.50	
11	211.77	211.68	211.83	212.65	212.91	212.28	212.11	211.94	211.65	211.65	211.57	211.50	
12	211.84	211.64	211.79	212.44	212.80	212.27	212.11	211.93	211.65	211.64	211.57	211.51	
13	211.84	211.60	211.83	214.35	212.74	212.39	212.20	211.89	211.65	211.63	211.57	211.52	
14	211.84	211.56	211.74	216.00	213.42	212.26	212.24	211.88	211.66	211.63	211.56	211.52	
15	211.97	211.54	211.76	213.76	215.47	212.27	212.14	211.87	211.66	211.63	211.56	211.52	
16	211.98	211.68	211.96	213.33	215.72	213.21	212.13	211.88	211.65	211.63	211.56	211.52	
17	211.95	211.74	212.03	213.17	213.76	214.23	212.10	211.87	211.69	211.62	211.56	211.52	
18	211.94	211.64	212.09	214.75	213.18	214.04	212.10	211.86	211.69	211.59	211.56	211.51	
19	211.92	211.76	212.02	214.84	212.98	213.16	212.08	211.85	211.69	211.58	211.55	211.51	
20	211.90	212.38	211.88	213.54	212.67	212.92	212.10	211.84	211.69	211.55	211.55	211.56	
21	211.85	212.00	211.81	213.08	212.64	212.70	212.57	211.83	211.68	211.58	211.55	211.58	
22	211.73	211.75	211.78	212.89	213.27	212.58	212.68	211.82	211.67	211.59	211.57	211.56	
23	211.67	211.70	211.75	212.55	212.66	212.58	212.63	211.80	211.65	211.62	211.55	211.56	
24	211.64	211.74	211.82	212.41	213.11	212.52	212.54	211.79	211.66	211.61	211.55	211.54	
25	211.63	211.70	211.79	212.39	212.66	212.56	212.29	211.76	211.65	211.65	211.56	211.52	
26	211.67	211.69	211.84	212.28	212.47	212.57	212.20	211.72	211.64	211.64	211.56	211.52	
27	211.94	211.72	211.83	212.22	212.38	212.50	212.17	211.70	211.65	211.67	211.55	211.52	
28	211.94	211.70	212.08	212.13	212.34	212.35	212.14	211.70	211.65	211.70	211.54	211.52	
29	211.92	211.72	212.40	212.26	212.30	212.31	212.07	211.69	211.64	211.66		211.52	
30	211.90	211.82	213.22	212.16	212.20	212.16	212.07	211.69	211.65	211.65		211.55	
31		211.94		212.06	212.90		212.00		211.65	211.65		211.55	
Mean	211.79	211.77	211.91	213.28	212.92	212.62	212.19	211.86	211.66	211.64	211.57	211.53	
Max	211.98	212.38	213.22	216.01	215.72	214.23	212.68	211.99	211.69	211.80	211.64	211.58	216.01
Min	211.63	211.54	211.72	212.06	212.14	212.16	212.00	211.69	211.64	211.55	211.54	211.50	211.50
Annual Max Momentary Gage Height		217.76		m. (MSL.) ,			at 01.00 Hours , on Jul 14 , 2009						
Zero Gage at Bottom Elevation		210.90		m. (MSL.) ,		River Bed	210.87		m. (MSL)				
Left Bank Elevation		226.43		m. (MSL.) ,									
Right Bank Elevation		224.10		m. (MSL.) ,		Drainage Area	3476		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.50	35.20	34.30	209.10	74.00	139.30	61.20	45.10	17.20	13.60	13.60	7.00		
2	17.20	33.40	28.00	189.55	180.35	125.00	57.40	43.30	15.40	14.50	12.70	6.50		
3	18.10	34.30	23.50	117.00	125.00	110.00	64.05	41.50	14.50	14.50	11.80	6.00		
4	17.20	33.40	20.80	79.00	104.00	95.00	63.10	39.70	14.50	13.60	10.00	6.50		
5	17.20	31.60	23.50	142.60	65.00	86.00	59.30	37.90	15.40	12.70	10.00	6.50		
6	19.00	29.80	26.20	511.30	59.30	79.00	57.40	41.50	14.50	12.70	10.00	6.50		
7	19.90	28.00	28.00	426.80	103.00	79.00	55.50	41.50	15.40	15.40	10.00	6.50		
8	19.00	26.20	28.00	255.10	148.15	74.00	61.20	41.50	16.30	28.00	9.00	6.50		
9	19.00	20.80	28.90	171.15	100.00	72.00	55.50	40.60	15.40	21.70	9.00	5.00		
10	20.80	22.60	30.70	129.40	95.00	75.00	55.50	40.60	14.50	17.20	9.00	5.00		
11	25.30	17.20	30.70	110.00	137.10	73.00	56.45	40.60	14.50	14.50	8.50	5.00		
12	31.60	13.60	27.10	89.00	125.00	72.00	56.45	39.70	14.50	13.60	8.50	5.50		
13	31.60	10.00	30.70	302.25	119.00	84.00	65.00	36.10	14.50	12.70	8.50	6.00		
14	31.60	8.00	22.60	510.00	195.30	71.00	69.00	35.20	15.40	12.70	8.00	6.00		
15	43.30	7.00	24.40	234.40	441.10	72.00	59.30	34.30	15.40	12.70	8.00	6.00		
16	44.20	17.20	42.40	184.95	473.60	171.15	58.35	35.20	14.50	12.70	8.00	6.00		
17	41.50	22.60	48.85	166.55	234.40	288.45	55.50	34.30	18.10	11.80	8.00	6.00		
18	40.60	13.60	54.55	348.25	167.70	266.60	55.50	33.40	18.10	9.50	8.00	5.50		
19	38.80	24.40	47.90	359.20	144.80	165.40	53.60	32.50	18.10	9.00	7.50	5.50		
20	37.00	83.00	35.20	209.10	112.00	138.20	55.50	31.60	18.10	7.50	7.50	8.00		
21	32.50	46.00	28.90	156.20	109.00	115.00	102.00	30.70	17.20	9.00	7.50	9.00		
22	21.70	23.50	26.20	134.90	178.05	103.00	113.00	29.80	16.30	9.50	8.50	8.00		
23	16.30	19.00	23.50	100.00	111.00	103.00	108.00	28.00	14.50	11.80	7.50	8.00		
24	13.60	22.60	29.80	86.00	159.65	97.00	99.00	27.10	15.40	10.90	7.50	7.00		
25	12.70	19.00	27.10	84.00	111.00	101.00	74.00	24.40	14.50	14.50	8.00	6.00		
26	16.30	18.10	31.60	73.00	92.00	102.00	65.00	20.80	13.60	13.60	8.00	6.00		
27	40.60	20.80	30.70	67.00	83.00	95.00	62.15	19.00	14.50	16.30	7.50	6.00		
28	40.60	19.00	53.60	58.35	79.00	80.00	59.30	19.00	14.50	19.00	7.00	6.00		
29	38.80	20.80	85.00	71.00	75.00	76.00	52.65	18.10	13.60	15.40		6.00		
30	37.00	29.80	172.30	61.20	65.00	61.20	52.65	18.10	14.50	14.50		7.50		
31		40.60		51.70	136.00		46.00		14.50	14.50		7.50		
Total	817.50	791.10	1145.00	5688.05	4402.50	3269.30	2008.55	1001.10	477.40	429.60	247.10	198.50	20475.70	CMSDAY
Mean	27.25	25.52	38.17	183.49	142.02	108.98	64.79	33.37	15.40	13.86	8.82	6.40	56.10	CMS
Max	44.20	83.00	172.30	511.30	473.60	288.45	113.00	45.10	18.10	28.00	13.60	9.00	511.30	CMS
Min	12.70	7.00	20.80	51.70	59.30	61.20	46.00	18.10	13.60	7.50	7.00	5.00	5.00	CMS
Runoff	70.63	68.35	98.93	491.45	380.38	282.47	173.54	86.50	41.25	37.12	21.35	17.15	1769.10	MCM
Momentary Peak	738.80 CMS. at 217.76 m. (MSL.) at 01.00 Hours , on Jul 14 , 2009													
Runoff Yield	16.14 Liters/Second/Square KM.			Momentary Peak Yield			212.543 Liters/Second/Square KM.							

WATER YEAR : 2009

NAN RIVER BASIN

Nam Yao at Ban Pang Sa , Nan (N.65)

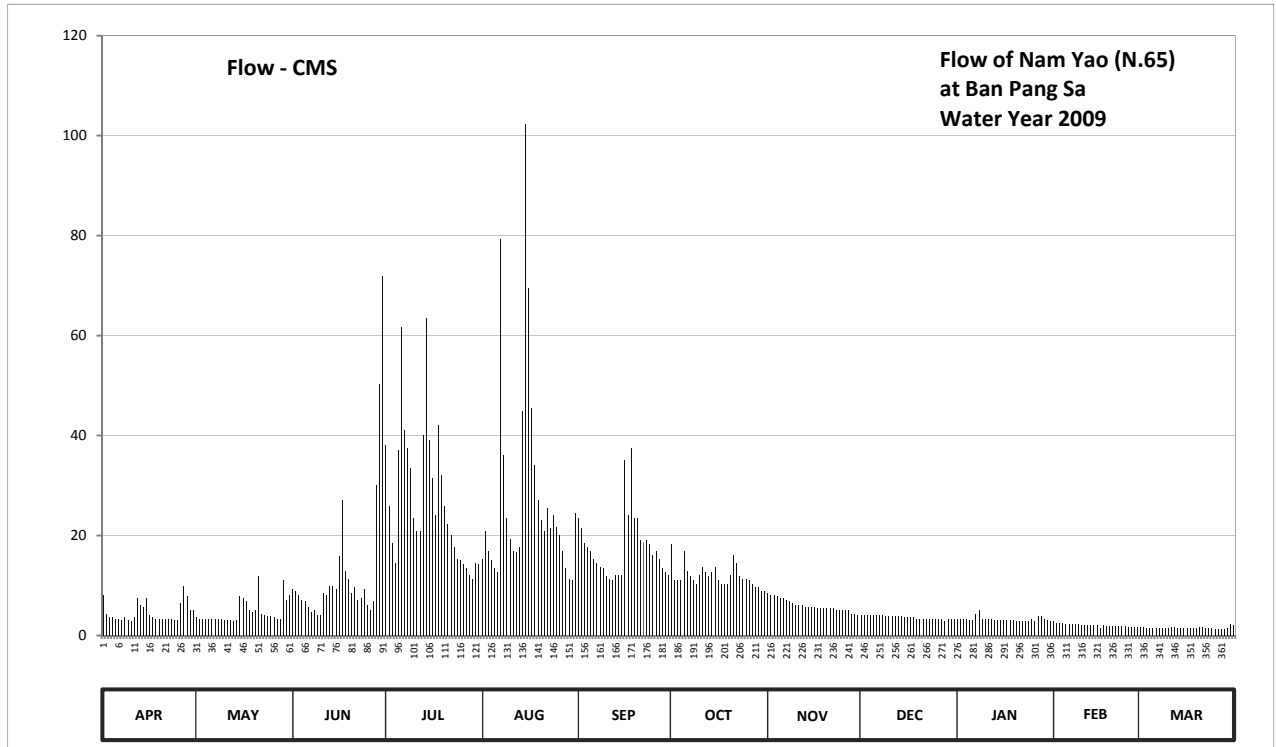
Lat 19 - 13 - 47 N Long 100 - 45 - 27 E

Location : on right bank at the bridge on highway.

	Ban	Pang Sa	Amphoe	Tha Wang Pha	Changwat	Nan
Drainage Area	621	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000 m. (A.D.)					
Bench Mark	B.M.- H.D.					
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+8.505 m. (A.D.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.78	0.95	1.60	1.11	1.31	1.18	0.93	0.80	0.76	0.74	0.68	
2	0.81	0.77	0.94	1.36	1.25	1.26	1.00	0.92	0.80	0.76	0.73	0.68	
3	0.78	0.77	0.92	1.19	1.15	1.19	1.00	0.92	0.80	0.76	0.73	0.67	
4	0.78	0.77	0.89	1.09	1.10	1.17	1.00	0.91	0.80	0.76	0.72	0.67	
5	0.77	0.77	0.88	1.58	1.06	1.15	1.15	0.90	0.80	0.75	0.71	0.67	
6	0.76	0.76	0.85	2.01	1.04	1.11	1.05	0.90	0.80	0.75	0.71	0.67	
7	0.75	0.76	0.82	1.66	2.29	1.09	1.02	0.89	0.80	0.81	0.71	0.67	
8	0.78	0.76	0.83	1.59	1.56	1.07	1.00	0.88	0.80	0.83	0.71	0.67	
9	0.75	0.76	0.80	1.51	1.31	1.06	0.98	0.87	0.79	0.77	0.71	0.67	
10	0.74	0.75	0.80	1.31	1.21	1.02	1.03	0.86	0.79	0.76	0.70	0.67	
11	0.78	0.75	0.93	1.25	1.15	1.01	1.07	0.86	0.79	0.76	0.70	0.68	
12	0.90	0.75	0.92	1.25	1.14	1.00	1.04	0.86	0.79	0.76	0.70	0.68	
13	0.86	0.74	0.97	1.64	1.17	1.03	1.02	0.85	0.79	0.75	0.70	0.67	
14	0.85	0.75	0.97	2.04	1.73	1.03	1.04	0.85	0.79	0.75	0.70	0.67	
15	0.90	0.91	0.95	1.62	2.61	1.03	1.07	0.85	0.78	0.75	0.70	0.67	
16	0.80	0.90	1.12	1.47	2.14	1.54	1.00	0.85	0.78	0.75	0.67	0.67	
17	0.78	0.88	1.38	1.32	1.74	1.32	0.98	0.84	0.78	0.75	0.70	0.67	
18	0.77	0.83	1.05	1.68	1.52	1.59	0.98	0.84	0.78	0.75	0.69	0.67	
19	0.77	0.82	1.01	1.48	1.38	1.31	0.98	0.84	0.77	0.75	0.69	0.67	
20	0.77	0.83	0.93	1.36	1.30	1.31	1.03	0.84	0.77	0.74	0.69	0.68	
21	0.76	1.02	0.96	1.28	1.25	1.20	1.13	0.84	0.77	0.74	0.69	0.68	
22	0.76	0.81	0.89	1.23	1.35	1.19	1.09	0.84	0.77	0.74	0.69	0.67	
23	0.76	0.80	0.90	1.17	1.26	1.20	1.02	0.83	0.77	0.74	0.69	0.67	
24	0.75	0.79	0.95	1.11	1.32	1.18	1.01	0.83	0.77	0.74	0.69	0.66	
25	0.75	0.79	0.86	1.10	1.27	1.13	1.01	0.83	0.77	0.76	0.68	0.65	
26	0.87	0.78	0.83	1.08	1.23	1.15	1.00	0.83	0.77	0.74	0.68	0.65	
27	0.97	0.77	0.88	1.06	1.15	1.11	0.98	0.83	0.77	0.79	0.68	0.65	
28	0.91	0.76	1.44	1.03	1.06	1.06	0.96	0.81	0.74	0.79	0.68	0.65	
29	0.83	1.00	1.82	1.01	1.01	1.04	0.96	0.81	0.77	0.76		0.67	
30	0.83	0.89	2.18	1.09	1.00	1.03	0.94	0.80	0.76	0.75		0.71	
31		0.92		1.08	1.33		0.94		0.76	0.74		0.70	
Mean	0.81	0.81	1.02	1.36	1.36	1.16	1.02	0.86	0.78	0.76	0.70	0.67	
Max	0.97	1.02	2.18	2.04	2.61	1.59	1.18	0.93	0.80	0.83	0.74	0.71	2.61
Min	0.74	0.74	0.80	1.01	1.00	1.00	0.94	0.80	0.74	0.74	0.67	0.65	0.65
Annual Max Momentary Gage Height	3.16		m. (A.D.) ,				at 12.00 Hours , on Jun 30 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	-0.14	m. (A.D.) ,					
Left Bank Elevation	7.85		m. (A.D.) ,										
Right Bank Elevation	7.82		m. (A.D.) ,			Drainage Area	621	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.20	3.60	9.25	38.00	15.40	23.50	18.20	8.55	4.00	3.20	2.80	1.70	
2	4.35	3.40	8.90	26.00	21.00	21.40	11.00	8.20	4.00	3.20	2.60	1.70	
3	3.60	3.40	8.20	18.60	17.00	18.60	11.00	8.20	4.00	3.20	2.60	1.55	
4	3.60	3.40	7.15	14.60	15.00	17.80	11.00	7.85	4.00	3.20	2.40	1.55	
5	3.40	3.40	6.80	37.00	13.40	17.00	17.00	7.50	4.00	3.00	2.20	1.55	
6	3.20	3.20	5.75	61.60	12.60	15.40	13.00	7.50	4.00	3.00	2.20	1.55	
7	3.00	3.20	4.70	41.00	79.30	14.60	11.80	7.15	4.00	4.35	2.20	1.55	
8	3.60	3.20	5.05	37.50	36.00	13.80	11.00	6.80	4.00	5.05	2.20	1.55	
9	3.00	3.20	4.00	33.50	23.50	13.40	10.30	6.45	3.80	3.40	2.20	1.55	
10	2.80	3.00	4.00	23.50	19.40	11.80	12.20	6.10	3.80	3.20	2.00	1.55	
11	3.60	3.00	8.55	21.00	17.00	11.40	13.80	6.10	3.80	3.20	2.00	1.70	
12	7.50	3.00	8.20	21.00	16.60	11.00	12.60	6.10	3.80	3.20	2.00	1.70	
13	6.10	2.80	9.95	40.00	17.80	12.20	11.80	5.75	3.80	3.00	2.00	1.55	
14	5.75	3.00	9.95	63.40	44.80	12.20	12.60	5.75	3.80	3.00	2.00	1.55	
15	7.50	7.85	9.25	39.00	102.25	12.20	13.80	5.75	3.60	3.00	2.00	1.55	
16	4.00	7.50	15.80	31.50	69.40	35.00	11.00	5.75	3.60	3.00	1.55	1.55	
17	3.60	6.80	27.00	24.00	45.40	24.00	10.30	5.40	3.60	3.00	2.00	1.55	
18	3.40	5.05	13.00	42.00	34.00	37.50	10.30	5.40	3.60	3.00	1.85	1.55	
19	3.40	4.70	11.40	32.00	27.00	23.50	10.30	5.40	3.40	3.00	1.85	1.55	
20	3.40	5.05	8.55	26.00	23.00	23.50	12.20	5.40	3.40	2.80	1.85	1.70	
21	3.20	11.80	9.60	22.20	21.00	19.00	16.20	5.40	3.40	2.80	1.85	1.70	
22	3.20	4.35	7.15	20.20	25.50	18.60	14.60	5.40	3.40	2.80	1.85	1.55	
23	3.20	4.00	7.50	17.80	21.40	19.00	11.80	5.05	3.40	2.80	1.85	1.55	
24	3.00	3.80	9.25	15.40	24.00	18.20	11.40	5.05	3.40	2.80	1.85	1.40	
25	3.00	3.80	6.10	15.00	21.80	16.20	11.40	5.05	3.40	3.20	1.70	1.25	
26	6.45	3.60	5.05	14.20	20.20	17.00	11.00	5.05	3.40	2.80	1.70	1.25	
27	9.95	3.40	6.80	13.40	17.00	15.40	10.30	5.05	3.40	3.80	1.70	1.25	
28	7.85	3.20	30.00	12.20	13.40	13.40	9.60	4.35	2.80	3.80	1.70	1.25	
29	5.05	11.00	50.20	11.40	11.40	12.60	9.60	4.35	3.40	3.20		1.55	
30	5.05	7.15	71.80	14.60	11.00	12.20	8.90	4.00	3.20	3.00		2.20	
31		8.20		14.20	24.50		8.90		3.20	2.80		2.00	
Total	136.95	146.05	388.90	841.80	861.05	531.40	368.90	179.85	112.40	98.80	56.70	48.70	3771.50 CMSDAY
Mean	4.56	4.71	12.96	27.15	27.78	17.71	11.90	6.00	3.63	3.19	2.02	1.57	10.33 CMS
Max	9.95	11.80	71.80	63.40	102.25	37.50	18.20	8.55	4.00	5.05	2.80	2.20	102.25 CMS
Min	2.80	2.80	4.00	11.40	11.00	11.00	8.90	4.00	2.80	2.80	1.55	1.25	1.25 CMS
Runoff	11.83	12.62	33.60	72.73	74.40	45.91	31.87	15.54	9.71	8.54	4.90	4.21	325.86 MCM
Momentary Peak	145.80 CMS. at 3.16 m. (A.D.) at 12.00 Hours , on Jun 30 , 2009												
Runoff Yield	16.64 Liters/Second/Square KM.			Momentary Peak Yield			34,783 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)

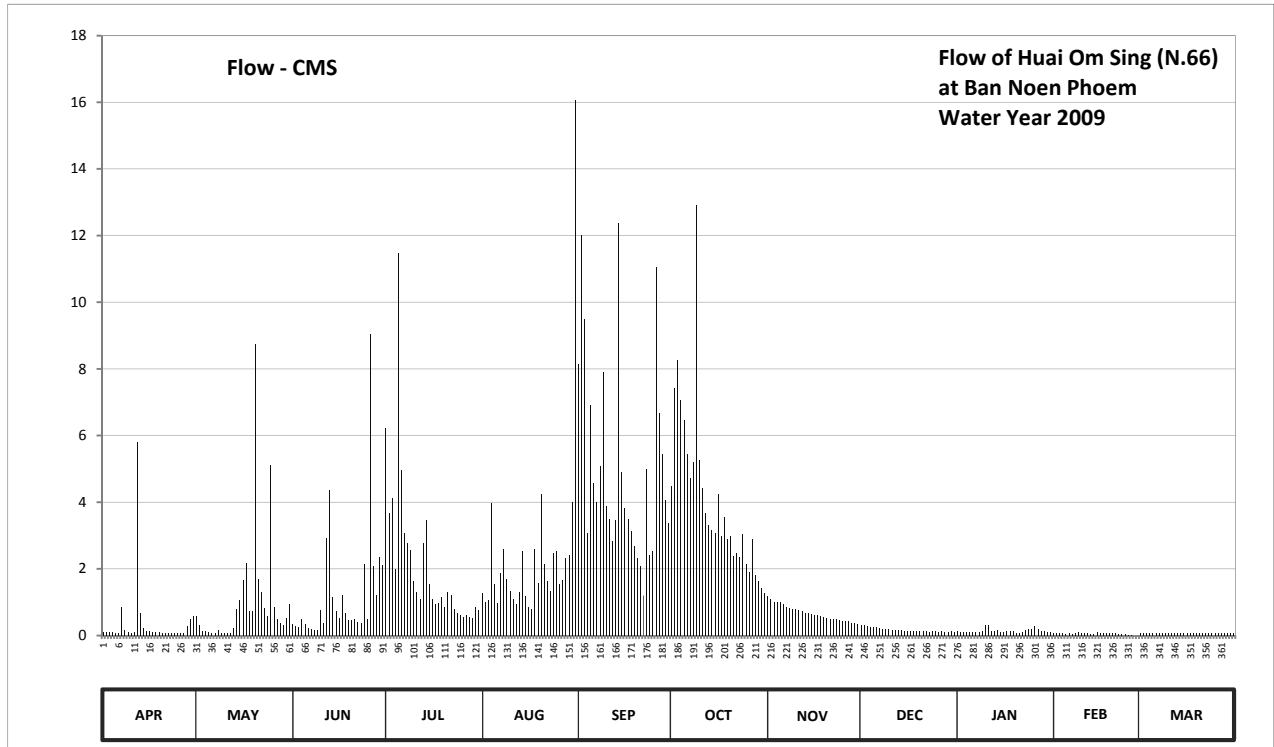
Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Noen Phoem.

	Ban	Noen Phoem	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	152	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+201.220 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	On right bank about 8 meters from the top staff gage.				Elevation	+208.617 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 means of 5 readings					
Period of Available Gage Records	1995 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	202.29	202.59	202.47	204.27	202.87	204.68	203.84	202.84	202.46	202.32	202.24	202.23	
2	202.28	202.46	202.44	203.61	202.78	205.20	204.53	202.81	202.46	202.31	202.23	202.22	
3	202.31	202.34	202.43	203.74	202.80	204.92	204.70	202.78	202.44	202.29	202.23	202.24	
4	202.29	202.32	202.55	203.11	203.70	203.43	204.45	202.78	202.43	202.29	202.22	202.24	
5	202.26	202.30	202.47	205.15	202.96	204.42	204.32	202.78	202.42	202.28	202.16	202.25	
6	202.22	202.25	202.41	203.96	202.77	203.86	204.08	202.75	202.42	202.27	202.22	202.21	
7	202.73	202.25	202.38	203.43	203.07	203.71	203.90	202.72	202.41	202.29	202.18	202.21	
8	202.37	202.36	202.37	203.34	203.29	203.99	204.02	202.71	202.40	202.31	202.22	202.21	
9	202.29	202.23	202.37	203.28	203.02	204.63	205.27	202.70	202.39	202.33	202.27	202.21	
10	202.24	202.23	202.68	202.99	202.90	203.67	204.04	202.69	202.38	202.46	202.26	202.21	
11	202.31	202.25	202.49	202.88	202.82	203.56	203.82	202.68	202.37	202.45	202.24	202.21	
12	204.17	202.24	203.39	202.81	202.76	203.36	203.61	202.66	202.37	202.34	202.22	202.21	
13	202.64	202.41	203.81	203.34	202.88	203.54	203.50	202.64	202.37	202.34	202.20	202.21	
14	202.41	202.70	202.83	203.54	203.27	205.23	203.46	202.63	202.37	202.36	202.18	202.21	
15	202.35	202.80	202.66	202.96	202.84	203.95	203.43	202.62	202.35	202.28	202.29	202.21	
16	202.33	203.00	202.56	202.81	202.73	203.65	203.78	202.60	202.35	202.27	202.25	202.21	
17	202.31	203.17	202.86	202.75	202.70	203.56	203.40	202.60	202.35	202.35	202.24	202.21	
18	202.29	202.66	202.63	202.77	203.29	203.45	203.57	202.59	202.34	202.35	202.24	202.21	
19	202.29	202.67	202.53	202.83	202.97	203.32	203.38	202.57	202.34	202.32	202.22	202.21	
20	202.26	204.80	202.53	202.73	203.78	203.21	203.40	202.56	202.33	202.25	202.21	202.21	
21	202.26	203.01	202.54	202.88	203.16	203.14	203.23	202.55	202.32	202.23	202.24	202.21	
22	202.24	202.88	202.50	202.85	202.99	202.85	203.25	202.54	202.33	202.30	202.19	202.21	
23	202.22	202.71	202.48	202.70	202.90	203.97	203.22	202.54	202.31	202.36	202.20	202.21	
24	202.22	202.59	203.16	202.63	203.25	203.24	203.42	202.53	202.32	202.39	202.16	202.21	
25	202.22	204.00	202.55	202.61	203.27	203.27	203.16	202.52	202.32	202.38	202.12	202.21	
26	202.26	202.73	204.85	202.58	202.96	205.11	203.08	202.51	202.31	202.44	202.12	202.21	
27	202.22	202.55	203.14	202.60	203.00	204.37	203.38	202.51	202.32	202.40	202.11	202.21	
28	202.44	202.48	202.86	202.58	203.21	204.08	203.06	202.49	202.30	202.35	202.11	202.21	
29	202.55	202.46	203.22	202.56	203.24	203.72	202.99	202.48	202.31	202.32		202.21	
30	202.59	202.56	203.15	202.72	203.71	203.52	202.92	202.47	202.32	202.31		202.21	
31		202.75		202.68	205.48		202.87		202.31	202.31		202.21	
Mean	202.40	202.67	202.78	203.09	203.14	203.89	203.65	202.63	202.36	202.33	202.21	202.21	
Max	204.17	204.80	204.85	205.15	205.48	205.23	205.27	202.84	202.46	202.46	202.29	202.25	205.48
Min	202.22	202.23	202.37	202.56	202.70	202.85	202.87	202.47	202.30	202.23	202.11	202.21	202.11
Annual Max Momentary Gage Height		206.02		m. (MSL.) ,				at 06.00 Hours , on Oct 9 , 2009					
Zero Gage at Bottom Elevation		201.22		m. (MSL.) ,		River Bed	202.21		m. (MSL)				
Left Bank Elevation		208.77		m. (MSL.) ,									
Right Bank Elevation		208.73		m. (MSL.) ,		Drainage Area	152		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.58	0.34	6.23	1.26	8.15	4.49	1.17	0.32	0.12	0.07	0.06	
2	0.09	0.32	0.28	3.68	1.00	12.00	7.42	1.08	0.32	0.11	0.06	0.06	
3	0.11	0.14	0.26	4.13	1.05	9.49	8.25	1.00	0.28	0.09	0.06	0.07	
4	0.09	0.12	0.50	1.98	3.99	3.07	7.05	1.00	0.26	0.09	0.06	0.07	
5	0.08	0.10	0.34	11.47	1.53	6.90	6.45	1.00	0.24	0.09	0.03	0.07	
6	0.06	0.07	0.22	4.95	0.98	4.56	5.43	0.93	0.24	0.09	0.06	0.06	
7	0.87	0.07	0.18	3.07	1.86	4.02	4.72	0.85	0.22	0.09	0.04	0.06	
8	0.17	0.16	0.17	2.77	2.60	5.07	5.19	0.83	0.20	0.11	0.06	0.06	
9	0.09	0.06	0.17	2.56	1.71	7.90	12.91	0.80	0.19	0.13	0.09	0.06	
10	0.07	0.06	0.76	1.62	1.35	3.89	5.27	0.78	0.18	0.32	0.08	0.06	
11	0.11	0.07	0.38	1.29	1.11	3.51	4.41	0.76	0.17	0.30	0.07	0.06	
12	5.79	0.07	2.94	1.08	0.95	2.83	3.68	0.72	0.17	0.14	0.06	0.06	
13	0.68	0.22	4.37	2.77	1.29	3.45	3.31	0.68	0.17	0.14	0.05	0.06	
14	0.22	0.80	1.14	3.45	2.53	12.39	3.17	0.66	0.17	0.16	0.04	0.06	
15	0.15	1.05	0.72	1.53	1.17	4.91	3.07	0.64	0.15	0.09	0.09	0.06	
16	0.13	1.65	0.52	1.08	0.87	3.82	4.26	0.60	0.15	0.09	0.07	0.06	
17	0.11	2.19	1.23	0.93	0.80	3.51	2.97	0.60	0.15	0.15	0.07	0.06	
18	0.09	0.72	0.66	0.98	2.60	3.14	3.55	0.58	0.14	0.15	0.07	0.06	
19	0.09	0.74	0.46	1.14	1.56	2.70	2.90	0.54	0.14	0.12	0.06	0.06	
20	0.08	8.75	0.46	0.87	4.26	2.32	2.97	0.52	0.13	0.07	0.06	0.06	
21	0.08	1.68	0.48	1.29	2.15	2.09	2.39	0.50	0.12	0.06	0.07	0.06	
22	0.07	1.29	0.40	1.20	1.62	1.20	2.46	0.48	0.13	0.10	0.04	0.06	
23	0.06	0.83	0.36	0.80	1.35	4.99	2.36	0.48	0.11	0.16	0.05	0.06	
24	0.06	0.58	2.15	0.66	2.46	2.43	3.04	0.46	0.12	0.19	0.03	0.06	
25	0.06	5.11	0.50	0.62	2.53	2.53	2.15	0.44	0.12	0.18	0.01	0.06	
26	0.08	0.87	9.05	0.56	1.53	11.05	1.89	0.42	0.11	0.28	0.01	0.06	
27	0.06	0.50	2.09	0.60	1.65	6.68	2.90	0.42	0.12	0.20	0.00	0.06	
28	0.28	0.36	1.23	0.56	2.32	5.43	1.83	0.38	0.10	0.15	0.00	0.06	
29	0.50	0.32	2.36	0.52	2.43	4.06	1.62	0.36	0.11	0.12		0.06	
30	0.58	0.52	2.12	0.85	4.02	3.38	1.41	0.34	0.12	0.11		0.06	
31		0.93		0.76	16.08		1.26		0.11	0.11		0.06	
Total	11.00	30.93	36.84	66.00	72.61	151.47	124.78	20.02	5.26	4.31	1.46	1.89	526.57 CMSDAY
Mean	0.37	1.00	1.23	2.13	2.34	5.05	4.03	0.67	0.17	0.14	0.05	0.06	1.44 CMS
Max	5.79	8.75	9.05	11.47	16.08	12.39	12.91	1.17	0.32	0.32	0.09	0.07	16.08 CMS
Min	0.06	0.06	0.17	0.52	0.80	1.20	1.26	0.34	0.10	0.06	0.00	0.06	0.00 CMS
Runoff	0.95	2.67	3.18	5.70	6.27	13.09	10.78	1.73	0.45	0.37	0.13	0.16	45.50 MCM
Momentary Peak	27.68 CMS. at 206.02 m. (MSL.) at 06.00 Hours , on Oct 9 , 2009												
Runoff Yield	9.49 Liters/Second/Square KM.			Momentary Peak Yield			182.105 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Ban Koei Chai, Nakhon Sawan (N.67)

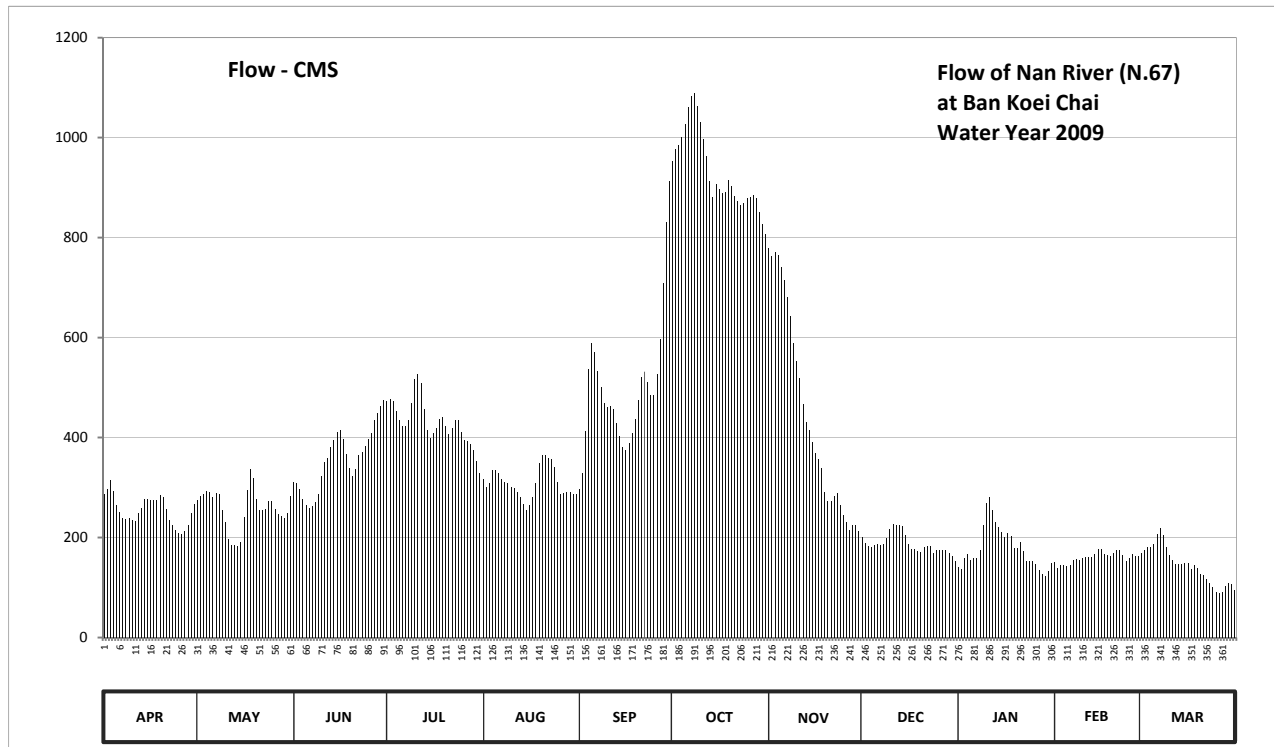
Lat 15 - 52 - 05 N Long 100 - 16 - 07 E

Location : on right bank at the bridge near Wat Koei Chai Nua

	Ban Koei Chai	Amphoe Chum Saeng	Changwat Nakhon Sawan
Drainage Area	57,384 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+13.120 m. (M.S.L.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage observe's house	Elevation	+27.470 m. (M.S.L.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 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. Flow effected by Mae Yom side flow. Stage-discharge relation defined by 27 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.25	21.14	21.47	22.75	21.51	21.34	25.95	24.85	20.40	19.76	19.86	20.06	
2	21.35	21.21	21.45	22.78	21.38	21.62	26.10	24.75	20.29	19.72	19.74	20.14	
3	21.49	21.26	21.34	22.75	21.45	22.30	26.15	24.81	20.22	19.96	19.80	20.20	
4	21.31	21.31	21.16	22.61	21.66	23.20	26.24	24.77	20.20	20.05	19.79	20.19	
5	21.06	21.29	21.04	22.47	21.67	23.57	26.40	24.60	20.25	19.92	19.78	20.27	
6	20.91	21.19	20.99	22.38	21.62	23.45	26.60	24.43	20.27	19.95	19.81	20.46	
7	20.79	21.27	21.03	22.37	21.52	23.18	26.73	24.21	20.24	19.96	19.91	20.59	
8	20.77	21.26	21.10	22.47	21.47	22.95	26.77	23.95	20.27	20.14	19.94	20.45	
9	20.78	20.95	21.26	22.72	21.44	22.72	26.61	23.58	20.39	20.64	19.92	20.19	
10	20.75	20.70	21.57	23.06	21.38	22.66	26.43	23.32	20.56	21.09	19.96	20.02	
11	20.74	20.37	21.79	23.14	21.36	22.68	26.22	23.07	20.67	21.19	19.97	19.91	
12	20.88	20.25	21.86	23.00	21.29	22.63	26.01	22.71	20.64	20.95	19.97	19.82	
13	20.99	20.25	22.05	22.63	21.19	22.42	25.69	22.43	20.65	20.71	19.98	19.82	
14	21.17	20.23	22.16	22.31	21.07	22.22	25.49	22.31	20.63	20.61	20.04	19.83	
15	21.17	20.30	22.29	22.19	20.94	22.05	25.66	22.13	20.45	20.52	20.16	19.84	
16	21.15	20.82	22.32	22.27	21.04	22.00	25.59	21.95	20.26	20.41	20.15	19.84	
17	21.14	21.33	22.17	22.34	21.20	22.11	25.55	21.85	20.15	20.49	20.04	19.71	
18	21.15	21.68	21.93	22.48	21.45	22.27	25.56	21.70	20.16	20.43	20.02	19.80	
19	21.23	21.53	21.70	22.51	21.78	22.49	25.71	21.30	20.11	20.17	19.99	19.73	
20	21.19	21.17	21.57	22.37	21.92	22.76	25.63	21.12	20.09	20.17	20.07	19.59	
21	20.96	20.94	21.68	22.25	21.91	23.09	25.51	21.12	20.19	20.31	20.13	19.55	
22	20.75	20.94	21.92	22.34	21.86	23.17	25.45	21.21	20.23	20.11	20.13	19.47	
23	20.65	20.97	21.96	22.46	21.84	23.02	25.40	21.28	20.22	19.88	20.03	19.35	
24	20.54	21.13	22.07	22.46	21.71	22.84	25.42	21.06	20.07	19.88	19.88	19.26	
25	20.48	21.12	22.17	22.28	21.46	22.83	25.48	20.85	20.14	19.89	19.96	19.12	
26	20.47	20.96	22.26	22.16	21.25	23.14	25.50	20.71	20.14	19.82	20.05	19.11	
27	20.53	20.86	22.47	22.14	21.27	23.64	25.52	20.54	20.13	19.69	19.99	19.13	
28	20.64	20.83	22.58	22.10	21.30	24.39	25.48	20.64	20.13	19.58	20.00	19.28	
29	20.90	20.79	22.67	21.99	21.29	25.18	25.31	20.64	20.07	19.54		19.37	
30	21.08	20.90	22.76	21.81	21.25	25.70	25.16	20.53	20.00	19.67		19.33	
31		21.21		21.61	21.26		25.03		19.88	19.84		19.18	
Mean	20.94	20.97	21.83	22.43	21.44	22.92	25.82	22.41	20.26	20.16	19.97	19.76	
Max	21.49	21.68	22.76	23.14	21.92	25.70	26.77	24.85	20.67	21.19	20.16	20.59	26.77
Min	20.47	20.23	20.99	21.61	20.94	21.34	25.03	20.53	19.88	19.54	19.74	19.11	19.11
Annual Max Momentary Gage Height	26.77		m. (MSL) ,			at 09.00 Hours , on Oct 8 , 2009							
Zero Gage at Bottom Elevation	13.12		m. (MSL) ,			River Bed	13.01	m. (MSL)					
Left Bank Elevation	28.55		m. (MSL) ,										
Right Bank Elevation	27.69		m. (MSL) ,			Drainage Area	57384	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	286.50	274.40	311.40	473.00	316.20	296.40	954.00	778.00	200.00	141.40	150.40	168.40		
2	297.50	282.10	309.00	477.20	300.80	329.40	978.00	762.50	189.10	137.80	139.60	175.60		
3	313.80	287.60	296.40	473.00	309.00	413.00	986.00	771.60	182.80	159.40	145.00	181.00		
4	293.10	293.10	276.60	453.40	334.20	536.00	1000.40	765.50	181.00	167.50	144.10	180.10		
5	266.00	290.90	264.00	435.10	335.40	587.80	1027.00	740.00	185.50	155.80	143.20	187.30		
6	251.00	279.90	259.00	423.40	329.40	571.00	1061.00	714.50	187.30	158.50	145.90	206.00		
7	239.00	288.70	263.00	422.10	317.40	533.20	1083.10	681.50	184.60	159.40	154.90	219.00		
8	237.00	287.60	270.00	435.10	311.40	501.00	1089.90	642.50	187.30	175.60	157.60	205.00		
9	238.00	255.00	287.60	468.80	307.80	468.80	1062.70	589.20	199.00	224.00	155.80	180.10		
10	235.00	230.00	323.40	516.40	300.80	460.40	1032.10	552.80	216.00	269.00	159.40	164.80		
11	234.00	197.00	349.80	527.60	298.60	463.20	997.20	517.80	227.00	279.90	160.30	154.90		
12	248.00	185.50	358.20	508.00	290.90	456.20	963.60	467.40	224.00	255.00	160.30	146.80		
13	259.00	185.50	381.00	456.20	279.90	428.60	912.40	429.90	225.00	231.00	161.20	146.80		
14	277.70	183.70	394.80	414.30	267.00	402.60	880.40	414.30	223.00	221.00	166.60	147.70		
15	277.70	190.00	411.70	398.70	254.00	381.00	907.60	390.90	205.00	212.00	177.40	148.60		
16	275.50	242.00	415.60	409.10	264.00	375.00	896.40	369.00	186.40	201.00	176.50	148.60		
17	274.40	295.30	396.10	418.20	281.00	388.30	890.00	357.00	176.50	209.00	166.60	136.90		
18	275.50	336.60	366.60	436.40	309.00	409.10	891.60	339.00	177.40	203.00	164.80	145.00		
19	284.30	318.60	339.00	440.30	348.60	437.70	915.60	292.00	172.90	178.30	162.10	138.70		
20	279.90	277.70	323.40	422.10	365.40	474.40	902.80	272.20	171.10	178.30	169.30	127.20		
21	256.00	254.00	336.60	406.50	364.20	520.60	883.60	272.20	180.10	191.00	174.70	124.00		
22	235.00	254.00	365.40	418.20	358.20	531.80	874.00	282.10	183.70	172.90	174.70	117.60		
23	225.00	257.00	370.20	433.80	355.80	510.80	866.00	289.80	182.80	152.20	165.70	108.00		
24	214.00	273.30	383.40	433.80	340.20	485.60	869.20	266.00	169.30	152.20	152.20	100.80		
25	208.00	272.20	396.10	410.40	310.20	484.20	878.80	245.00	175.60	153.10	159.40	90.40		
26	207.00	256.00	407.80	394.80	286.50	527.60	882.00	231.00	175.60	146.80	167.50	89.70		
27	213.00	246.00	435.10	392.20	288.70	597.60	885.20	214.00	174.70	135.20	162.10	91.10		
28	224.00	243.00	449.40	387.00	292.00	708.50	878.80	224.00	174.70	126.40	163.00	102.40		
29	250.00	239.00	461.80	373.80	290.90	830.80	851.60	224.00	169.30	123.20		109.60		
30	268.00	250.00	474.40	352.20	286.50	914.00	827.60	213.00	163.00	133.60		106.40		
31	282.10		328.20	287.60			806.80		152.20	148.60		94.60		
Total	7642.90	8007.80	10676.80	13339.30	9581.60	15024.60	28935.40	13308.70	5801.90	5552.10	4480.30	4443.10	126794.51	CMSDAY
Mean	254.76	258.32	355.89	430.30	309.08	500.82	933.40	443.62	187.16	179.10	160.01	143.33	347.38	CMS
Max	313.80	336.60	474.40	527.60	365.40	914.00	1089.90	778.00	227.00	279.90	177.40	219.00	1089.90	CMS
Min	207.00	183.70	259.00	328.20	254.00	296.40	806.80	213.00	152.20	123.20	139.60	89.70	89.70	CMS
Runoff	660.35	691.87	922.48	1152.52	827.85	1298.13	2500.02	1149.87	501.28	479.70	387.10	383.88	10955.05	MCM
Momentary Peak	1089.90 CMS. at 26.77 m. (MSL) at 09.00 Hours , on Oct 8 , 2009													
Runoff Yield	6.05 Liters/Second/Square KM.			Momentary Peak Yield				18.993 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Ban Tha Takhian , Phitsanulok (N.68)

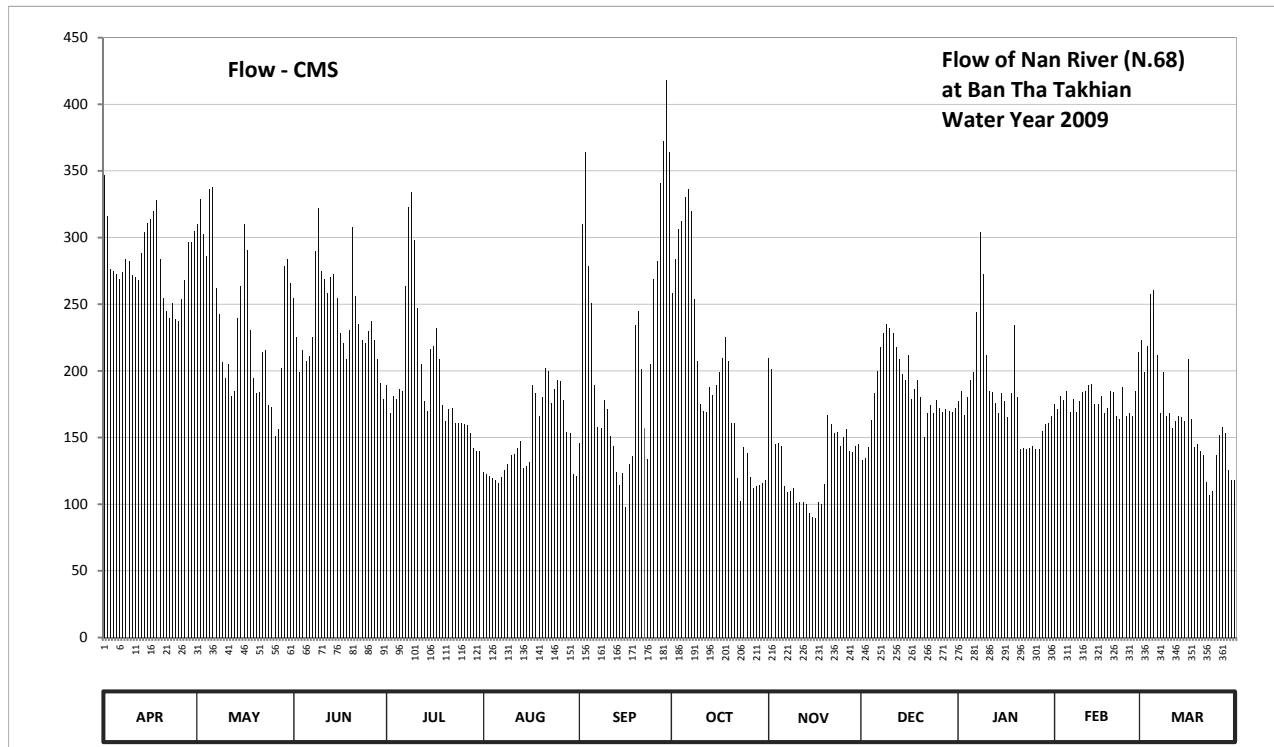
Lat 16 - 52 - 15 N Long 100 - 14 - 36 E

Location : on right bank at Ban Tha Takhian.

	Ban Tha Takhian	Amphoe Mueang	Changwat Phitsanulok
Drainage Area	25,018 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+35.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank near the gage site.	Elevation	+48.620 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 means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Mae Yom side flow. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.96	38.65	38.19	37.59	36.90	37.15	38.22	37.78	37.01	37.47	37.45	37.90	
2	38.70	38.81	37.92	37.38	36.88	38.65	38.43	37.70	37.03	37.55	37.41	37.68	
3	38.37	38.59	37.68	37.51	36.86	39.10	38.62	37.14	37.12	37.37	37.51	37.86	
4	38.36	38.45	37.83	37.49	36.84	38.39	38.67	37.15	37.33	37.50	37.48	38.21	
5	38.34	38.87	37.76	37.56	36.82	38.15	38.82	37.13	37.53	37.63	37.55	38.24	
6	38.31	38.88	37.79	37.55	36.80	37.59	38.87	36.77	37.69	37.68	37.39	37.80	
7	38.35	38.25	37.92	38.26	36.85	37.28	38.73	36.71	37.85	38.09	37.49	37.38	
8	38.43	38.08	38.48	38.76	36.92	37.27	38.18	36.72	37.95	38.60	37.39	37.68	
9	38.42	37.75	38.75	38.85	36.98	37.48	37.76	36.75	38.01	38.34	37.47	37.36	
10	38.33	37.64	38.36	38.55	37.05	37.41	37.45	36.61	37.98	37.80	37.54	37.38	
11	38.32	37.74	38.31	38.12	37.06	37.21	37.40	36.62	37.95	37.55	37.55	37.27	
12	38.30	37.51	38.22	37.74	37.11	37.13	37.39	36.62	37.85	37.54	37.59	37.32	
13	38.47	37.55	38.32	37.47	37.17	36.90	37.58	36.60	37.77	37.46	37.60	37.36	
14	38.60	38.05	38.34	37.40	36.94	36.78	37.52	36.52	37.67	37.38	37.45	37.35	
15	38.66	38.26	38.19	37.84	36.96	36.89	37.59	36.48	37.63	37.53	37.45	37.32	
16	38.68	38.65	37.95	37.86	36.99	36.57	37.68	36.47	37.80	37.47	37.51	37.77	
17	38.73	38.49	37.88	37.98	37.59	36.98	37.78	36.62	37.49	37.35	37.38	37.34	
18	38.80	37.97	37.77	37.77	37.53	37.04	37.92	36.60	37.56	37.53	37.42	37.12	
19	38.43	37.64	37.97	37.44	37.36	38.00	37.76	36.79	37.63	38.00	37.55	37.14	
20	38.19	37.53	38.63	37.32	37.50	38.10	37.31	37.37	37.50	37.50	37.54	37.09	
21	38.10	37.54	38.20	37.41	37.71	37.70	37.31	37.30	37.20	37.10	37.36	37.05	
22	38.05	37.82	38.01	37.42	37.69	37.27	36.84	37.23	37.38	37.11	37.34	36.81	
23	38.15	37.83	37.90	37.31	37.46	37.02	36.63	37.24	37.44	37.10	37.58	36.69	
24	38.04	37.44	37.88	37.31	37.56	37.74	37.12	37.13	37.38	37.11	37.36	36.72	
25	38.03	37.43	37.96	37.31	37.63	38.31	37.07	37.20	37.48	37.13	37.38	37.05	
26	38.18	37.21	38.03	37.30	37.62	38.42	36.85	37.26	37.42	37.10	37.36	37.22	
27	38.30	37.26	37.90	37.29	37.48	38.91	36.75	37.09	37.39	37.10	37.55	37.28	
28	38.54	37.71	37.77	37.23	37.24	39.17	36.77	37.08	37.41	37.25	37.82	37.23	
29	38.54	38.39	37.61	37.11	37.23	39.55	36.78	37.13	37.40	37.30		36.92	
30	38.61	38.43	37.49	37.09	36.88	39.10	36.80	37.14	37.39	37.31		36.82	
31		38.28		37.09	36.86		36.82		37.42	37.36		36.83	
Mean	38.41	38.02	38.03	37.62	37.18	37.78	37.59	36.97	37.54	37.49	37.48	37.33	
Max	38.96	38.88	38.75	38.85	37.71	39.55	38.87	37.78	38.01	38.60	37.82	38.24	39.55
Min	38.03	37.21	37.49	37.09	36.80	36.57	36.63	36.47	37.01	37.10	37.34	36.69	36.47
Annual Max Momentary Gage Height	39.62		m. (MSL.) ,				at 18.00 Hours , on Sep 29 , 2009						
Zero Gage at Bottom Elevation	35.00		m. (MSL.) ,			River Bed	32.69		m. (MSL)				
Left Bank Elevation	47.37		m. (MSL.) ,										
Right Bank Elevation	47.15		m. (MSL.) ,			Drainage Area	25018		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	347.20	310.00	254.90	189.00	124.00	145.50	258.40	209.80	132.90	177.00	223.00		
2	316.00	329.20	225.20	168.00	122.40	310.00	283.60	201.00	134.70	185.00	171.00	198.80	
3	276.40	302.80	198.80	181.00	120.80	364.00	306.40	144.60	142.80	167.00	181.00	218.60	
4	275.20	286.00	215.30	179.00	119.20	278.80	312.40	145.50	163.00	180.00	178.00	257.20	
5	272.80	336.40	207.60	186.00	117.60	250.50	330.40	143.70	183.00	193.30	185.00	260.80	
6	269.20	337.60	210.90	185.00	116.00	189.00	336.40	113.60	199.90	198.80	169.00	212.00	
7	274.00	262.00	225.20	263.20	120.00	158.00	319.60	108.80	217.50	243.90	179.00	168.00	
8	283.60	242.80	289.60	323.20	125.60	157.00	253.80	109.60	228.50	304.00	169.00	198.80	
9	282.40	206.50	322.00	334.00	130.40	178.00	207.60	112.00	235.10	272.80	177.00	166.00	
10	271.60	194.40	275.20	298.00	136.50	171.00	175.00	100.80	231.80	212.00	184.00	168.00	
11	270.40	205.40	269.20	247.20	137.40	151.00	170.00	101.60	228.50	185.00	185.00	157.00	
12	268.00	181.00	258.40	205.40	141.90	143.70	169.00	101.60	217.50	184.00	189.00	162.00	
13	288.40	185.00	270.40	177.00	147.30	124.00	188.00	100.00	208.70	176.00	190.00	166.00	
14	304.00	239.50	272.80	170.00	127.20	114.40	182.00	93.60	197.70	168.00	175.00	165.00	
15	311.20	263.20	254.90	216.40	128.80	123.20	189.00	90.40	193.30	183.00	175.00	162.00	
16	313.60	310.00	228.50	218.60	131.20	97.60	198.80	89.60	212.00	177.00	181.00	208.70	
17	319.60	290.80	220.80	231.80	189.00	130.40	209.80	101.60	179.00	165.00	168.00	164.00	
18	328.00	230.70	208.70	208.70	183.00	135.60	225.20	100.00	186.00	183.00	172.00	142.80	
19	283.60	194.40	230.70	174.00	166.00	234.00	207.60	115.20	193.30	234.00	185.00	144.60	
20	254.90	183.00	307.60	162.00	180.00	245.00	161.00	167.00	180.00	180.00	184.00	140.10	
21	245.00	184.00	256.00	171.00	202.10	201.00	161.00	160.00	150.00	141.00	166.00	136.50	
22	239.50	214.20	235.10	172.00	199.90	157.00	119.20	153.00	168.00	141.90	164.00	116.80	
23	250.50	215.30	223.00	161.00	176.00	133.80	102.40	154.00	174.00	141.00	188.00	107.20	
24	238.40	174.00	220.80	161.00	186.00	205.40	142.80	143.70	168.00	141.90	166.00	109.60	
25	237.30	173.00	229.60	161.00	193.30	269.20	138.30	150.00	178.00	143.70	168.00	136.50	
26	253.80	151.00	237.30	160.00	192.20	282.40	120.00	156.00	172.00	141.00	166.00	152.00	
27	268.00	156.00	223.00	159.00	178.00	341.20	112.00	140.10	169.00	141.00	185.00	158.00	
28	296.80	202.10	208.70	153.00	154.00	372.40	113.60	139.20	171.00	155.00	214.20	153.00	
29	296.80	278.80	191.10	141.90	153.00	418.00	114.40	143.70	170.00	160.00		125.60	
30	305.20	283.60	179.00	140.10	122.40	364.00	116.00	144.60	169.00	161.00		117.60	
31		265.60		140.10	120.80		117.60		172.00	166.00		118.40	
Total	8441.40	7388.30	7150.30	6037.60	4642.00	6445.10	6041.30	3934.30	5726.20	5602.30	4989.20	5114.60	71512.61 CMSDAY
Mean	281.38	238.33	238.34	194.76	149.74	214.84	194.88	131.14	184.72	180.72	178.19	164.99	195.92 CMS
Max	347.20	337.60	322.00	334.00	202.10	418.00	336.40	209.80	235.10	304.00	214.20	260.80	418.00 CMS
Min	237.30	151.00	179.00	140.10	116.00	97.60	102.40	89.60	132.90	141.00	164.00	107.20	89.60 CMS
Runoff	729.337	638.349	617.786	521.649	401.069	556.857	525.968	339.924	494.744	484.039	431.067	441.901	6178.689 MCM
Momentary Peak	426.40 CMS. at 39.62 m. (MSL) at 18.00 Hours , on Sep 29 , 2009												
Runoff Yield	7.83 Liters/Second/Square KM.			Momentary Peak Yield				17.044 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Khlong Tron at Ban Wang Pla Kod , Uttaradit (N.72)

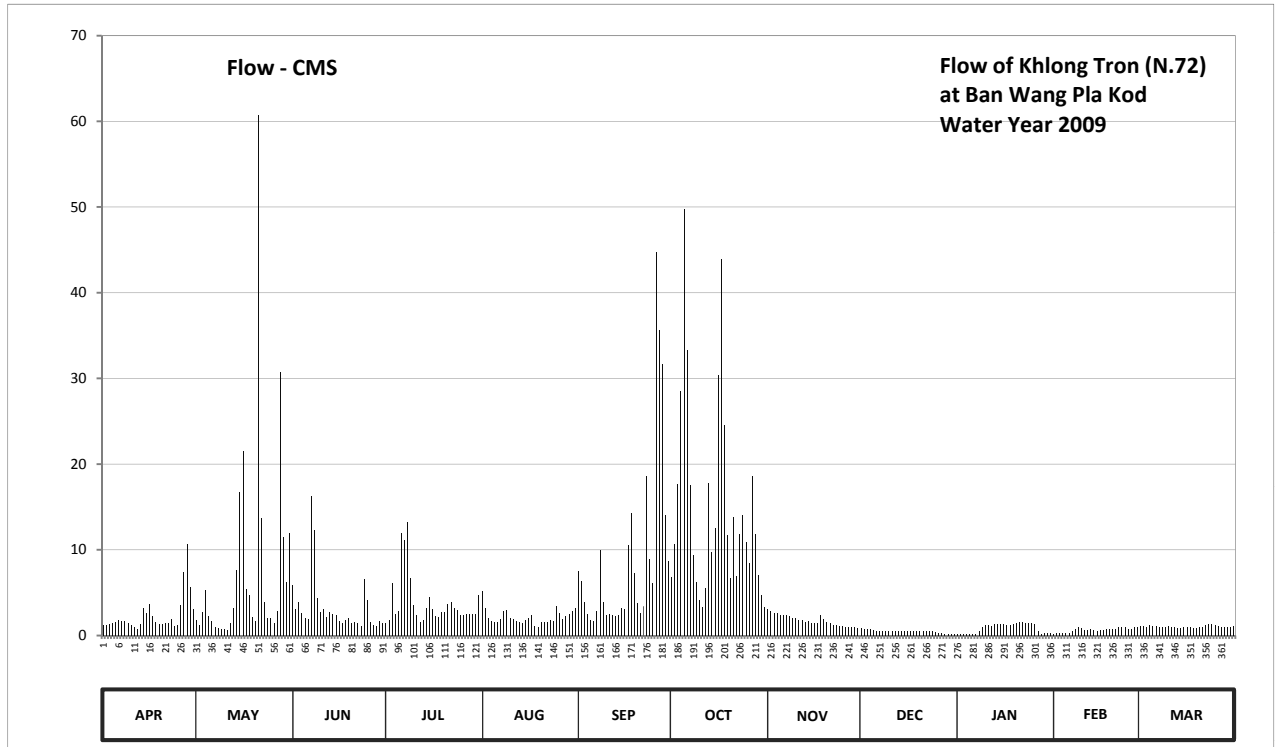
Lat 17 - 27 - 24 N Long 100 - 16 - 39 E

Location : on right bank at Ban Wang Pla Kod.

	Ban	Wang Pla Kod	Amphoe	Thong Saen Khan	Changwat	Uttaradit
Drainage Area	225	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 means 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	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	61.35	61.45	61.95	61.39	61.87	62.12	62.05	61.64	61.26	61.06	61.07	61.33	
2	61.35	61.34	61.64	61.47	61.65	62.01	62.40	61.61	61.25	61.06	61.12	61.32	
3	61.37	61.60	61.74	61.98	61.51	61.74	62.91	61.59	61.24	61.06	61.11	61.31	
4	61.38	61.89	61.59	61.57	61.43	61.57	63.56	61.59	61.23	61.06	61.11	61.34	
5	61.42	61.53	61.50	61.62	61.42	61.46	64.47	61.55	61.21	61.06	61.12	61.33	
6	61.46	61.43	61.48	62.50	61.42	61.44	63.79	61.56	61.17	61.06	61.13	61.32	
7	61.44	61.31	62.82	62.43	61.48	61.61	62.90	61.56	61.17	61.06	61.19	61.31	
8	61.43	61.27	62.52	62.60	61.62	62.34	62.29	61.54	61.19	61.19	61.25	61.29	
9	61.39	61.24	61.79	62.04	61.63	61.73	61.99	61.51	61.19	61.31	61.29	61.31	
10	61.35	61.23	61.60	61.70	61.51	61.56	61.76	61.51	61.19	61.35	61.27	61.33	
11	61.30	61.22	61.64	61.55	61.48	61.58	61.67	61.47	61.19	61.34	61.20	61.31	
12	61.24	61.38	61.52	61.42	61.43	61.55	61.91	61.45	61.18	61.33	61.21	61.29	
13	61.37	61.65	61.60	61.47	61.41	61.54	62.92	61.42	61.18	61.37	61.23	61.26	
14	61.65	62.13	61.57	61.65	61.38	61.56	62.32	61.44	61.18	61.37	61.21	61.27	
15	61.59	62.85	61.55	61.80	61.45	61.65	62.54	61.40	61.18	61.36	61.19	61.28	
16	61.71	63.17	61.44	61.64	61.51	61.64	63.65	61.38	61.18	61.36	61.20	61.28	
17	61.54	61.90	61.39	61.53	61.56	62.39	64.25	61.39	61.18	61.35	61.22	61.28	
18	61.42	61.82	61.45	61.52	61.33	62.68	63.36	61.56	61.18	61.34	61.23	61.27	
19	61.36	61.52	61.51	61.60	61.31	62.10	62.48	61.48	61.18	61.37	61.24	61.27	
20	61.37	61.43	61.39	61.60	61.42	61.72	62.04	61.42	61.18	61.40	61.24	61.29	
21	61.39	64.83	61.42	61.71	61.41	61.59	62.64	61.38	61.18	61.42	61.23	61.31	
22	61.40	62.63	61.39	61.74	61.41	61.68	62.06	61.35	61.18	61.41	61.31	61.34	
23	61.49	61.73	61.32	61.65	61.46	62.97	62.49	61.34	61.18	61.40	61.30	61.37	
24	61.33	61.51	62.03	61.63	61.44	62.25	62.66	61.32	61.18	61.39	61.29	61.36	
25	61.34	61.50	61.76	61.56	61.68	61.98	62.42	61.32	61.14	61.38	61.25	61.34	
26	61.69	61.40	61.42	61.55	61.59	64.28	62.21	61.31	61.11	61.37	61.23	61.32	
27	62.11	61.61	61.35	61.58	61.49	63.90	62.97	61.30	61.11	61.17	61.29	61.30	
28	62.40	63.67	61.33	61.57	61.54	63.71	62.49	61.29	61.08	61.10	61.30	61.28	
29	61.93	62.46	61.44	61.58	61.57	62.66	62.08	61.28	61.08	61.11		61.28	
30	61.64	61.99	61.38	61.57	61.61	62.23	61.82	61.27	61.08	61.12		61.31	
31		62.50		61.82	61.65		61.67		61.08	61.11		61.32	
Mean	61.51	61.91	61.62	61.71	61.51	62.11	62.61	61.44	61.17	61.25	61.22	61.31	
Max	62.40	64.83	62.82	62.60	61.87	64.28	64.47	61.64	61.26	61.42	61.31	61.37	64.83
Min	61.24	61.22	61.32	61.39	61.31	61.44	61.67	61.27	61.08	61.06	61.07	61.26	61.06
Annual Max Momentary Gage Height	65.19		m. (MSL.) ,				at 12.00 Hours , on May 21 , 2009						
Zero Gage at Bottom Elevation	60.89		m. (MSL.) ,			River Bed	60.78	m. (MSL)					
Left Bank Elevation		67.43		m. (MSL.) ,									
Right Bank Elevation		68.68		m. (MSL.) ,		Drainage Area	225	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	1.75	5.85	1.45	5.13	7.50	6.80	3.06	0.84	0.12	0.14	1.15	
2	1.25	1.20	3.06	1.85	3.15	6.40	10.70	2.79	0.80	0.12	0.28	1.10	
3	1.35	2.70	3.96	6.12	2.07	3.96	17.65	2.63	0.76	0.12	0.24	1.05	
4	1.40	5.31	2.63	2.49	1.65	2.49	28.48	2.63	0.72	0.12	0.24	1.20	
5	1.60	2.21	2.00	2.88	1.60	1.80	49.79	2.35	0.64	0.12	0.28	1.15	
6	1.80	1.65	1.90	12.00	1.60	1.70	33.29	2.42	0.48	0.12	0.32	1.10	
7	1.70	1.05	16.30	11.09	1.90	2.79	17.50	2.42	0.48	0.12	0.56	1.05	
8	1.65	0.88	12.26	13.30	2.88	9.98	9.38	2.28	0.56	0.56	0.80	0.96	
9	1.45	0.76	4.41	6.70	2.97	3.87	6.21	2.07	0.56	1.05	0.96	1.05	
10	1.25	0.72	2.70	3.60	2.07	2.42	4.14	2.07	0.56	1.25	0.88	1.15	
11	1.00	0.68	3.06	2.35	1.90	2.56	3.33	1.85	0.56	1.20	0.60	1.05	
12	0.76	1.40	2.14	1.60	1.65	2.35	5.49	1.75	0.52	1.15	0.64	0.96	
13	1.35	3.15	2.70	1.85	1.55	2.28	17.80	1.60	0.52	1.35	0.72	0.84	
14	3.15	7.60	2.49	3.15	1.40	2.42	9.74	1.70	0.52	1.35	0.64	0.88	
15	2.63	16.75	2.35	4.50	1.75	3.15	12.52	1.50	0.52	1.30	0.56	0.92	
16	3.69	21.55	1.70	3.06	2.07	3.06	30.35	1.40	0.52	1.30	0.60	0.92	
17	2.28	5.40	1.45	2.21	2.42	10.58	43.95	1.45	0.52	1.25	0.68	0.92	
18	1.60	4.68	1.75	2.14	1.15	14.34	24.56	2.42	0.52	1.20	0.72	0.88	
19	1.30	2.14	2.07	2.70	1.05	7.30	11.74	1.90	0.52	1.35	0.76	0.88	
20	1.35	1.65	1.45	2.70	1.60	3.78	6.70	1.60	0.52	1.50	0.76	0.96	
21	1.45	60.76	1.60	3.69	1.55	2.63	13.82	1.40	0.52	1.60	0.72	1.05	
22	1.50	13.69	1.45	3.96	1.55	3.42	6.90	1.25	0.52	1.55	1.05	1.20	
23	1.95	3.87	1.10	3.15	1.80	18.55	11.87	1.20	0.52	1.50	1.00	1.35	
24	1.15	2.07	6.60	2.97	1.70	8.90	14.08	1.10	0.52	1.45	0.96	1.30	
25	1.20	2.00	4.14	2.42	3.42	6.12	10.96	1.10	0.36	1.40	0.80	1.20	
26	3.51	1.50	1.60	2.35	2.63	44.70	8.42	1.05	0.24	1.35	0.72	1.10	
27	7.40	2.79	1.25	2.56	1.95	35.60	18.55	1.00	0.24	0.48	0.96	1.00	
28	10.70	30.77	1.15	2.49	2.28	31.61	11.87	0.96	0.16	0.20	1.00	0.92	
29	5.67	11.48	1.70	2.56	2.49	14.08	7.10	0.92	0.16	0.24		0.92	
30	3.06	6.21	1.40	2.49	2.79	8.66	4.68	0.88	0.16	0.28		1.05	
31		12.00		4.68	3.15		3.33		0.16	0.24		1.10	
Total	71.40	230.37	98.22	121.06	66.87	269.00	461.70	52.75	15.20	26.94	18.59	32.36	1464.46 CMSDAY
Mean	2.38	7.43	3.27	3.91	2.16	8.97	14.89	1.76	0.49	0.87	0.66	1.04	4.01 CMS
Max	10.70	60.76	16.30	13.30	5.13	44.70	49.79	3.06	0.84	1.60	1.05	1.35	60.76 CMS
Min	0.76	0.68	1.10	1.45	1.05	1.70	3.33	0.88	0.16	0.12	0.14	0.84	0.12 CMS
Runoff	6.17	19.90	8.49	10.46	5.78	23.24	39.89	4.56	1.31	2.33	1.61	2.80	126.53 MCM
Momentary Peak	72.47 CMS. at 65.19 m. (MSL) at 12.00 Hours , on May 21 , 2009												
Runoff Yield	17.83 Liters/Second/Square KM.			Momentary Peak Yield			322.089 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Khek River at Ban Tan Tawan , Phetchabun (N.73)

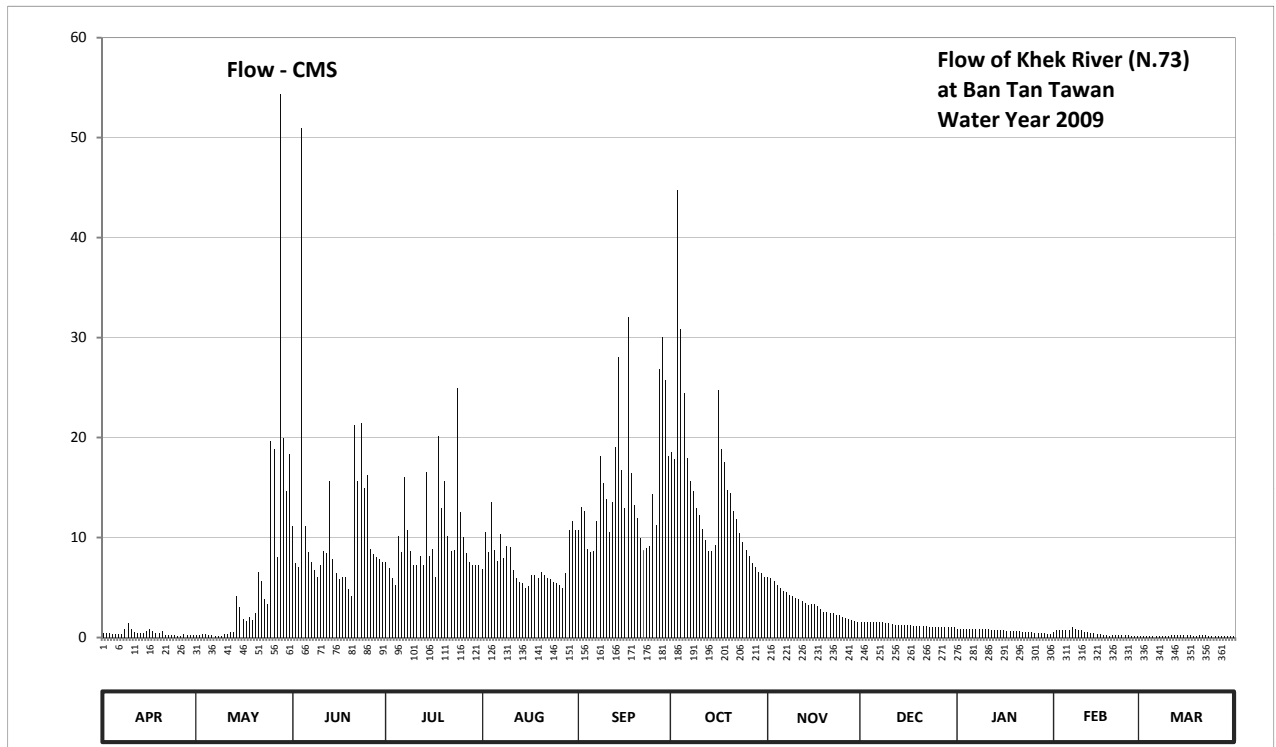
Lat 16 - 33 - 24 N Long 100 - 53 - 44 E

Location : on right bank at Ban Tan Tawan.

	Ban	Tan Tawan	Amphoe	Khao Kho	Changwat	Phetchabun
Drainage Area	213	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+684.529 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	On right bank near the gage site.				Elevation	+694.038 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 means of 5 readings					
Period of Available Gage Records	2002 to date					
Rating Operation						
Period of Rating	2002 to date					
Rated by Flot	-					
Rated by Current Meter	2002 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	685.66	685.62	686.93	686.63	686.57	686.90	687.41	686.49	685.88	685.76	685.68	685.57	
2	685.66	685.62	686.62	686.58	686.89	687.07	687.37	686.48	685.88	685.76	685.73	685.57	
3	685.65	685.63	686.59	686.48	686.72	687.04	688.66	686.46	685.88	685.76	685.73	685.57	
4	685.64	685.63	688.89	686.42	687.10	686.75	688.06	686.41	685.88	685.75	685.73	685.57	
5	685.63	685.62	686.93	686.86	686.74	686.72	687.73	686.38	685.88	685.75	685.73	685.57	
6	685.63	685.61	686.72	686.72	686.64	686.73	687.38	686.35	685.88	685.75	685.73	685.59	
7	685.64	685.59	686.63	687.26	686.87	686.97	687.23	686.34	685.88	685.74	685.79	685.59	
8	685.75	685.59	686.56	686.90	686.67	687.39	687.17	686.30	685.88	685.74	685.74	685.59	
9	685.87	685.59	686.49	686.73	686.78	687.22	687.06	686.29	685.87	685.74	685.73	685.59	
10	685.75	685.63	686.60	686.60	686.77	687.12	687.01	686.27	685.86	685.74	685.72	685.59	
11	685.69	685.63	686.73	686.60	686.56	686.89	686.91	686.25	685.85	685.74	685.69	685.62	
12	685.67	685.68	686.71	686.69	686.48	687.10	686.83	686.23	685.84	685.73	685.68	685.62	
13	685.66	685.69	687.23	686.60	686.44	687.44	686.73	686.21	685.84	685.73	685.66	685.61	
14	685.66	686.29	686.66	687.29	686.43	687.92	686.73	686.18	685.83	685.73	685.65	685.60	
15	685.71	686.15	686.53	686.69	686.38	687.30	686.79	686.19	685.83	685.72	685.64	685.60	
16	685.76	685.94	686.47	686.75	686.40	687.06	687.75	686.19	685.82	685.72	685.63	685.60	
17	685.71	685.92	686.49	686.49	686.51	688.12	687.43	686.16	685.82	685.71	685.62	685.60	
18	685.67	686.00	686.49	687.50	686.51	687.28	687.35	686.12	685.81	685.71	685.60	685.59	
19	685.66	685.93	686.37	687.06	686.48	687.08	687.18	686.08	685.81	685.70	685.59	685.59	
20	685.71	686.05	686.29	687.23	686.54	686.99	687.16	686.07	685.80	685.70	685.61	685.60	
21	685.61	686.54	687.56	686.86	686.51	686.84	687.04	686.06	685.80	685.70	685.60	685.60	
22	685.61	686.46	687.23	686.73	686.48	686.74	686.98	686.05	685.80	685.69	685.60	685.60	
23	685.60	686.26	687.57	686.74	686.47	686.76	686.88	686.03	685.79	685.68	685.61	685.59	
24	685.60	686.19	687.19	687.76	686.44	686.78	686.81	686.02	685.79	685.68	685.61	685.59	
25	685.59	687.47	687.27	687.03	686.43	687.15	686.74	685.98	685.79	685.68	685.60	685.59	
26	685.58	687.43	686.75	686.85	686.41	686.94	686.69	685.96	685.78	685.67	685.59	685.58	
27	685.63	686.68	686.70	686.71	686.38	687.86	686.62	685.94	685.78	685.67	685.59	685.58	
28	685.62	689.01	686.68	686.63	686.53	688.02	686.59	685.93	685.78	685.66	685.58	685.58	
29	685.61	687.49	686.66	686.60	686.90	687.80	686.54	685.91	685.78	685.65	685.58	685.58	
30	685.61	687.17	686.63	686.60	686.97	687.39	686.53	685.88	685.78	685.64	685.58	685.58	
31		687.40		686.60	686.90		686.50		685.78	685.63		685.58	
Mean	685.66	686.24	686.84	686.81	686.61	687.18	687.09	686.17	685.83	685.71	685.66	685.59	
Max	685.87	689.01	688.89	687.76	687.10	688.12	688.66	686.49	685.88	685.76	685.79	685.62	689.01
Min	685.58	685.59	686.29	686.42	686.38	686.72	686.50	685.88	685.78	685.63	685.58	685.57	685.57
Annual Max Momentary Gage Height	689.19		m. (MSL.) ,		at 06.00 Hours , on Jun 4 , 2009								
Zero Gage at Bottom Elevation	684.53		m. (MSL.) ,		River Bed		684.95		m. (MSL)				
Left Bank Elevation	690.98		m. (MSL.) ,										
Right Bank Elevation	694.95		m. (MSL.) ,		Drainage Area		213		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.28	11.12	7.53	6.87	10.70	18.48	6.00	1.50	0.90	0.52	0.17	
2	0.44	0.28	7.42	6.98	10.57	13.08	17.82	5.90	1.50	0.90	0.75	0.17	
3	0.40	0.32	7.09	5.90	8.52	12.66	44.80	5.70	1.50	0.90	0.75	0.17	
4	0.36	0.32	50.93	5.30	13.50	8.85	30.80	5.20	1.50	0.85	0.75	0.17	
5	0.32	0.28	11.12	10.18	8.74	8.52	24.40	4.92	1.50	0.85	0.75	0.17	
6	0.32	0.24	8.52	8.52	7.64	8.63	17.98	4.65	1.50	0.85	0.75	0.19	
7	0.36	0.19	7.53	16.06	10.31	11.68	15.58	4.56	1.50	0.80	1.05	0.19	
8	0.85	0.19	6.76	10.70	7.97	18.14	14.62	4.20	1.50	0.80	0.80	0.19	
9	1.45	0.19	6.00	8.63	9.18	15.42	12.94	4.12	1.45	0.80	0.75	0.19	
10	0.85	0.32	7.20	7.20	9.07	13.82	12.24	3.96	1.40	0.80	0.70	0.19	
11	0.56	0.32	8.63	7.20	6.76	10.57	10.84	3.80	1.35	0.80	0.56	0.28	
12	0.48	0.52	8.41	8.19	5.90	13.50	9.79	3.64	1.30	0.75	0.52	0.28	
13	0.44	0.56	15.58	7.20	5.50	19.04	8.63	3.48	1.30	0.75	0.44	0.24	
14	0.44	4.12	7.86	16.54	5.40	28.00	8.63	3.26	1.25	0.75	0.40	0.20	
15	0.65	3.05	6.43	8.19	4.92	16.70	9.29	3.33	1.25	0.70	0.36	0.20	
16	0.90	1.80	5.80	8.85	5.10	12.94	24.78	3.33	1.20	0.70	0.32	0.20	
17	0.65	1.70	6.00	6.00	6.21	32.02	18.85	3.12	1.20	0.65	0.28	0.20	
18	0.48	2.10	6.00	20.15	6.21	16.38	17.50	2.84	1.15	0.65	0.20	0.19	
19	0.44	1.75	4.83	12.94	5.90	13.22	14.78	2.58	1.15	0.60	0.19	0.19	
20	0.65	2.40	4.12	15.58	6.54	11.96	14.46	2.52	1.10	0.60	0.24	0.20	
21	0.24	6.54	21.26	10.18	6.21	9.92	12.66	2.46	1.10	0.60	0.20	0.20	
22	0.24	5.70	15.58	8.63	5.90	8.74	11.82	2.40	1.10	0.56	0.20	0.20	
23	0.20	3.88	21.44	8.74	5.80	8.96	10.44	2.28	1.05	0.52	0.24	0.19	
24	0.20	3.33	14.94	24.96	5.50	9.18	9.53	2.22	1.05	0.52	0.24	0.19	
25	0.19	19.59	16.22	12.52	5.40	14.30	8.74	2.00	1.05	0.52	0.20	0.19	
26	0.18	18.85	8.85	10.05	5.20	11.26	8.19	1.90	1.00	0.48	0.19	0.18	
27	0.32	8.08	8.30	8.41	4.92	26.84	7.42	1.80	1.00	0.48	0.19	0.18	
28	0.28	54.39	8.08	7.53	6.43	30.00	7.09	1.75	1.00	0.44	0.18	0.18	
29	0.24	19.96	7.86	7.20	10.70	25.70	6.54	1.65	1.00	0.40		0.18	
30	0.24	14.62	7.53	7.20	11.68	18.14	6.43	1.50	1.00	0.36		0.18	
31		18.30		7.20	10.70		6.10		1.00	0.32		0.18	
Total	13.81	194.17	327.41	310.46	229.25	458.87	442.17	101.07	38.45	20.60	12.72	6.03	2155.01 CMSDAY
Mean	0.46	6.26	10.91	10.01	7.40	15.30	14.26	3.37	1.24	0.66	0.45	0.19	5.90 CMS
Max	1.45	54.39	50.93	24.96	13.50	32.02	44.80	6.00	1.50	0.90	1.05	0.28	54.39 CMS
Min	0.18	0.19	4.12	5.30	4.92	8.52	6.10	1.50	1.00	0.32	0.18	0.17	0.17 CMS
Runoff	1.19	16.78	28.29	26.82	19.81	39.65	38.20	8.73	3.32	1.78	1.10	0.52	186.19 MCM
Momentary Peak	59.70 CMS. at 689.19 m. (MSL.) at 06.00 Hours , on Jun 4 , 2009												
Runoff Yield	27.72 Liters/Second/Square KM.			Momentary Peak Yield			280.282 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Bang Krathum , Phitsanulok (N.74)

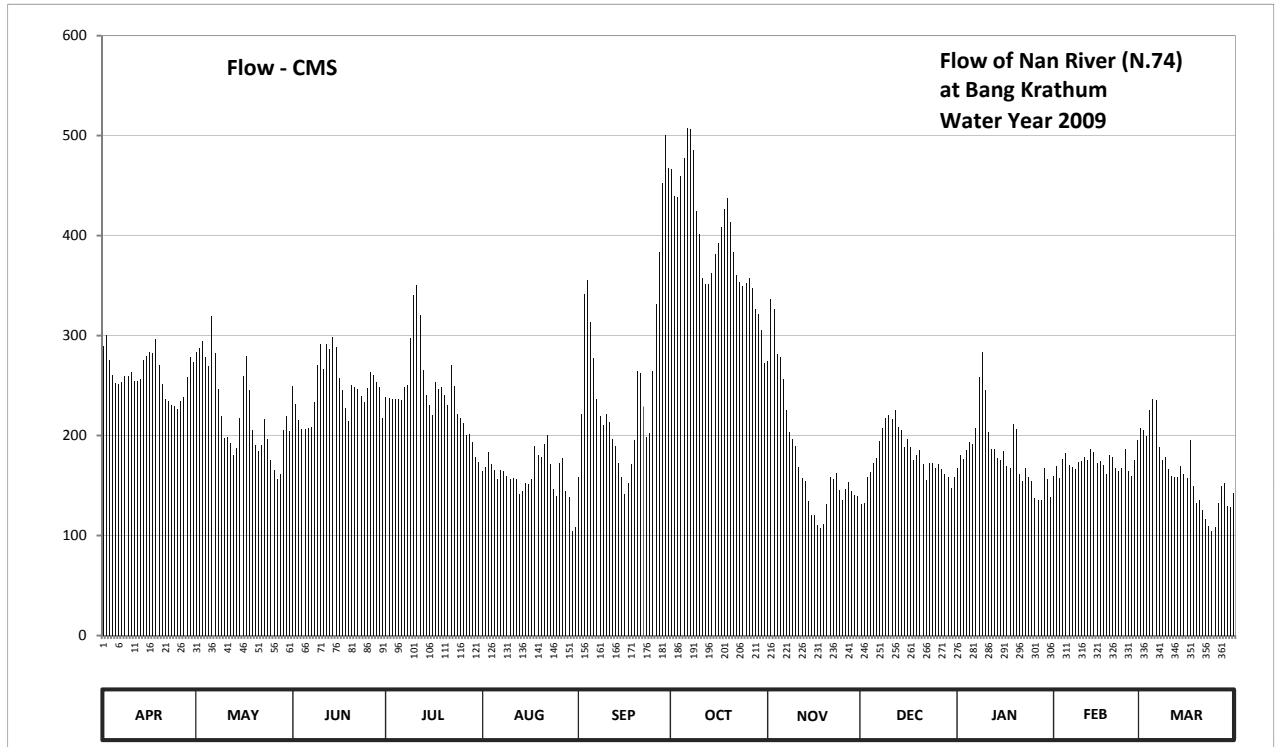
Lat 16 - 34 - 38 N Long 100 - 14 - 33 E

Location : on left bank at Bang Krathum.

Ban	-	Amphoe	Bang Krathum	Changwat	Phitsanulok
Drainage Area	25,489	sq.km.			
Type of Gage	Staff gage				
Zero Gage at Bottom	+29.360	m. (MSL.)			
Bench Mark	B.M.- H.D.				
Location BM	On left bank near the gage site.			Elevation	+44.315 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 means of 5 readings				
Period of Available Gage Records	2001 to date				
Rating Operation					
Period of Rating	2001 to date				
Rated by Flot	-				
Rated by Current Meter	2001 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2009.				

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.85	32.79	32.45	32.34	31.58	31.52	34.41	32.70	31.22	31.61	31.53	32.03	
2	32.95	32.83	32.27	32.33	31.63	32.17	34.18	33.28	31.23	31.76	31.64	32.01	
3	32.71	32.89	32.11	32.32	31.79	33.32	34.17	33.18	31.52	31.71	31.50	31.95	
4	32.56	32.74	32.02	32.32	31.66	33.45	34.35	32.77	31.57	31.81	31.71	32.21	
5	32.48	32.65	32.02	32.32	31.59	33.07	34.51	32.74	31.67	31.89	31.78	32.32	
6	32.47	33.12	32.03	32.31	31.49	32.73	34.77	32.52	31.72	31.87	31.65	32.31	
7	32.49	32.78	32.04	32.44	31.59	32.32	34.76	32.21	31.90	32.03	31.63	31.84	
8	32.55	32.42	32.29	32.46	31.58	32.15	34.58	31.99	32.03	32.54	31.60	31.70	
9	32.55	32.15	32.66	32.92	31.53	32.06	34.05	31.92	32.13	32.79	31.68	31.74	
10	32.59	31.93	32.87	33.31	31.49	32.17	33.85	31.85	32.16	32.41	31.69	31.60	
11	32.50	31.94	32.62	33.40	31.50	32.09	33.46	31.63	32.12	31.99	31.74	31.53	
12	32.50	31.88	32.87	33.13	31.49	31.92	33.41	31.50	32.21	31.82	31.70	31.52	
13	32.52	31.76	32.82	32.61	31.33	31.85	33.41	31.47	32.04	31.82	31.82	31.51	
14	32.71	31.83	32.93	32.36	31.36	31.67	33.51	31.25	32.01	31.72	31.79	31.64	
15	32.75	32.13	32.84	32.26	31.45	31.52	33.67	31.10	31.84	31.70	31.67	31.55	
16	32.79	32.55	32.53	32.16	31.44	31.33	33.77	31.09	31.92	31.80	31.69	31.50	
17	32.78	32.75	32.41	32.49	31.49	31.45	33.91	30.98	31.84	31.64	31.65	31.91	
18	32.91	32.41	32.23	32.42	31.85	31.66	34.07	30.94	31.70	31.62	31.55	31.42	
19	32.66	32.01	32.10	32.44	31.76	31.91	34.16	30.99	31.76	32.07	31.76	31.23	
20	32.47	31.86	32.46	32.36	31.74	32.60	33.95	31.22	31.81	32.02	31.74	31.26	
21	32.32	31.80	32.44	32.26	31.87	32.58	33.69	31.51	31.66	31.55	31.61	31.15	
22	32.30	31.86	32.42	32.66	31.96	32.25	33.49	31.49	31.48	31.47	31.58	31.05	
23	32.26	32.12	32.35	32.45	31.66	31.94	33.43	31.56	31.67	31.61	31.61	30.97	
24	32.25	31.92	32.29	32.17	31.38	31.98	33.39	31.37	31.67	31.51	31.82	30.91	
25	32.22	31.70	32.43	32.13	31.31	32.60	33.42	31.26	31.61	31.47	31.58	30.95	
26	32.30	31.59	32.59	32.08	31.67	33.23	33.46	31.38	31.66	31.28	31.53	31.23	
27	32.34	31.49	32.56	31.96	31.73	33.69	33.38	31.46	31.60	31.26	31.70	31.42	
28	32.54	31.55	32.49	31.97	31.36	34.29	33.19	31.36	31.55	31.26	31.91	31.45	
29	32.74	32.01	32.44	31.89	31.29	34.71	33.14	31.32	31.52	31.61		31.19	
30	32.69	32.15	32.13	31.74	30.91	34.42	32.99	31.31	31.39	31.49		31.18	
31	32.00			31.68	30.96		32.68		31.52	31.29		31.34	
Mean	32.56	32.18	32.42	32.38	31.53	32.49	33.78	31.71	31.73	31.76	31.67	31.54	
Max	32.95	33.12	32.93	33.40	31.96	34.71	34.77	33.28	32.21	32.79	31.91	32.32	34.77
Min	32.22	31.49	32.02	31.68	30.91	31.33	32.68	30.94	31.22	31.26	31.50	30.91	30.91
Annual Max Momentary Gage Height	34.81		m. (MSL.) ,				at 18.00 Hours , on Sep 29 , 2009						
Zero Gage at Bottom Elevation	29.36		m. (MSL.) ,			River Bed	27.05	m. (MSL)					
Left Bank Elevation	37.38		m. (MSL.) ,										
Right Bank Elevation	43.32		m. (MSL.) ,			Drainage Area	25489	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	289.50	283.00	249.00	238.00	164.20	158.80	466.15	274.00	131.80	166.90	159.70	207.00	
2	300.50	287.30	231.00	237.00	168.70	221.00	439.70	336.80	132.70	180.40	169.60	205.00	
3	275.00	293.90	215.00	236.00	183.10	341.20	438.55	325.80	158.80	175.90	157.00	199.00	
4	260.00	278.00	206.00	236.00	171.40	355.75	459.25	281.00	163.30	185.00	175.90	225.00	
5	252.00	269.00	206.00	236.00	165.10	313.70	477.65	278.00	172.30	193.00	182.20	236.00	
6	251.00	319.20	207.00	235.00	156.10	277.00	507.55	256.00	176.80	191.00	170.50	235.00	
7	253.00	282.00	208.00	248.00	165.10	236.00	506.40	225.00	194.00	207.00	168.70	188.00	
8	259.00	246.00	233.00	250.00	164.20	219.00	485.70	203.00	207.00	258.00	166.00	175.00	
9	259.00	219.00	270.00	297.20	159.70	210.00	424.75	196.00	217.00	283.00	173.20	178.60	
10	263.00	197.00	291.70	340.10	156.10	221.00	401.75	189.00	220.00	245.00	174.10	166.00	
11	254.00	198.00	266.00	350.00	157.00	213.00	356.90	168.70	216.00	203.00	178.60	159.70	
12	254.00	192.00	291.70	320.30	156.10	196.00	351.15	157.00	225.00	186.00	175.00	158.80	
13	256.00	180.40	286.20	265.00	141.70	189.00	351.15	154.30	208.00	186.00	186.00	157.90	
14	275.00	187.00	298.30	240.00	144.40	172.30	362.65	134.50	205.00	176.80	183.10	169.60	
15	279.00	217.00	288.40	230.00	152.50	158.80	381.05	121.00	188.00	175.00	172.30	161.50	
16	283.00	259.00	257.00	220.00	151.60	141.70	392.55	120.10	196.00	184.00	174.10	157.00	
17	282.00	279.00	245.00	253.00	156.10	152.50	408.65	110.40	188.00	169.60	170.50	195.00	
18	296.10	245.00	227.00	246.00	189.00	171.40	427.05	107.20	175.00	167.80	161.50	149.80	
19	270.00	205.00	214.00	248.00	180.40	195.00	437.40	111.20	180.40	211.00	180.40	132.70	
20	251.00	190.00	250.00	240.00	178.60	264.00	413.25	131.80	185.00	206.00	178.60	135.40	
21	236.00	184.00	248.00	230.00	191.00	262.00	383.35	157.90	171.40	161.50	166.90	125.50	
22	234.00	190.00	246.00	270.00	200.00	229.00	360.35	156.10	155.20	154.30	164.20	116.50	
23	230.00	216.00	239.00	249.00	171.40	198.00	353.45	162.40	172.30	166.90	166.90	109.60	
24	229.00	196.00	233.00	221.00	146.20	202.00	348.90	145.30	172.30	157.90	186.00	104.80	
25	226.00	175.00	247.00	217.00	139.90	264.00	352.30	135.40	166.90	154.30	164.20	108.00	
26	234.00	165.10	263.00	212.00	172.30	331.30	356.90	146.20	171.40	137.20	159.70	132.70	
27	238.00	156.10	260.00	200.00	177.70	383.35	347.80	153.40	166.00	135.40	175.00	149.80	
28	258.00	161.50	253.00	201.00	144.40	452.35	326.90	144.40	161.50	135.40	195.00	152.50	
29	278.00	205.00	248.00	193.00	138.10	500.65	321.40	140.80	158.80	166.90		129.10	
30	273.00	219.00	217.00	178.60	104.80	467.30	304.90	139.90	147.10	156.10		128.20	
31	204.00			173.20	108.80		272.00		158.80	138.10		142.60	
Total	7798.10	6898.50	7394.30	7510.40	4955.70	7697.10	12217.50	5362.60	5541.80	5614.40	4834.90	4991.30	80816.60 CMSDAY
Mean	259.94	222.53	246.48	242.27	159.86	256.57	394.11	178.75	178.77	181.11	172.68	161.01	221.42 CMS
Max	300.50	319.20	298.30	350.00	200.00	500.65	507.55	336.80	225.00	283.00	195.00	236.00	507.55 CMS
Min	226.00	156.10	206.00	173.20	104.80	141.70	272.00	107.20	131.80	135.40	157.00	104.80	104.80 CMS
Runoff	673.76	596.03	638.87	648.90	428.17	665.03	1055.59	463.33	478.81	485.08	417.74	431.25	6982.56 MCM
Momentary Peak	512.15 CMS. at 34.81 m. (MSL) at 18.00 Hours , on Sep 29 , 2009												
Runoff Yield	8.69 Liters/Second/Square KM.			Momentary Peak Yield			20.093 Liters/Second/Square KM.						

WATER YEAR : 2009

NAN RIVER BASIN

Nam Wa at Tha Li Bridge , Nan (N.75)

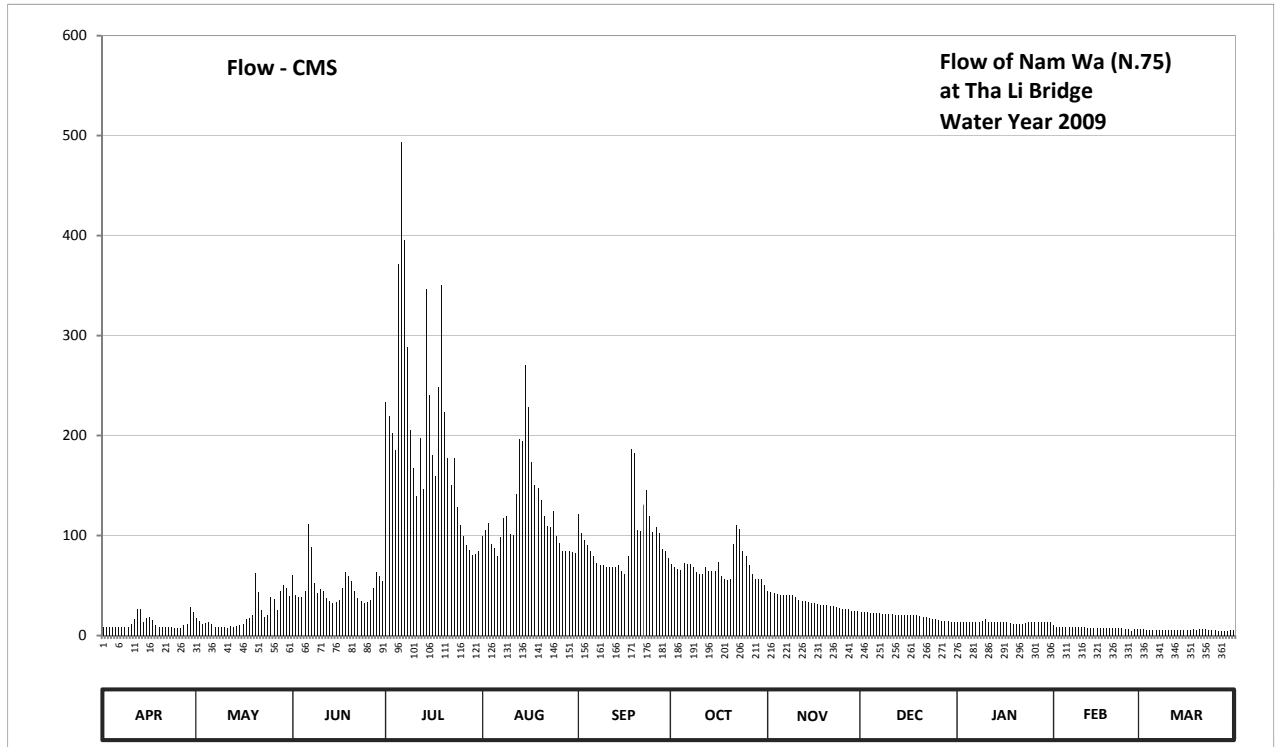
Lat 18 - 33 - 00 N Long 100 - 48 - 41 E

Location : on left bank at the bridge.

	Ban Tha Li Bridge	Amphoe Wiang Sa	Changwat Nan
Drainage Area	2,170 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+182.805 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the approach of the bridge.	Elevation	+196.616 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.18	184.32	184.90	186.93	185.37	185.63	185.04	184.69	184.41	184.27	184.22	184.12	
2	184.17	184.28	184.64	186.78	185.44	185.41	185.01	184.67	184.41	184.27	184.20	184.12	
3	184.18	184.24	184.61	186.58	185.53	185.32	184.98	184.66	184.40	184.27	184.19	184.11	
4	184.18	184.25	184.61	186.38	185.28	185.27	184.97	184.65	184.39	184.27	184.18	184.11	
5	184.19	184.26	184.69	188.31	185.23	185.19	185.05	184.63	184.39	184.27	184.18	184.10	
6	184.20	184.23	185.51	189.40	185.14	185.14	185.04	184.64	184.39	184.26	184.18	184.10	
7	184.18	184.19	185.24	188.53	185.36	185.05	185.04	184.64	184.39	184.26	184.18	184.10	
8	184.18	184.17	184.79	187.48	185.58	185.03	185.01	184.63	184.38	184.27	184.18	184.10	
9	184.18	184.18	184.66	186.62	185.60	185.03	184.94	184.63	184.38	184.28	184.18	184.10	
10	184.23	184.18	184.71	186.17	185.39	185.01	184.91	184.61	184.38	184.31	184.17	184.10	
11	184.30	184.16	184.69	185.84	185.38	185.00	184.91	184.57	184.38	184.26	184.17	184.10	
12	184.45	184.21	184.59	186.52	185.86	185.00	185.01	184.55	184.37	184.26	184.16	184.10	
13	184.44	184.18	184.55	185.92	186.51	185.01	184.95	184.55	184.37	184.26	184.16	184.10	
14	184.27	184.21	184.52	188.06	186.49	185.03	184.95	184.54	184.37	184.26	184.16	184.10	
15	184.32	184.22	184.54	187.00	187.30	184.96	184.96	184.53	184.37	184.26	184.15	184.10	
16	184.33	184.23	184.57	186.32	186.88	184.91	185.06	184.52	184.37	184.26	184.15	184.09	
17	184.29	184.31	184.72	186.07	186.24	185.14	184.88	184.51	184.37	184.26	184.15	184.11	
18	184.22	184.32	184.94	187.08	185.97	186.39	184.84	184.50	184.37	184.25	184.15	184.12	
19	184.20	184.36	184.88	188.10	185.94	186.35	184.83	184.50	184.36	184.24	184.15	184.10	
20	184.20	184.93	184.82	186.82	185.79	185.44	184.84	184.50	184.35	184.24	184.15	184.14	
21	184.19	184.67	184.69	186.28	185.61	185.43	185.28	184.49	184.34	184.24	184.16	184.14	
22	184.18	184.43	184.59	185.97	185.49	185.74	185.50	184.49	184.33	184.24	184.15	184.13	
23	184.17	184.34	184.55	186.28	185.48	185.91	185.45	184.47	184.32	184.25	184.15	184.10	
24	184.16	184.36	184.52	185.71	185.66	185.61	185.19	184.46	184.31	184.26	184.14	184.09	
25	184.15	184.61	184.54	185.50	185.37	185.42	185.13	184.45	184.30	184.26	184.13	184.09	
26	184.15	184.58	184.57	185.37	185.29	185.47	185.03	184.45	184.29	184.26	184.08	184.08	
27	184.22	184.43	184.72	185.26	185.19	185.41	184.91	184.44	184.28	184.26	184.12	184.07	
28	184.23	184.68	184.94	185.21	185.19	185.22	184.85	184.42	184.28	184.26	184.12	184.07	
29	184.48	184.76	184.88	185.15	185.19	185.19	184.85	184.42	184.28	184.26		184.08	
30	184.40	184.73	184.82	185.16	185.18	185.11	184.85	184.42	184.27	184.26		184.10	
31		184.62		185.19	185.17		184.77		184.26	184.26		184.09	
Mean	184.24	184.38	184.73	186.52	185.65	185.33	185.00	184.54	184.35	184.26	184.16	184.10	
Max	184.48	184.93	185.51	189.40	187.30	186.39	185.50	184.69	184.41	184.31	184.22	184.14	189.40
Min	184.15	184.16	184.52	185.15	185.14	184.91	184.77	184.42	184.26	184.24	184.08	184.07	184.07
Annual Max Momentary Gage Height	189.81		m. (MSL.) ,				at 04.00 Hours , on Jul 6 , 2009						
Zero Gage at Bottom Elevation	182.80		m. (MSL.) ,			River Bed	181.52		m. (MSL)				
Left Bank Elevation		196.52		m. (MSL.) ,									
Right Bank Elevation		196.47		m. (MSL.) ,		Drainage Area	2170		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.30	17.40	60.50	233.35	99.45	121.55	71.40	44.75	23.75	13.90	10.40	6.20	
2	7.95	14.60	41.00	219.30	105.40	102.85	68.85	43.25	23.75	13.90	9.00	6.20	
3	8.30	11.80	38.75	202.30	113.05	95.20	66.50	42.50	23.00	13.90	8.65	5.85	
4	8.30	12.50	38.75	185.30	91.80	90.95	65.75	41.75	22.30	13.90	8.30	5.85	
5	8.65	13.20	44.75	371.10	87.55	84.15	72.25	40.25	22.30	13.90	8.30	5.50	
6	9.00	11.10	111.35	494.00	79.90	79.90	71.40	41.00	22.30	13.20	8.30	5.50	
7	8.30	8.65	88.40	395.30	98.60	72.25	71.40	41.00	22.30	13.20	8.30	5.50	
8	8.30	7.95	52.25	288.00	117.30	70.55	68.85	40.25	21.60	13.90	8.30	5.50	
9	8.30	8.30	42.50	205.70	119.00	70.55	63.50	40.25	21.60	14.60	8.30	5.50	
10	11.10	8.30	46.25	167.45	101.15	68.85	61.25	38.75	21.60	16.70	7.95	5.50	
11	16.00	7.60	44.75	139.40	100.30	68.00	61.25	35.75	21.60	13.20	7.95	5.50	
12	26.75	9.70	37.25	197.20	141.10	68.00	68.85	34.25	20.90	13.20	7.60	5.50	
13	26.00	8.30	34.25	146.20	196.35	68.85	64.25	34.25	20.90	13.20	7.60	5.50	
14	13.90	9.70	32.00	346.00	194.65	70.55	64.25	33.50	20.90	13.20	7.60	5.50	
15	17.40	10.40	33.50	240.00	270.00	65.00	65.00	32.75	20.90	13.20	7.25	5.50	
16	18.10	11.10	35.75	180.20	228.60	61.25	73.10	32.00	20.90	13.20	7.25	5.15	
17	15.30	16.70	47.00	158.95	173.40	79.90	59.00	31.25	20.90	13.20	7.25	5.85	
18	10.40	17.40	63.50	248.00	150.45	186.15	56.00	30.50	20.90	12.50	7.25	6.20	
19	9.00	20.20	59.00	350.00	147.90	182.75	55.25	30.50	20.20	11.80	7.25	5.50	
20	9.00	62.75	54.50	222.90	135.15	105.40	56.00	30.50	19.50	11.80	7.25	6.90	
21	8.65	43.25	44.75	176.80	119.85	104.55	91.80	29.75	18.80	11.80	7.60	6.90	
22	8.30	25.25	37.25	150.45	109.65	130.90	110.50	29.75	18.10	11.80	7.25	6.55	
23	7.95	18.80	34.25	176.80	108.80	145.35	106.25	28.25	17.40	12.50	7.25	5.50	
24	7.60	20.20	32.00	128.35	124.10	119.85	84.15	27.50	16.70	13.20	6.90	5.15	
25	7.25	38.75	33.50	110.50	99.45	103.70	79.05	26.75	16.00	13.20	6.55	5.15	
26	7.25	36.50	35.75	99.45	92.65	107.95	70.55	26.75	15.30	13.20	4.80	4.80	
27	10.40	25.25	47.00	90.10	84.15	102.85	61.25	26.00	14.60	13.20	6.20	4.45	
28	11.10	44.00	63.50	85.85	84.15	86.70	56.75	24.50	14.60	13.20	6.20	4.45	
29	29.00	50.00	59.00	80.75	84.15	84.15	56.75	24.50	14.60	13.20		4.80	
30	23.00	47.75	54.50	81.60	83.30	77.35	56.75	24.50	13.90	13.20		5.50	
31		39.50		84.15	82.45		50.75		13.20	13.20		5.15	
Total	368.85	676.90	1447.50	6255.45	3823.80	2876.00	2128.65	1007.25	605.30	411.30	212.80	172.60	19986.40 CMSDAY
Mean	12.30	21.84	48.25	201.79	123.35	95.87	68.67	33.58	19.53	13.27	7.60	5.57	54.76 CMS
Max	29.00	62.75	111.35	494.00	270.00	186.15	110.50	44.75	23.75	16.70	10.40	6.90	494.00 CMS
Min	7.25	7.60	32.00	80.75	79.90	61.25	50.75	24.50	13.20	11.80	4.80	4.45	4.45 CMS
Runoff	31.87	58.48	125.06	540.47	330.38	248.49	183.92	87.03	52.30	35.54	18.39	14.91	1726.83 MCM
Momentary Peak	543.20 CMS. at 189.81 m. (MSL.) at 04.00 Hours , on Jul 6 , 2009												
Runoff Yield	25.23 Liters/Second/Square KM.			Momentary Peak Yield				250.323 Liters/Second/Square KM.					

WATER YEAR : 2009

NAN RIVER BASIN

Khleng Huai Chan at Ban Nong Khon, Nakhon Sawan (N.76)

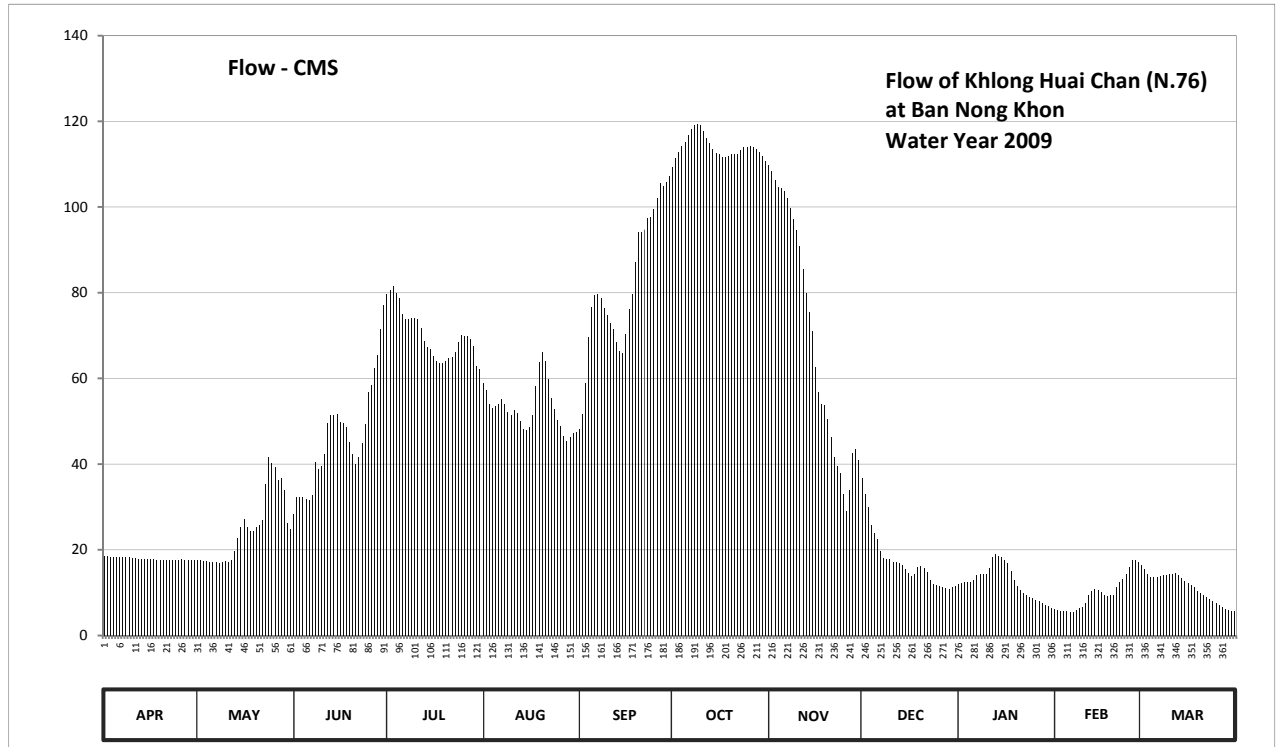
Lat 15 - 55 - 38 N Long 100 - 13 - 44 E

Location : on right bank at Ban Nong Khon

	Ban	Nong Khon	Amphoe	Chum Saeng	Changwat	Nakhon Sawan
Drainage Area	-	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge				Elevation	+27.770 m. (M.S.L.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 7 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.25	22.18	22.88	25.14	24.34	23.87	26.12	26.13	23.32	21.76	21.26	22.11	
2	22.25	22.18	23.09	25.17	24.27	24.03	26.18	26.09	23.14	21.79	21.23	22.04	
3	22.24	22.17	23.10	25.20	24.13	24.34	26.23	26.02	22.96	21.80	21.22	21.96	
4	22.24	22.17	23.10	25.15	24.09	24.76	26.27	25.97	22.73	21.80	21.21	21.91	
5	22.24	22.15	23.07	25.10	24.11	25.03	26.30	25.96	22.61	21.80	21.20	21.90	
6	22.23	22.15	23.05	24.97	24.13	25.13	26.35	25.94	22.52	21.84	21.19	21.91	
7	22.23	22.15	23.12	24.92	24.18	25.14	26.39	25.89	22.34	21.93	21.19	21.92	
8	22.23	22.14	23.51	24.92	24.13	25.10	26.42	25.82	22.22	21.96	21.24	21.93	
9	22.23	22.16	23.43	24.93	24.05	25.02	26.43	25.73	22.21	21.95	21.27	21.93	
10	22.22	22.17	23.46	24.93	24.02	24.96	26.42	25.65	22.20	21.96	21.29	21.95	
11	22.22	22.15	23.60	24.92	24.07	24.89	26.38	25.52	22.16	22.05	21.39	21.96	
12	22.21	22.18	23.93	24.84	24.04	24.83	26.33	25.34	22.16	22.23	21.56	21.97	
13	22.21	22.34	24.02	24.73	23.96	24.72	26.29	25.15	22.14	22.28	21.64	21.94	
14	22.21	22.53	24.02	24.67	23.87	24.64	26.25	24.99	22.10	22.25	21.67	21.88	
15	22.20	22.69	24.03	24.65	23.86	24.62	26.22	24.82	22.04	22.23	21.65	21.83	
16	22.20	22.81	23.95	24.59	23.89	24.79	26.21	24.49	21.97	22.18	21.61	21.79	
17	22.20	22.69	23.93	24.55	24.02	25.01	26.19	24.25	21.92	22.13	21.56	21.75	
18	22.19	22.64	23.89	24.53	24.31	25.14	26.19	24.13	21.96	22.00	21.52	21.70	
19	22.19	22.64	23.73	24.53	24.54	25.40	26.20	24.12	22.07	21.84	21.54	21.64	
20	22.19	22.69	23.61	24.55	24.63	25.63	26.21	23.98	22.08	21.73	21.54	21.59	
21	22.19	22.72	23.49	24.57	24.55	25.63	26.21	23.79	22.05	21.65	21.71	21.55	
22	22.19	22.79	23.57	24.58	24.38	25.65	26.21	23.57	21.98	21.59	21.80	21.51	
23	22.18	23.25	23.72	24.63	24.19	25.74	26.24	23.47	21.85	21.54	21.87	21.47	
24	22.18	23.57	23.92	24.72	24.08	25.75	26.26	23.38	21.77	21.50	21.96	21.43	
25	22.19	23.50	24.25	24.78	23.97	25.81	26.26	23.14	21.74	21.48	22.07	21.38	
26	22.20	23.45	24.32	24.77	23.90	25.89	26.27	22.91	21.72	21.45	22.18	21.34	
27	22.19	23.30	24.48	24.77	23.80	26.00	26.26	23.19	21.70	21.42	22.19	21.30	
28	22.19	23.33	24.60	24.74	23.74	25.98	26.25	23.62	21.68	21.38	22.15	21.26	
29	22.18	23.19	24.83	24.68	23.79	26.01	26.23	23.66	21.67	21.34		21.23	
30	22.18	22.75	25.05	24.50	23.83	26.05	26.20	23.54	21.71	21.31		21.20	
31		22.66		24.47	23.84		26.16		21.73	21.28		21.20	
Mean	22.21	22.63	23.76	24.78	24.09	25.19	26.26	24.68	22.14	21.79	21.57	21.69	
Max	22.25	23.57	25.05	25.20	24.63	26.05	26.43	26.13	23.32	22.28	22.19	22.11	26.43
Min	22.18	22.14	22.88	24.47	23.74	23.87	26.12	22.91	21.67	21.28	21.19	21.20	21.19
Annual Max Momentary Gage Height	26.44		m. (MSL) ,				at 12.00 Hours , on Oct 9 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL) ,			River Bed	19.67		m. (MSL)				
Left Bank Elevation	27.71		m. (MSL) ,										
Right Bank Elevation	27.73		m. (MSL) ,			Drainage Area			Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.50	17.52	28.44	79.72	58.96	48.14	109.44	109.76	36.60	11.92	6.26	16.54	
2	18.50	17.52	32.22	80.56	57.28	51.66	111.36	108.48	33.12	12.28	5.93	15.56	
3	18.36	17.38	32.40	81.40	53.92	58.96	112.96	106.24	29.88	12.40	5.82	14.44	
4	18.36	17.38	32.40	80.00	52.98	69.56	114.24	104.64	25.88	12.40	5.71	13.74	
5	18.36	17.10	31.86	78.60	53.44	76.64	115.20	104.32	23.96	12.40	5.60	13.60	
6	18.22	17.10	31.50	75.02	53.92	79.44	116.80	103.68	22.52	12.88	5.50	13.74	
7	18.22	17.10	32.76	73.72	55.12	79.72	118.08	102.08	19.76	14.02	5.50	13.88	
8	18.22	16.96	40.40	73.72	53.92	78.60	119.08	99.84	18.08	14.44	6.04	14.02	
9	18.22	17.24	38.80	73.98	52.10	76.36	119.42	97.10	17.94	14.30	6.37	14.02	
10	18.08	17.38	39.40	73.98	51.44	74.76	119.08	94.70	17.80	14.44	6.59	14.30	
11	18.08	17.10	42.20	73.72	52.54	72.94	117.76	90.80	17.24	15.70	7.69	14.44	
12	17.94	17.52	49.46	71.64	51.88	71.38	116.16	85.40	17.24	18.22	9.56	14.58	
13	17.94	19.76	51.44	68.78	50.12	68.52	114.88	80.00	16.96	18.92	10.48	14.16	
14	17.94	22.68	51.44	67.22	48.14	66.44	113.60	75.54	16.40	18.50	10.84	13.36	
15	17.80	25.24	51.66	66.70	47.92	65.92	112.64	71.12	15.56	18.22	10.60	12.76	
16	17.80	27.18	49.90	65.14	48.58	70.34	112.32	62.56	14.58	17.52	10.12	12.28	
17	17.80	25.24	49.46	64.10	51.44	76.08	111.68	56.80	13.88	16.82	9.56	11.80	
18	17.66	24.44	48.58	63.58	58.24	79.72	111.68	53.92	14.44	15.00	9.12	11.20	
19	17.66	24.44	45.06	63.58	63.84	87.20	112.00	53.68	15.98	12.88	9.34	10.48	
20	17.66	25.24	42.42	64.10	66.18	94.10	112.32	50.56	16.12	11.56	9.34	9.89	
21	17.66	25.72	40.00	64.62	64.10	94.10	112.32	46.38	15.70	10.60	11.32	9.45	
22	17.66	26.84	41.60	64.88	59.92	94.70	112.32	41.60	14.72	9.89	12.40	9.01	
23	17.52	35.20	44.84	66.18	55.36	97.40	113.28	39.60	13.00	9.34	13.24	8.57	
24	17.52	41.60	49.24	68.52	52.76	97.70	113.92	37.80	12.04	8.90	14.44	8.13	
25	17.66	40.20	56.80	70.08	50.34	99.52	113.92	33.12	11.68	8.68	15.98	7.58	
26	17.80	39.20	58.48	69.82	48.80	102.08	114.24	28.98	11.44	8.35	17.52	7.14	
27	17.66	36.20	62.32	69.82	46.60	105.60	113.92	34.02	11.20	8.02	17.66	6.70	
28	17.66	36.80	65.40	69.04	45.28	104.96	113.60	42.64	10.96	7.58	17.10	6.26	
29	17.52	34.02	71.38	67.48	46.38	105.92	112.96	43.52	10.84	7.14		5.93	
30	17.52	26.20	77.20	62.80	47.26	107.20	112.00	41.00	11.32	6.81		5.60	
31	24.76			62.08	47.48		110.72		11.56	6.48		5.60	
Total	537.50	768.26	1389.06	2174.58	1646.24	2455.66	3533.90	2099.88	538.40	386.61	275.63	348.76	16154.48 CMSDAY
Mean	17.92	24.78	46.30	70.15	53.10	81.86	114.00	70.00	17.37	12.47	9.84	11.25	44.26 CMS
Max	18.50	41.60	77.20	81.40	66.18	107.20	119.42	109.76	36.60	18.92	17.66	16.54	119.42 CMS
Min	17.52	16.96	28.44	62.08	45.28	48.14	109.44	28.98	10.84	6.48	5.50	5.60	5.50 CMS
Runoff	46.44	66.38	120.02	187.88	142.24	212.17	305.33	181.43	46.52	33.40	23.81	30.13	1395.75 MCM
Momentary Peak	119.76 CMS. at 26.44 m. (MSL) at 12.00 Hours , on Oct 9 , 2009												
Runoff Yield	***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.												

WATER YEAR : 2009

NAN RIVER BASIN

Khlong Huai Ruaw at Ban Yang Yai, Nakhon Sawan (N.79)

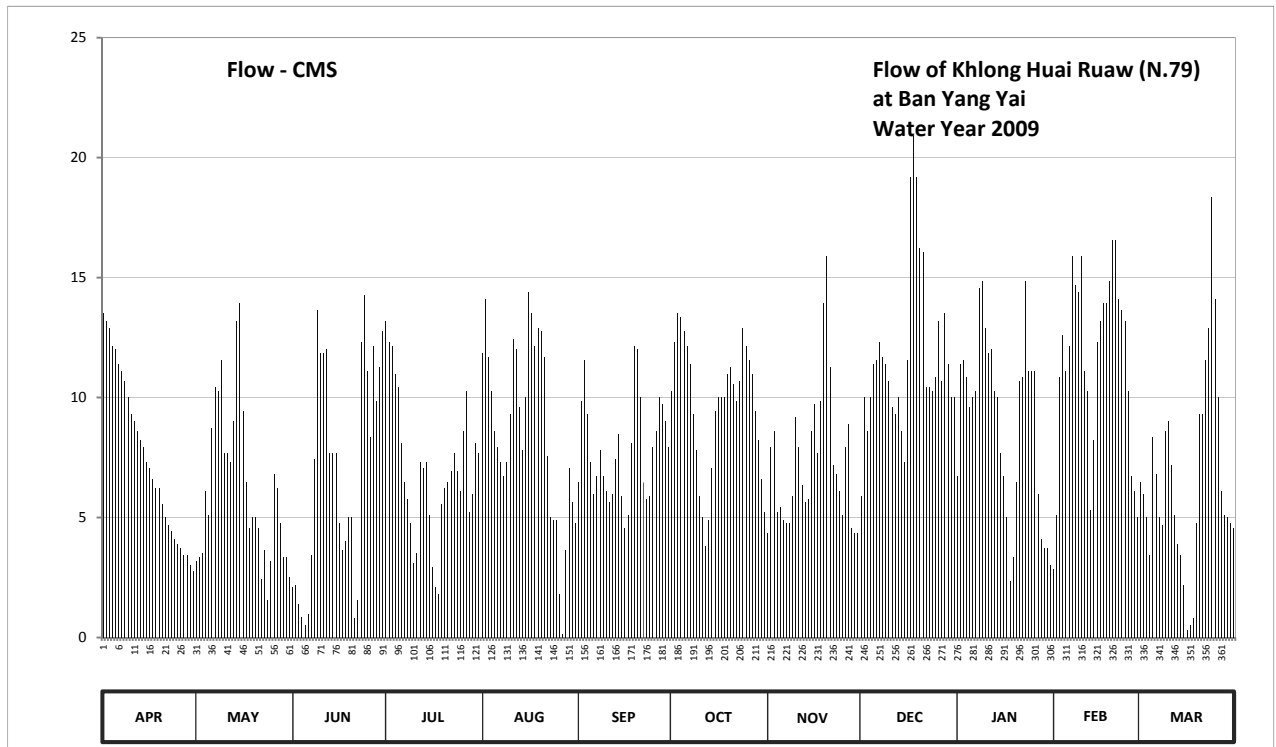
Lat 15 - 52 - 32 N Long 100 - 08 - 16 E

Location : on left bank at Ban Yang Yai

	Ban	Yang Yai	Amphoe	Kao Liao	Changwat	Nakhon Sawan
Drainage Area	-	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge				Elevation	+25.865 m. (M.S.L.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records poor. Stage-discharge relation defined by 8 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.44	24.62	24.49	25.42	25.33	24.93	25.22	24.74	24.88	24.95	24.58	24.93	
2	25.42	24.64	24.50	25.36	25.48	25.19	25.36	25.05	25.20	25.30	24.81	24.89	
3	25.40	24.66	24.40	25.35	25.32	25.31	25.44	25.10	25.10	25.31	25.26	24.80	
4	25.35	24.90	24.31	25.27	25.22	25.15	25.43	24.82	25.20	25.26	25.38	24.65	
5	25.34	24.81	24.25	25.23	25.10	25.00	25.39	24.84	25.30	25.17	25.28	25.08	
6	25.30	25.11	24.33	25.06	25.05	24.89	25.35	24.79	25.31	25.20	25.35	24.96	
7	25.28	25.23	24.65	24.93	25.00	24.95	25.30	24.78	25.36	25.22	25.60	24.80	
8	25.25	25.22	25.01	24.87	24.95	25.04	25.15	24.78	25.32	25.51	25.52	24.77	
9	25.20	25.31	25.45	24.78	25.00	24.95	25.04	24.88	25.30	25.53	25.50	25.10	
10	25.15	25.03	25.33	24.61	25.15	24.90	24.88	25.14	25.25	25.40	25.60	25.13	
11	25.13	25.03	25.33	24.66	25.37	24.86	24.80	25.05	25.17	25.33	25.28	24.99	
12	25.10	25.00	25.34	25.00	25.34	24.89	24.69	24.92	25.15	25.34	25.22	24.81	
13	25.07	25.13	25.03	24.98	25.17	25.01	24.79	24.86	25.20	25.22	24.83	24.70	
14	25.05	25.42	25.03	25.00	25.04	25.09	24.98	24.87	25.10	25.20	25.07	24.65	
15	25.00	25.47	25.03	24.81	25.20	24.88	25.16	25.10	25.00	25.03	25.36	24.50	
16	24.98	25.16	24.78	24.59	25.50	24.76	25.20	25.18	25.31	24.95	25.42	24.22	
17	24.94	24.93	24.67	24.49	25.44	24.81	25.20	25.03	25.80	24.80	25.47	24.25	
18	24.91	24.76	24.71	24.45	25.35	25.06	25.20	25.19	25.90	24.52	25.47	24.30	
19	24.91	24.80	24.80	24.85	25.40	25.35	25.27	25.47	25.80	24.64	25.53	24.78	
20	24.85	24.80	24.80	24.91	25.39	25.34	25.29	25.60	25.62	24.93	25.64	25.15	
21	24.80	24.76	24.30	24.93	25.32	25.20	25.24	25.29	25.61	25.25	25.64	25.15	
22	24.77	24.53	24.42	24.97	25.02	24.93	25.19	24.99	25.23	25.26	25.48	25.31	
23	24.75	24.67	25.36	25.03	24.80	24.87	25.25	24.96	25.23	25.53	25.45	25.40	
24	24.72	24.42	25.49	24.97	24.79	24.88	25.40	24.90	25.22	25.28	25.42	25.75	
25	24.70	24.62	25.28	24.90	24.79	25.05	25.35	24.81	25.26	25.28	25.22	25.48	
26	24.68	24.96	25.08	25.10	24.45	25.10	25.31	25.05	25.42	25.28	24.95	25.20	
27	24.65	24.91	25.35	25.22	24.19	25.20	25.27	25.12	25.25	24.89	24.90	24.90	
28	24.65	24.78	25.19	24.82	24.67	25.18	25.16	24.76	25.44	24.72	24.80	24.81	
29	24.60	24.64	25.29	24.89	24.98	25.13	25.07	24.74	25.30	24.68		24.80	
30	24.57	24.64	25.39	25.06	24.86	25.05	24.94	24.74	25.20	24.68		24.78	
31		24.54		25.03	24.78		24.82		25.20	24.60		24.76	
Mean	25.00	24.89	24.91	24.95	25.08	25.03	25.17	24.99	25.31	25.11	25.29	24.90	
Max	25.44	25.47	25.49	25.42	25.50	25.35	25.44	25.60	25.90	25.53	25.64	25.75	25.90
Min	24.57	24.42	24.25	24.45	24.19	24.76	24.69	24.74	24.88	24.52	24.58	24.22	24.19
Annual Max Momentary Gage Height	25.90		m. (MSL.) ,				at 06.00 Hours , on Dec 18 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	23.00	m. (MSL)					
Left Bank Elevation	26.23		m. (MSL.) ,										
Right Bank Elevation	26.24		m. (MSL.) ,			Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.50	3.18	2.12	13.20	11.85	6.46	10.28	4.34	5.88	6.70	2.84	6.46	
2	13.20	3.36	2.20	12.30	14.10	9.86	12.30	7.95	10.00	11.40	5.11	5.99	
3	12.90	3.54	1.40	12.15	11.70	11.55	13.50	8.60	8.60	11.55	10.84	5.00	
4	12.15	6.10	0.86	10.98	10.28	9.30	13.35	5.22	10.00	10.84	12.60	3.45	
5	12.00	5.11	0.50	10.42	8.60	7.30	12.75	5.44	11.40	9.58	11.12	8.34	
6	11.40	8.74	0.98	8.08	7.95	5.99	12.15	4.89	11.55	10.00	12.15	6.82	
7	11.12	10.42	3.45	6.46	7.30	6.70	11.40	4.78	12.30	10.28	15.90	5.00	
8	10.70	10.28	7.43	5.77	6.70	7.82	9.30	4.78	11.70	14.55	14.70	4.67	
9	10.00	11.55	13.65	4.78	7.30	6.70	7.82	5.88	11.40	14.85	14.40	8.60	
10	9.30	7.69	11.85	3.09	9.30	6.10	5.88	9.16	10.70	12.90	15.90	9.02	
11	9.02	7.69	11.85	3.54	12.45	5.66	5.00	7.95	9.58	11.85	11.12	7.18	
12	8.60	7.30	12.00	7.30	12.00	5.99	3.81	6.34	9.30	12.00	10.28	5.11	
13	8.21	9.02	7.69	7.06	9.58	7.43	4.89	5.66	10.00	10.28	5.33	3.90	
14	7.95	13.20	7.69	7.30	7.82	8.47	7.06	5.77	8.60	10.00	8.21	3.45	
15	7.30	13.95	7.69	5.11	10.00	5.88	9.44	8.60	7.30	7.69	12.30	2.20	
16	7.06	9.44	4.78	2.92	14.40	4.56	10.00	9.72	11.55	6.70	13.20	0.32	
17	6.58	6.46	3.63	2.12	13.50	5.11	10.00	7.69	19.20	5.00	13.95	0.50	
18	6.22	4.56	4.01	1.80	12.15	8.08	10.00	9.86	20.90	2.36	13.95	0.80	
19	6.22	5.00	5.00	5.55	12.90	12.15	10.98	13.95	19.20	3.36	14.85	4.78	
20	5.55	5.00	5.00	6.22	12.75	12.00	11.26	15.90	16.22	6.46	16.54	9.30	
21	5.00	4.56	0.80	6.46	11.70	10.00	10.56	11.26	16.06	10.70	16.54	9.30	
22	4.67	2.44	1.56	6.94	7.56	6.46	9.86	7.18	10.42	10.84	14.10	11.55	
23	4.45	3.63	12.30	7.69	5.00	5.77	10.70	6.82	10.42	14.85	13.65	12.90	
24	4.12	1.56	14.25	6.94	4.89	5.88	12.90	6.10	10.28	11.12	13.20	18.35	
25	3.90	3.18	11.12	6.10	4.89	7.95	12.15	5.11	10.84	11.12	10.28	14.10	
26	3.72	6.82	8.34	8.60	1.80	8.60	11.55	7.95	13.20	11.12	6.70	10.00	
27	3.45	6.22	12.15	10.28	0.16	10.00	10.98	8.88	10.70	5.99	6.10	6.10	
28	3.45	4.78	9.86	5.22	3.63	9.72	9.44	4.56	13.50	4.12	5.00	5.11	
29	3.00	3.36	11.26	5.99	7.06	9.02	8.21	4.34	11.40	3.72		5.00	
30	2.76	3.36	12.75	8.08	5.66	7.95	6.58	4.34	10.00	3.72		4.78	
31		2.52		7.69	4.78		5.22		10.00	3.00		4.56	
Total	227.50	194.02	208.17	216.14	269.76	234.46	299.32	219.02	362.20	278.65	320.86	202.64	3032.74 CMSDAY
Mean	7.58	6.26	6.94	6.97	8.70	7.82	9.66	7.30	11.68	8.99	11.46	6.54	8.31 CMS
Max	13.50	13.95	14.25	13.20	14.40	12.15	13.50	15.90	20.90	14.85	16.54	18.35	20.90 CMS
Min	2.76	1.56	0.50	1.80	0.16	4.56	3.81	4.34	5.88	2.36	2.84	0.32	0.16 CMS
Runoff	19.656	16.763	17.986	18.674	23.307	20.257	25.861	18.923	31.294	24.075	27.722	17.508	262.029 MCM
Momentary Peak	20.90 CMS. at 25.90 m. (MSL.) at 06.00 Hours , on Dec 18 , 2009												
Runoff Yield	***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.												

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Phai Lom, Nakhon Sawan (C.2)

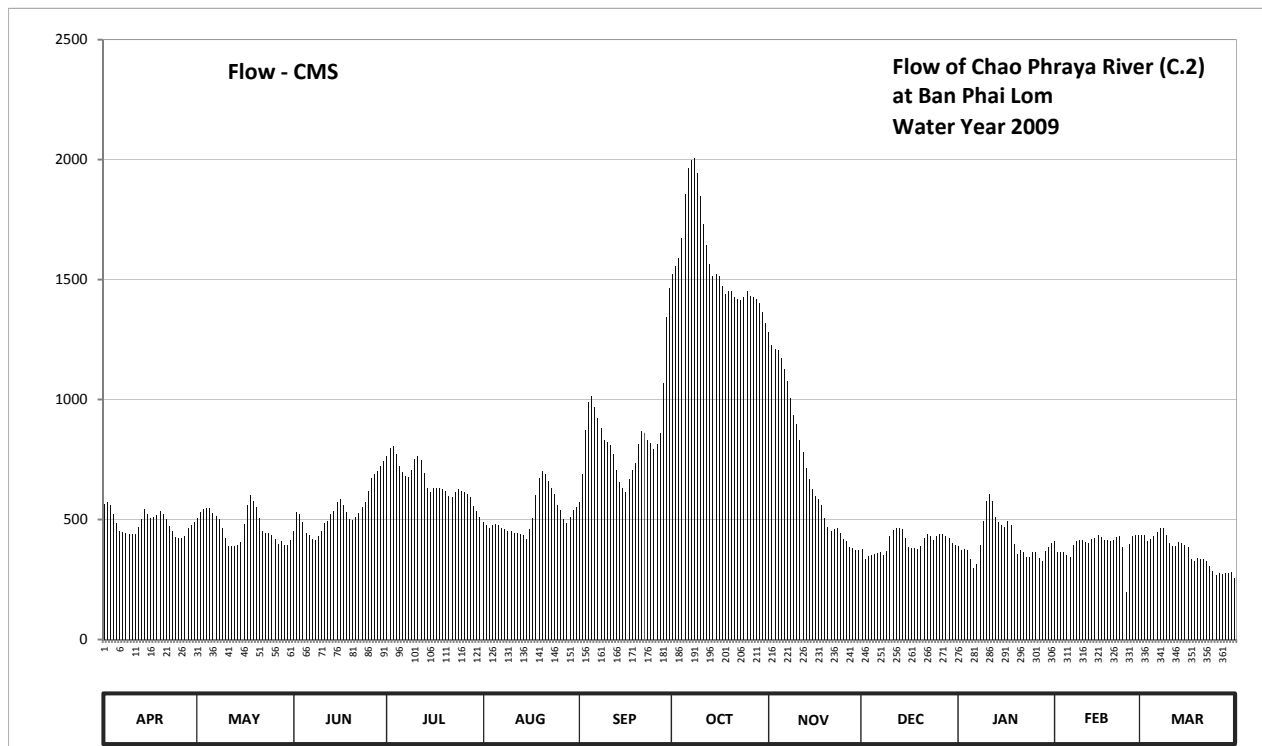
Lat 15 - 40 - 15 N Long 100 - 06 - 49 E

Location : on left bank at Ban Phai Lom

	Ban Phai Lom	Amphoe Mueang	Changwat Nakhon Sawan
Drainage Area	109,973 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (M.S.L.)		
Bench Mark	B.M.-H.D.		
Location BM	About 20.00 meters west of the gage site	Elevation	+25.628 m. (M.S.L.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1914 to date		
Rating Operation			
Period of Rating	1956 to date		
Rated by Flot	-		
Rated by Current Meter	1956 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Phrom Phiram Dam. Stage-discharge relation defined by 120 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.76	19.54	19.31	20.51	19.47	19.80	22.81	22.12	18.96	19.01	19.11	19.22	
2	19.79	19.64	19.63	20.62	19.41	20.25	22.89	21.97	18.76	18.94	18.91	19.22	
3	19.75	19.68	19.61	20.65	19.35	20.87	22.98	21.92	18.83	18.96	18.91	19.11	
4	19.60	19.70	19.47	20.53	19.41	21.25	23.20	21.90	18.85	18.94	18.91	19.14	
5	19.45	19.70	19.26	20.36	19.43	21.32	23.69	21.81	18.87	18.78	18.84	19.20	
6	19.30	19.62	19.22	20.28	19.41	21.18	23.96	21.67	18.89	18.59	18.81	19.28	
7	19.28	19.57	19.15	20.21	19.35	21.03	24.04	21.52	18.91	18.68	19.03	19.36	
8	19.27	19.51	19.12	20.20	19.34	20.89	24.07	21.30	18.85	19.04	19.11	19.35	
9	19.24	19.35	19.21	20.30	19.31	20.73	23.91	21.08	18.92	19.48	19.13	19.23	
10	19.24	19.17	19.29	20.46	19.29	20.70	23.66	20.95	19.21	19.81	19.12	19.07	
11	19.25	19.01	19.45	20.50	19.26	20.66	23.36	20.73	19.32	19.93	19.10	19.02	
12	19.37	19.01	19.48	20.45	19.26	20.53	23.12	20.56	19.35	19.81	19.08	19.02	
13	19.51	19.02	19.61	20.26	19.25	20.30	22.92	20.33	19.36	19.56	19.14	19.09	
14	19.68	19.04	19.65	20.02	19.23	20.11	22.78	20.16	19.34	19.46	19.17	19.07	
15	19.60	19.09	19.79	19.95	19.15	20.01	22.81	20.00	19.16	19.42	19.23	19.03	
16	19.54	19.43	19.84	20.01	19.33	19.95	22.78	19.89	18.99	19.38	19.18	19.00	
17	19.55	19.75	19.75	20.01	19.53	20.16	22.67	19.85	18.98	19.49	19.12	18.76	
18	19.59	19.91	19.63	20.01	19.91	20.30	22.58	19.75	18.97	19.42	19.13	18.73	
19	19.66	19.81	19.51	20.00	20.18	20.41	22.61	19.53	18.96	19.06	19.11	18.79	
20	19.61	19.71	19.50	19.97	20.29	20.67	22.62	19.37	19.01	18.86	19.12	18.77	
21	19.51	19.53	19.55	19.89	20.24	20.85	22.55	19.30	19.17	18.94	19.18	18.76	
22	19.39	19.30	19.62	19.88	20.13	20.83	22.52	19.33	19.25	18.91	19.20	18.73	
23	19.29	19.26	19.71	19.96	20.01	20.73	22.51	19.35	19.20	18.80	19.00	18.63	
24	19.18	19.26	19.79	20.00	19.93	20.69	22.55	19.26	19.13	18.81	18.04	18.53	
25	19.16	19.23	19.97	19.97	19.75	20.60	22.61	19.14	19.20	18.91	19.05	18.45	
26	19.17	19.15	20.17	19.95	19.67	20.67	22.56	19.11	19.25	18.91	19.20	18.48	
27	19.20	19.06	20.24	19.93	19.51	20.82	22.54	19.00	19.25	18.79	19.22	18.47	
28	19.36	19.11	20.29	19.87	19.44	21.50	22.52	18.97	19.21	18.73	19.23	18.48	
29	19.41	19.03	20.37	19.74	19.55	22.31	22.48	18.94	19.16	18.93		18.48	
30	19.47	19.03	20.44	19.66	19.67	22.65	22.37	18.95	19.07	19.00		18.51	
31		19.12		19.55	19.71		22.24		19.04	19.08		18.38	
Mean	19.44	19.37	19.65	20.12	19.57	20.76	22.93	20.26	19.08	19.11	19.05	18.88	
Max	19.79	19.91	20.44	20.65	20.29	22.65	24.07	22.12	19.36	19.93	19.23	19.36	24.07
Min	19.16	19.01	19.12	19.55	19.15	19.80	22.24	18.94	18.76	18.59	18.04	18.38	18.04
Annual Max Momentary Gage Height	24.10		m. (MSL) ,			at 05.00 Hours , on Oct 8 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL) ,			River Bed	13.37	m. (MSL)					
Left Bank Elevation	24.79		m. (MSL) ,										
Right Bank Elevation	24.85		m. (MSL) ,			Drainage Area	109973	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	563.60	507.60	454.20	765.00	490.80	574.00	1523.80	1278.80	377.20	388.20	410.20	434.40		
2	571.40	532.40	529.80	798.00	476.40	691.00	1554.20	1227.80	333.20	372.80	366.20	434.40		
3	561.00	542.80	524.60	807.00	463.00	873.00	1588.40	1210.80	348.60	377.20	366.20	410.20		
4	522.00	548.00	490.80	771.00	476.40	990.00	1672.00	1204.00	353.00	372.80	366.20	416.80		
5	486.00	548.00	443.20	720.80	481.20	1012.40	1858.20	1173.40	357.40	337.60	350.80	430.00		
6	452.00	527.20	434.40	698.80	476.40	967.60	1964.00	1125.80	361.80	298.00	344.20	447.60		
7	447.60	514.80	419.00	680.60	463.00	921.00	1996.00	1076.40	366.20	316.00	392.60	465.20		
8	445.40	500.40	412.40	678.00	460.80	879.00	2008.00	1006.00	353.00	394.80	410.20	463.00		
9	438.80	463.00	432.20	704.00	454.20	831.00	1944.00	936.00	368.40	493.20	414.60	436.60		
10	438.80	423.40	449.80	750.00	449.80	822.00	1846.80	897.00	432.20	576.60	412.40	401.40		
11	441.00	388.20	486.00	762.00	443.20	810.00	1732.80	831.00	456.40	607.80	408.00	390.40		
12	467.40	388.20	493.20	747.00	443.20	771.00	1641.60	780.00	463.00	576.60	403.60	390.40		
13	500.40	390.40	524.60	693.60	441.00	704.00	1565.60	712.40	465.20	512.40	416.80	405.80		
14	542.80	394.80	535.00	631.20	436.60	654.60	1512.40	667.60	460.80	488.40	423.40	401.40		
15	522.00	405.80	571.40	613.00	419.00	628.60	1523.80	626.00	421.20	478.80	436.60	392.60		
16	507.60	481.20	584.40	628.60	458.60	613.00	1512.40	597.40	383.80	469.60	425.60	386.00		
17	510.00	561.00	561.00	628.60	505.20	667.60	1471.20	587.00	381.60	495.60	412.40	333.20		
18	519.60	602.60	529.80	628.60	602.60	704.00	1438.80	561.00	379.40	478.80	414.60	326.60		
19	537.60	576.60	500.40	626.00	672.80	735.00	1449.60	505.20	377.20	399.20	410.20	339.80		
20	524.60	550.60	498.00	618.20	701.40	813.00	1453.20	467.40	388.20	355.20	412.40	335.40		
21	500.40	505.20	510.00	597.40	688.40	867.00	1428.00	452.00	423.40	372.80	425.60	333.20		
22	471.80	452.00	527.20	594.80	659.80	861.00	1417.20	458.60	441.00	366.20	430.00	326.60		
23	449.80	443.20	550.60	615.60	628.60	831.00	1413.60	463.00	430.00	342.00	386.00	306.00		
24	425.60	443.20	571.40	626.00	607.80	819.00	1428.00	443.20	414.60	344.20	198.40	286.00		
25	421.20	436.60	618.20	618.20	561.00	792.00	1449.60	416.80	430.00	366.20	397.00	270.00		
26	423.40	419.00	670.20	613.00	540.20	813.00	1431.60	410.20	441.00	366.20	430.00	276.00		
27	430.00	399.20	688.40	607.80	500.40	858.00	1424.40	386.00	441.00	339.80	434.40	274.00		
28	465.20	410.20	701.40	592.20	483.60	1070.00	1417.20	379.40	432.20	326.60	436.60	276.00		
29	476.40	392.60	723.60	558.40	510.00	1343.40	1402.80	372.80	421.20	370.60		276.00		
30	490.80	392.60	744.00	537.60	540.20	1464.00	1363.80	375.00	401.40	386.00		282.00		
31		412.40		510.00	550.60		1319.60		394.80	403.60		256.40		
Total	14554.20	14553.20	16179.20	20421.00	16086.20	25380.20	48752.60	21628.00	12498.40	12773.80	11135.20	11203.40	225165.40	CMSDAY
Mean	485.10	469.50	539.30	658.70	518.90	846.00	1572.70	720.90	403.20	412.10	397.70	361.40	616.90	CMS
Max	571.40	602.60	744.00	807.00	701.40	1464.00	2008.00	1278.80	465.20	607.80	436.60	465.20	2008.00	CMS
Min	421.20	388.20	412.40	510.00	419.00	574.00	1319.60	372.80	333.20	298.00	198.40	256.40	198.40	CMS
Runoff	1257.48	1257.4	1397.88	1764.37	1389.85	2192.85	4212.23	1868.66	1079.86	1103.66	962.08	967.97	19454.29	MCM
Momentary Peak	2020.00 CMS. at 24.10 m. (MSL) at 05.00 Hours , on Oct 8 , 2009													
Runoff Yield	5.61 Liters/Second/Square KM.			Momentary Peak Yield			18.368 Liters/Second/Square KM.							

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Klang Dad, Nakhon Sawan (C.2A)

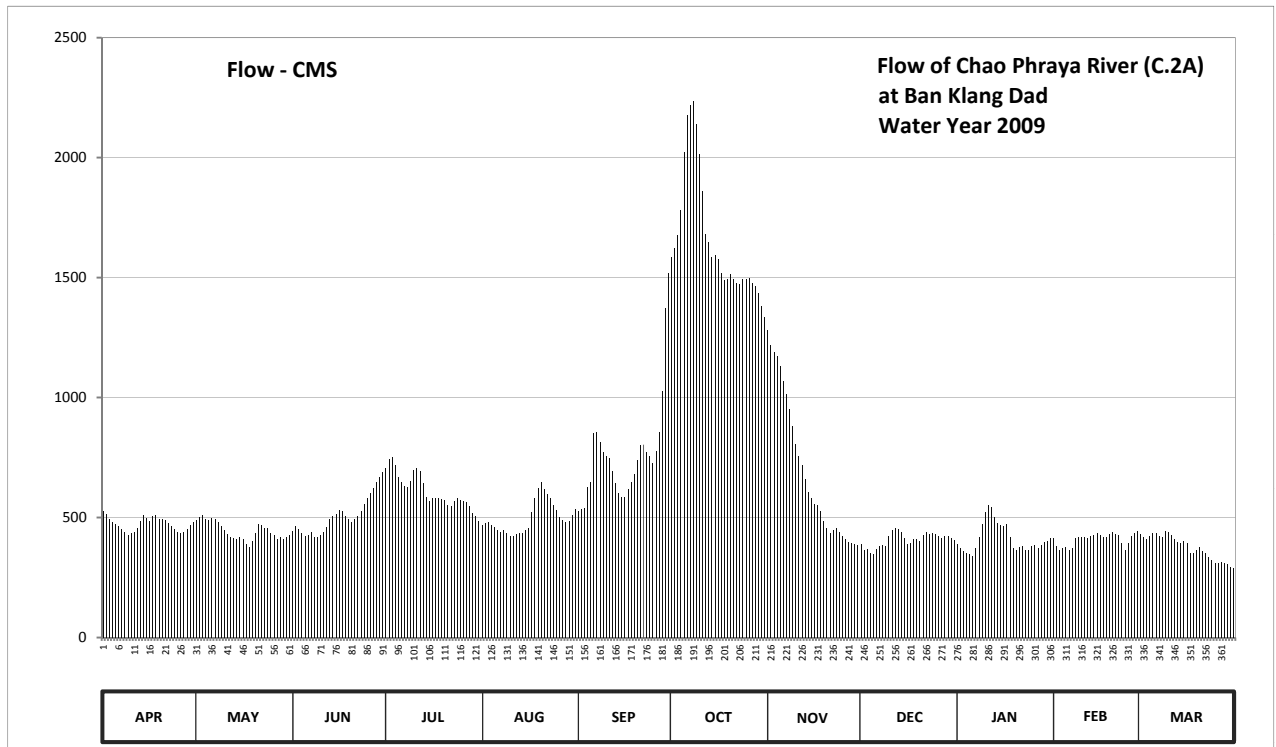
Lat 15 - 37 - 56 N Long 100 - 06 - 03 E

Location : on left bank at Ban Klang Dad

	Ban Klang Dad	Amphoe Mueang	Changwat Nakhon Sawan
Drainage Area	- sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (M.S.L.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		Elevation +24.220 m. (M.S.L.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.53	19.34	19.08	20.26	19.23	19.53	22.40	21.76	18.78	18.79	18.91	19.02	
2	19.47	19.41	19.20	20.38	19.26	19.57	22.47	21.63	18.63	18.69	18.74	18.95	
3	19.37	19.44	19.14	20.41	19.28	19.59	22.57	21.56	18.67	18.62	18.63	18.90	
4	19.29	19.36	19.03	20.29	19.23	19.95	22.78	21.53	18.58	18.57	18.69	18.96	
5	19.24	19.33	18.97	20.12	19.17	20.05	23.22	21.43	18.54	18.55	18.71	19.03	
6	19.19	19.39	18.99	20.04	19.11	20.73	23.50	21.28	18.66	18.50	18.63	19.04	
7	19.12	19.35	19.05	19.97	19.07	20.74	23.57	21.15	18.73	18.70	18.70	18.96	
8	19.05	19.28	18.94	19.96	19.10	20.61	23.60	20.99	18.75	18.94	18.92	18.94	
9	18.98	19.19	18.94	20.06	19.03	20.48	23.43	20.81	18.73	19.25	18.95	19.08	
10	19.04	19.11	18.99	20.22	18.97	20.43	23.20	20.58	18.96	19.51	18.94	19.05	
11	19.05	19.02	19.06	20.26	18.97	20.40	22.92	20.43	19.11	19.65	18.93	18.98	
12	19.15	18.95	19.18	20.21	19.01	20.21	22.58	20.29	19.16	19.60	18.91	18.90	
13	19.31	18.92	19.36	20.02	19.04	20.02	22.52	20.09	19.12	19.40	18.96	18.82	
14	19.45	18.89	19.42	19.78	19.03	19.85	22.40	19.88	19.05	19.27	18.99	18.80	
15	19.39	18.93	19.47	19.71	19.11	19.78	22.41	19.77	18.92	19.23	19.03	18.84	
16	19.31	18.90	19.55	19.77	19.16	19.78	22.38	19.67	18.79	19.20	18.99	18.80	
17	19.43	18.78	19.53	19.76	19.51	19.92	22.26	19.64	18.81	19.25	18.93	18.58	
18	19.44	18.72	19.43	19.77	19.77	20.04	22.20	19.52	18.89	18.94	18.94	18.58	
19	19.36	18.84	19.35	19.75	19.94	20.17	22.21	19.32	18.90	18.68	19.01	18.64	
20	19.36	19.04	19.29	19.73	20.04	20.37	22.25	19.15	18.85	18.63	19.06	18.72	
21	19.33	19.25	19.37	19.65	19.93	20.57	22.21	19.04	19.00	18.72	19.02	18.62	
22	19.26	19.23	19.43	19.63	19.83	20.58	22.18	19.11	19.07	18.74	19.00	18.56	
23	19.19	19.16	19.53	19.72	19.77	20.48	22.17	19.16	19.02	18.65	18.81	18.48	
24	19.12	19.15	19.66	19.76	19.65	20.43	22.21	19.06	19.04	18.65	18.65	18.40	
25	19.05	19.03	19.77	19.73	19.54	20.32	22.21	18.97	19.01	18.74	18.81	18.32	
26	19.03	19.00	19.86	19.71	19.41	20.50	22.22	18.89	18.96	18.77	18.97	18.32	
27	19.06	18.90	19.94	19.69	19.33	20.74	22.18	18.83	18.92	18.70	19.03	18.35	
28	19.12	18.93	20.04	19.63	19.28	21.19	22.15	18.80	18.96	18.77	19.08	18.34	
29	19.23	18.89	20.13	19.50	19.32	21.96	22.09	18.79	18.97	18.82		18.30	
30	19.30	18.93	20.19	19.42	19.45	22.26	21.98	18.77	18.92	18.86		18.22	
31		18.99		19.31	19.56		21.88		18.87	18.92		18.21	
Mean	19.24	19.09	19.40	19.88	19.36	20.38	22.53	20.00	18.88	18.91	18.89	18.70	
Max	19.53	19.44	20.19	20.41	20.04	22.26	23.60	21.76	19.16	19.65	19.08	19.08	23.60
Min	18.98	18.72	18.94	19.31	18.97	19.53	21.88	18.77	18.54	18.50	18.63	18.21	18.21
Annual Max Momentary Gage Height	23.63		m. (MSL) ,				at 10.00 Hours , on Oct 8 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL) ,			River Bed	13.37	m. (MSL)					
Left Bank Elevation	24.79		m. (MSL) ,										
Right Bank Elevation	24.85		m. (MSL) ,			Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	527.60	490.20	443.40	707.40	470.40	527.60	1586.00	1279.20	389.40	391.20	412.80	432.60		
2	515.00	503.00	465.00	742.20	475.80	536.40	1622.40	1218.10	362.40	373.20	382.20	420.00		
3	495.60	509.00	454.20	750.90	479.40	540.80	1674.40	1186.80	369.60	360.60	362.40	411.00		
4	481.20	493.80	434.40	716.10	470.40	625.00	1783.60	1173.90	353.40	351.60	373.20	421.80		
5	472.20	488.40	423.60	666.80	459.60	649.00	2025.00	1130.90	346.20	348.00	376.80	434.40		
6	463.20	499.20	427.20	646.60	448.80	852.90	2179.00	1066.40	367.80	339.00	362.40	436.20		
7	450.60	492.00	438.00	629.80	441.60	856.20	2217.50	1012.50	380.40	375.00	375.00	421.80		
8	438.00	479.40	418.20	627.40	447.00	813.30	2234.00	950.10	384.00	418.20	414.60	418.20		
9	425.40	463.20	418.20	651.40	434.40	771.20	2140.50	879.90	380.40	474.00	420.00	443.40		
10	436.20	448.80	427.20	695.80	423.60	756.70	2014.00	803.40	421.80	523.20	418.20	438.00		
11	438.00	432.60	439.80	707.40	423.60	748.00	1860.00	756.70	448.80	554.00	416.40	425.40		
12	456.00	420.00	461.40	692.90	430.80	692.90	1679.60	716.10	457.80	543.00	412.80	411.00		
13	484.80	414.60	493.80	641.80	436.20	641.80	1648.40	658.60	450.60	501.00	421.80	396.60		
14	511.00	409.20	505.00	584.20	434.40	601.00	1586.00	608.20	438.00	477.60	427.20	393.00		
15	499.20	416.40	515.00	567.40	448.80	584.20	1591.20	581.80	414.60	470.40	434.40	400.20		
16	484.80	411.00	532.00	581.80	457.80	584.20	1576.20	558.40	391.20	465.00	427.20	393.00		
17	507.00	389.40	527.60	579.40	523.20	617.80	1517.40	551.80	394.80	474.00	416.40	353.40		
18	509.00	378.60	507.00	581.80	581.80	646.60	1488.00	525.40	409.20	418.20	418.20	353.40		
19	493.80	400.20	492.00	577.00	622.60	681.30	1492.90	486.60	411.00	371.40	430.80	364.20		
20	493.80	436.20	481.20	572.20	646.60	739.30	1512.50	456.00	402.00	362.40	439.80	378.60		
21	488.40	474.00	495.60	554.00	620.20	800.10	1492.90	436.20	429.00	378.60	432.60	360.60		
22	475.80	470.40	507.00	549.60	596.20	803.40	1478.20	448.80	441.60	382.20	429.00	349.80		
23	463.20	457.80	527.60	569.80	581.80	771.20	1473.30	457.80	432.60	366.00	394.80	335.60		
24	450.60	456.00	556.20	579.40	554.00	756.70	1492.90	439.80	436.20	366.00	366.00	322.00		
25	438.00	434.40	581.80	572.20	529.80	724.80	1492.90	423.60	430.80	382.20	394.80	308.40		
26	434.40	429.00	603.40	567.40	503.00	777.00	1497.80	409.20	421.80	387.60	423.60	308.40		
27	439.80	411.00	622.60	562.80	488.40	856.20	1478.20	398.40	414.60	375.00	434.40	313.50		
28	450.60	416.40	646.60	549.60	479.40	1028.10	1463.50	393.00	421.80	387.60	443.40	311.80		
29	470.40	409.20	669.70	521.00	486.60	1373.20	1434.30	391.20	423.60	396.60		305.00		
30	483.00	416.40	687.10	505.00	511.00	1517.40	1382.60	387.60	414.60	403.80		292.20		
31		427.20		484.80	534.20		1335.60		405.60	414.60		290.60		
Total	14176.60	13777.00	15201.80	18935.90	15441.40	22874.30	51450.80	20786.40	12645.60	12831.20	11461.20	11644.10	221226.30	CMSDAY
Mean	472.60	444.40	506.70	610.80	498.10	762.50	1659.70	692.90	407.90	413.90	409.30	375.60	606.10	CMS
Max	527.60	509.00	687.10	750.90	646.60	1517.40	2234.00	1279.20	457.80	554.00	443.40	443.40	2234.00	CMS
Min	425.40	378.60	418.20	484.80	423.60	527.60	1335.60	387.60	346.20	339.00	362.40	290.60	290.60	CMS
Runoff	1224.86	1190.33	1313.44	1636.06	1334.14	1976.34	4445.35	1795.95	1092.58	1108.62	990.25	1006.05	19113.95	MCM
Momentary Peak	2252.30 CMS. at 23.63 m. (MSL) at 10.00 Hours , on Oct 8 , 2009													
Runoff Yield	***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.													

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Phutsa, Sing Buri (C.3)

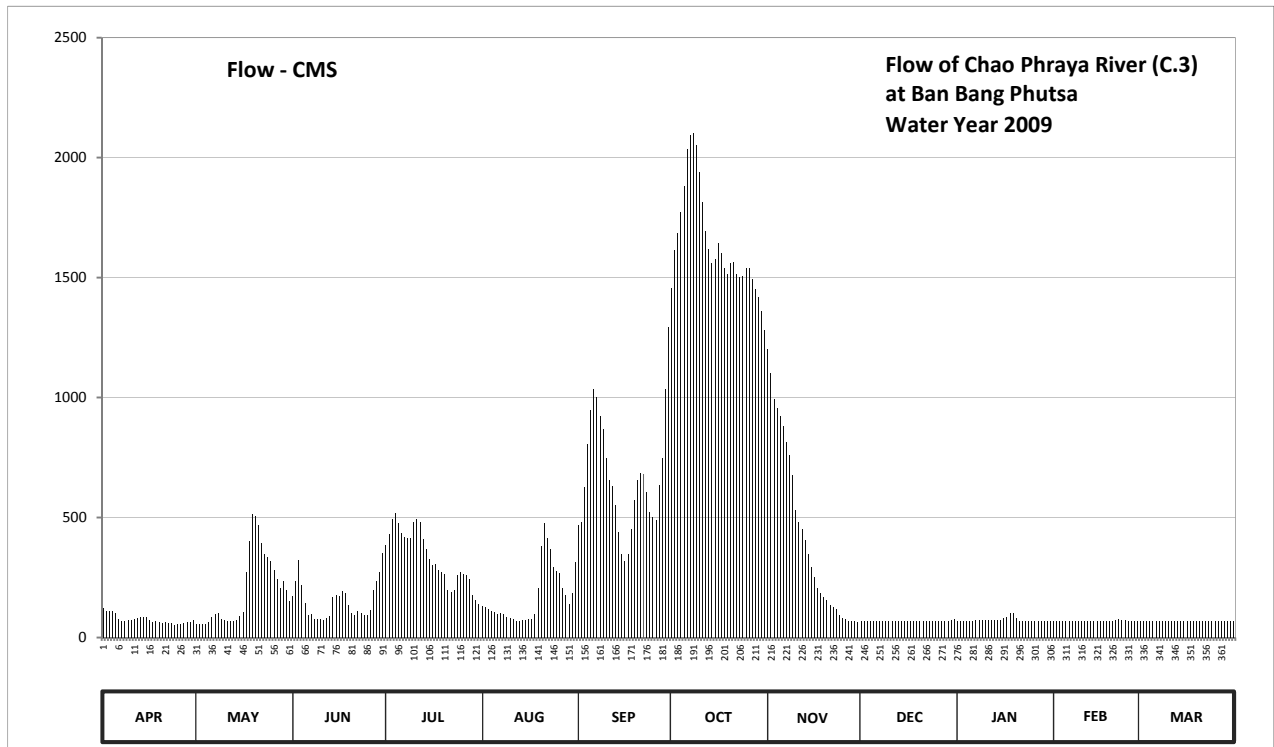
Lat 14 - 53 - 50 N Long 100 - 24 - 18 E

Location : on left bank at Ban Bang Phutsa

	Ban Bang Phutsa	Amphoe Mueang	Changwat Sing Buri
Drainage Area	118,752 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (M.S.L.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the bridge	Elevation	+11.880 m. (M.S.L.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1950 to date		
Rating Operation			
Period of Rating	1950 to date		
Rated by Flot	-		
Rated by Current Meter	1950 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.83	2.08	3.31	4.82	2.92	5.31	9.08	8.30	2.27	2.28	2.26	2.27	
2	2.69	2.08	3.84	5.10	2.88	5.38	9.52	7.98	2.27	2.27	2.26	2.27	
3	2.72	2.08	4.44	5.45	2.80	6.12	9.72	7.62	2.27	2.27	2.26	2.27	
4	2.72	2.08	3.74	5.58	2.72	6.92	9.96	7.49	2.26	2.27	2.25	2.28	
5	2.60	2.18	3.03	5.37	2.68	7.45	10.26	7.36	2.26	2.27	2.25	2.28	
6	2.35	2.46	2.53	5.13	2.58	7.76	10.67	7.20	2.26	2.28	2.25	2.27	
7	2.26	2.57	2.57	5.05	2.60	7.65	10.82	6.95	2.26	2.31	2.25	2.27	
8	2.27	2.63	2.36	5.02	2.56	7.36	10.84	6.72	2.26	2.31	2.25	2.27	
9	2.31	2.38	2.36	5.01	2.47	7.15	10.71	6.34	2.26	2.31	2.25	2.27	
10	2.33	2.33	2.36	5.38	2.40	6.66	10.41	5.65	2.25	2.31	2.25	2.27	
11	2.34	2.28	2.32	5.46	2.35	6.26	10.08	5.38	2.25	2.31	2.25	2.27	
12	2.41	2.26	2.39	5.38	2.26	6.13	9.74	5.22	2.25	2.31	2.24	2.27	
13	2.47	2.23	2.50	5.00	2.25	5.76	9.53	4.96	2.25	2.31	2.24	2.27	
14	2.46	2.30	3.30	4.72	2.31	5.15	9.37	4.60	2.25	2.31	2.24	2.26	
15	2.43	2.51	3.38	4.46	2.33	4.59	9.42	4.26	2.25	2.31	2.24	2.26	
16	2.33	2.65	3.32	4.32	2.37	4.42	9.60	3.97	2.25	2.42	2.24	2.26	
17	2.22	4.12	3.54	4.34	2.35	4.59	9.49	3.63	2.24	2.44	2.24	2.26	
18	2.23	4.95	3.44	4.17	2.58	5.22	9.31	3.44	2.24	2.60	2.24	2.26	
19	2.18	5.56	2.95	4.13	3.63	5.86	9.24	3.28	2.24	2.63	2.24	2.26	
20	2.13	5.52	2.62	4.06	4.81	6.26	9.37	3.17	2.24	2.39	2.25	2.26	
21	2.18	5.31	2.53	3.57	5.37	6.39	9.38	2.96	2.24	2.28	2.31	2.26	
22	2.12	4.88	2.69	3.51	5.02	6.37	9.25	2.85	2.23	2.27	2.34	2.26	
23	2.12	4.61	2.60	3.57	4.73	6.02	9.21	2.77	2.23	2.27	2.31	2.25	
24	2.05	4.53	2.55	4.02	4.27	5.60	9.22	2.54	2.23	2.27	2.30	2.25	
25	2.08	4.43	2.55	4.11	4.14	5.50	9.31	2.41	2.23	2.27	2.28	2.25	
26	2.09	4.18	2.73	4.07	4.09	5.43	9.31	2.35	2.23	2.27	2.27	2.25	
27	2.14	3.92	3.55	4.02	3.65	6.16	9.18	2.28	2.23	2.27	2.27	2.25	
28	2.18	3.63	3.86	3.90	3.37	6.66	9.06	2.25	2.23	2.26	2.27	2.25	
29	2.21	3.84	4.13	3.37	3.01	7.76	8.97	2.25	2.25	2.26		2.25	
30	2.32	3.55	4.63	3.15	3.46	8.59	8.80	2.19	2.33	2.26		2.24	
31	3.14		3.00	4.39		8.55		2.35	2.26			2.23	
Mean	2.33	3.33	3.07	4.46	3.20	6.22	9.59	4.61	2.25	2.32	2.26	2.26	
Max	2.83	5.56	4.63	5.58	5.37	8.59	10.84	8.30	2.35	2.63	2.34	2.28	10.84
Min	2.05	2.08	2.32	3.00	2.25	4.42	8.55	2.19	2.23	2.26	2.24	2.23	2.05
Annual Max Momentary Gage Height	10.85		m. (MSL) ,			at 10.00 Hours ,	on Oct 7 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL) ,			River Bed	-2.50	m. (MSL)					
Left Bank Elevation	11.97		m. (MSL) ,										
Right Bank Elevation	11.91		m. (MSL) ,			Drainage Area	118752	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	123.00	55.60	171.00	383.20	132.00	467.80	1457.20	1202.00	69.60	70.40	68.80	69.60		
2	109.00	55.60	233.60	430.00	128.00	480.40	1613.20	1102.00	69.60	69.60	68.80	69.60		
3	112.00	55.60	322.40	493.00	120.00	626.40	1685.20	994.00	69.60	69.60	68.80	69.60		
4	112.00	55.60	219.60	518.00	112.00	807.20	1771.60	957.20	68.80	69.60	68.00	70.40		
5	100.00	62.60	143.00	478.60	108.00	946.00	1880.80	921.60	68.80	69.60	68.00	70.40		
6	76.00	86.00	93.00	435.40	98.00	1036.00	2036.60	880.00	68.80	70.40	68.00	69.60		
7	68.80	97.00	97.00	421.00	100.00	1003.00	2093.60	815.00	68.80	72.80	68.00	69.60		
8	69.60	103.00	76.80	415.60	96.00	921.60	2101.20	758.80	68.80	72.80	68.00	69.60		
9	72.80	78.40	76.80	413.80	87.00	867.00	2051.80	674.80	68.80	72.80	68.00	69.60		
10	74.40	74.40	76.80	480.40	80.00	745.20	1937.80	532.00	68.00	72.80	68.00	69.60		
11	75.20	70.40	73.60	494.80	76.00	657.20	1814.80	480.40	68.00	72.80	68.00	69.60		
12	81.00	68.80	79.20	480.40	68.80	628.60	1692.40	451.60	68.00	72.80	67.20	69.60		
13	87.00	66.40	90.00	412.00	68.00	554.00	1616.80	405.60	68.00	72.80	67.20	69.60		
14	86.00	72.00	170.00	367.20	72.80	439.00	1559.20	348.00	68.00	72.80	67.20	68.80		
15	83.00	91.00	178.00	325.60	74.40	346.40	1577.20	293.60	68.00	72.80	67.20	68.80		
16	74.40	105.00	172.00	303.20	77.60	319.20	1642.00	251.80	68.00	82.00	67.20	68.80		
17	65.60	272.80	194.80	306.40	76.00	346.40	1602.40	205.60	67.20	84.00	67.20	68.80		
18	66.40	404.00	184.00	279.80	98.00	451.60	1537.60	184.00	67.20	100.00	67.20	68.80		
19	62.60	514.00	135.00	274.20	205.60	574.00	1512.40	168.00	67.20	103.00	67.20	68.80		
20	59.10	506.00	102.00	264.40	381.60	657.20	1559.20	157.00	67.20	79.20	68.00	68.80		
21	62.60	467.80	93.00	198.40	478.60	685.80	1562.80	136.00	67.20	70.40	72.80	68.80		
22	58.40	392.80	109.00	191.20	415.60	681.40	1516.00	125.00	66.40	69.60	75.20	68.80		
23	58.40	349.60	100.00	198.40	368.80	606.00	1501.60	117.00	66.40	69.60	72.80	68.00		
24	53.50	336.80	95.00	258.80	295.20	522.00	1505.20	94.00	66.40	69.60	72.00	68.00		
25	55.60	320.80	95.00	271.40	275.60	502.00	1537.60	81.00	66.40	69.60	70.40	68.00		
26	56.30	281.20	113.00	265.80	268.60	489.40	1537.60	76.00	66.40	69.60	69.60	68.00		
27	59.80	244.80	196.00	258.80	208.00	635.20	1491.20	70.40	66.40	69.60	69.60	68.00		
28	62.60	205.60	236.40	242.00	177.00	745.20	1450.40	68.00	66.40	68.80	69.60	68.00		
29	64.80	233.60	274.20	177.00	141.00	1036.00	1419.80	68.00	68.00	68.80		68.00		
30	73.60	196.00	352.80	155.00	186.00	1294.80	1362.00	63.30	74.40	68.80		67.20		
31		154.00		140.00	314.40		1282.00		76.00	68.80		66.40		
Total	2263.50	6077.20	4553.00	10333.80	5388.60	20072.00	50909.20	12681.70	2116.80	2285.80	1928.00	2135.20	120744.80	CMSDAY
Mean	75.45	196.04	151.77	333.35	173.83	669.07	1642.23	422.72	68.28	73.74	68.86	68.88	330.81	CMS
Max	123.00	514.00	352.80	518.00	478.60	1294.80	2101.20	1202.00	76.00	103.00	75.20	70.40	2101.20	CMS
Min	53.50	55.60	73.60	140.00	68.00	319.20	1282.00	63.30	66.40	68.80	67.20	66.40	53.50	CMS
Runoff	195.57	525.07	393.38	892.84	465.58	1734.22	4398.56	1095.70	182.89	197.49	166.58	184.48	10432.35	MCM
Momentary Peak	2105.00 CMS. at 10.85 m. (MSL) at 10.00 Hours , on Oct 7 , 2009													
Runoff Yield	2.79 Liters/Second/Square KM.			Momentary Peak Yield				17.726 Liters/Second/Square KM.						

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Kaeo, Ang Thong (C.7A)

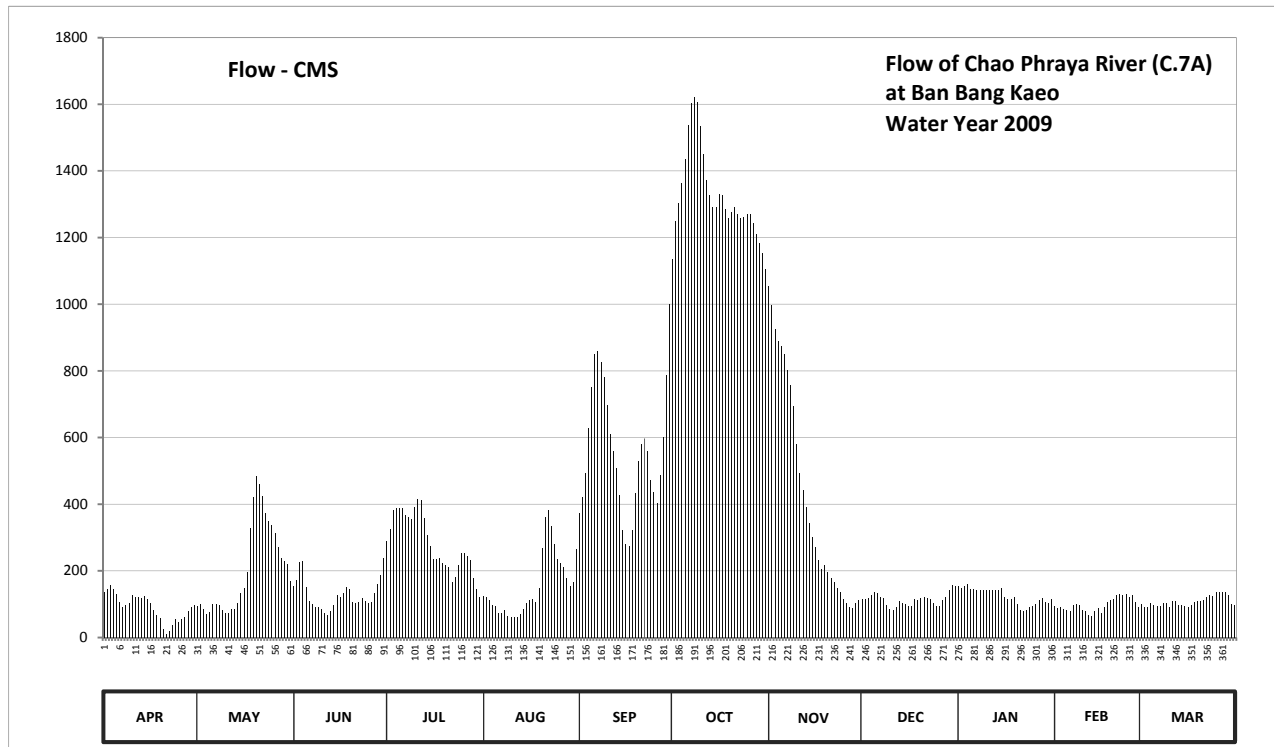
Lat 14 - 35 - 05 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaeo.

Ban	Bang Kaeo	Amphoe	Mueang	Changwat	Ang Thong
Drainage Area	Flood Plain				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (M.S.L.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank near the gage site.			Elevation	+8.633 m. (M.S.L.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings				
Period of Available Gage Records	2006 to date				
Rating Operation					
Period of Rating	2006 to date				
Rated by Flot	-				
Rated by Current Meter	2006 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009.				

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.07	0.82	1.17	1.89	0.99	2.31	5.45	5.15	0.93	1.16	0.81	0.85	
2	1.12	0.85	1.27	2.09	0.98	2.54	5.88	4.93	0.94	1.13	0.78	0.80	
3	1.19	0.77	1.56	2.36	0.92	2.85	6.08	4.64	0.95	1.17	0.79	0.79	
4	1.12	0.66	1.57	2.39	0.83	3.45	6.30	4.49	1.01	1.20	0.76	0.86	
5	1.03	0.71	1.15	2.39	0.81	3.94	6.57	4.43	1.07	1.12	0.74	0.84	
6	0.89	0.85	0.91	2.39	0.69	4.34	6.93	4.34	1.05	1.11	0.73	0.82	
7	0.80	0.85	0.85	2.29	0.70	4.37	7.16	4.14	0.98	1.09	0.83	0.81	
8	0.83	0.83	0.80	2.25	0.74	4.24	7.22	3.96	0.95	1.09	0.85	0.87	
9	0.87	0.75	0.80	2.23	0.63	4.06	7.17	3.71	0.83	1.09	0.83	0.87	
10	1.00	0.68	0.77	2.40	0.61	3.72	6.92	3.23	0.76	1.09	0.75	0.80	
11	0.97	0.68	0.69	2.51	0.60	3.36	6.63	2.85	0.74	1.09	0.72	0.90	
12	0.97	0.77	0.64	2.49	0.61	3.14	6.34	2.64	0.79	1.09	0.65	0.91	
13	0.96	0.76	0.72	2.24	0.67	2.92	6.17	2.40	0.91	1.09	0.63	0.83	
14	0.99	0.86	0.84	1.98	0.76	2.57	6.04	2.17	0.86	1.09	0.73	0.83	
15	0.93	1.04	1.01	1.81	0.86	2.07	6.03	1.96	0.85	1.14	0.78	0.81	
16	0.86	1.13	0.97	1.61	0.92	1.85	6.18	1.80	0.82	0.98	0.68	0.79	
17	0.74	1.40	1.05	1.61	0.93	1.81	6.17	1.59	0.82	0.94	0.80	0.83	
18	0.64	2.10	1.15	1.62	0.88	2.07	6.01	1.45	0.94	0.94	0.89	0.89	
19	0.58	2.54	1.11	1.55	1.14	2.59	5.91	1.51	0.92	0.97	0.92	0.90	
20	0.38	2.81	0.89	1.52	1.78	3.01	5.98	1.41	0.96	0.85	0.93	0.90	
21	0.26	2.71	0.87	1.48	2.26	3.23	6.03	1.30	0.97	0.75	1.00	0.92	
22	0.33	2.55	0.89	1.24	2.36	3.31	5.96	1.23	0.95	0.73	1.02	0.98	
23	0.45	2.31	0.95	1.32	2.13	3.14	5.91	1.14	0.94	0.75	1.00	1.00	
24	0.57	2.20	0.90	1.52	1.85	2.77	5.92	1.07	0.86	0.80	1.02	0.99	
25	0.50	2.14	0.87	1.70	1.61	2.61	5.96	0.94	0.81	0.81	0.98	1.06	
26	0.56	2.02	0.89	1.71	1.54	2.45	5.96	0.86	0.81	0.85	1.00	1.06	
27	0.61	1.80	1.05	1.66	1.48	2.83	5.86	0.80	0.92	0.92	0.89	1.06	
28	0.72	1.62	1.21	1.59	1.30	3.33	5.73	0.78	0.98	0.96	0.79	1.06	
29	0.80	1.58	1.35	1.31	1.17	4.09	5.64	0.87	1.09	0.88		1.00	
30	0.83	1.53	1.62	1.11	1.24	4.94	5.52	0.92	1.19	0.87		0.85	
31		1.26		0.98	1.76		5.34		1.17	0.93		0.84	
Mean	0.79	1.41	1.02	1.85	1.15	3.13	6.16	2.42	0.93	0.99	0.83	0.89	
Max	1.19	2.81	1.62	2.51	2.36	4.94	7.22	5.15	1.19	1.20	1.02	1.06	7.22
Min	0.26	0.66	0.64	0.98	0.60	1.81	5.34	0.78	0.74	0.73	0.63	0.79	0.26
Annual Max Momentary Gage Height	7.24		m. (MSL) ,				at 23.00 Hours , on Oct 8 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL) ,			River Bed	-6.61	m. (MSL)					
Left Bank Elevation		8.63		m. (MSL) ,									
Right Bank Elevation		8.25		m. (MSL) ,		Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.90	95.40	154.90	289.10	124.30	373.10	1133.50	1053.50	114.10	153.20	93.70	100.50	
2	146.40	100.50	171.90	327.10	122.60	421.40	1249.60	998.50	115.80	148.10	88.60	92.00	
3	158.30	86.90	226.40	383.60	112.40	491.50	1303.60	926.00	117.50	154.90	90.30	90.30	
4	146.40	69.00	228.30	389.90	97.10	629.50	1363.00	888.50	127.70	160.00	85.20	102.20	
5	131.10	76.70	151.50	389.90	93.70	751.00	1435.90	873.50	137.90	146.40	81.80	98.80	
6	107.30	100.50	110.70	389.90	73.50	851.00	1537.70	851.00	134.50	144.70	80.10	95.40	
7	92.00	100.50	100.50	368.90	75.00	858.50	1604.40	801.00	122.60	141.30	97.10	93.70	
8	97.10	97.10	92.00	360.50	81.80	826.00	1621.80	756.00	117.50	141.30	100.50	103.90	
9	103.90	83.50	92.00	356.30	64.50	781.00	1607.30	693.50	97.10	141.30	97.10	103.90	
10	126.00	72.00	86.90	392.00	61.50	696.00	1534.80	578.90	85.20	141.30	83.50	92.00	
11	120.90	72.00	73.50	415.10	60.00	608.80	1452.10	491.50	81.80	141.30	78.40	109.00	
12	120.90	86.90	66.00	410.90	61.50	558.20	1373.80	443.20	90.30	141.30	67.50	110.70	
13	119.20	85.20	78.40	358.40	70.50	507.60	1327.90	392.00	110.70	141.30	64.50	97.10	
14	124.30	102.20	98.80	306.20	85.20	427.70	1292.80	343.70	102.20	141.30	80.10	97.10	
15	114.10	132.80	127.70	273.90	102.20	323.30	1290.10	302.40	100.50	149.80	88.60	93.70	
16	102.20	148.10	120.90	235.90	112.40	281.50	1330.60	272.00	95.40	122.60	72.00	90.30	
17	81.80	196.00	134.50	235.90	114.10	273.90	1327.90	232.10	95.40	115.80	92.00	97.10	
18	66.00	329.00	151.50	237.80	105.60	323.30	1284.70	205.50	115.80	115.80	107.30	107.30	
19	57.00	421.40	144.70	224.50	149.80	431.90	1257.70	216.90	112.40	120.90	112.40	109.00	
20	27.00	482.30	107.30	218.80	268.20	528.30	1276.60	197.90	119.20	100.50	114.10	109.00	
21	9.00	459.30	103.90	211.20	362.60	578.90	1290.10	177.00	120.90	83.50	126.00	112.40	
22	19.50	423.50	107.30	166.80	383.60	597.30	1271.20	165.10	117.50	80.10	129.40	122.60	
23	37.50	373.10	117.50	180.80	335.30	558.20	1257.70	149.80	115.80	83.50	126.00	126.00	
24	55.50	350.00	109.00	218.80	281.50	473.10	1260.40	137.90	102.20	92.00	129.40	124.30	
25	45.00	337.40	103.90	253.00	235.90	436.30	1271.20	115.80	93.70	93.70	122.60	136.20	
26	54.00	313.80	107.30	254.90	222.60	402.50	1271.20	102.20	93.70	100.50	126.00	136.20	
27	61.50	272.00	134.50	245.40	211.20	486.90	1244.20	92.00	112.40	112.40	107.30	136.20	
28	78.40	237.80	161.70	232.10	177.00	601.90	1209.10	88.60	122.60	119.20	90.30	136.20	
29	92.00	230.20	186.50	178.90	154.90	788.50	1184.80	103.90	141.30	105.60		126.00	
30	97.10	220.70	237.80	144.70	166.80	1001.00	1152.40	112.40	158.30	103.90		100.50	
31		170.20		122.60	264.40		1103.80		154.90	114.10		98.80	
Total	2729.30	6326.00	3887.80	8773.80	4831.70	16868.10	41121.90	12762.30	3526.90	3851.60	2731.80	3348.40	110759.60 CMSDAY
Mean	90.98	204.06	129.59	283.03	155.86	562.27	1326.51	425.41	113.77	124.25	97.56	108.01	303.45 CMS
Max	158.30	482.30	237.80	415.10	383.60	1001.00	1621.80	1053.50	158.30	160.00	129.40	136.20	1621.80 CMS
Min	9.00	69.00	66.00	122.60	60.00	273.90	1103.80	88.60	81.80	80.10	64.50	90.30	9.00 CMS
Runoff	235.81	546.57	335.91	758.06	417.46	1457.40	3552.93	1102.66	304.72	332.78	236.03	289.30	9569.63 MCM
Momentary Peak	1627.60 CMS. at 7.24 m. (MSL.) at 23.00 Hours , on Oct 8 , 2009												
Runoff Yield	***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.												

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

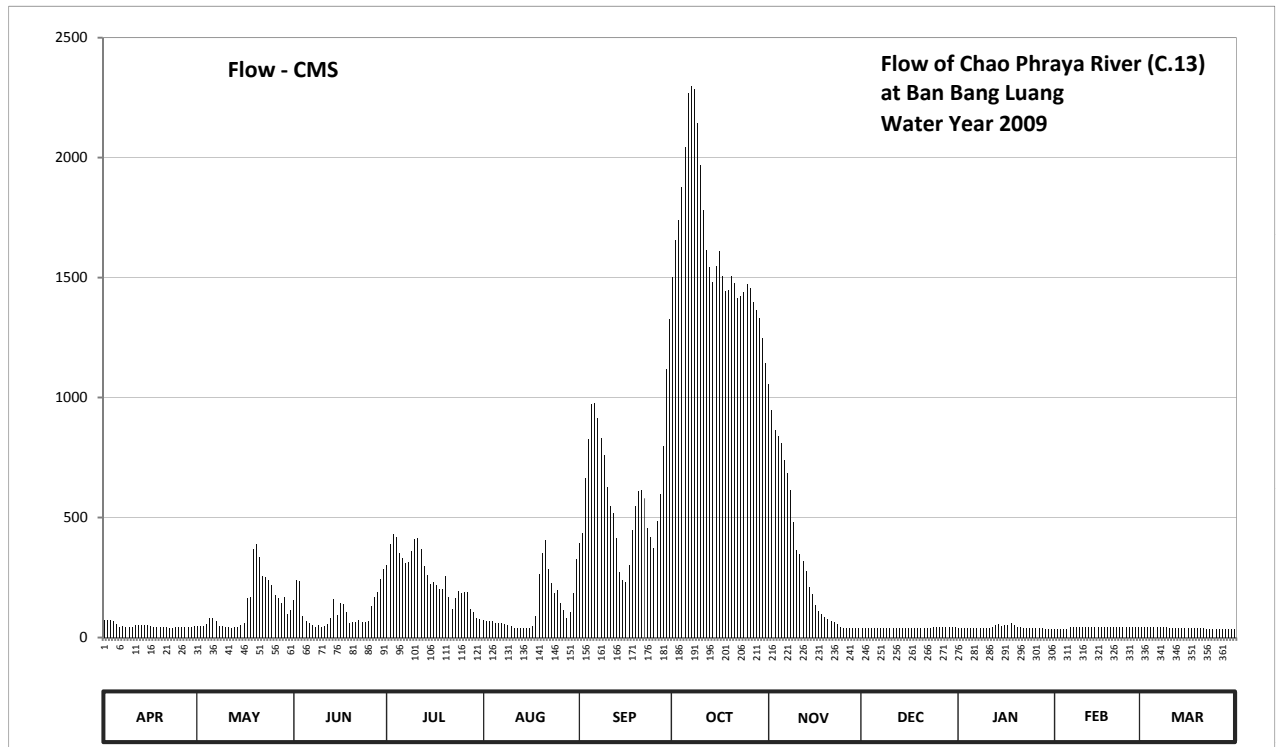
Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

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	117,187	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	B.M.2 - on right bank about 400 meters from the B.M.1				Elevation	+16.260 m. (M.S.L.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1947 to date					
Rating Operation						
Period of Rating	1953 - 1962, 1965 - 1968, 1972 - 1975 to date					
Rated by Flot	-					
Rated by Current Meter	1953 - 1962, 1965 - 1968, 1972 - 1975 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 32 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.44	6.02	7.46	8.56	6.49	9.07	13.08	11.76	5.90	5.94	5.87	5.98	
2	6.44	6.02	8.14	9.05	6.42	9.29	13.46	11.36	5.90	5.94	5.87	5.99	
3	6.45	6.03	8.10	9.26	6.39	10.28	13.66	11.07	5.91	5.93	5.87	6.00	
4	6.43	6.19	6.72	9.20	6.37	10.92	13.95	10.97	5.91	5.93	5.87	5.99	
5	6.17	6.60	6.38	8.86	6.28	11.45	14.29	10.85	5.91	5.93	5.87	5.99	
6	5.98	6.60	6.26	8.73	6.27	11.47	14.73	10.59	5.91	5.93	5.95	5.99	
7	6.01	6.36	6.09	8.61	6.28	11.25	14.79	10.37	5.91	5.91	5.96	5.99	
8	5.99	6.07	5.98	8.64	6.16	10.94	14.76	10.07	5.91	5.90	5.96	6.00	
9	5.98	6.02	6.08	8.90	6.09	10.67	14.49	9.50	5.91	5.90	5.97	5.98	
10	5.99	5.98	5.99	9.16	6.02	10.12	14.14	8.93	5.91	5.92	5.97	5.93	
11	6.13	5.95	6.07	9.18	5.94	9.80	13.75	8.83	5.91	5.94	5.98	5.92	
12	6.14	5.92	6.18	8.94	5.90	9.68	13.37	8.67	5.91	5.99	5.98	5.91	
13	6.13	5.95	6.59	8.52	5.94	9.18	13.19	8.39	5.92	6.14	5.98	5.90	
14	6.13	5.95	7.49	8.30	5.92	8.37	13.03	7.93	5.92	6.20	5.98	5.91	
15	6.08	6.11	6.78	8.03	5.91	8.16	13.20	7.67	5.92	6.03	5.99	5.91	
16	6.01	6.23	7.32	8.08	5.92	8.09	13.36	7.24	5.92	6.12	5.99	5.90	
17	6.00	7.53	7.30	8.01	6.03	8.56	13.09	6.96	5.91	6.12	5.99	5.90	
18	6.00	7.56	6.91	7.85	6.72	9.34	12.93	6.81	5.91	6.28	5.99	5.90	
19	5.99	8.94	6.26	7.85	8.32	9.80	12.94	6.66	5.91	6.15	5.98	5.88	
20	6.00	9.06	6.29	8.28	8.85	10.06	13.09	6.53	5.91	5.98	5.98	5.88	
21	5.95	8.75	6.32	7.58	9.13	10.08	13.01	6.37	5.91	5.96	5.98	5.88	
22	5.94	8.26	6.46	7.08	8.45	9.93	12.85	6.34	5.91	5.92	5.98	5.87	
23	5.94	8.24	6.31	7.53	8.07	9.38	12.87	6.18	5.91	5.91	5.98	5.87	
24	5.96	8.15	6.32	7.78	7.71	9.19	12.91	6.00	5.95	5.90	5.97	5.87	
25	6.00	8.00	6.38	7.73	7.82	8.98	13.00	5.94	5.96	5.89	5.96	5.86	
26	6.00	7.65	7.19	7.75	7.34	9.53	12.96	5.90	5.95	5.89	5.96	5.86	
27	6.00	7.52	7.56	7.76	7.01	10.00	12.80	5.93	5.95	5.88	5.97	5.86	
28	5.99	7.33	7.77	7.05	6.59	10.81	12.71	5.92	5.96	5.88	5.97	5.86	
29	5.99	7.56	8.18	6.93	6.92	11.96	12.62	5.90	5.96	5.87		5.81	
30	6.01	6.82	8.45	6.61	7.70	12.61	12.38	5.90	5.96	5.87		5.79	
31		7.01		6.52	8.72		12.04		5.95	5.87		5.79	
Mean	6.08	6.98	6.84	8.14	6.89	9.97	13.34	8.05	5.92	5.97	5.96	5.91	
Max	6.45	9.06	8.45	9.26	9.13	12.61	14.79	11.76	5.96	6.28	5.99	6.00	14.79
Min	5.94	5.92	5.98	6.52	5.90	8.09	12.04	5.90	5.90	5.87	5.87	5.79	5.79
Annual Max Momentary Gage Height	14.86		m. (MSL) ,				at 10.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL) ,			River Bed	1.45		m. (MSL)				
Left Bank Elevation		16.75		m. (MSL) ,									
Right Bank Elevation		16.33		m. (MSL) ,		Drainage Area	117187		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.40	46.20	157.00	302.60	74.40	393.00	1500.60	1057.80	39.00	41.40	37.50	43.80	
2	71.40	46.20	238.60	389.00	70.20	437.00	1653.80	945.80	39.00	41.40	37.50	44.40	
3	72.00	46.80	233.00	431.00	68.40	664.20	1741.60	865.20	39.60	40.80	37.50	45.00	
4	70.80	56.40	90.60	419.00	67.20	826.20	1876.50	839.20	39.60	40.80	37.50	44.40	
5	55.20	81.00	67.80	351.80	61.80	971.00	2043.10	808.00	39.60	40.80	37.50	44.40	
6	43.80	81.00	60.60	329.80	61.20	976.60	2268.60	740.40	39.60	40.80	42.00	44.40	
7	45.60	66.60	50.40	310.60	61.80	915.00	2299.80	685.80	39.60	39.60	42.60	44.40	
8	44.40	49.20	43.80	315.40	54.60	831.40	2284.20	613.80	39.60	39.00	42.60	45.00	
9	43.80	46.20	49.80	359.00	50.40	761.20	2143.80	481.00	39.60	39.00	43.20	43.80	
10	44.40	43.80	44.40	411.00	46.20	625.80	1969.60	365.00	39.60	40.20	43.20	40.80	
11	52.80	42.00	49.20	415.00	41.40	549.00	1783.00	346.40	39.60	41.40	43.80	40.20	
12	53.40	40.20	55.80	367.00	39.00	520.60	1616.00	320.20	39.60	44.40	43.80	39.60	
13	52.80	42.00	80.40	296.20	41.40	415.00	1544.00	275.40	40.20	53.40	43.80	39.00	
14	52.80	42.00	160.00	261.00	40.20	272.20	1482.10	210.60	40.20	57.00	43.80	39.60	
15	49.80	51.60	95.40	223.20	39.60	241.40	1548.00	179.40	40.20	46.80	44.40	39.60	
16	45.60	58.80	143.00	230.20	40.20	231.60	1612.00	135.00	40.20	52.20	44.40	39.00	
17	45.00	164.00	141.00	220.40	46.80	302.60	1504.30	109.80	39.60	52.20	44.40	39.00	
18	45.00	167.00	105.80	201.00	90.60	447.00	1445.10	97.80	39.60	61.80	44.40	39.00	
19	44.40	367.00	60.60	201.00	264.20	549.00	1448.80	85.80	39.60	54.00	43.80	38.00	
20	45.00	391.00	62.40	258.20	350.00	611.40	1504.30	76.80	39.60	43.80	43.80	38.00	
21	42.00	333.00	64.20	169.00	405.00	616.20	1474.70	67.20	39.60	42.60	43.80	38.00	
22	41.40	255.40	72.60	119.40	285.00	580.20	1415.50	65.40	39.60	40.20	43.80	37.50	
23	41.40	252.60	63.60	164.00	228.80	455.00	1422.90	55.80	39.60	39.60	43.80	37.50	
24	42.60	240.00	64.20	192.60	184.20	417.00	1437.70	45.00	42.00	39.00	43.20	37.50	
25	45.00	219.00	67.80	186.60	197.40	375.00	1471.00	41.40	42.60	38.50	42.60	37.00	
26	45.00	177.00	130.00	189.00	145.00	487.60	1456.20	39.00	42.00	38.50	42.60	37.00	
27	45.00	163.00	167.00	190.20	113.80	597.00	1397.00	40.80	42.00	38.00	43.20	37.00	
28	44.40	144.00	191.40	117.00	80.40	797.60	1363.70	40.20	42.60	38.00	43.20	37.00	
29	44.40	167.00	244.20	107.40	106.60	1118.60	1330.40	39.00	42.60	37.50		34.50	
30	45.60	98.60	285.00	81.80	183.00	1326.70	1248.80	39.00	42.60	37.50		33.50	
31		113.80		76.20	328.20		1143.40		42.00	37.50		33.50	
Total	1486.20	4092.40	3339.60	7885.60	3867.00	18312.10	50430.50	9712.00	1250.40	1337.70	1187.70	1231.40	104132.60 CMSDAY
Mean	49.50	132.00	111.30	254.40	124.70	610.40	1626.80	323.70	40.30	43.20	42.40	39.70	285.30 CMS
Max	72.00	391.00	285.00	431.00	405.00	1326.70	2299.80	1057.80	42.60	61.80	44.40	45.00	2299.80 CMS
Min	41.40	40.20	43.80	76.20	39.00	231.60	1143.40	39.00	39.00	37.50	37.50	33.50	33.50 CMS
Runoff	128.41	353.58	288.54	681.32	334.11	1582.17	4357.19	839.12	108.03	115.58	102.62	106.39	8997.06 MCM
Momentary Peak	2338.00 CMS. at 14.86 m. (MSL) at 10.00 Hours , on Oct 7 , 2009												
Runoff Yield	2.43 Liters/Second/Square KM.			Momentary Peak Yield			19.951 Liters/Second/Square KM.						

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Huai Khun Kaeo at Ban Samo Thong, Uthai Thani (C.30)

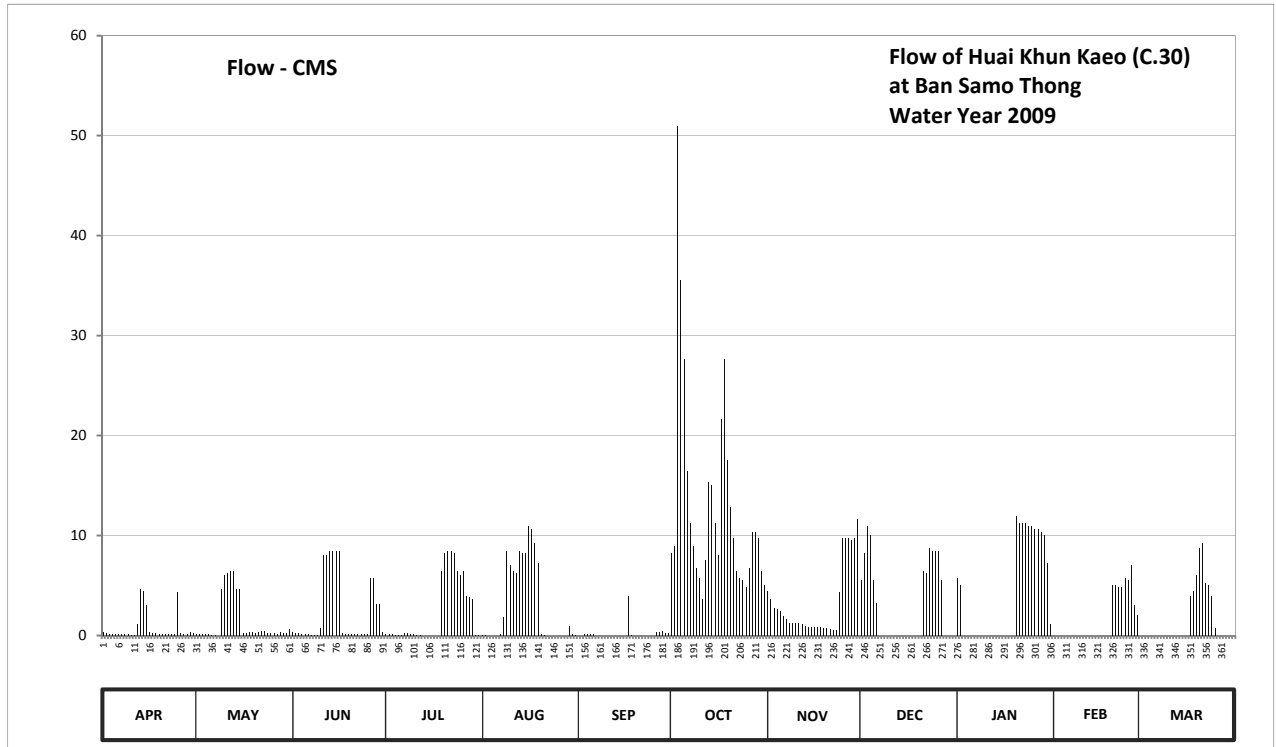
Lat 15 - 20 - 53 N Long 99 - 32 - 11 E

Location : on right bank in front of Wat Samo Thong School

	Ban	Samo Thong	Amphoe	Huai Khot	Changwat	Uthai Thani
Drainage Area	227	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+101.530 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 60 meters from the top staff gage				Elevation	+113.280 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
Rated by Current Meter	1983 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.96	101.93	101.97	101.93	101.91	101.90	102.53	102.37	102.42	102.43	101.80	101.81	
2	101.94	101.93	101.95	101.92	101.91	101.89	102.56	102.32	102.53	102.40	101.79	101.79	
3	101.93	101.93	101.94	101.92	101.90	101.92	103.53	102.26	102.63	101.80	101.81	101.79	
4	101.93	101.92	101.93	101.91	101.90	101.92	103.24	102.25	102.60	101.79	101.80	101.79	
5	101.92	101.92	101.92	101.91	101.89	101.93	103.07	102.23	102.42	101.79	101.78	101.79	
6	101.92	101.91	101.92	101.91	101.89	101.92	102.79	102.19	102.30	101.79	101.81	101.79	
7	101.92	101.91	101.91	101.95	101.92	101.90	102.64	102.16	101.82	101.78	101.83	101.78	
8	101.93	101.90	101.91	101.94	102.18	101.89	102.56	102.13	101.80	101.78	101.82	101.78	
9	101.92	102.38	101.91	101.92	102.54	101.89	102.47	102.13	101.80	101.78	101.80	101.78	
10	101.91	102.44	102.05	101.92	102.48	101.88	102.43	102.13	101.80	101.78	101.79	101.78	
11	101.91	102.45	102.52	101.91	102.46	101.87	102.32	102.13	101.79	101.78	101.79	101.78	
12	102.11	102.46	102.52	101.91	102.45	101.87	102.50	102.11	101.79	101.78	101.79	101.78	
13	102.38	102.46	102.54	101.90	102.54	101.87	102.76	102.09	101.79	101.78	101.79	101.78	
14	102.37	102.38	102.54	101.90	102.53	101.86	102.75	102.08	101.79	101.78	101.78	101.78	
15	102.28	102.38	102.54	101.90	102.53	101.86	102.64	102.07	101.79	101.78	101.78	101.78	
16	101.96	101.95	102.54	101.90	102.63	101.87	102.52	102.07	101.79	101.78	101.78	101.89	
17	101.94	101.94	101.94	101.90	102.62	102.34	102.93	102.06	101.79	101.78	101.78	102.34	
18	101.94	101.96	101.93	101.90	102.57	101.91	103.07	102.06	101.79	101.78	101.78	102.37	
19	101.93	101.96	101.93	102.46	102.49	101.89	102.82	102.05	101.79	101.78	101.78	102.44	
20	101.92	101.94	101.93	102.53	101.92	101.88	102.69	102.04	101.79	102.66	102.40	102.55	
21	101.92	101.96	101.93	102.54	101.91	101.88	102.59	102.02	102.46	102.64	102.40	102.57	
22	101.92	101.98	101.92	102.54	101.90	101.87	102.46	102.01	102.45	102.64	102.39	102.41	
23	101.92	101.98	101.92	102.53	101.90	101.87	102.43	102.01	102.55	102.64	102.39	102.40	
24	101.92	101.95	101.92	102.46	101.90	101.89	102.42	102.36	102.54	102.63	102.43	102.34	
25	102.36	101.95	101.92	102.44	101.89	101.89	102.39	102.59	102.54	102.63	102.42	102.05	
26	101.94	101.94	102.43	102.46	101.88	101.96	102.47	102.59	102.54	102.62	102.48	101.76	
27	101.93	101.93	102.43	102.34	101.88	101.97	102.61	102.59	102.42	102.62	102.28	101.76	
28	101.93	101.96	102.29	102.33	101.88	102.00	102.61	102.58	101.83	102.61	102.20	101.75	
29	101.97	101.94	102.29	102.32	102.09	101.94	102.59	102.59	101.81	102.60		101.74	
30	101.94	101.94	101.96	101.91	101.92	101.94	102.46	102.65	101.80	102.49		101.73	
31		102.03		101.91	101.91		102.40		101.79	102.11		101.73	
Mean	101.99	102.05	102.11	102.10	102.14	101.92	102.65	102.23	102.09	102.13	101.98	101.96	
Max	102.38	102.46	102.54	102.54	102.63	102.34	103.53	102.65	102.63	102.66	102.48	102.57	103.53
Min	101.91	101.90	101.91	101.90	101.88	101.86	102.32	102.01	101.79	101.78	101.78	101.73	101.73
Annual Max Momentary Gage Height	103.63		m. (MSL.) ,				at 06.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	101.53		m. (MSL.) ,			River Bed	101.41		m. (MSL)				
Left Bank Elevation		108.30		m. (MSL.) ,									
Right Bank Elevation		108.34		m. (MSL.) ,		Drainage Area	227		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.15	0.35	0.15	0.05	0.00	8.25	4.49	5.50	5.75	0.00	0.00	
2	0.20	0.15	0.25	0.10	0.05	0.00	9.00	3.64	8.25	5.00	0.00	0.00	
3	0.15	0.15	0.20	0.10	0.00	0.10	50.91	2.78	10.96	0.00	0.00	0.00	
4	0.15	0.10	0.15	0.05	0.00	0.10	35.50	2.65	10.00	0.00	0.00	0.00	
5	0.10	0.10	0.10	0.05	0.00	0.15	27.65	2.39	5.50	0.00	0.00	0.00	
6	0.10	0.05	0.10	0.05	0.00	0.10	16.47	1.90	3.30	0.00	0.00	0.00	
7	0.10	0.05	0.05	0.25	0.10	0.00	11.28	1.60	0.00	0.00	0.00	0.00	
8	0.15	0.00	0.05	0.20	1.80	0.00	9.00	1.30	0.00	0.00	0.00	0.00	
9	0.10	4.66	0.05	0.10	8.50	0.00	6.75	1.30	0.00	0.00	0.00	0.00	
10	0.05	6.00	0.75	0.10	7.00	0.00	5.75	1.30	0.00	0.00	0.00	0.00	
11	0.05	6.25	8.00	0.05	6.50	0.00	3.64	1.30	0.00	0.00	0.00	0.00	
12	1.10	6.50	8.00	0.05	6.25	0.00	7.50	1.10	0.00	0.00	0.00	0.00	
13	4.66	6.50	8.50	0.00	8.50	0.00	15.38	0.95	0.00	0.00	0.00	0.00	
14	4.49	4.66	8.50	0.00	8.25	0.00	15.02	0.90	0.00	0.00	0.00	0.00	
15	3.04	4.66	8.50	0.00	8.25	0.00	11.28	0.85	0.00	0.00	0.00	0.00	
16	0.30	0.25	8.50	0.00	10.96	0.00	8.00	0.85	0.00	0.00	0.00	0.00	
17	0.20	0.20	0.20	0.00	10.64	3.98	21.67	0.80	0.00	0.00	0.00	3.98	
18	0.20	0.30	0.15	0.00	9.25	0.05	27.65	0.80	0.00	0.00	0.00	4.49	
19	0.15	0.30	0.15	6.50	7.25	0.00	17.56	0.75	0.00	0.00	0.00	6.00	
20	0.10	0.20	0.15	8.25	0.10	0.00	12.88	0.70	0.00	11.92	5.00	8.75	
21	0.10	0.30	0.15	8.50	0.05	0.00	9.75	0.60	6.50	11.28	5.00	9.25	
22	0.10	0.40	0.10	8.50	0.00	0.00	6.50	0.55	6.25	11.28	4.83	5.25	
23	0.10	0.40	0.10	8.25	0.00	0.00	5.75	0.55	8.75	11.28	4.83	5.00	
24	0.10	0.25	0.10	6.50	0.00	0.00	5.50	4.32	8.50	10.96	5.75	3.98	
25	4.32	0.25	0.10	6.00	0.00	0.00	4.83	9.75	8.50	10.96	5.50	0.75	
26	0.20	0.20	5.75	6.50	0.00	0.30	6.75	9.75	8.50	10.64	7.00	0.00	
27	0.15	0.15	5.75	3.98	0.00	0.35	10.32	9.75	5.50	10.64	3.04	0.00	
28	0.15	0.30	3.17	3.81	0.00	0.50	10.32	9.50	0.00	10.32	2.00	0.00	
29	0.35	0.20	3.17	3.64	0.95	0.20	9.75	9.75	0.00	10.00	0.00	0.00	
30	0.20	0.20	0.30	0.05	0.10	0.20	6.50	11.60	0.00	7.25	0.00	0.00	
31		0.65		0.05	0.05		5.00		0.00	1.10		0.00	
Total	21.46	44.53	71.39	71.78	94.60	6.03	402.11	98.47	96.01	128.38	42.95	47.45	1125.16 CMSDAY
Mean	0.72	1.44	2.38	2.32	3.05	0.20	12.97	3.28	3.10	4.14	1.53	1.53	3.08 CMS
Max	4.66	6.50	8.50	8.50	10.96	3.98	50.91	11.60	10.96	11.92	7.00	9.25	50.91 CMS
Min	0.05	0.00	0.05	0.00	0.00	0.00	3.64	0.55	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.85	3.85	6.17	6.20	8.17	0.52	34.74	8.51	8.30	11.09	3.71	4.10	97.21 MCM
Momentary Peak	56.82 CMS. at 103.63 m. (MSL.) at 06.00 Hours , on Oct 3 , 2009												
Runoff Yield	13.55 Liters/Second/Square KM.			Momentary Peak Yield			249.802 Liters/Second/Square KM.						

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban In Buri, Sing Buri (C.44)

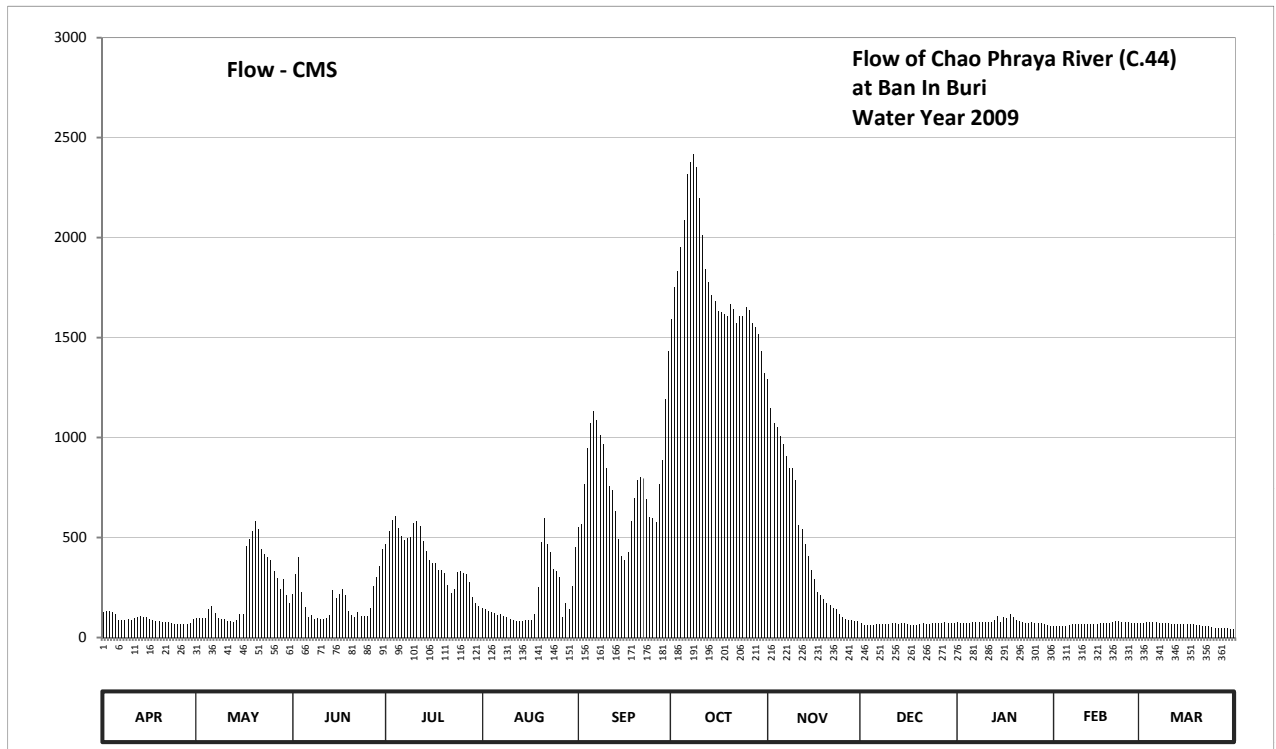
Lat 15 - 00 - 18 N Long 100 - 19 - 48 E

Location : on right bank at the bridge

	Ban	In Buri	Amphoe	In Buri	Changwat	Sing Buri
Drainage Area	118,510	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (M.S.L.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site				Elevation	+13.856 m. (M.S.L.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 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	Overbank flow starts at elevation +12.190 m.(MSL.) and is including overbank flow.					
General Description	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.48	4.18	5.17	6.71	4.66	7.19	11.30	10.38	3.93	4.00	3.78	3.94	
2	4.51	4.22	5.81	7.08	4.61	7.26	11.75	9.82	3.82	3.97	3.78	3.96	
3	4.52	4.21	6.32	7.38	4.53	8.19	11.95	9.52	3.81	3.95	3.77	4.02	
4	4.50	4.18	5.25	7.48	4.47	9.00	12.22	9.44	3.81	3.94	3.77	4.02	
5	4.41	4.59	4.68	7.17	4.43	9.53	12.51	9.26	3.84	3.93	3.76	4.01	
6	4.11	4.72	4.27	6.95	4.35	9.77	12.97	9.09	3.89	4.02	3.85	3.98	
7	4.10	4.44	4.35	6.82	4.38	9.59	13.07	8.82	3.91	4.02	3.89	3.97	
8	4.11	4.21	4.13	6.87	4.31	9.27	13.14	8.55	3.91	3.99	3.89	3.97	
9	4.15	4.17	4.21	6.92	4.23	9.09	13.03	8.55	3.92	3.99	3.89	3.95	
10	4.12	4.15	4.14	7.30	4.17	8.56	12.73	8.28	3.92	3.99	3.88	3.93	
11	4.18	4.05	4.15	7.35	4.12	8.15	12.36	7.23	3.93	4.00	3.89	3.92	
12	4.26	4.07	4.22	7.22	4.03	8.06	11.97	7.15	3.93	4.02	3.89	3.90	
13	4.30	4.02	4.33	6.78	4.04	7.59	11.81	6.70	3.92	4.09	3.89	3.91	
14	4.25	4.11	5.31	6.51	4.05	6.85	11.64	6.34	3.94	4.30	3.90	3.90	
15	4.24	4.37	5.02	6.22	4.10	6.35	11.56	5.92	3.95	4.01	3.92	3.89	
16	4.14	4.39	5.17	6.13	4.11	6.22	11.42	5.66	3.92	4.25	3.93	3.88	
17	4.10	6.63	5.34	6.14	4.09	6.47	11.40	5.25	3.85	4.18	3.93	3.90	
18	4.07	6.84	5.13	5.93	4.40	7.36	11.38	5.13	3.85	4.41	3.94	3.89	
19	4.03	7.07	4.52	5.93	5.40	7.88	11.35	4.98	3.85	4.26	3.95	3.85	
20	4.01	7.35	4.33	5.83	6.76	8.28	11.51	4.83	3.87	4.09	3.99	3.82	
21	4.00	7.15	4.28	5.46	7.41	8.36	11.44	4.77	3.93	4.03	4.06	3.80	
22	3.98	6.54	4.48	5.21	6.71	8.33	11.25	4.67	3.92	3.98	4.05	3.78	
23	3.93	6.40	4.29	5.34	6.48	7.87	11.35	4.59	3.92	3.96	4.02	3.76	
24	3.89	6.33	4.29	5.87	5.96	7.44	11.35	4.38	3.93	3.95	4.01	3.69	
25	3.92	6.23	4.31	5.90	5.90	7.41	11.47	4.25	3.96	3.98	3.98	3.68	
26	3.90	5.89	4.64	5.85	5.72	7.33	11.43	4.17	3.93	3.96	3.95	3.68	
27	3.92	5.67	5.42	5.80	4.28	8.20	11.25	4.12	3.94	3.96	3.96	3.68	
28	3.89	5.35	5.71	5.54	4.85	8.75	11.19	4.09	3.99	3.94	3.96	3.67	
29	3.95	5.66	6.05	5.05	4.63	10.01	11.10	4.08	3.97	3.89		3.66	
30	4.15	5.14	6.56	4.85	5.44	10.84	10.84	4.04	3.97	3.81		3.61	
31	4.84		4.73	6.62		10.47			3.97	3.79		3.58	
Mean	4.14	5.20	4.86	6.27	4.94	8.17	11.75	6.47	3.91	4.02	3.91	3.85	
Max	4.52	7.35	6.56	7.48	7.41	10.84	13.14	10.38	3.99	4.41	4.06	4.02	13.14
Min	3.89	4.02	4.13	4.73	4.03	6.22	10.47	4.04	3.81	3.79	3.76	3.58	3.58
Annual Max Momentary Gage Height	13.15		m. (MSL.) ,				at 12.00 Hours , on Oct 8 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	1.90		m. (MSL)				
Left Bank Elevation	12.18		m. (MSL.) ,										
Right Bank Elevation	13.65		m. (MSL.) ,			Drainage Area	118510		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	126.80	95.00	217.80	468.70	148.20	552.20	1590.00	1294.40	70.70	77.00	57.40	71.60	
2	130.20	99.00	318.60	532.40	142.20	565.40	1753.00	1145.00	60.80	74.30	57.40	73.40	
3	131.40	98.00	402.40	589.00	132.60	764.80	1832.00	1070.00	59.90	72.50	56.60	79.00	
4	129.00	95.00	229.50	609.80	125.70	946.00	1949.20	1050.60	59.90	71.60	56.60	79.00	
5	119.10	139.80	150.60	548.60	121.30	1072.50	2087.00	1007.40	62.60	70.70	55.80	78.00	
6	88.00	155.60	104.00	509.50	112.50	1132.50	2319.80	966.70	67.10	79.00	63.50	75.20	
7	87.00	122.40	112.50	487.40	115.80	1087.50	2376.60	904.60	68.90	79.00	67.10	74.30	
8	88.00	98.00	90.00	495.90	108.10	1009.80	2417.20	844.00	68.90	76.10	67.10	74.30	
9	92.00	94.00	98.00	504.40	100.00	966.70	2353.40	844.00	69.80	76.10	67.10	72.50	
10	89.00	92.00	91.00	573.00	94.00	846.20	2197.00	784.60	69.80	76.10	66.20	70.70	
11	95.00	82.00	92.00	583.00	89.00	756.00	2013.60	559.70	70.70	77.00	67.10	69.80	
12	103.00	84.00	99.00	557.80	80.00	736.20	1840.00	545.00	70.70	79.00	67.10	68.00	
13	107.00	79.00	110.30	480.60	81.00	632.90	1776.00	467.00	69.80	86.00	67.10	68.90	
14	102.00	88.00	238.60	434.70	82.00	492.50	1712.40	405.80	71.60	107.00	68.00	68.00	
15	101.00	114.70	196.80	385.40	87.00	407.50	1683.60	336.20	72.50	78.00	69.80	67.10	
16	91.00	116.90	217.80	370.10	88.00	385.40	1633.20	294.60	69.80	102.00	70.70	66.20	
17	87.00	455.10	243.40	371.80	86.00	427.90	1626.00	229.50	63.50	95.00	70.70	68.00	
18	84.00	490.80	212.20	337.80	118.00	585.00	1618.80	212.20	63.50	119.10	71.60	67.10	
19	80.00	530.60	131.40	337.80	253.00	696.60	1608.00	191.20	63.50	103.00	72.50	63.50	
20	78.00	583.00	110.30	321.80	477.20	784.60	1665.60	170.20	65.30	86.00	76.10	60.80	
21	77.00	545.00	105.00	262.60	595.10	802.20	1640.40	162.10	70.70	80.00	83.00	59.00	
22	75.20	439.80	126.80	223.50	468.70	795.60	1572.00	149.40	69.80	75.20	82.00	57.40	
23	70.70	416.00	106.00	243.40	429.60	694.40	1608.00	139.80	69.80	73.40	79.00	55.80	
24	67.10	404.10	106.00	328.20	342.60	601.40	1608.00	115.80	70.70	72.50	78.00	50.20	
25	69.80	387.10	108.10	333.00	333.00	595.10	1651.20	102.00	73.40	75.20	75.20	49.40	
26	68.00	331.40	145.80	325.00	304.20	579.00	1636.80	94.00	70.70	73.40	72.50	49.40	
27	69.80	296.20	256.20	317.00	105.00	767.00	1572.00	89.00	71.60	73.40	73.40	49.40	
28	67.10	245.00	302.60	275.40	173.00	888.50	1550.40	86.00	76.10	71.60	73.40	48.60	
29	72.50	294.60	357.00	201.00	144.60	1192.70	1518.00	85.00	74.30	67.10		47.80	
30	92.00	213.60	443.20	173.00	259.40	1432.80	1432.80	81.00	74.30	59.90		43.80	
31		171.60		156.90	453.40		1321.00		74.30	58.20		41.40	
Total	2737.70	7457.30	5522.90	12338.50	6250.20	23196.90	55163.00	14426.80	2135.00	2464.40	1932.00	1967.60	135592.30 CMSDAY
Mean	91.26	240.56	184.10	398.02	201.62	773.23	1779.45	480.89	68.87	79.50	69.00	63.47	371.49 CMS
Max	131.40	583.00	443.20	609.80	595.10	1432.80	2417.20	1294.40	76.10	119.10	83.00	79.00	2417.20 CMS
Min	67.10	79.00	90.00	156.90	80.00	385.40	1321.00	81.00	59.90	58.20	55.80	41.40	41.40 CMS
Runoff	236.54	644.31	477.18	1066.05	540.02	2004.21	4766.08	1246.48	184.46	212.92	166.93	170.00	11715.18 MCM
Momentary Peak	2423.00 CMS. at 13.15 m. (MSL.) at 12.00 Hours , on Oct 8 , 2009												
Runoff Yield	3.13 Liters/Second/Square KM.			Momentary Peak Yield				20.446 Liters/Second/Square KM.					

WATER YEAR : 2009

CHAO PHRAYA RIVER BASIN

Huai Khun Kaeo at Ban Kud Jok, Chai Nat (C.51)

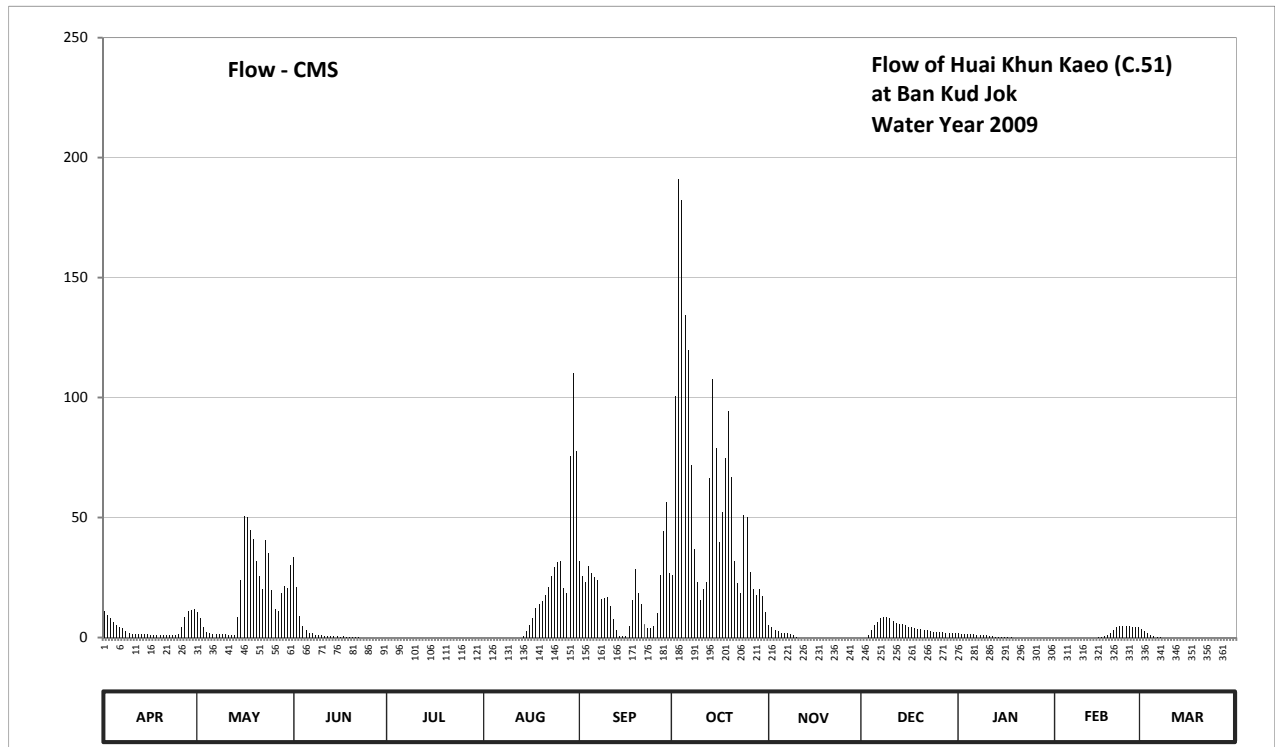
Lat 15 - 17 - 22 N Long 99 - 54 - 07 E

Location : on left bank at the bridge

	Ban Kud Jok	Amphoe Wat Sing	Changwat Chai Nat
Drainage Area	1,059 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+29.470 m. (M.S.L.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the bridge	Elevation	+37.426 m. (M.S.L.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.46	31.44	32.33	30.19	30.16	32.30	32.14	30.97	29.92	30.52	29.96	30.78	
2	31.35	31.24	31.96	30.18	30.15	32.12	33.40	30.85	30.19	30.51	29.96	30.65	
3	31.23	30.88	31.32	30.18	30.14	32.03	34.40	30.73	30.43	30.50	29.97	30.52	
4	31.12	30.60	30.92	30.18	30.13	32.25	34.31	30.65	30.72	30.47	29.97	30.40	
5	30.99	30.55	30.73	30.17	30.12	32.17	33.80	30.57	30.96	30.47	29.97	30.33	
6	30.87	30.50	30.56	30.17	30.11	32.10	33.63	30.54	31.13	30.45	29.97	30.26	
7	30.82	30.49	30.53	30.17	30.10	32.07	33.01	30.52	31.25	30.43	29.98	30.21	
8	30.67	30.48	30.44	30.18	30.08	31.73	32.40	30.46	31.27	30.42	29.99	30.16	
9	30.52	30.47	30.38	30.18	30.07	31.75	32.03	30.42	31.27	30.40	30.00	30.15	
10	30.47	30.45	30.37	30.18	30.05	31.77	31.70	30.25	31.25	30.38	30.01	30.12	
11	30.47	30.43	30.36	30.18	30.02	31.57	31.92	30.20	31.14	30.36	30.06	30.09	
12	30.46	30.39	30.34	30.17	30.02	31.20	32.03	30.18	31.07	30.32	30.11	30.06	
13	30.45	30.43	30.33	30.17	30.01	30.70	32.92	30.16	31.04	30.27	30.16	30.03	
14	30.45	31.29	30.32	30.17	30.36	30.31	33.49	30.14	31.01	30.25	30.20	30.00	
15	30.45	32.06	30.31	30.17	30.64	30.30	33.11	30.11	30.99	30.23	30.23	29.97	
16	30.44	32.66	30.27	30.16	30.96	30.29	32.46	30.09	30.87	30.22	30.22	29.94	
17	30.44	32.65	30.29	30.16	31.26	30.92	32.69	30.08	30.86	30.21	30.32	29.93	
18	30.44	32.56	30.28	30.16	31.52	31.70	33.05	30.07	30.82	30.21	30.42	29.92	
19	30.44	32.49	30.27	30.15	31.61	32.21	33.32	30.06	30.78	30.20	30.57	29.92	
20	30.44	32.30	30.26	30.15	31.69	31.85	32.93	30.05	30.75	30.17	30.73	29.91	
21	30.43	32.12	30.23	30.14	31.82	31.61	32.30	30.04	30.72	30.16	30.86	29.91	
22	30.43	31.92	30.22	30.14	31.95	31.02	32.02	30.04	30.69	30.12	30.94	29.90	
23	30.43	32.48	30.20	30.15	32.12	30.84	31.85	30.03	30.67	30.10	30.92	29.87	
24	30.43	32.37	30.19	30.18	32.24	30.81	32.67	30.00	30.62	30.07	30.91	29.86	
25	30.49	31.90	30.18	30.19	32.29	30.90	32.65	29.98	30.61	30.02	30.90	29.81	
26	30.88	31.51	30.18	30.19	32.30	31.39	32.18	29.97	30.60	30.00	30.87	29.74	
27	31.29	31.46	30.18	30.18	31.94	32.13	31.92	29.94	30.59	29.97	30.87	29.74	
28	31.46	31.85	30.19	30.18	31.86	32.55	31.82	29.93	30.57	29.97	30.86	29.74	
29	31.48	31.98	30.19	30.17	33.06	32.76	31.92	29.92	30.56	29.97		29.74	
30	31.50	31.94	30.19	30.17	33.52	32.17	31.79	29.91	30.54	29.96		29.74	
31		32.26		30.16	33.09		31.43		30.53	29.96		29.74	
Mean	30.76	31.49	30.48	30.17	31.14	31.58	32.62	30.23	30.79	30.24	30.35	30.04	
Max	31.50	32.66	32.33	30.19	33.52	32.76	34.40	30.97	31.27	30.52	30.94	30.78	34.40
Min	30.43	30.39	30.18	30.14	30.01	30.29	31.43	29.91	29.92	29.96	29.96	29.74	29.74
Annual Max Momentary Gage Height		34.52		m. (MSL.) ,			at 18.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation		29.47		m. (MSL.) ,		River Bed	29.74		m. (MSL)				
Left Bank Elevation				37.41									
Right Bank Elevation				37.35			Drainage Area	1059		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.18	10.82	33.44	0.00	0.00	32.00	26.16	5.16	0.00	1.64	0.00	3.64	
2	9.45	8.02	21.14	0.00	0.00	25.58	100.50	4.20	0.00	1.57	0.00	2.60	
3	7.89	4.44	9.06	0.00	0.00	22.97	191.00	3.24	1.15	1.50	0.00	1.64	
4	6.46	2.20	4.76	0.00	0.00	29.95	182.18	2.60	3.16	1.35	0.00	1.00	
5	5.32	1.85	3.24	0.00	0.00	27.03	134.20	1.99	5.08	1.35	0.00	0.65	
6	4.36	1.50	1.92	0.00	0.00	25.00	119.58	1.78	6.59	1.25	0.00	0.30	
7	3.96	1.45	1.71	0.00	0.00	24.13	71.90	1.64	8.15	1.15	0.00	0.05	
8	2.76	1.40	1.20	0.00	0.00	16.04	36.80	1.30	8.41	1.10	0.00	0.00	
9	1.64	1.35	0.90	0.00	0.00	16.40	22.97	1.10	8.41	1.00	0.00	0.00	
10	1.35	1.25	0.85	0.00	0.00	16.76	15.50	0.25	8.15	0.90	0.00	0.00	
11	1.35	1.15	0.80	0.00	0.00	13.16	20.18	0.00	6.72	0.80	0.00	0.00	
12	1.30	0.95	0.70	0.00	0.00	7.50	22.97	0.00	5.96	0.60	0.00	0.00	
13	1.25	1.15	0.65	0.00	0.00	3.00	66.24	0.00	5.72	0.35	0.00	0.00	
14	1.25	8.67	0.60	0.00	0.80	0.55	107.61	0.00	5.48	0.25	0.00	0.00	
15	1.25	23.84	0.55	0.00	2.52	0.50	78.90	0.00	5.32	0.15	0.15	0.00	
16	1.20	50.56	0.35	0.00	5.08	0.45	39.68	0.00	4.36	0.10	0.10	0.00	
17	1.20	50.00	0.45	0.00	8.28	4.76	52.24	0.00	4.28	0.05	0.60	0.00	
18	1.20	44.96	0.40	0.00	12.26	15.50	74.70	0.00	3.96	0.05	1.10	0.00	
19	1.20	41.12	0.35	0.00	13.88	28.31	94.18	0.00	3.64	0.00	1.99	0.00	
20	1.20	32.00	0.30	0.00	15.32	18.50	66.86	0.00	3.40	0.00	3.24	0.00	
21	1.15	25.58	0.15	0.00	17.78	13.88	32.00	0.00	3.16	0.00	4.28	0.00	
22	1.15	20.18	0.10	0.00	20.90	5.56	22.68	0.00	2.92	0.00	4.92	0.00	
23	1.15	40.64	0.00	0.00	25.58	4.12	18.50	0.00	2.76	0.00	4.76	0.00	
24	1.15	35.36	0.00	0.00	29.54	3.88	51.12	0.00	2.36	0.00	4.68	0.00	
25	1.45	19.70	0.00	0.00	31.59	4.60	50.00	0.00	2.28	0.00	4.60	0.00	
26	4.44	12.08	0.00	0.00	32.00	9.97	27.32	0.00	2.20	0.00	4.36	0.00	
27	8.67	11.18	0.00	0.00	20.66	25.87	20.18	0.00	2.13	0.00	4.36	0.00	
28	11.18	18.50	0.00	0.00	18.74	44.40	17.78	0.00	1.99	0.00	4.28	0.00	
29	11.54	21.62	0.00	0.00	75.40	56.40	20.18	0.00	1.92	0.00		0.00	
30	11.90	20.66	0.00	0.00	110.12	27.03	17.12	0.00	1.78	0.00		0.00	
31		30.36		0.00	77.50		10.64		1.71	0.00		0.00	
Total	120.55	544.54	83.62	0.00	517.95	523.80	1811.87	23.26	123.15	15.16	43.42	9.88	3817.20 CMSDAY
Mean	4.02	17.57	2.79	0.00	16.71	17.46	58.45	0.78	3.97	0.49	1.55	0.32	10.46 CMS
Max	11.90	50.56	33.44	0.00	110.12	56.40	191.00	5.16	8.41	1.64	4.92	3.64	191.00 CMS
Min	1.15	0.95	0.00	0.00	0.00	0.45	10.64	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	10.42	47.05	7.23	0.00	44.75	45.26	156.55	2.01	10.64	1.31	3.75	0.85	329.81 MCM
Momentary Peak	203.10 CMS. at 34.52 m. (MSL.) at 18.00 Hours , on Oct 3 , 2009												
Runoff Yield	9.87 Liters/Second/Square KM.			Momentary Peak Yield				191.763 Liters/Second/Square KM.					

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Sakae Krang River at Ban Hat Tanong, Uthai Thani (Ct.2A)

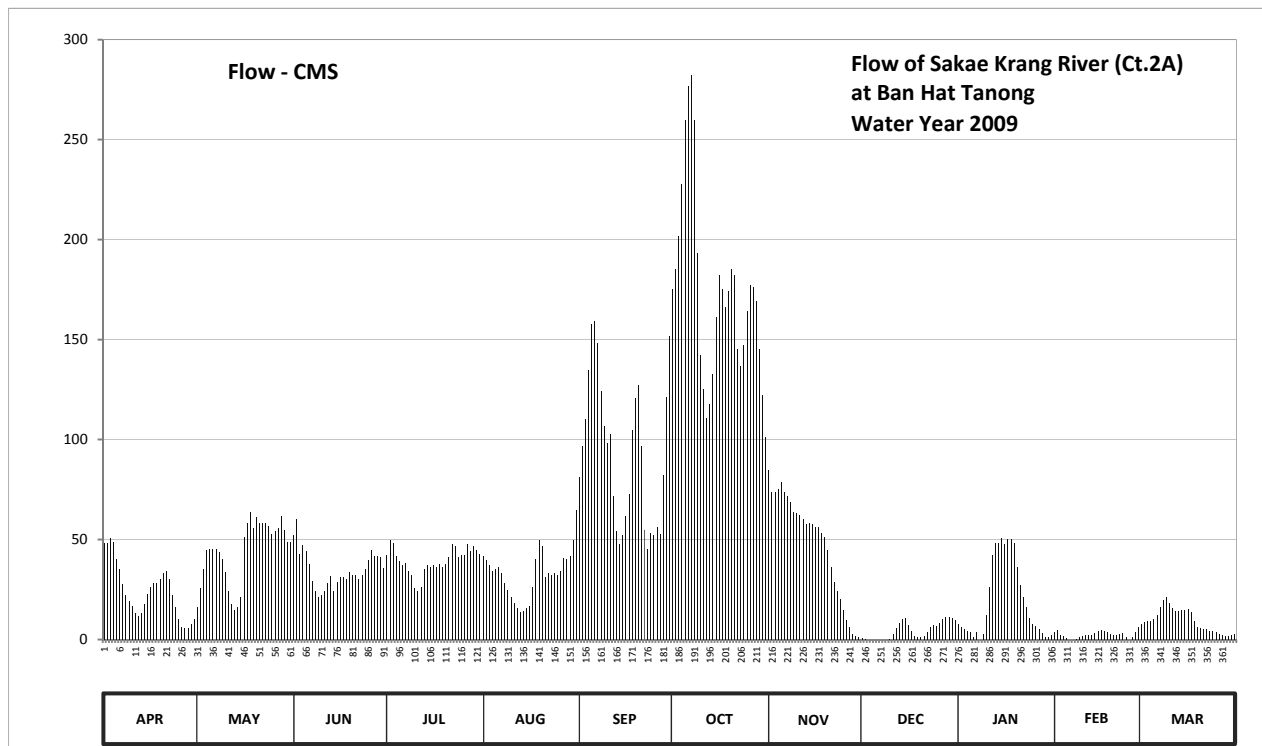
Lat 15 - 24 - 39 N Long 100 - 03 - 29 E

Location : on left bank at Ban Hat Tanong.

	Ban	Hat Tanong	Amphoe	Mueang	Changwat	Uthai Thani
Drainage Area	3,641	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (M.S.L.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge				Elevation	+20.130 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.54	15.80	16.60	16.44	16.43	16.98	17.98	17.02	15.08	15.48	15.29	15.49	
2	16.54	16.09	16.72	16.56	16.39	17.15	18.08	16.89	15.04	15.42	15.33	15.53	
3	16.58	16.30	16.45	16.54	16.34	17.30	18.25	16.89	14.92	15.35	15.21	15.55	
4	16.55	16.48	16.52	16.43	16.29	17.56	18.51	16.91	14.91	15.31	15.15	15.55	
5	16.40	16.49	16.47	16.38	16.30	17.80	18.81	16.95	14.91	15.28	15.06	15.60	
6	16.30	16.49	16.35	16.34	16.33	17.82	18.97	16.89	14.93	15.12	14.96	15.67	
7	16.14	16.49	16.18	16.36	16.26	17.70	19.02	16.87	14.95	15.28	14.91	15.80	
8	16.01	16.46	16.05	16.28	16.15	17.45	18.81	16.83	14.94	14.97	15.02	15.93	
9	15.91	16.40	15.98	16.24	16.07	17.26	18.16	16.77	14.93	15.24	15.13	15.97	
10	15.83	16.27	16.00	16.09	15.98	17.17	17.64	16.76	15.02	15.66	15.19	15.88	
11	15.70	16.05	16.05	16.05	15.88	17.22	17.46	16.75	15.24	16.11	15.20	15.79	
12	15.64	15.85	16.15	16.10	15.79	16.87	17.31	16.72	15.39	16.44	15.20	15.74	
13	15.70	15.76	16.23	16.30	15.72	16.63	17.38	16.68	15.51	16.54	15.21	15.74	
14	15.85	15.81	16.05	16.34	15.75	16.53	17.54	16.69	15.59	16.54	15.25	15.76	
15	16.02	15.98	16.17	16.33	15.79	16.60	17.84	16.68	15.61	16.58	15.30	15.76	
16	16.11	16.59	16.22	16.34	15.83	16.74	18.05	16.66	15.47	16.53	15.33	15.78	
17	16.15	16.69	16.22	16.33	16.10	16.88	17.98	16.66	15.30	16.57	15.32	15.73	
18	16.16	16.77	16.21	16.35	16.40	17.24	17.89	16.62	15.18	16.57	15.29	15.55	
19	16.20	16.65	16.27	16.33	16.56	17.41	17.97	16.59	15.13	16.54	15.23	15.41	
20	16.26	16.73	16.25	16.35	16.51	17.48	18.08	16.48	15.13	16.33	15.21	15.38	
21	16.28	16.69	16.25	16.42	16.22	17.15	18.05	16.32	15.15	16.13	15.20	15.36	
22	16.20	16.69	16.20	16.53	16.26	16.64	17.67	16.17	15.28	15.98	15.24	15.36	
23	16.00	16.69	16.24	16.51	16.24	16.49	17.58	16.06	15.40	15.80	15.26	15.32	
24	15.80	16.67	16.30	16.42	16.26	16.62	17.69	15.94	15.45	15.61	15.10	15.30	
25	15.59	16.61	16.39	16.44	16.24	16.60	17.87	15.76	15.44	15.48	14.97	15.28	
26	15.42	16.63	16.48	16.44	16.29	16.66	18.00	15.56	15.52	15.43	15.14	15.24	
27	15.38	16.65	16.43	16.53	16.41	16.61	17.99	15.40	15.59	15.37	15.29	15.20	
28	15.38	16.74	16.43	16.47	16.40	16.99	17.92	15.24	15.62	15.25	15.41	15.19	
29	15.48	16.64	16.42	16.51	16.43	17.42	17.67	15.16	15.62	15.11		15.18	
30	15.59	16.55	16.31	16.48	16.56	17.74	17.43	15.10	15.61	15.14		15.21	
31		16.55		16.45	16.78		17.20		15.56	15.21		15.24	
Mean	15.99	16.43	16.29	16.38	16.22	17.09	17.96	16.40	15.27	15.75	15.19	15.53	
Max	16.58	16.77	16.72	16.56	16.78	17.82	19.02	17.02	15.62	16.58	15.41	15.97	19.02
Min	15.38	15.76	15.98	16.05	15.72	16.49	17.20	15.10	14.91	14.97	14.91	15.18	14.91
Annual Max Momentary Gage Height	19.03		m. (MSL) ,				at 06.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL) ,			River Bed	12.36		m. (MSL)				
Left Bank Elevation	21.35		m. (MSL) ,										
Right Bank Elevation	21.37		m. (MSL) ,			Drainage Area	3641		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.40	16.00	52.00	42.40	41.80	81.30	175.00	84.80	0.80	7.60	3.80	7.80	
2	48.40	25.60	60.40	49.60	39.50	96.50	185.00	73.65	0.40	6.40	4.60	8.75	
3	50.80	35.00	43.00	48.40	37.00	110.00	202.00	73.65	0.00	5.00	2.20	9.25	
4	49.00	44.80	47.20	41.80	34.50	134.70	228.05	75.35	0.00	4.20	1.50	9.25	
5	40.00	45.40	44.20	39.00	35.00	157.50	259.55	78.75	0.00	3.60	0.60	10.50	
6	35.00	45.40	37.50	37.00	36.50	159.40	276.70	73.65	0.00	1.20	0.00	12.25	
7	27.60	45.40	29.20	38.00	33.00	148.00	282.20	71.95	0.00	3.60	0.00	16.00	
8	22.40	43.60	24.00	34.00	28.00	124.25	259.55	68.55	0.00	0.00	0.20	19.90	
9	19.30	40.00	21.40	32.00	24.80	106.40	193.00	63.90	0.00	2.80	1.30	21.10	
10	16.90	33.50	22.00	25.60	21.40	98.30	142.30	63.20	0.20	12.00	1.90	18.40	
11	13.00	24.00	24.00	24.00	18.40	102.80	125.20	62.50	2.80	26.40	2.00	15.70	
12	11.50	17.50	28.00	26.00	15.70	71.95	110.95	60.40	5.80	42.40	2.00	14.20	
13	13.00	14.80	31.50	35.00	13.60	54.10	117.60	57.60	8.25	48.40	2.20	14.20	
14	17.50	16.30	24.00	37.00	14.50	47.80	132.80	58.30	10.25	48.40	3.00	14.80	
15	22.80	21.40	28.80	36.50	15.70	52.00	161.30	57.60	10.75	50.80	4.00	14.80	
16	26.40	51.40	31.00	37.00	16.90	61.80	182.00	56.20	7.40	47.80	4.60	15.40	
17	28.00	58.30	31.00	36.50	26.00	72.80	175.00	56.20	4.00	50.20	4.40	13.90	
18	28.40	63.90	30.50	37.50	40.00	104.60	166.05	53.40	1.80	50.20	3.80	9.25	
19	30.00	55.50	33.50	36.50	49.60	120.45	174.00	51.40	1.30	48.40	2.60	6.20	
20	33.00	61.10	32.50	37.50	46.60	127.10	185.00	44.80	1.30	36.50	2.20	5.60	
21	34.00	58.30	32.50	41.20	31.00	96.50	182.00	36.00	1.50	27.20	2.00	5.20	
22	30.00	58.30	30.00	47.80	33.00	54.80	145.15	28.80	3.60	21.40	2.80	5.20	
23	22.00	58.30	32.00	46.60	32.00	45.40	136.60	24.40	6.00	16.00	3.20	4.40	
24	16.00	56.90	35.00	41.20	33.00	53.40	147.05	20.20	7.00	10.75	1.00	4.00	
25	10.25	52.70	39.50	42.40	32.00	52.00	164.15	14.80	6.80	7.60	0.00	3.60	
26	6.40	54.10	44.80	42.40	34.50	56.20	177.00	9.50	8.50	6.60	1.40	2.80	
27	5.60	55.50	41.80	47.80	40.60	52.70	176.00	6.00	10.25	5.40	3.80	2.00	
28	5.60	61.80	41.80	44.20	40.00	82.15	169.00	2.80	11.00	3.00	6.20	1.90	
29	7.60	54.80	41.20	46.60	41.80	121.40	145.15	1.60	11.00	1.10		1.80	
30	10.25	49.00	35.50	44.80	49.60	151.80	122.35	1.00	10.75	1.40		2.20	
31		49.00		43.00	64.60		101.00		9.50	2.20		2.80	
Total	729.10	1367.60	1049.80	1219.30	1020.60	2798.10	5398.70	1430.95	140.95	598.55	67.30	293.15	16114.10 CMSDAY
Mean	24.30	44.12	34.99	39.33	32.92	93.27	174.15	47.70	4.55	19.31	2.40	9.46	44.15 CMS
Max	50.80	63.90	60.40	49.60	64.60	159.40	282.20	84.80	11.00	50.80	6.20	21.10	282.20 CMS
Min	5.60	14.80	21.40	24.00	13.60	45.40	101.00	1.00	0.00	0.00	0.00	1.80	0.00 CMS
Runoff	62.99	118.16	90.70	105.35	88.18	241.76	466.45	123.63	12.18	51.72	5.82	25.33	1392.26 MCM
Momentary Peak	283.30 CMS. at 19.03 m. (MSL) at 06.00 Hours , on Oct 7 , 2009												
Runoff Yield	12.13 Liters/Second/Square KM.			Momentary Peak Yield				77.808 Liters/Second/Square KM.					

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan (Ct.4)

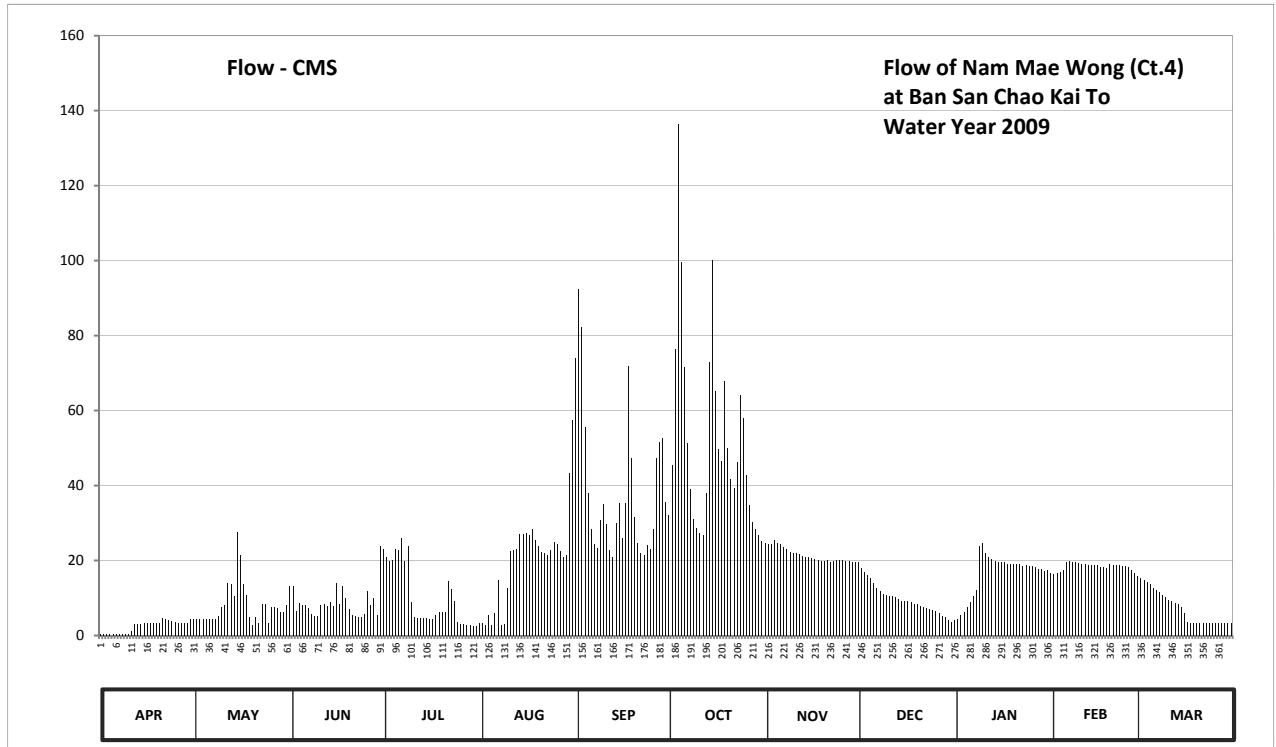
Lat 15 - 46 - 58 N Long 99 - 40 - 57 E

Location : on left bank at Ban San Chao Kai To.

	Ban	San Chao Kai To	Amphoe	Lat Yao	Changwat	Nakhon Sawan
Drainage Area	1,386	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+65.880	m. (M.S.L.)				
Bench Mark	B.M.-Highways Dept.					
Location BM	On left bank at the bridge				Elevation	+72.250 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.99	66.73	67.70	68.32	66.55	69.70	68.68	68.39	68.15	66.67	67.97	67.92	
2	66.00	66.72	67.69	68.22	66.56	70.03	69.07	68.38	68.05	66.72	67.95	67.88	
3	66.00	66.72	67.02	68.16	66.48	69.85	69.74	68.38	67.98	66.86	67.96	67.83	
4	65.99	66.71	67.27	68.17	66.88	69.32	70.77	68.43	67.93	66.98	67.99	67.79	
5	65.99	66.71	67.21	68.32	66.48	68.86	70.16	68.39	67.88	67.13	68.02	67.74	
6	65.98	66.71	67.19	68.31	66.94	68.54	69.65	68.38	67.77	67.30	68.14	67.66	
7	65.98	66.72	67.10	68.45	67.84	68.38	69.22	68.34	67.66	67.47	68.16	67.61	
8	65.98	66.72	66.91	68.16	66.47	68.33	68.89	68.32	67.58	67.61	68.14	67.57	
9	65.98	66.85	66.83	68.36	66.51	68.63	68.64	68.28	67.52	68.36	68.14	67.50	
10	65.97	67.14	66.83	67.30	67.66	68.77	68.55	68.27	67.50	68.40	68.13	67.43	
11	66.16	67.21	67.21	66.80	68.29	68.60	68.50	68.27	67.48	68.27	68.12	67.36	
12	66.52	67.77	67.22	66.78	68.31	68.31	68.48	68.26	67.48	68.21	68.11	67.31	
13	66.52	67.74	67.18	66.78	68.32	68.22	68.86	68.23	67.45	68.19	68.10	67.26	
14	66.53	67.47	67.28	66.75	68.49	68.61	69.68	68.22	67.38	68.16	68.10	67.22	
15	66.55	68.51	67.17	66.76	68.49	68.78	70.17	68.21	67.33	68.15	68.10	67.14	
16	66.56	68.25	67.77	66.73	68.50	68.45	69.53	68.20	67.33	68.15	68.10	66.95	
17	66.55	67.74	67.23	66.73	68.48	68.78	69.18	68.19	67.31	68.14	68.07	66.60	
18	66.54	67.50	67.69	66.86	68.54	69.66	69.10	68.18	67.28	68.12	68.06	66.55	
19	66.54	66.79	67.41	67.00	68.43	69.12	69.58	68.16	67.24	68.12	68.05	66.55	
20	66.55	66.44	67.09	67.00	68.36	68.66	69.19	68.16	67.23	68.11	68.11	66.54	
21	66.75	66.81	66.88	66.98	68.28	68.39	68.97	68.17	67.18	68.11	68.10	66.54	
22	66.72	66.59	66.85	67.81	68.27	68.27	68.90	68.15	67.15	68.11	68.10	66.54	
23	66.68	67.23	66.79	67.63	68.25	68.25	69.09	68.16	67.12	68.09	68.10	66.54	
24	66.64	67.22	66.80	67.32	68.31	68.37	69.51	68.17	67.07	68.10	68.09	66.54	
25	66.60	66.57	66.92	66.60	68.41	68.32	69.37	68.17	67.05	68.09	68.09	66.54	
26	66.58	67.15	67.60	66.53	68.38	68.54	69.00	68.18	67.02	68.08	68.07	66.54	
27	66.57	67.14	67.19	66.50	68.29	69.12	68.76	68.16	66.95	68.06	68.02	66.54	
28	66.58	67.12	67.41	66.45	68.21	69.23	68.62	68.16	66.85	68.03	67.97	66.54	
29	66.58	66.99	66.88	66.44	68.25	69.25	68.54	68.15	66.79	68.03		66.54	
30	66.73	67.00	68.36	66.43	69.01	68.79	68.48	68.15	66.68	68.00		66.54	
31		67.21		66.41	69.36		68.42		66.63	68.01		66.54	
Mean	66.38	67.10	67.22	67.26	67.92	68.80	69.14	68.24	67.36	67.87	68.07	67.04	
Max	66.75	68.51	68.36	68.45	69.36	70.03	70.77	68.43	68.15	68.40	68.16	67.92	70.77
Min	65.97	66.44	66.79	66.41	66.47	68.22	68.42	68.15	66.63	66.67	67.95	66.54	65.97
Annual Max Momentary Gage Height		70.81		m. (MSL) ,			at 15.00 Hours , on Oct 4 , 2009						
Zero Gage at Bottom Elevation		65.88		m. (MSL) ,		River Bed	65.59		m. (MSL)				
Left Bank Elevation		72.18		m. (MSL) ,									
Right Bank Elevation		71.96		m. (MSL) ,		Drainage Area	1386		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	4.41	13.20	23.04	3.25	74.10	32.20	24.58	19.70	3.99	16.72	15.92	
2	0.50	4.34	13.08	21.00	3.30	92.28	45.46	24.36	18.00	4.34	16.40	15.36	
3	0.50	4.34	6.48	19.88	2.90	82.20	76.22	24.36	16.88	5.32	16.56	14.76	
4	0.45	4.27	8.73	20.06	5.46	55.60	136.48	25.55	16.08	6.16	17.04	14.28	
5	0.45	4.27	8.19	23.04	2.90	38.04	99.56	24.58	15.36	7.47	17.52	13.68	
6	0.40	4.27	8.01	22.82	5.88	28.30	71.45	24.36	14.04	9.00	19.52	12.72	
7	0.40	4.34	7.20	26.05	14.88	24.36	51.26	23.48	12.72	10.53	19.88	12.12	
8	0.40	4.34	5.67	19.88	2.85	23.26	39.06	23.04	11.76	12.12	19.52	11.64	
9	0.40	5.25	5.11	23.92	3.05	30.70	31.00	22.20	11.04	23.92	19.52	10.80	
10	0.35	7.56	5.11	9.00	12.72	35.04	28.55	22.00	10.80	24.80	19.34	10.17	
11	1.30	8.19	8.19	4.90	22.40	29.80	27.30	22.00	10.62	22.00	19.16	9.54	
12	3.10	14.04	8.28	4.76	22.82	22.82	26.80	21.80	10.62	20.80	18.98	9.09	
13	3.10	13.68	7.92	4.76	23.04	21.00	38.04	21.20	10.35	20.42	18.80	8.64	
14	3.15	10.53	8.82	4.55	27.05	30.10	73.04	21.00	9.72	19.88	18.80	8.28	
15	3.25	27.55	7.83	4.62	27.05	35.36	100.12	20.80	9.27	19.70	18.80	7.56	
16	3.30	21.60	14.04	4.41	27.30	26.05	65.23	20.60	9.27	19.70	18.80	5.95	
17	3.25	13.68	8.37	4.41	26.80	35.36	49.64	20.42	9.09	19.52	18.32	3.50	
18	3.20	10.80	13.08	5.32	28.30	71.98	46.60	20.24	8.82	19.16	18.16	3.25	
19	3.20	4.83	9.99	6.30	25.55	47.36	67.78	19.88	8.46	19.16	18.00	3.25	
20	3.25	2.70	7.11	6.30	23.92	31.60	50.02	19.88	8.37	18.98	18.98	3.20	
21	4.55	4.97	5.46	6.16	22.20	24.58	41.78	20.06	7.92	18.98	18.80	3.20	
22	4.34	3.45	5.25	14.52	22.00	22.00	39.40	19.70	7.65	18.98	18.80	3.20	
23	4.06	8.37	4.83	12.36	21.60	21.60	46.22	19.88	7.38	18.64	18.80	3.20	
24	3.78	8.28	4.90	9.18	22.82	24.14	64.21	20.06	6.93	18.80	18.64	3.20	
25	3.50	3.35	5.74	3.50	25.05	23.04	57.85	20.06	6.75	18.64	18.64	3.20	
26	3.40	7.65	12.00	3.15	24.36	28.30	42.80	20.24	6.48	18.48	18.32	3.20	
27	3.35	7.56	8.01	3.00	22.40	47.36	34.72	19.88	5.95	18.16	17.52	3.20	
28	3.40	7.38	9.99	2.75	20.80	51.69	30.40	19.88	5.25	17.68	16.72	3.20	
29	3.40	6.23	5.46	2.70	21.60	52.55	28.30	19.70	4.83	17.68		3.20	
30	4.41	6.30	23.92	2.65	43.18	35.68	26.80	19.70	4.06	17.20		3.20	
31		8.19		2.55	57.40		25.30		3.71	17.36		3.20	
Total	72.59	246.72	259.97	321.54	614.83	1166.25	1593.59	645.49	307.88	507.57	515.06	228.91	6480.40 CMSDAY
Mean	2.42	7.96	8.67	10.37	19.83	38.88	51.41	21.52	9.93	16.37	18.40	7.38	17.75 CMS
Max	4.55	27.55	23.92	26.05	57.40	92.28	136.48	25.55	19.70	24.80	19.88	15.92	136.48 CMS
Min	0.35	2.70	4.83	2.55	2.85	21.00	25.30	19.70	3.71	3.99	16.40	3.20	0.35 CMS
Runoff	6.27	21.32	22.46	27.78	53.12	100.76	137.69	55.77	26.60	43.85	44.50	19.78	559.91 MCM
Momentary Peak	139.04 CMS. at 70.81 m. (MSL) at 15.00 Hours , on Oct 4 , 2009												
Runoff Yield	12.81 Liters/Second/Square KM.			Momentary Peak Yield			100.317 Liters/Second/Square KM.						

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct.5A)

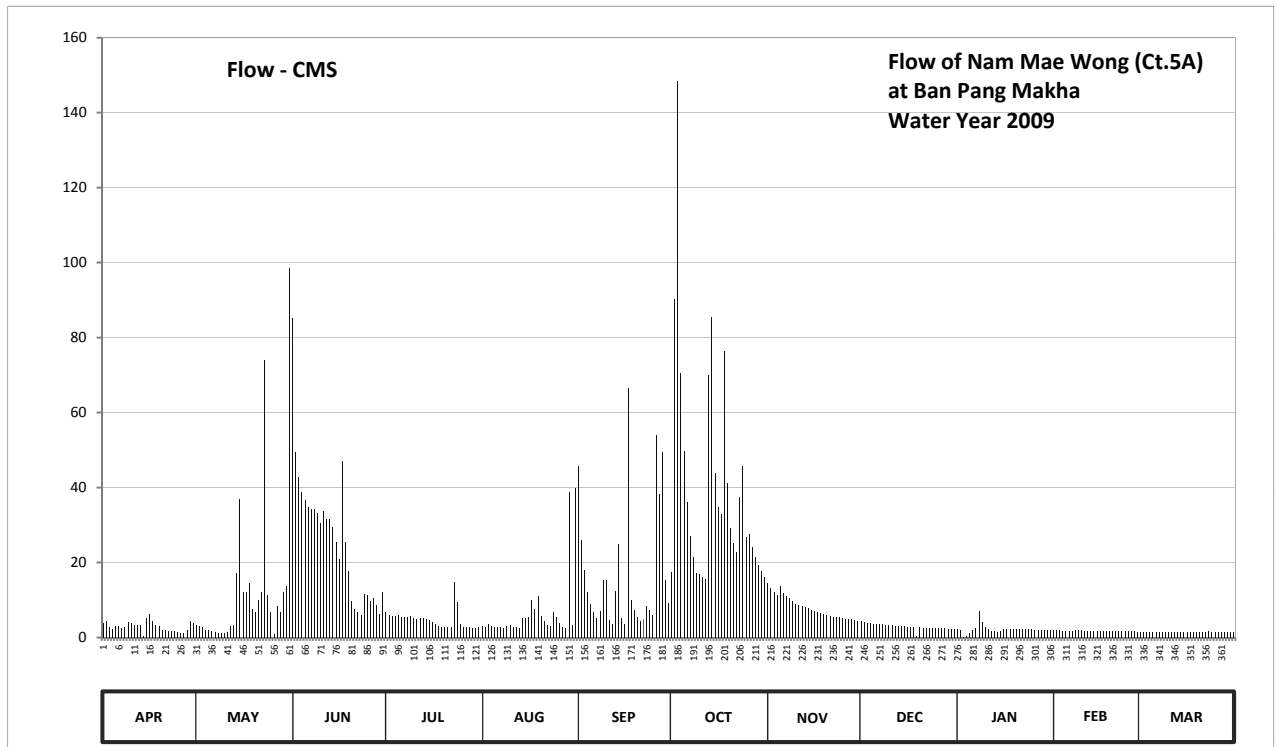
Lat 15 - 55 - 33 N Long 99 - 30 - 22 E

Location : on left bank behind Wat Pang Makha.

	Ban	Pang Makha	Amphoe	Khanu Woraklaksaburi	Changwat	Kamphaeng Phet
Drainage Area	977	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+102.480 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	In front of the station office				Elevation	+108.090 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	1969 to date					
Rating Operation						
Period of Rating	1969 to date					
Rated by Flot	-					
Rated by Current Meter	1969 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir above gage site estimated by recession equation. Stage-discharge relation defined by 18 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.85	103.84	104.62	103.19	102.98	104.07	103.52	103.45	103.07	102.89	103.37	103.31	
2	103.87	103.83	104.13	103.15	102.95	103.71	104.68	103.42	103.05	102.88	103.37	103.31	
3	103.82	103.82	104.02	103.14	103.03	103.54	105.26	103.39	103.04	102.91	103.37	103.31	
4	103.81	103.80	103.95	103.14	102.98	103.39	104.43	103.36	103.04	103.08	103.36	103.30	
5	103.83	103.80	103.91	103.15	102.96	103.28	104.13	103.43	103.03	103.25	103.36	103.30	
6	103.83	103.78	103.88	103.12	102.96	103.19	103.90	103.38	103.03	103.38	103.36	103.30	
7	103.81	103.77	103.87	103.13	102.95	103.11	103.73	103.35	103.02	103.47	103.36	103.30	
8	103.82	103.76	103.87	103.12	102.94	103.20	103.62	103.33	103.02	103.93	103.38	103.29	
9	103.86	103.76	103.85	103.14	102.98	103.47	103.52	103.30	103.01	103.70	103.37	103.29	
10	103.85	103.76	103.80	103.11	103.00	103.47	103.51	103.28	103.01	103.51	103.37	103.29	
11	103.84	103.77	103.86	103.09	102.97	103.09	103.49	103.27	103.01	103.43	103.36	103.29	
12	103.84	103.83	103.82	103.11	102.94	103.03	103.48	103.26	103.00	103.36	103.36	103.28	
13	103.84	103.84	103.82	103.11	102.92	103.40	104.42	103.24	102.99	103.34	103.36	103.28	
14	103.84	104.08	103.78	103.09	103.11	103.69	104.62	103.24	102.99	103.32	103.35	103.28	
15	103.89	104.22	103.70	103.08	103.11	103.11	104.04	103.21	102.99	103.37	103.35	103.28	
16	103.92	104.02	103.61	103.05	103.13	103.03	103.88	103.20	102.97	103.46	103.35	103.28	
17	103.87	104.02	104.09	103.03	103.31	104.38	103.85	103.19	102.96	103.45	103.34	103.28	
18	103.84	104.05	103.70	103.00	103.23	103.32	104.51	103.17	102.95	103.45	103.34	103.28	
19	103.83	103.94	103.53	102.97	103.35	103.21	103.99	103.20	102.95	103.44	103.33	103.28	
20	103.80	103.93	103.31	102.96	103.14	103.13	103.77	103.15	102.95	103.44	103.34	103.28	
21	103.80	103.99	103.22	102.96	103.07	103.07	103.69	103.14	102.94	103.44	103.33	103.28	
22	103.79	104.02	103.19	102.96	103.01	103.09	103.65	103.13	102.94	103.44	103.33	103.30	
23	103.79	104.48	103.15	103.46	102.99	103.25	103.93	103.12	102.94	103.43	103.32	103.32	
24	103.78	104.01	103.37	103.30	103.19	103.21	104.07	103.12	102.94	103.43	103.32	103.31	
25	103.77	103.93	103.36	103.03	103.12	103.15	103.72	103.11	102.94	103.42	103.32	103.30	
26	103.76	103.95	103.31	102.97	103.04	104.20	103.74	103.10	102.93	103.40	103.32	103.29	
27	103.76	103.96	103.33	102.96	102.96	103.94	103.67	103.10	102.93	103.39	103.32	103.29	
28	103.80	103.92	103.26	102.95	102.93	104.13	103.62	103.09	102.92	103.37	103.31	103.29	
29	103.87	104.02	103.16	102.94	103.95	103.47	103.57	102.97	102.91	103.37		103.28	
30	103.85	104.04	103.39	102.93	103.01	103.28	103.53	103.07	102.90	103.37		103.28	
31		104.77		102.95	103.97		103.49		102.90	103.37		103.29	
Mean	103.83	103.96	103.66	103.07	103.10	103.42	103.90	103.23	102.98	103.37	103.35	103.29	
Max	103.92	104.77	104.62	103.46	103.97	104.38	105.26	103.45	103.07	103.93	103.38	103.32	105.26
Min	103.76	103.76	103.15	102.93	102.92	103.03	103.48	102.97	102.90	102.88	103.31	103.28	102.88
Annual Max Momentary Gage Height	105.39		m. (MSL) ,				at 06.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	102.48		m. (MSL) ,			River Bed	102.61		m. (MSL)				
Left Bank Elevation		107.69		m. (MSL) ,									
Right Bank Elevation		108.01		m. (MSL) ,		Drainage Area	977		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.90	3.40	85.20	6.90	3.00	45.70	17.40	14.50	4.40	2.20	1.85	1.55		
2	4.50	3.00	49.45	6.00	2.70	26.00	90.30	13.30	4.10	2.10	1.85	1.55		
3	2.70	2.80	42.70	5.70	3.60	18.10	148.40	12.20	3.90	0.20	1.85	1.55		
4	2.40	2.00	38.75	5.80	3.00	12.20	70.40	11.30	3.90	0.52	1.80	1.50		
5	3.00	1.90	36.55	6.00	2.80	9.00	49.70	13.70	3.70	1.26	1.80	1.50		
6	3.00	1.60	34.90	5.40	2.80	6.80	36.20	11.90	3.70	1.91	1.80	1.50		
7	2.50	1.40	34.35	5.60	2.70	5.30	27.10	11.00	3.50	2.44	1.80	1.50		
8	2.70	1.20	34.35	5.40	2.60	7.00	21.40	10.40	3.50	7.01	1.90	1.45		
9	4.10	1.20	33.25	5.70	3.00	15.30	17.30	9.60	3.30	4.04	1.85	1.45		
10	3.80	1.20	30.50	5.30	3.20	15.30	16.90	9.00	3.30	2.68	1.85	1.45		
11	3.40	1.40	33.80	4.80	2.80	4.70	16.00	8.80	3.30	2.17	1.80	1.45		
12	3.40	3.00	31.60	5.20	2.70	3.60	15.70	8.40	3.10	1.79	1.80	1.40		
13	3.40	3.30	31.60	5.10	2.50	12.50	70.10	8.00	3.00	1.70	1.80	1.40		
14	0.30	17.14	29.50	4.80	5.10	25.00	85.50	7.90	3.00	1.58	1.75	1.40		
15	5.30	37.00	25.50	4.60	5.20	5.20	43.70	7.30	3.00	1.84	1.75	1.40		
16	6.30	12.16	21.00	4.10	5.50	3.70	34.70	7.00	2.90	2.36	1.75	1.40		
17	4.40	12.16	46.90	3.60	9.90	66.60	33.00	6.70	2.80	2.30	1.70	1.40		
18	3.40	14.65	25.50	3.10	7.70	10.10	76.50	6.40	2.70	2.30	1.70	1.40		
19	3.00	7.60	17.70	2.90	11.00	7.30	41.10	6.20	0.27	2.24	1.65	1.40		
20	2.00	6.80	9.70	2.80	5.80	5.60	29.10	6.00	2.70	2.24	1.70	1.40		
21	2.00	10.00	7.60	2.80	4.40	4.40	25.20	5.80	2.60	2.24	1.65	1.40		
22	1.80	12.16	6.80	2.80	3.30	4.80	22.90	5.60	2.60	2.24	1.65	1.50		
23	1.80	74.00	6.10	14.80	3.10	8.30	37.40	5.40	2.60	2.18	1.60	1.60		
24	1.60	11.33	11.60	9.50	6.80	7.30	45.80	5.40	2.60	2.18	1.60	1.55		
25	1.40	6.80	11.30	3.60	5.40	6.00	26.70	5.20	2.60	2.14	1.60	1.50		
26	1.20	0.80	9.80	2.90	3.90	54.00	27.60	5.00	2.50	2.00	1.60	1.45		
27	1.20	8.50	10.40	2.80	2.80	38.20	24.20	5.00	2.50	1.93	1.60	1.45		
28	2.00	6.70	8.60	2.70	2.50	49.45	21.40	4.80	2.50	1.85	1.55	1.45		
29	4.40	12.16	6.20	2.60	38.90	15.30	19.30	4.60	2.40	1.85		1.40		
30	3.80	13.82	12.20	2.50	3.40	9.10	17.60	4.40	2.30	1.85		1.40		
31		98.50		2.70	39.90		16.20		2.30	1.85		1.44		
Total	88.70	389.68	783.40	148.50	202.00	501.85	1224.80	240.80	91.57	67.19	48.60	45.19	3832.28 CMSDAY	
Mean	2.96	12.57	26.11	4.79	6.52	16.73	39.51	8.03	2.95	2.17	1.74	1.46	10.50 CMS	
Max	6.30	98.50	85.20	14.80	39.90	66.60	148.40	14.50	4.40	7.01	1.90	1.60	148.40 CMS	
Min	0.30	0.80	6.10	2.50	2.50	3.60	15.70	4.40	0.27	0.20	1.55	1.40	0.20 CMS	
Runoff	7.66	33.67	67.69	12.83	17.45	43.36	105.82	20.81	7.91	5.81	4.20	3.90	331.11 MCM	
Momentary Peak	163.80 CMS. at 105.39 m. (MSL.) at 06.00 Hours , on Oct 3 , 2009													
Runoff Yield	10.75 Liters/Second/Square KM.			Momentary Peak Yield			167.656 Liters/Second/Square KM.							

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban Khao Chon Kan, Nakhon Sawan (Ct.5B)

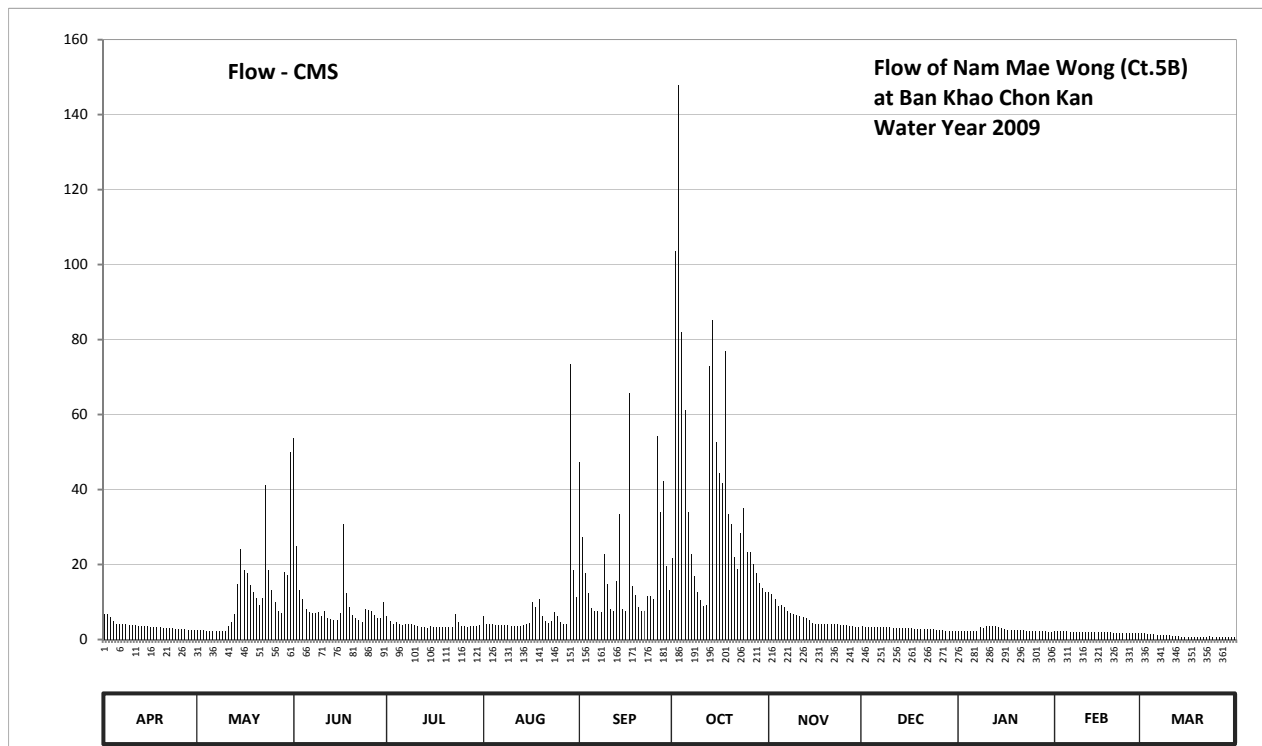
Lat 15 - 54 - 10 N Long 99 - 27 - 43 E

Location : on right bank 8 kilometers upstream from Ct.5A

	Ban	Khao Chon Kan	Amphoe	Lat Yao	Changwat	Nakhon Sawan
Drainage Area	930	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+103.410 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+116.583 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1988 to date					
Rated by Flot	-					
Rated by Current Meter	1988 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir during Mar.14-31,99 discharge estimated by recession equation. Stage-discharge relation defined by 20 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	108.65	108.25	109.76	108.61	108.61	109.64	109.13	108.87	108.40	108.24	108.21	108.14	
2	108.65	108.25	109.21	108.54	108.49	109.27	110.47	108.85	108.39	108.23	108.21	108.13	
3	108.60	108.25	108.89	108.50	108.48	109.03	111.02	108.80	108.38	108.23	108.21	108.12	
4	108.54	108.24	108.80	108.52	108.47	108.86	110.20	108.74	108.38	108.23	108.21	108.11	
5	108.50	108.24	108.71	108.47	108.46	108.72	109.88	108.75	108.37	108.22	108.21	108.10	
6	108.49	108.24	108.67	108.46	108.46	108.69	109.40	108.73	108.37	108.22	108.20	108.09	
7	108.48	108.23	108.66	108.50	108.45	108.68	109.16	108.69	108.36	108.21	108.20	108.08	
8	108.47	108.23	108.66	108.50	108.45	108.67	109.01	108.66	108.36	108.36	108.20	108.07	
9	108.46	108.23	108.67	108.47	108.44	109.16	108.87	108.65	108.36	108.32	108.20	108.06	
10	108.45	108.23	108.62	108.44	108.43	108.94	108.79	108.63	108.36	108.43	108.20	108.05	
11	108.44	108.41	108.68	108.41	108.42	108.71	108.74	108.61	108.35	108.42	108.19	108.04	
12	108.43	108.52	108.59	108.38	108.43	108.68	108.75	108.60	108.35	108.41	108.19	108.03	
13	108.42	108.64	108.57	108.36	108.43	108.97	110.06	108.58	108.34	108.40	108.19	108.02	
14	108.41	108.94	108.56	108.35	108.46	109.39	110.24	108.55	108.34	108.37	108.19	108.01	
15	108.40	109.19	108.55	108.40	108.49	108.71	109.74	108.51	108.33	108.35	108.17	108.01	
16	108.39	109.05	108.66	108.38	108.51	108.68	109.59	108.50	108.32	108.31	108.17	108.00	
17	108.38	109.03	109.34	108.37	108.78	109.95	109.54	108.50	108.32	108.26	108.17	108.00	
18	108.37	108.93	108.86	108.36	108.73	108.92	110.12	108.49	108.31	108.26	108.17	108.00	
19	108.36	108.87	108.73	108.36	108.80	108.84	109.39	108.48	108.31	108.26	108.17	108.00	
20	108.35	108.81	108.63	108.38	108.62	108.73	109.34	108.48	108.30	108.25	108.16	108.00	
21	108.34	108.75	108.59	108.38	108.54	108.69	109.14	108.47	108.29	108.25	108.16	107.99	
22	108.33	108.81	108.56	108.39	108.51	108.69	109.06	108.47	108.29	108.25	108.16	107.99	
23	108.32	109.53	108.53	108.64	108.54	108.83	109.30	108.47	108.28	108.24	108.16	108.02	
24	108.31	109.05	108.71	108.53	108.67	108.83	109.42	108.46	108.28	108.24	108.16	108.01	
25	108.30	108.89	108.70	108.43	108.62	108.80	109.17	108.45	108.27	108.23	108.15	108.00	
26	108.29	108.78	108.68	108.40	108.53	109.77	109.17	108.44	108.26	108.23	108.15	108.00	
27	108.28	108.69	108.63	108.39	108.47	109.40	109.09	108.43	108.25	108.21	108.15	108.00	
28	108.27	108.66	108.59	108.40	108.47	109.55	109.03	108.41	108.24	108.21	108.15	108.00	
29	108.27	109.04	108.58	108.40	110.07	109.08	108.95	108.39	108.24	108.21		107.99	
30	108.26	109.02	108.78	108.40	109.05	108.89	108.90	108.38	108.23	108.20		107.99	
31		109.69		108.44	108.82		108.87		108.22	108.20		107.99	
Mean	108.41	108.70	108.74	108.44	108.60	108.99	109.40	108.57	108.32	108.27	108.18	108.03	
Max	108.65	109.69	109.76	108.64	110.07	109.95	111.02	108.87	108.40	108.43	108.21	108.14	111.02
Min	108.26	108.23	108.53	108.35	108.42	108.67	108.74	108.38	108.22	108.20	108.15	107.99	107.99
Annual Max Momentary Gage Height	111.23		m. (MSL.) ,				at 18.00 Hours , on Oct 2 , 2009						
Zero Gage at Bottom Elevation	103.41		m. (MSL.) ,			River Bed	107.89		m. (MSL)				
Left Bank Elevation	116.86		m. (MSL.) ,										
Right Bank Elevation	116.58		m. (MSL.) ,			Drainage Area	930		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.90	2.45	53.80	6.18	6.18	47.20	21.70	12.73	3.50	2.38	2.17	1.68	
2	6.90	2.45	24.90	4.92	4.13	27.30	103.60	12.15	3.43	2.31	2.17	1.61	
3	6.00	2.45	13.31	4.20	4.06	17.70	147.90	10.70	3.36	2.31	2.17	1.54	
4	4.92	2.38	10.70	4.56	3.99	12.44	82.00	8.96	3.36	2.31	2.17	1.47	
5	4.20	2.38	8.09	3.99	3.92	8.38	61.20	9.25	3.29	2.24	2.17	1.40	
6	4.13	2.38	7.26	3.92	3.92	7.62	34.00	8.67	3.29	2.24	2.10	1.33	
7	4.06	2.31	7.08	4.20	3.85	7.44	22.90	7.62	3.22	2.17	2.10	1.26	
8	3.99	2.31	7.08	4.20	3.85	7.26	16.90	7.08	3.22	3.22	2.10	1.19	
9	3.92	2.31	7.26	3.99	3.78	22.90	12.73	6.90	3.22	2.94	2.10	1.12	
10	3.85	2.31	6.36	3.78	3.71	14.76	10.41	6.54	3.22	3.71	2.10	1.05	
11	3.78	3.57	7.44	3.57	3.64	8.09	8.96	6.18	3.15	3.64	2.03	0.98	
12	3.71	4.56	5.82	3.36	3.71	7.44	9.25	6.00	3.15	3.57	2.03	0.91	
13	3.64	6.72	5.46	3.22	3.71	15.63	72.90	5.64	3.08	3.50	2.03	0.84	
14	3.57	14.76	5.28	3.15	3.92	33.45	85.20	5.10	3.08	3.29	2.03	0.77	
15	3.50	24.10	5.10	3.50	4.13	8.09	52.70	4.38	3.01	3.15	1.89	0.77	
16	3.43	18.50	7.08	3.36	4.38	7.44	44.45	4.20	2.94	2.87	1.89	0.70	
17	3.36	17.70	30.70	3.29	10.12	65.75	41.70	4.20	2.94	2.52	1.89	0.70	
18	3.29	14.47	12.44	3.22	8.67	14.18	76.80	4.13	2.87	2.52	1.89	0.70	
19	3.22	12.73	8.67	3.22	10.70	11.86	33.45	4.06	2.87	2.52	1.89	0.70	
20	3.15	10.99	6.54	3.36	6.36	8.67	30.70	4.06	2.80	2.45	1.82	0.70	
21	3.08	9.25	5.82	3.36	4.92	7.62	22.10	3.99	2.73	2.45	1.82	0.63	
22	3.01	10.99	5.28	3.43	4.38	7.62	18.90	3.99	2.73	2.45	1.82	0.63	
23	2.94	41.15	4.74	6.72	4.92	11.57	28.50	3.99	2.66	2.38	1.82	0.84	
24	2.87	18.50	8.09	4.74	7.26	11.57	35.10	3.92	2.66	2.38	1.82	0.77	
25	2.80	13.31	7.80	3.71	6.36	10.70	23.30	3.85	2.59	2.31	1.75	0.70	
26	2.73	10.12	7.44	3.50	4.74	54.35	23.30	3.78	2.52	2.31	1.75	0.70	
27	2.66	7.62	6.54	3.43	3.99	34.00	20.10	3.71	2.45	2.17	1.75	0.70	
28	2.59	7.08	5.82	3.50	3.99	42.25	17.70	3.57	2.38	2.17	1.75	0.70	
29	2.59	18.10	5.64	3.50	73.55	19.70	15.05	3.43	2.38	2.17		0.63	
30	2.52	17.30	10.12	3.50	18.50	13.31	13.60	3.36	2.31	2.10		0.63	
31		49.95		3.78	11.28		12.73		2.24	2.10		0.63	
Total	111.31	355.20	307.66	120.36	244.62	566.29	1199.83	176.14	90.65	80.85	55.02	28.98	3336.91 CMSDAY
Mean	3.71	11.46	10.26	3.88	7.89	18.88	38.70	5.87	2.92	2.61	1.97	0.93	9.14 CMS
Max	6.90	49.95	53.80	6.72	73.55	65.75	147.90	12.73	3.50	3.71	2.17	1.68	147.90 CMS
Min	2.52	2.31	4.74	3.15	3.64	7.26	8.96	3.36	2.24	2.10	1.75	0.63	0.63 CMS
Runoff	9.62	30.69	26.58	10.40	21.14	48.93	103.67	15.22	7.83	6.99	4.75	2.50	288.31 MCM
Momentary Peak	167.85 CMS. at 111.23 m. (MSL.) at 18.00 Hours , on Oct 2 , 2009												
Runoff Yield	9.83 Liters/Second/Square KM.			Momentary Peak Yield			180.484 Liters/Second/Square KM.						

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Khlung Pho at Ban Mai Khlung Charoen, Nakhon Sawan (Ct.7)

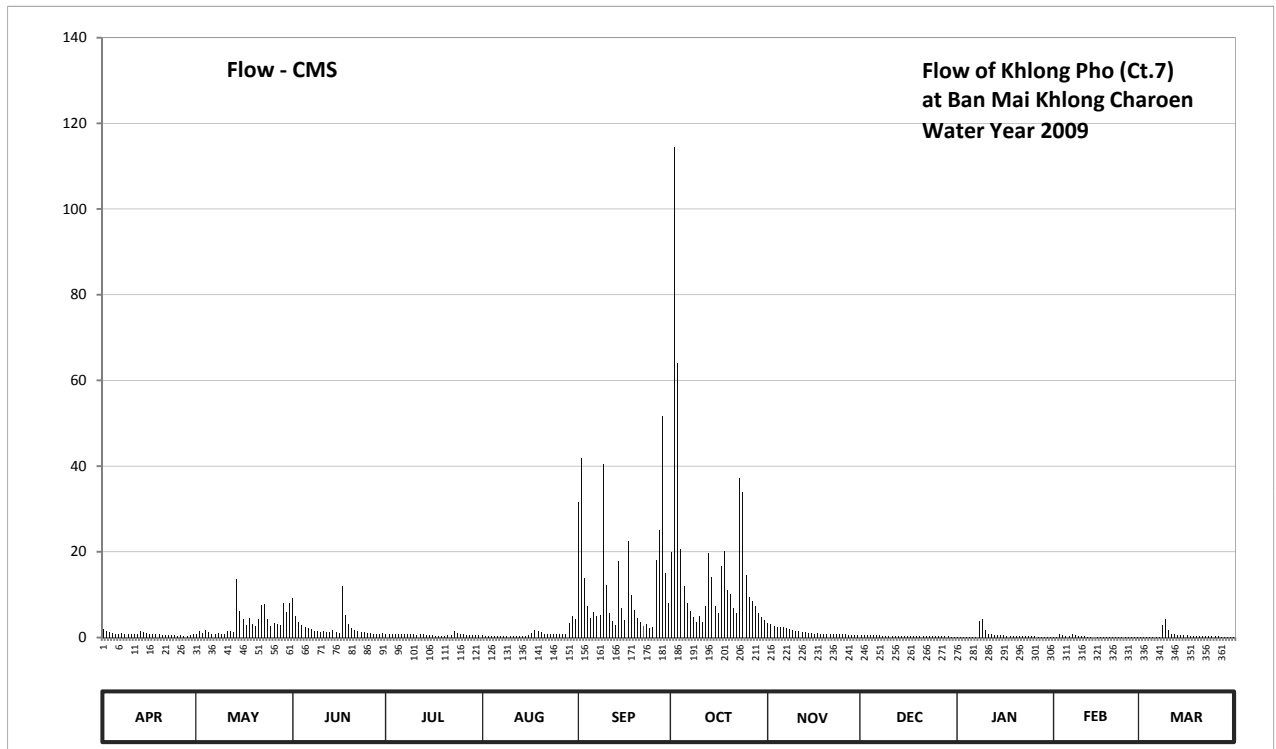
Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

Location : on right bank at Ban Mai Khlung Charoen.

	Ban	Mai Khlung Charoen	Amphoe	Mae Poen	Changwat	Nakhon Sawan
Drainage Area	453	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+100.070 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	Near the sling pole				Elevation	+107.519 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	1975 - 1978, 2008 to date					
Rating Operation						
Period of Rating	1975 - 1978, 2008 to date					
Rated by Flot	-					
Rated by Current Meter	1975 - 1978, 2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Record very good. Stage-discharge relation defined by 20 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.89	101.77	102.35	101.77	101.70	103.05	102.78	102.01	101.72	101.64	101.62	101.64	
2	101.85	101.85	102.12	101.75	101.69	103.21	103.87	101.99	101.72	101.64	101.62	101.64	
3	101.82	101.79	102.03	101.75	101.69	102.56	103.46	101.95	101.71	101.64	101.77	101.64	
4	101.79	101.87	101.98	101.78	101.69	102.25	102.80	101.94	101.71	101.63	101.71	101.63	
5	101.77	101.83	101.94	101.77	101.68	102.08	102.48	101.94	101.71	101.63	101.67	101.63	
6	101.76	101.77	101.91	101.74	101.68	102.17	102.29	101.93	101.70	101.63	101.65	101.63	
7	101.80	101.76	101.89	101.74	101.68	102.11	102.19	101.91	101.70	101.63	101.74	101.63	
8	101.78	101.81	101.86	101.75	101.68	102.13	102.10	101.89	101.69	102.04	101.72	101.98	
9	101.76	101.77	101.84	101.74	101.68	103.19	102.03	101.88	101.69	102.07	101.69	102.07	
10	101.75	101.74	101.83	101.74	101.68	102.49	102.12	101.86	101.68	101.87	101.67	101.87	
11	101.74	101.84	101.84	101.73	101.68	102.16	102.02	101.84	101.68	101.76	101.65	101.76	
12	101.74	101.86	101.82	101.74	101.68	102.04	102.25	101.83	101.68	101.74	101.64	101.74	
13	101.85	101.82	101.82	101.74	101.67	101.98	102.77	101.82	101.68	101.72	101.64	101.72	
14	101.83	102.55	101.87	101.72	101.68	102.71	102.57	101.80	101.68	101.71	101.59	101.71	
15	101.80	102.18	101.83	101.72	101.69	102.22	102.25	101.79	101.67	101.70	101.62	101.70	
16	101.77	102.07	101.80	101.71	101.72	102.06	102.15	101.78	101.67	101.70	101.61	101.70	
17	101.76	101.98	102.48	101.69	101.79	102.85	102.67	101.79	101.67	101.69	101.64	101.69	
18	101.74	102.09	102.13	101.69	101.87	102.39	102.79	101.78	101.66	101.69	101.64	101.69	
19	101.74	101.99	101.99	101.69	101.85	102.20	102.44	101.78	101.66	101.68	101.64	101.68	
20	101.73	101.95	101.92	101.69	101.82	102.09	102.40	101.77	101.66	101.68	101.64	101.68	
21	101.72	102.07	101.87	101.70	101.78	102.02	102.22	101.76	101.66	101.68	101.63	101.68	
22	101.72	102.26	101.85	101.70	101.75	101.96	102.15	101.75	101.66	101.67	101.63	101.67	
23	101.71	102.28	101.83	101.86	101.75	102.00	103.14	101.74	101.66	101.67	101.63	101.67	
24	101.70	102.07	101.83	101.81	101.75	101.92	103.09	101.74	101.66	101.66	101.62	101.66	
25	101.69	101.96	101.81	101.77	101.76	101.94	102.59	101.74	101.65	101.65	101.62	101.65	
26	101.70	102.01	101.79	101.74	101.78	102.72	102.36	101.74	101.65	101.65	101.62	101.65	
27	101.69	101.99	101.78	101.72	101.75	102.92	102.31	101.73	101.65	101.62	101.62	101.62	
28	101.68	101.98	101.77	101.71	101.74	103.33	102.25	101.73	101.65	101.64	101.62	101.64	
29	101.70	102.29	101.77	101.71	102.01	102.61	102.16	101.72	101.65	101.64		101.64	
30	101.76	102.17	101.80	101.70	102.12	102.29	102.10	101.72	101.64	101.64		101.64	
31		102.29		101.70	102.07		102.05		101.64	101.63		101.63	
Mean	101.76	101.99	101.91	101.73	101.76	102.39	102.48	101.82	101.67	101.70	101.65	101.70	
Max	101.89	102.55	102.48	101.86	102.12	103.33	103.87	102.01	101.72	102.07	101.77	102.07	103.87
Min	101.68	101.74	101.77	101.69	101.67	101.92	102.02	101.72	101.64	101.62	101.59	101.62	101.59
Annual Max Momentary Gage Height	104.04		m. (MSL) ,				at 18.00 Hours , on Oct 2 , 2009						
Zero Gage at Bottom Elevation	100.49		m. (MSL) ,			River Bed	101.47		m. (MSL)				
Left Bank Elevation	105.17		m. (MSL) ,										
Right Bank Elevation	107.83		m. (MSL) ,			Drainage Area	453		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.90	0.85	9.25	0.85	0.50	31.65	19.98	3.36	0.60	0.20	0.10	0.20		
2	1.50	1.50	5.12	0.75	0.45	41.80	114.50	3.08	0.60	0.20	0.10	0.20		
3	1.20	0.95	3.68	0.75	0.45	13.88	63.92	2.60	0.55	0.20	0.85	0.20		
4	0.95	1.70	2.96	0.90	0.45	7.35	20.60	2.48	0.55	0.15	0.55	0.15		
5	0.85	1.30	2.48	0.85	0.40	4.48	12.04	2.48	0.55	0.15	0.35	0.15		
6	0.80	0.85	2.12	0.70	0.40	5.92	8.11	2.36	0.50	0.15	0.25	0.15		
7	1.00	0.80	1.90	0.70	0.40	4.96	6.24	2.12	0.50	0.15	0.70	0.15		
8	0.90	1.10	1.60	0.75	0.40	5.28	4.80	1.90	0.45	3.84	0.60	2.96		
9	0.80	0.85	1.40	0.70	0.40	40.35	3.68	1.80	0.45	4.32	0.45	4.32		
10	0.75	0.70	1.30	0.70	0.40	12.27	5.12	1.60	0.40	1.70	0.35	1.70		
11	0.70	1.40	1.40	0.65	0.40	5.76	3.52	1.40	0.40	0.80	0.25	0.80		
12	0.70	1.60	1.20	0.70	0.40	3.84	7.35	1.30	0.40	0.70	0.20	0.70		
13	1.50	1.20	1.20	0.70	0.35	2.96	19.67	1.20	0.40	0.60	0.20	0.60		
14	1.30	13.65	1.70	0.60	0.40	17.81	14.11	1.00	0.40	0.55	0.00	0.55		
15	1.00	6.08	1.30	0.60	0.45	6.78	7.35	0.95	0.35	0.50	0.10	0.50		
16	0.85	4.32	1.00	0.55	0.60	4.16	5.60	0.90	0.35	0.50	0.05	0.50		
17	0.80	2.96	12.04	0.45	0.95	22.40	16.69	0.95	0.35	0.45	0.20	0.45		
18	0.70	4.64	5.28	0.45	1.70	10.01	20.29	0.90	0.30	0.45	0.20	0.45		
19	0.70	3.08	3.08	0.45	1.50	6.40	11.12	0.90	0.30	0.40	0.20	0.40		
20	0.65	2.60	2.24	0.45	1.20	4.64	10.20	0.85	0.30	0.40	0.20	0.40		
21	0.60	4.32	1.70	0.50	0.90	3.52	6.78	0.80	0.30	0.40	0.15	0.40		
22	0.60	7.54	1.50	0.50	0.75	2.72	5.60	0.75	0.30	0.35	0.15	0.35		
23	0.55	7.92	1.30	1.60	0.75	3.20	37.10	0.70	0.30	0.35	0.15	0.35		
24	0.50	4.32	1.30	1.10	0.75	2.24	33.93	0.70	0.30	0.30	0.10	0.30		
25	0.45	2.72	1.10	0.85	0.80	2.48	14.57	0.70	0.25	0.25	0.10	0.25		
26	0.50	3.36	0.95	0.70	0.90	18.12	9.44	0.70	0.25	0.25	0.10	0.25		
27	0.45	3.08	0.90	0.60	0.75	25.12	8.49	0.65	0.25	0.10	0.10	0.10		
28	0.40	2.96	0.85	0.55	0.70	51.64	7.35	0.65	0.25	0.20	0.10	0.20		
29	0.50	8.11	0.85	0.55	3.36	15.07	5.76	0.60	0.25	0.20		0.20		
30	0.80	5.92	1.00	0.50	5.12	8.11	4.80	0.60	0.20	0.20		0.20		
31		8.11		0.50	4.32		4.00		0.20	0.15		0.15		
Total	24.90	110.49	73.70	21.20	31.30	384.92	512.71	40.98	11.55	19.16	6.85	18.28	1256.04	CMSDAY
Mean	0.83	3.56	2.46	0.68	1.01	12.83	16.54	1.37	0.37	0.62	0.24	0.59	3.44	CMS
Max	1.90	13.65	12.04	1.60	5.12	51.64	114.50	3.36	0.60	4.32	0.85	4.32	114.50	CMS
Min	0.40	0.70	0.85	0.45	0.35	2.24	3.52	0.60	0.20	0.10	0.00	0.10	0.00	CMS
Runoff	2.15	9.55	6.37	1.83	2.70	33.26	44.30	3.54	1.00	1.66	0.59	1.58	108.52	MCM
Momentary Peak	141.40 CMS. at 104.04 m. (MSL.) at 18.00 Hours , on Oct 2 , 2009													
Runoff Yield	7.59 Liters/Second/Square KM.			Momentary Peak Yield			312.072 Liters/Second/Square KM.							

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Huai Tak Daet at Ban Khok Mo, Uthai Thani (Ct.8)

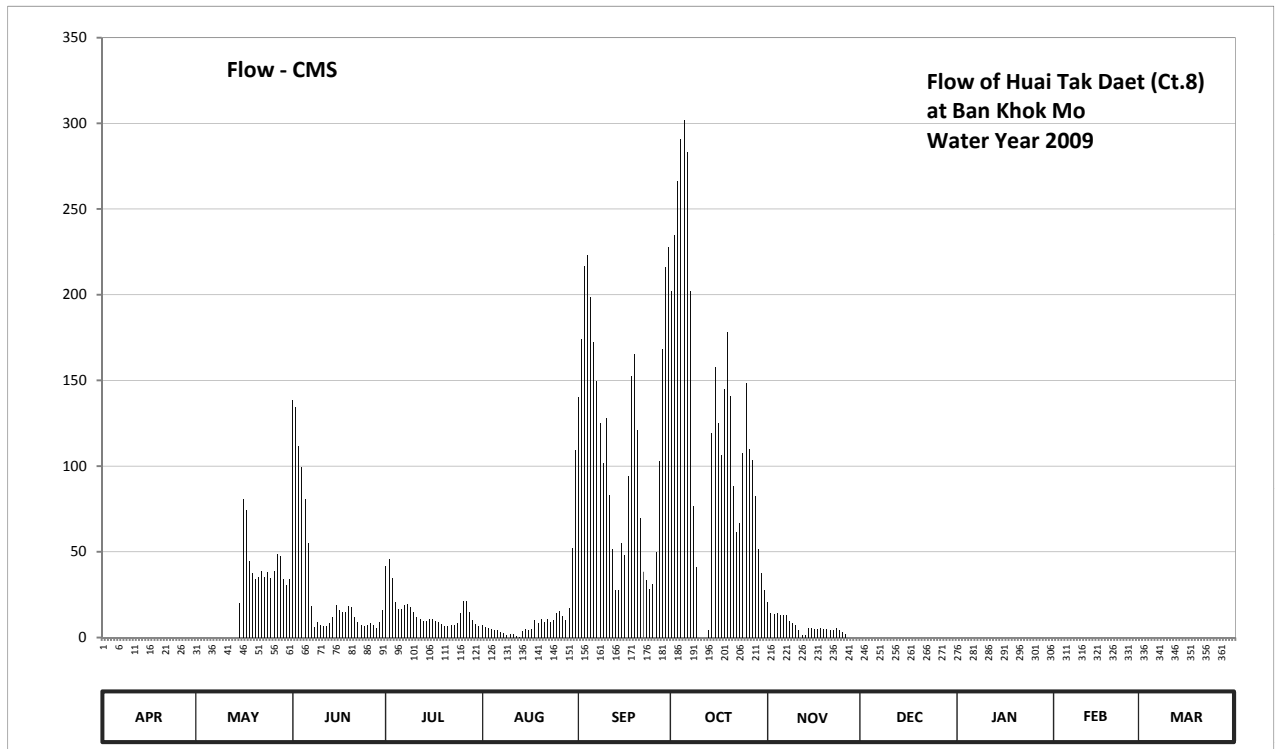
Lat 15 - 29 - 50 N Long 99 - 56 - 28 E

Location : on right bank at Ban Khok Mo.

	Ban	Khok Mo	Amphoe	Thap Than	Changwat	Uthai Thani
Drainage Area	3,206	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+26.230	m. (M.S.L.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the sling pole				Elevation	+34.250 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	1975 - 1978, 2008 to date					
Rating Operation						
Period of Rating	1975 - 1978, 2008 to date					
Rated by Flot	-					
Rated by Current Meter	1975 - 1978, 2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Record good. Stage-discharge relation defined by 19 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.10	27.55	32.27	30.93	30.22	32.29	33.02	30.53	29.86	27.40	26.11	26.11	
2	28.14	27.53	32.22	31.00	30.19	32.70	33.38	30.39	29.77	27.38	26.11	26.11	
3	28.12	27.47	31.93	30.80	30.18	33.18	33.73	30.38	29.71	27.36	26.11	26.11	
4	28.10	27.45	31.78	30.53	30.16	33.25	33.99	30.39	29.65	27.30	26.11	26.11	
5	28.08	27.42	31.54	30.44	30.14	32.98	34.10	30.37	29.55	26.11	26.11	26.11	
6	28.05	27.46	31.15	30.45	30.14	32.68	33.91	30.37	29.46	26.11	26.11	26.11	
7	27.99	27.45	30.48	30.50	30.11	32.41	33.02	30.37	29.39	26.11	26.11	26.11	
8	27.98	27.42	30.19	30.51	30.09	32.10	31.48	30.29	29.31	26.11	26.11	26.11	
9	27.95	27.37	30.27	30.47	30.05	31.81	30.92	30.26	29.27	26.11	26.11	26.11	
10	27.96	27.32	30.23	30.41	30.07	32.14	29.91	30.22	29.16	26.11	26.11	26.13	
11	27.91	27.21	30.21	30.35	30.07	31.57	29.61	30.13	29.14	26.11	26.11	26.11	
12	27.88	27.16	30.20	30.32	30.03	31.09	29.57	30.04	29.06	26.11	26.11	26.11	
13	27.88	27.07	30.25	30.28	30.01	30.67	30.13	30.05	28.98	26.11	26.11	26.11	
14	27.89	29.55	30.34	30.28	30.12	30.67	32.03	30.18	28.94	26.11	26.11	26.11	
15	27.88	30.52	30.50	30.32	30.16	31.15	32.51	30.18	28.83	26.11	26.11	26.11	
16	27.88	31.54	30.43	30.32	30.14	31.04	32.10	30.15	28.76	26.11	26.11	26.11	
17	27.88	31.44	30.41	30.28	30.16	31.71	31.87	30.16	28.71	26.11	26.11	26.11	
18	27.87	30.98	30.41	30.27	30.30	32.44	32.35	30.18	28.64	26.11	26.11	26.11	
19	27.90	30.86	30.49	30.24	30.26	32.60	32.75	30.15	28.56	26.11	26.11	26.11	
20	27.89	30.79	30.47	30.20	30.32	32.05	32.30	30.15	28.49	26.11	26.11	26.11	
21	27.88	30.82	30.35	30.21	30.27	31.37	31.64	30.14	28.43	26.11	26.11	26.11	
22	27.85	30.88	30.27	30.22	30.32	30.87	31.25	30.14	28.36	26.11	26.11	26.11	
23	27.83	30.81	30.23	30.22	30.27	30.78	31.33	30.18	28.27	26.11	26.11	26.11	
24	27.79	30.87	30.21	30.25	30.30	30.69	31.88	30.14	28.25	26.11	26.11	26.11	
25	27.78	30.80	30.22	30.40	30.40	30.74	32.39	30.10	28.19	26.11	26.11	26.11	
26	27.74	30.88	30.26	30.55	30.42	31.07	31.91	30.07	28.19	26.11	26.11	26.11	
27	27.61	31.05	30.22	30.55	30.36	31.82	31.83	29.99	28.07	26.11	26.11	26.11	
28	27.53	31.03	30.18	30.41	30.30	32.63	31.56	29.97	27.90	26.11	26.11	26.11	
29	27.56	30.79	30.27	30.30	30.46	33.17	31.09	29.96	27.73	26.11		26.11	
30	27.58	30.73	30.43	30.24	31.10	33.30	30.86	29.91	27.58	26.11		26.13	
31		30.79		30.21	31.90		30.67		27.43	26.11		26.11	
Mean	27.88	29.39	30.61	30.40	30.29	31.90	31.91	30.18	28.76	26.27	26.11	26.11	
Max	28.14	31.54	32.27	31.00	31.90	33.30	34.10	30.53	29.86	27.40	26.11	26.13	34.10
Min	27.53	27.07	30.18	30.20	30.01	30.67	29.57	29.91	27.43	26.11	26.11	26.11	26.11
Annual Max Momentary Gage Height	34.11		m. (MSL.) ,			at 15.00 Hours , on Oct 5 , 2009							
Zero Gage at Bottom Elevation	26.23		m. (MSL.) ,			River Bed	26.11	m. (MSL)					
Left Bank Elevation	34.28		m. (MSL.) ,										
Right Bank Elevation	34.28		m. (MSL.) ,			Drainage Area	3206	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	138.60	41.65	7.20	140.20	202.30	20.50	0.00	0.00	0.00	0.00	
2	0.00	0.00	134.60	45.50	6.15	174.00	234.70	14.05	0.00	0.00	0.00	0.00	
3	0.00	0.00	111.40	34.50	5.80	216.70	266.20	13.60	0.00	0.00	0.00	0.00	
4	0.00	0.00	99.40	20.50	5.10	223.00	291.00	14.05	0.00	0.00	0.00	0.00	
5	0.00	0.00	80.80	16.30	4.40	198.70	302.00	13.15	0.00	0.00	0.00	0.00	
6	0.00	0.00	55.25	16.75	4.40	172.30	283.00	13.15	0.00	0.00	0.00	0.00	
7	0.00	0.00	18.10	19.00	3.35	149.80	202.30	13.15	0.00	0.00	0.00	0.00	
8	0.00	0.00	6.15	19.50	2.70	125.00	76.70	9.65	0.00	0.00	0.00	0.00	
9	0.00	0.00	8.95	17.65	1.50	101.80	41.10	8.60	0.00	0.00	0.00	0.00	
10	0.00	0.00	7.55	14.95	2.10	128.20	0.00	7.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	6.85	12.25	2.10	82.90	0.00	4.05	0.00	0.00	0.00	0.00	
12	0.00	0.00	6.50	10.90	0.90	51.35	0.00	1.20	0.00	0.00	0.00	0.00	
13	0.00	0.00	8.25	9.30	0.30	27.50	4.05	1.50	0.00	0.00	0.00	0.00	
14	0.00	0.00	11.80	9.30	3.70	27.50	119.40	5.80	0.00	0.00	0.00	0.00	
15	0.00	20.00	19.00	10.90	5.10	55.25	157.85	5.80	0.00	0.00	0.00	0.00	
16	0.00	80.80	15.85	10.90	4.40	48.10	125.00	4.75	0.00	0.00	0.00	0.00	
17	0.00	74.10	14.95	9.30	5.10	93.80	106.60	5.10	0.00	0.00	0.00	0.00	
18	0.00	44.40	14.95	8.95	10.00	152.20	145.00	5.80	0.00	0.00	0.00	0.00	
19	0.00	37.80	18.55	7.90	8.60	165.50	178.25	4.75	0.00	0.00	0.00	0.00	
20	0.00	33.95	17.65	6.50	10.90	121.00	141.00	4.75	0.00	0.00	0.00	0.00	
21	0.00	35.60	12.25	6.85	8.95	69.55	88.20	4.40	0.00	0.00	0.00	0.00	
22	0.00	38.90	8.95	7.20	10.90	38.35	61.75	4.40	0.00	0.00	0.00	0.00	
23	0.00	35.05	7.55	7.20	8.95	33.40	66.95	5.80	0.00	0.00	0.00	0.00	
24	0.00	38.35	6.85	8.25	10.00	28.50	107.40	4.40	0.00	0.00	0.00	0.00	
25	0.00	34.50	7.20	14.50	14.50	31.20	148.20	3.00	0.00	0.00	0.00	0.00	
26	0.00	38.90	8.60	21.50	15.40	50.05	109.80	2.10	0.00	0.00	0.00	0.00	
27	0.00	48.75	7.20	21.50	12.70	102.60	103.40	0.00	0.00	0.00	0.00	0.00	
28	0.00	47.45	5.80	14.95	10.00	168.05	82.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	33.95	8.95	10.00	17.20	215.80	51.35	0.00	0.00	0.00	0.00	0.00	
30	0.00	30.65	15.85	7.90	52.00	227.50	37.80	0.00	0.00	0.00	0.00	0.00	
31	0.00	33.95	6.85	109.00	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	707.10	884.35	469.20	363.40	3419.80	3761.00	194.70	0.00	0.00	0.00	0.00	9799.55 CMSDAY
Mean	0.00	22.81	29.48	15.14	11.72	113.99	121.32	6.49	0.00	0.00	0.00	0.00	26.85 CMS
Max	0.00	80.80	138.60	45.50	109.00	227.50	302.00	20.50	0.00	0.00	0.00	0.00	302.00 CMS
Min	0.00	0.00	5.80	6.50	0.30	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	61.09	76.41	40.54	31.40	295.47	324.95	16.82	0.00	0.00	0.00	0.00	846.68 MCM
Momentary Peak	303.00 CMS. at 34.11 m. (MSL.) at 15.00 Hours , on Oct 5 , 2009												
Runoff Yield	8.37 Liters/Second/Square KM.			Momentary Peak Yield			94.487 Liters/Second/Square KM.						

WATER YEAR : 2009
SAKAE KRANG RIVER BASIN

Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani (Ct.9)

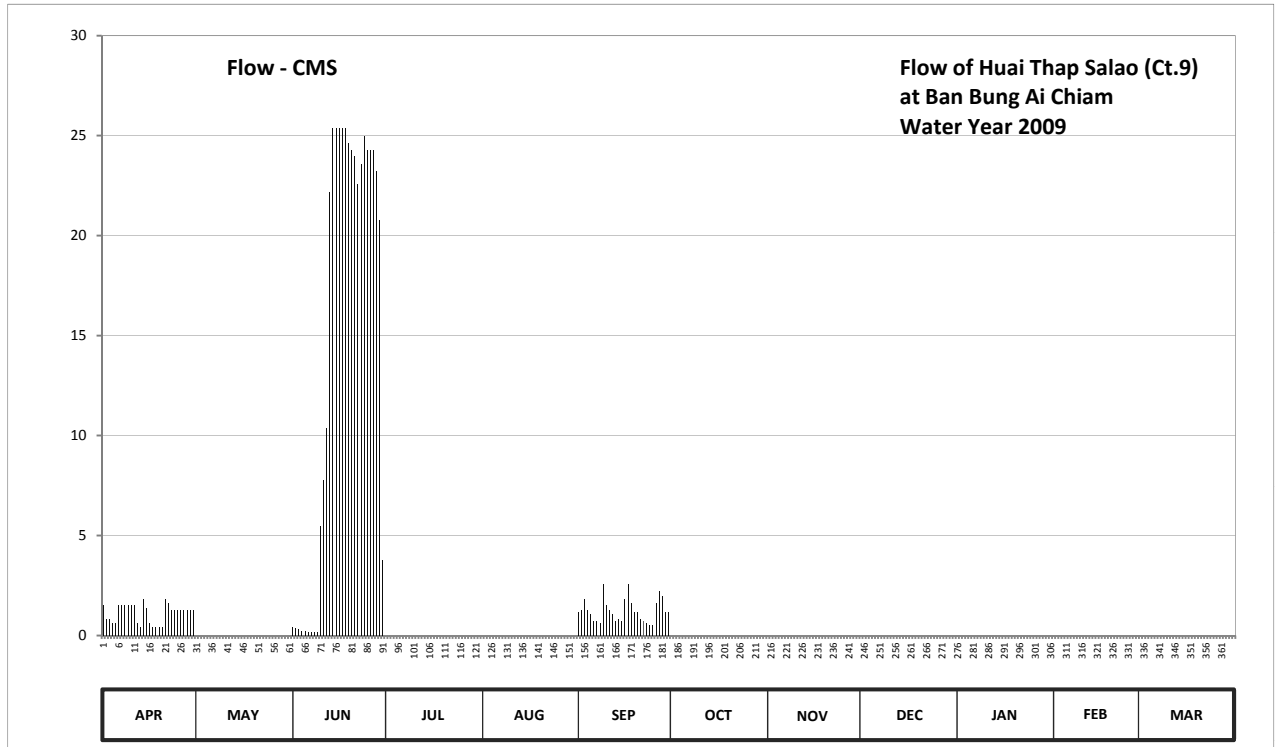
Lat 15 - 31 - 35 N Long 99 - 28 - 10 E

Location : on left bank about 9 kilometers upstream from Ct.6.

	Ban	Bung Ai Chiam	Amphoe	Lam Sak	Changwat	Uthai Thani
Drainage Area	528	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+123.450 m. (M.S.L.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 100 meters from the gage observer's house				Elevation	+129.000 m. (M.S.L.)
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 means of 5 readings					
Period of Available Gage Records	1977 to date					
Rating Operation						
Period of Rating	1977 to date					
Rated by Flot	-					
Rated by Current Meter	1977 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Rabum Dam above gage site. Stage-discharge relation defined by 13 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.50	0.02	123.40	0.12	-0.05	123.47	0.10	-0.06	1.06	-0.07	0.78	-0.03	
2	123.44	-0.02	123.39	0.08	-0.05	123.48	0.19	-0.06	1.05	-0.08	0.08	0.11	
3	123.44	-0.03	123.38	0.08	-0.05	123.52	0.08	-0.07	1.01	-0.07	0.02	0.05	
4	123.42	-0.04	123.35	0.13	-0.05	123.48	0.02	-0.07	1.09	0.02	-0.02	0.04	
5	123.42	-0.04	123.35	0.13	-0.05	123.46	0.02	-0.07	1.09	0.02	-0.02	0.02	
6	123.50	0.08	123.34	0.08	-0.05	123.43	-0.02	-0.06	1.08	0.02	-0.02	-0.02	
7	123.50	0.39	123.34	0.05	-0.06	123.43	-0.04	0.06	1.08	0.02	-0.03	-0.02	
8	123.50	0.53	123.34	0.05	-0.07	123.42	-0.05	0.06	1.08	0.02	-0.03	-0.02	
9	123.50	0.95	123.34	0.07	-0.07	123.57	-0.05	0.06	1.06	0.02	0.00	-0.05	
10	123.50	0.95	123.75	0.03	-0.07	123.50	-0.06	0.06	1.04	0.02	0.06	-0.06	
11	123.50	0.96	123.85	0.01	-0.08	123.48	-0.06	0.04	1.04	0.02	0.06	-0.07	
12	123.42	0.97	123.95	-0.01	0.10	123.46	-0.06	-0.05	1.04	0.02	0.04	-0.08	
13	123.40	0.95	124.32	-0.02	0.10	123.43	-0.04	-0.06	0.08	0.02	0.01	-0.09	
14	123.52	0.81	124.41	-0.03	0.10	123.44	-0.02	-0.06	0.03	-0.03	-0.01	-0.10	
15	123.49	0.09	124.41	-0.03	0.10	123.43	-0.04	-0.07	0.02	-0.05	0.00	-0.10	
16	123.42	0.02	124.41	-0.03	0.08	123.52	-0.05	-0.07	-0.02	0.35	-0.04	-0.10	
17	123.40	-0.02	124.41	-0.03	0.02	123.57	0.05	-0.07	-0.04	0.35	-0.05	0.03	
18	123.40	-0.05	124.41	0.08	-0.02	123.51	0.01	0.02	-0.05	1.03	-0.06	0.01	
19	123.40	-0.05	124.39	0.08	-0.02	123.47	-0.02	0.34	-0.05	1.03	-0.07	-0.03	
20	123.40	-0.05	124.38	0.08	-0.03	123.47	-0.05	0.78	-0.05	1.03	-0.07	-0.03	
21	123.52	-0.05	124.37	0.08	-0.04	123.44	-0.05	0.79	-0.06	1.03	-0.08	-0.03	
22	123.51	-0.05	124.33	0.08	-0.05	123.43	-0.06	0.79	-0.06	1.03	-0.09	-0.03	
23	123.48	0.02	124.36	0.06	-0.05	123.42	-0.04	0.79	-0.06	1.05	-0.09	-0.03	
24	123.48	-0.03	124.40	0.01	-0.05	123.41	-0.02	0.80	-0.07	1.13	-0.09	0.01	
25	123.48	-0.05	124.38	-0.02	-0.05	123.41	-0.04	0.86	-0.07	1.07	-0.10	-0.10	
26	123.48	-0.03	124.38	-0.03	-0.05	123.51	-0.01	1.10	-0.07	1.03	-0.10	-0.12	
27	123.48	-0.05	124.38	-0.03	-0.05	123.55	-0.03	1.10	-0.07	1.03	-0.11	-0.13	
28	123.48	-0.05	124.35	-0.03	-0.05	123.53	-0.04	1.10	-0.07	1.03	-0.11	-0.14	
29	123.48	-0.07	124.28	-0.04	0.14	123.47	-0.04	1.10	-0.07	1.01		-0.15	
30	123.48	-0.07	123.65	-0.04	0.06	123.47	-0.06	1.05	-0.07	1.01		-0.15	
31		-0.02		-0.04	0.04		-0.06		-0.07	0.93		-0.15	
Mean	123.46	0.19	123.99	0.03	-0.01	123.47	-0.02	0.34	0.38	0.49	0.00	-0.05	
Max	123.52	0.97	124.41	0.13	0.14	123.57	0.19	1.10	1.09	1.13	0.78	0.11	124.41
Min	123.40	-0.07	123.34	-0.04	-0.08	123.41	-0.06	-0.07	-0.07	-0.08	-0.11	-0.15	-0.15
Annual Max Momentary Gage Height	124.58		m. (MSL) ,			at 18.00 Hours ,	on Jan 23 ,	2009					
Zero Gage at Bottom Elevation	123.45		m. (MSL) ,			River Bed	123.07		m. (MSL)				
Left Bank Elevation	127.52		m. (MSL) ,										
Right Bank Elevation	127.48		m. (MSL) ,			Drainage Area	528		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	0.00	0.40	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.84	0.00	0.36	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.84	0.00	0.32	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.62	0.00	0.20	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.62	0.00	0.20	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	
6	1.50	0.00	0.16	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	
7	1.50	0.00	0.16	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	
8	1.50	0.00	0.16	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	
9	1.50	0.00	0.16	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	
10	1.50	0.00	5.50	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	
11	1.50	0.00	7.75	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.62	0.00	10.35	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.40	0.00	22.20	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	
14	1.80	0.00	25.40	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	
15	1.39	0.00	25.40	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.62	0.00	25.40	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.40	0.00	25.40	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.40	0.00	25.40	0.00	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.40	0.00	24.65	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.40	0.00	24.30	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	
21	1.80	0.00	23.95	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	
22	1.65	0.00	22.55	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	
23	1.28	0.00	23.60	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	
24	1.28	0.00	25.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	
25	1.28	0.00	24.30	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	
26	1.28	0.00	24.30	0.00	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	
27	1.28	0.00	24.30	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	
28	1.28	0.00	23.25	0.00	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	
29	1.28	0.00	20.80	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	
30	1.28	0.00	3.75	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	
31		0.00		0.00	0.00		0.00		0.00	0.00		0.00	
Total	33.54	0.00	439.67	0.00	0.00	37.10	0.00	0.00	0.00	0.00	0.00	0.00	510.31 CMSDAY
Mean	1.12	0.00	14.66	0.00	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00	1.40 CMS
Max	1.80	0.00	25.40	0.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	25.40 CMS
Min	0.40	0.00	0.16	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.90	0.00	37.99	0.00	0.00	3.21	0.00	0.00	0.00	0.00	0.00	0.00	44.09 MCM
Momentary Peak	32.20 CMS. at 124.58 m. (MSL.) at 18.00 Hours , on Jan 23 , 2009												
Runoff Yield	2.65 Liters/Second/Square KM.			Momentary Peak Yield				60,954 Liters/Second/Square KM.					

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

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

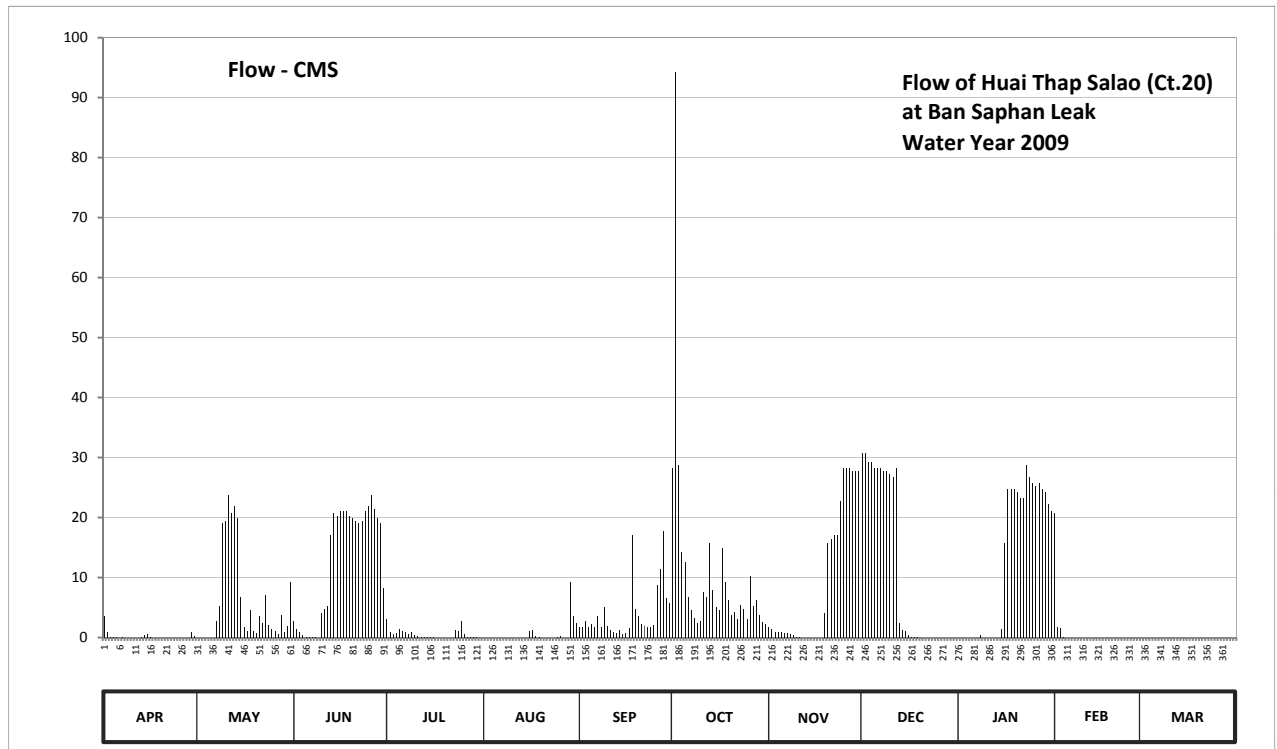
Lat 15 - 26 - 43 N Long 99 - 35 - 24 E

Location : on right bank at Ban Saphan Leak

	Ban	Saphan Leak	Amphoe	Lan Sak	Changwat	Uthai Thani
Drainage Area	691	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+96.620	m. (M.S.L.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the automatic gage buiding				Elevation	+101.800 m. (M.S.L.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Record good. Stage-discharge relation defined by 23 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	195.80	98.80	99.14	99.15	98.79	99.07	99.91	99.08	99.96	98.71	99.75	98.52	
2	195.60	98.76	99.04	98.98	98.77	99.08	100.74	99.04	99.96	98.69	99.08	98.55	
3	195.49	98.74	98.98	98.95	98.77	99.14	99.92	98.99	99.93	98.68	99.06	98.60	
4	195.45	98.73	98.92	98.96	98.77	99.07	99.56	98.99	99.93	98.67	98.85	98.58	
5	195.44	98.73	98.88	99.05	98.75	99.11	99.51	98.98	99.91	98.67	98.80	98.53	
6	195.42	98.72	98.85	99.00	98.73	99.07	99.31	98.96	99.91	98.67	98.77	98.54	
7	195.43	99.14	98.82	98.98	98.72	99.18	99.22	98.97	99.91	98.67	98.76	98.57	
8	195.42	99.25	98.82	98.95	98.72	99.07	99.16	98.95	99.90	98.92	98.74	98.57	
9	195.41	99.71	98.80	98.98	98.72	99.24	99.12	98.92	99.90	98.78	98.74	98.55	
10	195.41	99.72	99.20	98.93	98.71	99.09	99.14	98.86	99.89	98.73	98.73	98.50	
11	195.41	99.82	99.23	98.89	98.72	99.02	99.34	98.81	99.88	98.70	98.77	98.55	
12	195.42	99.75	99.25	98.87	98.71	98.99	99.31	98.78	99.91	98.71	98.80	98.55	
13	195.45	99.78	99.65	98.85	98.70	98.96	99.61	98.77	99.12	98.71	98.79	98.57	
14	195.55	99.73	99.75	98.83	98.75	99.03	99.35	98.77	99.02	98.70	98.73	98.56	
15	195.56	99.31	99.74	98.83	98.73	98.95	99.24	98.76	99.00	99.05	98.68	98.55	
16	195.47	99.08	99.76	98.81	99.01	98.97	99.22	98.73	98.93	99.61	98.65	98.54	
17	195.42	99.01	99.76	98.80	99.02	99.06	99.58	98.73	98.87	99.84	98.65	98.53	
18	195.41	99.22	99.76	98.80	98.90	99.65	99.40	98.72	98.86	99.84	98.66	98.51	
19	195.40	99.01	99.74	98.80	98.81	99.23	99.29	99.20	98.81	99.84	98.65	98.53	
20	195.39	98.96	99.73	98.79	98.78	99.18	99.19	99.61	98.77	99.83	98.66	98.47	
21	195.38	99.18	99.72	98.76	98.77	99.11	99.21	99.63	98.78	99.81	98.65	98.47	
22	195.36	99.12	99.71	98.80	98.77	99.10	99.15	99.65	98.76	99.81	98.65	98.49	
23	195.35	99.32	99.72	99.02	98.80	99.07	99.26	99.65	98.74	99.92	98.62	98.48	
24	195.35	99.10	99.76	99.01	98.76	99.07	99.23	99.80	98.74	99.88	98.59	98.47	
25	195.34	99.04	99.78	99.14	98.88	99.10	99.15	99.91	98.73	99.86	98.59	98.54	
26	195.35	99.00	99.82	98.95	98.89	99.38	99.43	99.91	98.72	99.85	98.57	98.58	
27	195.35	98.95	99.77	98.86	98.80	99.47	99.25	99.91	98.75	99.86	98.55	98.56	
28	195.36	99.19	99.73	98.83	98.75	99.67	99.29	99.90	98.75	99.84	98.52	98.48	
29	195.60	98.99	99.71	98.81	99.40	99.30	99.19	99.90	98.73	99.83		98.43	
30	195.51	99.09	99.36	98.81	99.18	99.27	99.13	99.90	98.71	99.79		98.41	
31		99.40		98.80	99.12		99.11		98.70	99.76		98.40	
Mean	195.44	99.17	99.43	98.90	98.83	99.16	99.37	99.23	99.24	99.30	98.75	98.52	
Max	195.80	99.82	99.82	99.15	99.40	99.67	100.74	99.91	99.96	99.92	99.75	98.60	195.80
Min	195.34	98.72	98.80	98.76	98.70	98.95	99.11	98.72	98.70	98.67	98.52	98.40	98.40
Annual Max Momentary Gage Height	100.92		m. (MSL.) ,				at 12.00 Hours , on Oct 2 , 2009						
Zero Gage at Bottom Elevation	96.62		m. (MSL.) ,			River Bed	98.37		m. (MSL)				
Left Bank Elevation	104.36		m. (MSL.) ,										
Right Bank Elevation	104.34		m. (MSL.) ,			Drainage Area	691		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.60	0.00	2.80	3.00	0.00	1.70	28.20	1.80	30.70	0.00	20.70	0.00	
2	0.84	0.00	1.40	0.84	0.00	1.80	94.32	1.40	30.70	0.00	1.80	0.00	
3	0.14	0.00	0.84	0.60	0.00	2.80	28.70	0.92	29.20	0.00	1.60	0.00	
4	0.06	0.00	0.36	0.68	0.00	1.70	14.22	0.92	29.20	0.00	0.10	0.00	
5	0.04	0.00	0.16	1.50	0.00	2.20	12.62	0.84	28.20	0.00	0.00	0.00	
6	0.00	0.00	0.10	1.00	0.00	1.70	6.78	0.68	28.20	0.00	0.00	0.00	
7	0.02	2.80	0.04	0.84	0.00	3.60	4.50	0.76	28.20	0.00	0.00	0.00	
8	0.00	5.25	0.04	0.60	0.00	1.70	3.20	0.60	27.70	0.36	0.00	0.00	
9	0.00	19.10	0.00	0.84	0.00	5.00	2.40	0.36	27.70	0.00	0.00	0.00	
10	0.00	19.50	4.00	0.44	0.00	1.90	2.80	0.12	27.20	0.00	0.00	0.00	
11	0.00	23.70	4.75	0.18	0.00	1.20	7.62	0.02	26.70	0.00	0.00	0.00	
12	0.00	20.70	5.25	0.14	0.00	0.92	6.78	0.00	28.20	0.00	0.00	0.00	
13	0.06	21.90	17.10	0.10	0.00	0.68	15.82	0.00	2.40	0.00	0.00	0.00	
14	0.44	19.90	20.70	0.06	0.00	1.30	7.90	0.00	1.20	0.00	0.00	0.00	
15	0.52	6.78	20.30	0.06	0.00	0.60	5.00	0.00	1.00	1.50	0.00	0.00	
16	0.10	1.80	21.10	0.02	1.10	0.76	4.50	0.00	0.44	15.82	0.00	0.00	
17	0.00	1.10	21.10	0.00	1.20	1.60	14.86	0.00	0.14	24.70	0.00	0.00	
18	0.00	4.50	21.10	0.00	0.20	17.10	9.30	0.00	0.12	24.70	0.00	0.00	
19	0.00	1.10	20.30	0.00	0.02	4.75	6.25	4.00	0.02	24.70	0.00	0.00	
20	0.00	0.68	19.90	0.00	0.00	3.60	3.80	15.82	0.00	24.20	0.00	0.00	
21	0.00	3.60	19.50	0.00	0.00	2.20	4.25	16.46	0.00	23.20	0.00	0.00	
22	0.00	2.40	19.10	0.00	0.00	2.00	3.00	17.10	0.00	23.20	0.00	0.00	
23	0.00	7.06	19.50	1.20	0.00	1.70	5.50	17.10	0.00	28.70	0.00	0.00	
24	0.00	2.00	21.10	1.10	0.00	1.70	4.75	22.70	0.00	26.70	0.00	0.00	
25	0.00	1.40	21.90	2.80	0.16	2.00	3.00	28.20	0.00	25.70	0.00	0.00	
26	0.00	1.00	23.70	0.60	0.18	8.74	10.20	28.20	0.00	25.20	0.00	0.00	
27	0.00	0.60	21.50	0.12	0.00	11.40	5.25	28.20	0.00	25.70	0.00	0.00	
28	0.00	3.80	19.90	0.06	0.00	17.74	6.25	27.70	0.00	24.70	0.00	0.00	
29	0.84	0.92	19.10	0.02	9.30	6.50	3.80	27.70	0.00	24.20	0.00	0.00	
30	0.18	1.90	8.18	0.02	3.60	5.75	2.60	27.70	0.00	22.30	0.00	0.00	
31		9.30		0.00	2.40		2.20		0.00	21.10		0.00	
Total	6.84	182.79	374.82	16.82	18.16	116.34	330.37	269.30	347.22	386.68	24.20	0.00	2073.54 CMSDAY
Mean	0.23	5.90	12.49	0.54	0.59	3.88	10.66	8.98	11.20	12.47	0.86	0.00	5.68 CMS
Max	3.60	23.70	23.70	3.00	9.30	17.74	94.32	28.20	30.70	28.70	20.70	0.00	94.32 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.59	15.79	32.38	1.45	1.57	10.05	28.54	23.27	30.00	33.41	2.09	0.00	179.15 MCM
Momentary Peak	113.78 CMS. at 100.92 m. (MSL.) at 12.00 Hours , on Oct 2 , 2009												
Runoff Yield	8.22 Liters/Second/Square KM.			Momentary Peak Yield				164.627 /Second/Square KM.					

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Huai Kan Yao at Ban Phai Khieo, Uthai Thani (Ct.21)

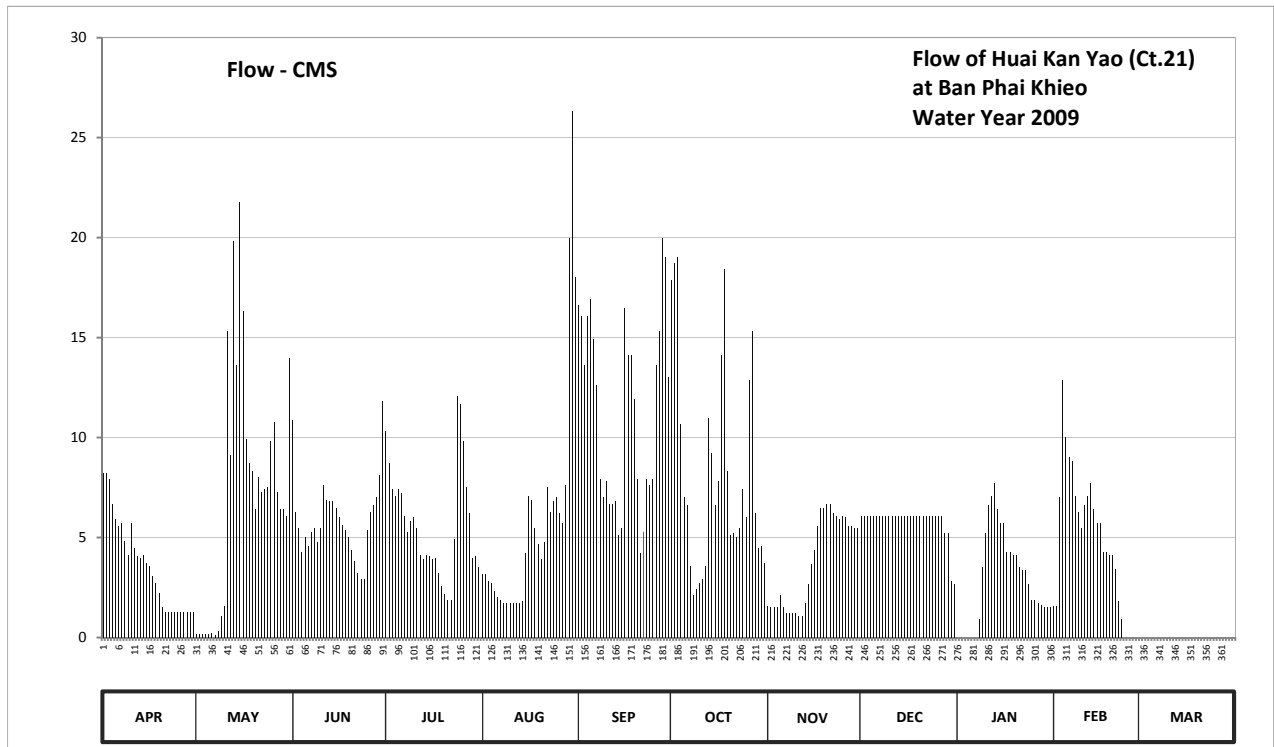
Lat 15 - 37 - 55 N Long 99 - 42 - 35 E

Location : on left bank at Ban Phai Khieo

	Ban Phai Khieo	Amphoe Sawang Arom	Changwat Uthai Thani
Drainage Area	200 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+64.400 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge	Elevation	+68.700 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Record good. Stage-discharge relation defined by 15 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.51	64.44	65.77	65.72	64.95	66.23	66.32	64.71	65.30	64.32	64.71	64.32	
2	65.51	64.44	65.32	65.56	64.95	66.19	66.38	64.70	65.30	64.32	64.71	64.32	
3	65.48	64.44	65.23	65.43	64.90	66.00	66.40	64.70	65.30	64.32	65.39	64.32	
4	65.36	64.44	65.10	65.40	64.89	66.19	65.75	64.70	65.30	64.32	65.94	64.32	
5	65.28	64.44	65.18	65.43	64.83	66.25	65.39	64.80	65.30	64.18	65.69	64.32	
6	65.24	64.45	65.13	65.41	64.79	66.10	65.35	64.70	65.30	64.32	65.59	64.32	
7	65.26	64.43	65.21	65.30	64.76	65.92	65.01	64.65	65.30	64.32	65.57	64.32	
8	65.16	64.48	65.23	65.21	64.74	65.48	64.80	64.65	65.30	64.60	65.40	64.32	
9	65.08	64.63	65.15	65.27	64.74	65.39	64.85	64.65	65.30	65.00	65.32	64.32	
10	65.26	64.71	65.23	65.29	64.74	65.47	64.89	64.65	65.30	65.20	65.23	64.32	
11	65.12	66.13	65.45	65.23	64.74	65.36	64.92	64.63	65.30	65.35	65.35	64.32	
12	65.07	65.60	65.38	65.08	64.74	65.36	65.01	64.63	65.30	65.40	65.40	64.32	
13	65.06	66.46	65.37	65.05	64.74	65.37	65.78	64.74	65.30	65.46	65.46	64.32	
14	65.08	66.00	65.37	65.08	64.75	65.19	65.61	64.88	65.30	65.33	65.33	64.32	
15	65.03	66.59	65.34	65.07	65.09	65.23	65.35	65.02	65.30	65.26	65.26	64.32	
16	65.01	66.21	65.29	65.05	65.40	66.22	65.47	65.11	65.30	65.26	65.26	64.32	
17	64.94	65.68	65.25	65.06	65.38	66.04	66.04	65.24	65.30	65.10	65.10	64.32	
18	64.89	65.56	65.22	64.96	65.23	66.04	66.36	65.34	65.30	65.10	65.10	64.32	
19	64.82	65.52	65.18	64.87	65.14	65.86	65.52	65.34	65.30	65.08	65.08	64.32	
20	64.70	65.33	65.11	64.81	65.05	65.48	65.19	65.36	65.30	65.08	65.08	64.32	
21	64.66	65.49	65.04	64.76	65.15	65.09	65.20	65.36	65.30	65.00	64.99	64.32	
22	64.66	65.42	64.96	64.76	65.44	65.21	65.18	65.31	65.30	64.98	64.75	64.32	
23	64.66	65.43	64.92	65.17	65.32	65.48	65.23	65.30	65.30	64.98	64.60	64.32	
24	64.66	65.44	64.92	65.87	65.37	65.45	65.43	65.28	65.30	64.88	64.32	64.32	
25	64.66	65.67	65.22	65.84	65.39	65.48	65.29	65.30	65.30	64.76	64.32	64.32	
26	64.66	65.76	65.32	65.67	65.31	66.00	65.94	65.29	65.30	64.76	64.32	64.32	
27	64.66	65.42	65.35	65.44	65.26	66.13	66.13	65.24	65.30	64.74	64.32	64.32	
28	64.66	65.33	65.39	65.31	65.45	66.47	65.31	65.24	65.20	64.72	64.32	64.32	
29	64.66	65.33	65.50	65.06	66.47	66.40	65.12	65.23	65.20	64.70		64.32	
30	64.66	65.30	65.85	65.07	66.89	65.95	65.13	65.23	64.90	64.70		64.32	
31		66.03		65.00	66.33		65.03		64.88	64.70		64.32	
Mean	64.98	65.31	65.27	65.23	65.19	65.77	65.46	65.00	65.27	64.85	65.07	64.32	
Max	65.51	66.59	65.85	65.87	66.89	66.47	66.40	65.36	65.30	65.46	65.94	64.32	66.89
Min	64.66	64.43	64.92	64.76	64.74	65.09	64.80	64.63	64.88	64.18	64.32	64.32	64.18
Annual Max Momentary Gage Height		67.06		m. (MSL.) ,			at 18.00 Hours , on Aug 29 , 2009						
Zero Gage at Bottom Elevation		64.40		m. (MSL.) ,		River Bed	64.31		m. (MSL)				
Left Bank Elevation		68.51		m. (MSL.) ,									
Right Bank Elevation		68.50		m. (MSL.) ,		Drainage Area	200		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.20	0.16	10.87	10.32	3.15	16.62	17.88	1.56	6.10	0.00	1.56	0.00	
2	8.20	0.16	6.30	8.70	3.15	16.07	18.72	1.50	6.10	0.00	1.56	0.00	
3	7.90	0.16	5.47	7.40	2.80	13.60	19.00	1.50	6.10	0.00	7.00	0.00	
4	6.70	0.16	4.30	7.10	2.73	16.07	10.65	1.50	6.10	0.00	12.88	0.00	
5	5.92	0.16	5.02	7.40	2.31	16.90	7.00	2.10	6.10	0.00	10.00	0.00	
6	5.56	0.20	4.57	7.20	2.04	14.90	6.60	1.50	6.10	0.00	9.00	0.00	
7	5.74	0.12	5.29	6.10	1.86	12.64	3.58	1.20	6.10	0.00	8.80	0.00	
8	4.84	0.32	5.47	5.29	1.74	7.90	2.10	1.20	6.10	0.90	7.10	0.00	
9	4.14	1.08	4.75	5.83	1.74	7.00	2.45	1.20	6.10	3.50	6.30	0.00	
10	5.74	1.56	5.47	6.01	1.74	7.80	2.73	1.20	6.10	5.20	5.47	0.00	
11	4.48	15.29	7.60	5.47	1.74	6.70	2.94	1.08	6.10	6.60	6.60	0.00	
12	4.06	9.10	6.90	4.14	1.74	6.70	3.58	1.08	6.10	7.10	7.10	0.00	
13	3.98	19.84	6.80	3.90	1.74	6.80	10.98	1.74	6.10	7.70	7.70	0.00	
14	4.14	13.60	6.80	4.14	1.80	5.11	9.20	2.66	6.10	6.40	6.40	0.00	
15	3.74	21.75	6.50	4.06	4.22	5.47	6.60	3.66	6.10	5.74	5.74	0.00	
16	3.58	16.34	6.01	3.90	7.10	16.48	7.80	4.39	6.10	5.74	5.74	0.00	
17	3.08	9.90	5.65	3.98	6.90	14.12	14.12	5.56	6.10	4.30	4.30	0.00	
18	2.73	8.70	5.38	3.22	5.47	14.12	18.44	6.50	6.10	4.30	4.30	0.00	
19	2.24	8.30	5.02	2.59	4.66	11.92	8.30	6.50	6.10	4.14	4.14	0.00	
20	1.50	6.40	4.39	2.17	3.90	7.90	5.11	6.70	6.10	4.14	4.14	0.00	
21	1.26	8.00	3.82	1.86	4.75	4.22	5.20	6.70	6.10	3.50	3.43	0.00	
22	1.26	7.30	3.22	1.86	7.50	5.29	5.02	6.20	6.10	3.36	1.80	0.00	
23	1.26	7.40	2.94	4.93	6.30	7.90	5.47	6.10	6.10	3.36	0.90	0.00	
24	1.26	7.50	2.94	12.04	6.80	7.60	7.40	5.92	6.10	2.66	0.00	0.00	
25	1.26	9.80	5.38	11.68	7.00	7.90	6.01	6.10	6.10	1.86	0.00	0.00	
26	1.26	10.76	6.30	9.80	6.20	13.60	12.88	6.01	6.10	1.86	0.00	0.00	
27	1.26	7.30	6.60	7.50	5.74	15.29	15.29	5.56	6.10	1.74	0.00	0.00	
28	1.26	6.40	7.00	6.20	7.60	19.98	6.20	5.56	5.20	1.62	0.00	0.00	
29	1.26	6.40	8.10	3.98	19.98	19.00	4.48	5.47	5.20	1.50		0.00	
30	1.26	6.10	11.80	4.06	26.34	13.00	4.57	5.47	2.80	1.50		0.00	
31		13.99		3.50	18.02		3.74		2.66	1.50		0.00	
Total	109.07	224.25	176.66	176.33	178.76	338.60	254.04	113.42	180.56	90.22	131.96	0.00	1973.87 CMSDAY
Mean	3.64	7.23	5.89	5.69	5.77	11.29	8.19	3.78	5.82	2.91	4.71	0.00	5.41 CMS
Max	8.20	21.75	11.80	12.04	26.34	19.98	19.00	6.70	6.10	7.70	12.88	0.00	26.34 CMS
Min	1.26	0.12	2.94	1.86	1.74	4.22	2.10	1.08	2.66	0.00	0.00	0.00	0.00 CMS
Runoff	9.42	19.38	15.26	15.24	15.45	29.26	21.95	9.80	15.60	7.80	11.40	0.00	170.54 MCM
Momentary Peak	29.06 CMS. at 67.06 m. (MSL) at 18.00 Hours , on Aug 29 , 2009												
Runoff Yield	26.94 Liters/Second/Square KM.			Momentary Peak Yield			144,764 Liters/Second/Square KM.						

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Huai Rang at Ban Huai Rang, Uthai Thani (Ct.23)

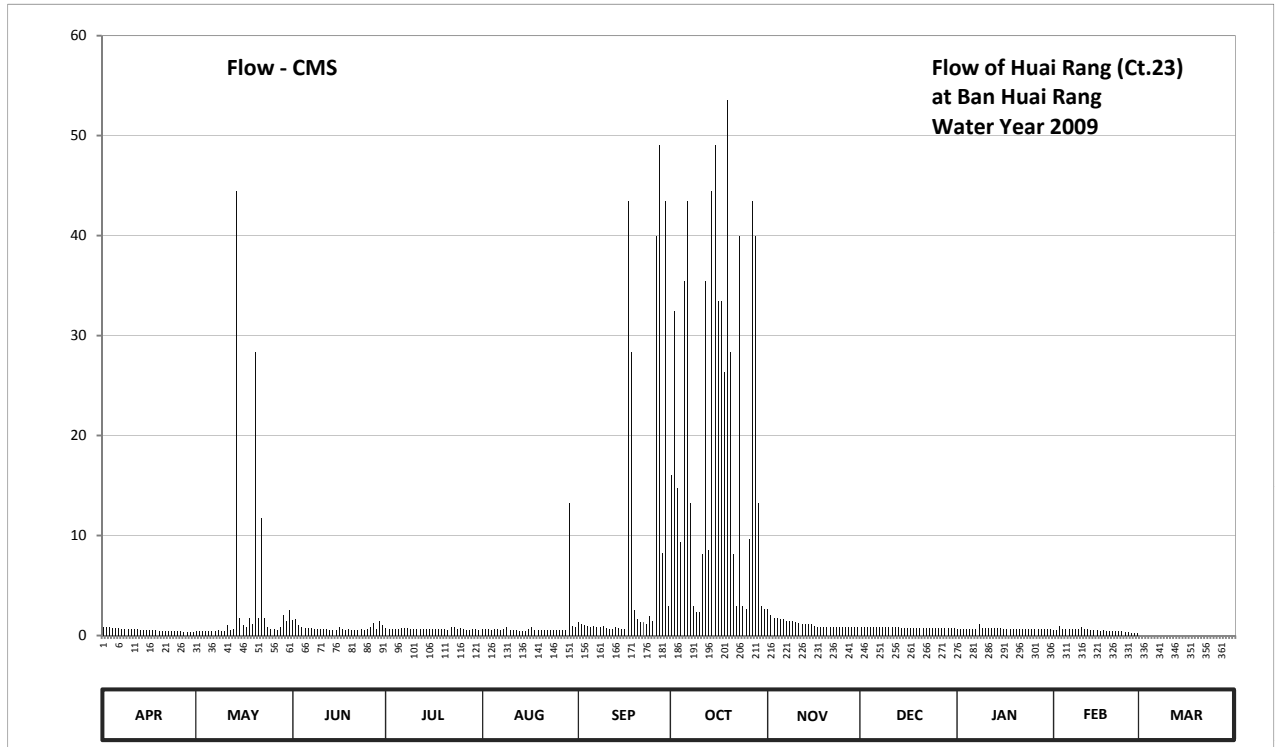
Lat 15 - 28 - 58 N Long 99 - 29 - 27 E

Location : on left bank at Ban Huai Rang.

	Ban	Huai Rang	Amphoe	Lan Sak	Changwat	Uthai Thani
Drainage Area	-	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+121.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge				Elevation	+125.799 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Record good. Stage-discharge relation defined by 12 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.21	121.13	121.29	121.20	121.18	121.27	121.80	121.37	121.21	121.19	121.16	121.00	
2	121.21	121.14	121.30	121.19	121.18	121.25	122.13	121.33	121.21	121.19	121.16	121.00	
3	121.21	121.14	121.24	121.18	121.18	121.24	121.77	121.31	121.21	121.19	121.23	121.00	
4	121.20	121.13	121.22	121.18	121.17	121.23	121.63	121.31	121.21	121.18	121.19	121.00	
5	121.20	121.13	121.20	121.19	121.18	121.22	121.54	121.30	121.21	121.18	121.18	121.00	
6	121.20	121.13	121.20	121.20	121.18	121.23	121.48	121.30	121.21	121.18	121.18	121.00	
7	121.19	121.14	121.20	121.20	121.17	121.21	121.42	121.28	121.21	121.18	121.18	121.00	
8	121.19	121.17	121.19	121.20	121.18	121.21	121.39	121.28	121.21	121.25	121.18	121.00	
9	121.19	121.14	121.19	121.19	121.22	121.23	121.35	121.28	121.21	121.20	121.18	121.00	
10	121.18	121.14	121.18	121.18	121.17	121.20	121.35	121.27	121.21	121.20	121.22	121.00	
11	121.18	121.24	121.18	121.18	121.17	121.19	121.41	121.26	121.21	121.20	121.19	121.00	
12	121.18	121.16	121.18	121.18	121.16	121.19	121.54	121.25	121.21	121.20	121.18	121.00	
13	121.17	121.19	121.17	121.18	121.15	121.22	121.61	121.25	121.21	121.20	121.17	121.00	
14	121.17	121.52	121.17	121.19	121.15	121.20	121.52	121.25	121.20	121.20	121.16	121.00	
15	121.17	121.31	121.17	121.19	121.15	121.19	121.51	121.25	121.20	121.20	121.16	121.00	
16	121.16	121.24	121.21	121.19	121.18	121.18	121.46	121.23	121.20	121.19	121.15	121.00	
17	121.16	121.22	121.18	121.18	121.21	121.48	121.46	121.22	121.20	121.19	121.16	121.00	
18	121.16	121.31	121.17	121.18	121.17	121.45	121.56	121.22	121.20	121.19	121.15	121.00	
19	121.15	121.25	121.18	121.18	121.17	121.36	121.50	121.22	121.20	121.19	121.15	121.00	
20	121.15	121.45	121.17	121.18	121.16	121.30	121.45	121.22	121.20	121.18	121.15	121.00	
21	121.15	121.31	121.17	121.17	121.16	121.27	121.41	121.22	121.20	121.18	121.14	121.00	
22	121.14	121.70	121.17	121.22	121.16	121.27	121.39	121.22	121.20	121.18	121.13	121.00	
23	121.14	121.31	121.18	121.21	121.17	121.25	121.53	121.22	121.20	121.18	121.13	121.00	
24	121.14	121.22	121.17	121.19	121.17	121.32	121.39	121.21	121.20	121.18	121.12	121.00	
25	121.13	121.19	121.18	121.20	121.17	121.28	121.37	121.21	121.20	121.18	121.11	121.00	
26	121.13	121.19	121.21	121.18	121.17	121.53	121.64	121.21	121.20	121.18	121.10	121.00	
27	121.12	121.16	121.26	121.17	121.17	121.51	121.48	121.21	121.20	121.18	121.09	121.00	
28	121.12	121.21	121.19	121.17	121.17	121.60	121.53	121.21	121.20	121.18	121.07	121.00	
29	121.12	121.33	121.28	121.18	121.42	121.48	121.42	121.21	121.20	121.18		121.00	
30	121.12	121.28	121.24	121.18	121.23	121.39	121.39	121.21	121.20	121.18		121.00	
31		121.36		121.17	121.22		121.37		121.20	121.18		121.00	
Mean	121.16	121.24	121.20	121.19	121.18	121.30	121.51	121.25	121.20	121.19	121.16	121.00	
Max	121.21	121.70	121.30	121.22	121.42	121.60	122.13	121.37	121.21	121.25	121.23	121.00	122.13
Min	121.12	121.13	121.17	121.17	121.15	121.18	121.35	121.21	121.20	121.18	121.07	121.00	121.00
Annual Max Momentary Gage Height	122.40		m. (MSL.) ,			at 06.00 Hours , on Oct 2 , 2009							
Zero Gage at Bottom Elevation	121.00		m. (MSL.) ,			River Bed	121.03	m. (MSL)					
Left Bank Elevation		125.79		m. (MSL.) ,									
Right Bank Elevation		125.79		m. (MSL.) ,		Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.81	0.41	1.51	0.72	0.63	1.34	16.00	2.69	0.81	0.68	0.54	0.00	
2	0.81	0.46	1.60	0.68	0.63	1.16	32.43	2.06	0.81	0.68	0.54	0.00	
3	0.81	0.46	1.07	0.63	0.63	1.07	14.74	1.75	0.81	0.68	0.98	0.00	
4	0.72	0.41	0.90	0.63	0.59	0.98	9.31	1.75	0.81	0.63	0.68	0.00	
5	0.72	0.41	0.72	0.68	0.63	0.90	35.43	1.60	0.81	0.63	0.63	0.00	
6	0.72	0.41	0.72	0.72	0.63	0.98	43.48	1.60	0.81	0.63	0.63	0.00	
7	0.68	0.46	0.72	0.72	0.59	0.81	13.23	1.42	0.81	0.63	0.63	0.00	
8	0.68	0.59	0.68	0.72	0.63	0.81	2.99	1.42	0.81	1.16	0.63	0.00	
9	0.68	0.46	0.68	0.68	0.90	0.98	2.37	1.42	0.81	0.72	0.63	0.00	
10	0.63	0.46	0.63	0.63	0.59	0.72	2.37	1.34	0.81	0.72	0.90	0.00	
11	0.63	1.07	0.63	0.63	0.59	0.68	8.19	1.25	0.81	0.72	0.68	0.00	
12	0.63	0.54	0.63	0.63	0.54	0.68	35.43	1.16	0.81	0.72	0.63	0.00	
13	0.59	0.68	0.59	0.63	0.50	0.90	8.60	1.16	0.81	0.72	0.59	0.00	
14	0.59	44.50	0.59	0.68	0.50	0.72	44.50	1.16	0.72	0.72	0.54	0.00	
15	0.59	1.75	0.59	0.68	0.50	0.68	49.03	1.16	0.72	0.72	0.54	0.00	
16	0.54	1.07	0.81	0.68	0.63	0.63	33.40	0.98	0.72	0.68	0.50	0.00	
17	0.54	0.90	0.63	0.63	0.81	43.48	33.40	0.90	0.72	0.68	0.54	0.00	
18	0.54	1.75	0.59	0.63	0.59	28.35	26.37	0.90	0.72	0.68	0.50	0.00	
19	0.50	1.16	0.63	0.63	0.59	2.53	53.56	0.90	0.72	0.68	0.50	0.00	
20	0.50	28.35	0.59	0.63	0.54	1.60	28.35	0.90	0.72	0.63	0.50	0.00	
21	0.50	1.75	0.59	0.59	0.54	1.34	8.19	0.90	0.72	0.63	0.46	0.00	
22	0.46	11.80	0.59	0.90	0.54	1.34	2.99	0.90	0.72	0.63	0.41	0.00	
23	0.46	1.75	0.63	0.81	0.59	1.16	39.96	0.90	0.72	0.63	0.41	0.00	
24	0.46	0.90	0.59	0.68	0.59	1.91	2.99	0.81	0.72	0.63	0.37	0.00	
25	0.41	0.68	0.63	0.72	0.59	1.42	2.69	0.81	0.72	0.63	0.32	0.00	
26	0.41	0.68	0.81	0.63	0.59	39.96	9.66	0.81	0.72	0.63	0.28	0.00	
27	0.37	0.54	1.25	0.59	0.59	49.03	43.48	0.81	0.72	0.63	0.25	0.00	
28	0.37	0.81	0.68	0.59	0.59	8.24	39.96	0.81	0.72	0.63	0.20	0.00	
29	0.37	2.06	1.42	0.63	13.23	43.48	13.23	0.81	0.72	0.63		0.00	
30	0.37	1.42	1.07	0.63	0.98	2.99	2.99	0.81	0.72	0.63		0.00	
31		2.53		0.59	0.90		2.69		0.72	0.63		0.00	
Total	17.09	111.22	23.77	20.62	31.97	240.87	662.01	35.89	23.49	21.04	15.01	0.00	1202.98 CMSDAY
Mean	0.57	3.59	0.79	0.67	1.03	8.03	21.36	1.20	0.76	0.68	0.54	0.00	3.30 CMS
Max	0.81	44.50	1.60	0.90	13.23	49.03	53.56	2.69	0.81	1.16	0.98	0.00	53.56 CMS
Min	0.37	0.41	0.59	0.59	0.50	0.63	2.37	0.81	0.72	0.63	0.20	0.00	0.00 CMS
Runoff	1.48	9.61	2.05	1.78	2.76	20.81	57.20	3.10	2.03	1.82	1.30	0.00	103.94 MCM
Momentary Peak	47.75 CMS. at 122.40 m. (MSL.) at 06.00 Hours , on Oct 2 , 2009												
Runoff Yield	***** Liters/Second/Square KM.			Momentary Peak Yield				***** Liters/Second/Square KM.					

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Tan Dieo , Phetchabun (S.3)

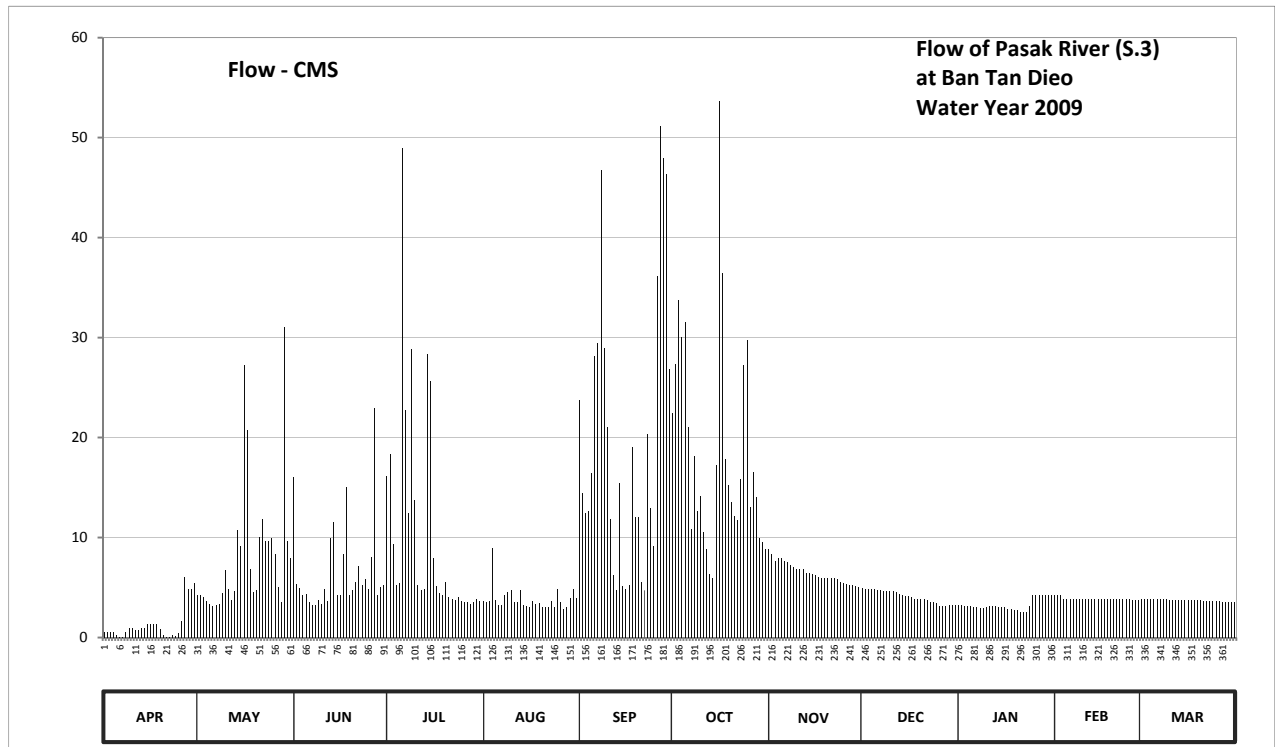
Lat 16 - 46 - 51 N Long 101 - 14 - 57 E

Location : on left bank near the bridge of Samakkhichai - Nonthakit Road.

	Ban Tan Dieo	Amphoe Lom Sak	Changwat Phetchabun
Drainage Area	1,037 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+136.630 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the staff gage.	Elevation	+142.630 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 means of 5 readings		
Period of Available Gage Records	1950 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +142.690 m.(MSL.) and is including overbank flow.		
General Description	Records good. Flow regulated by the concrete weir about 150 meters downstream from the gage site. Stage-discharge relation defined by 14 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	138.63	139.33	140.47	140.48	139.25	141.02	140.93	139.83	139.42	139.19	139.33	139.28	
2	138.63	139.33	139.47	140.64	139.23	140.34	141.26	139.77	139.41	139.19	139.33	139.28	
3	138.63	139.30	139.42	139.88	139.25	140.17	141.66	139.71	139.40	139.18	139.33	139.28	
4	138.63	139.25	139.33	139.45	139.84	140.19	141.43	139.73	139.40	139.18	139.28	139.28	
5	138.54	139.21	139.34	139.48	139.27	140.50	141.52	139.73	139.40	139.18	139.28	139.28	
6	138.41	139.17	139.23	142.60	139.20	141.31	140.83	139.71	139.39	139.16	139.28	139.28	
7	138.41	139.19	139.19	140.95	139.19	141.39	140.03	139.69	139.39	139.15	139.28	139.28	
8	138.63	139.21	139.19	140.17	139.33	142.47	140.62	139.67	139.38	139.14	139.28	139.28	
9	138.73	139.35	139.27	141.35	139.37	141.36	140.19	139.64	139.38	139.14	139.28	139.28	
10	138.73	139.61	139.21	140.28	139.39	140.83	140.31	139.63	139.38	139.15	139.28	139.27	
11	138.68	139.41	139.40	139.45	139.24	140.12	140.00	139.63	139.38	139.17	139.28	139.27	
12	138.68	139.27	139.25	139.39	139.24	139.56	139.83	139.63	139.37	139.17	139.28	139.27	
13	138.73	139.38	139.93	139.40	139.39	139.39	139.57	139.58	139.34	139.17	139.28	139.27	
14	138.73	140.01	140.09	141.32	139.19	140.42	139.53	139.58	139.33	139.15	139.28	139.27	
15	138.83	139.85	139.33	141.15	139.17	139.44	140.56	139.57	139.32	139.15	139.28	139.27	
16	138.83	141.25	139.33	139.73	139.16	139.41	142.86	139.56	139.32	139.15	139.28	139.27	
17	138.83	140.81	139.77	139.44	139.25	139.45	141.83	139.55	139.30	139.13	139.28	139.27	
18	138.83	139.62	140.39	139.36	139.21	140.69	140.60	139.53	139.28	139.13	139.28	139.27	
19	138.70	139.37	139.33	139.33	139.22	140.14	140.40	139.53	139.28	139.11	139.28	139.27	
20	138.53	139.39	139.39	139.49	139.15	140.14	140.26	139.53	139.28	139.11	139.28	139.26	
21	138.44	139.94	139.49	139.31	139.15	139.49	140.15	139.53	139.28	139.08	139.28	139.25	
22	138.43	140.12	139.65	139.28	139.15	139.39	140.11	139.53	139.27	139.08	139.28	139.25	
23	138.51	139.90	139.45	139.27	139.25	140.78	140.45	139.52	139.23	139.08	139.28	139.25	
24	138.45	139.91	139.52	139.30	139.16	140.21	141.25	139.49	139.23	139.18	139.28	139.25	
25	138.62	139.93	139.41	139.25	139.41	139.85	141.41	139.48	139.22	139.33	139.28	139.25	
26	138.92	139.77	139.75	139.23	139.23	141.81	140.22	139.47	139.17	139.33	139.27	139.25	
27	139.55	139.43	140.97	139.23	139.13	142.72	140.51	139.46	139.17	139.33	139.27	139.24	
28	139.41	139.23	139.33	139.21	139.15	142.54	140.30	139.45	139.17	139.33	139.27	139.24	
29	139.41	141.49	139.43	139.23	139.29	142.45	139.93	139.44	139.19	139.33		139.24	
30	139.48	139.90	139.45	139.28	139.41	141.23	139.89	139.43	139.19	139.33		139.24	
31		139.73		139.25	139.29		139.83		139.19	139.33		139.24	
Mean	138.75	139.70	139.56	139.84	139.26	140.63	140.59	139.59	139.31	139.19	139.28	139.26	
Max	139.55	141.49	140.97	142.60	139.84	142.72	142.86	139.83	139.42	139.33	139.33	139.28	142.86
Min	138.41	139.17	139.19	139.21	139.13	139.39	139.53	139.43	139.17	139.08	139.27	139.24	138.41
Annual Max Momentary Gage Height	143.03		m. (MSL.) ,				at 12.00 Hours , on Oct 16 , 2009						
Zero Gage at Bottom Elevation	136.63		m. (MSL.) ,			River Bed	135.38	m. (MSL)					
Left Bank Elevation		142.68		m. (MSL.) ,									
Right Bank Elevation		142.95		m. (MSL.) ,		Drainage Area	1037	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	4.24	16.04	16.16	3.65	23.68	22.42	8.90	4.96	3.24	4.24	3.86	
2	0.52	4.24	5.36	18.36	3.51	14.48	27.36	8.30	4.88	3.24	4.24	3.86	
3	0.52	4.00	4.96	9.40	3.65	12.44	33.76	7.70	4.80	3.18	4.24	3.86	
4	0.52	3.65	4.24	5.20	9.00	12.68	30.08	7.90	4.80	3.18	3.86	3.86	
5	0.28	3.37	4.32	5.44	3.79	16.40	31.52	7.90	4.80	3.18	3.86	3.86	
6	0.02	3.12	3.51	49.00	3.30	28.16	21.02	7.70	4.72	3.06	3.86	3.86	
7	0.02	3.24	3.24	22.70	3.24	29.44	10.90	7.50	4.72	3.00	3.86	3.86	
8	0.52	3.37	3.24	12.44	4.24	46.72	18.08	7.30	4.64	2.94	3.86	3.86	
9	0.92	4.40	3.79	28.80	4.56	28.96	12.68	7.00	4.64	2.94	3.86	3.86	
10	0.92	6.70	3.37	13.76	4.72	21.02	14.12	6.90	4.64	3.00	3.86	3.79	
11	0.72	4.88	4.80	5.20	3.58	11.84	10.60	6.90	4.64	3.12	3.86	3.79	
12	0.72	3.79	3.65	4.72	3.58	6.20	8.90	6.90	4.56	3.12	3.86	3.79	
13	0.92	4.64	9.90	4.80	4.72	4.72	6.30	6.40	4.32	3.12	3.86	3.79	
14	0.92	10.70	11.50	28.32	3.24	15.44	5.90	6.40	4.24	3.00	3.86	3.79	
15	1.32	9.10	4.24	25.60	3.12	5.12	17.24	6.30	4.16	3.00	3.86	3.79	
16	1.32	27.20	4.24	7.90	3.06	4.88	53.68	6.20	4.16	3.00	3.86	3.79	
17	1.32	20.74	8.30	5.12	3.65	5.20	36.48	6.10	4.00	2.88	3.86	3.79	
18	1.32	6.80	15.08	4.48	3.37	19.06	17.80	5.90	3.86	2.88	3.86	3.79	
19	0.80	4.56	4.24	4.24	3.44	12.08	15.20	5.90	3.86	2.76	3.86	3.79	
20	0.26	4.72	4.72	5.52	3.00	12.08	13.52	5.90	3.86	2.76	3.86	3.72	
21	0.08	10.00	5.52	4.08	3.00	5.52	12.20	5.90	3.86	2.58	3.86	3.65	
22	0.06	11.84	7.10	3.86	3.00	4.72	11.72	5.90	3.79	2.58	3.86	3.65	
23	0.22	9.60	5.20	3.79	3.65	20.32	15.80	5.80	3.51	2.58	3.86	3.65	
24	0.10	9.70	5.80	4.00	3.06	12.92	27.20	5.52	3.51	3.18	3.86	3.65	
25	0.48	9.90	4.88	3.65	4.88	9.10	29.76	5.44	3.44	4.24	3.86	3.65	
26	1.70	8.30	8.10	3.51	3.51	36.16	13.04	5.36	3.12	4.24	3.79	3.65	
27	6.10	5.04	22.98	3.51	2.88	51.16	16.54	5.28	3.12	4.24	3.79	3.58	
28	4.88	3.51	4.24	3.37	3.00	47.92	14.00	5.20	3.12	4.24	3.79	3.58	
29	4.88	31.04	5.04	3.51	3.93	46.40	9.90	5.12	3.24	4.24		3.58	
30	5.44	9.60	5.20	3.86	4.88	26.88	9.50	5.04	3.24	4.24		3.58	
31		7.90		3.65	3.93		8.90		3.24	4.24		3.58	
Total	38.32	253.89	196.80	317.95	118.14	591.70	576.12	194.56	126.45	101.20	109.01	116.16	2740.30 CMSDAY
Mean	1.28	8.19	6.56	10.26	3.81	19.72	18.58	6.49	4.08	3.26	3.89	3.75	7.51 CMS
Max	6.10	31.04	22.98	49.00	9.00	51.16	53.68	8.90	4.96	4.24	4.24	3.86	53.68 CMS
Min	0.02	3.12	3.24	3.37	2.88	4.72	5.90	5.04	3.12	2.58	3.79	3.58	0.02 CMS
Runoff	3.31	21.94	17.00	27.47	10.21	51.12	49.78	16.81	10.93	8.74	9.42	10.04	236.76 MCM
Momentary Peak	56.74 CMS. at 143.03 m. (MSL.) at 12.00 Hours , on Oct 16 , 2009												
Runoff Yield	7.24 Liters/Second/Square KM.			Momentary Peak Yield			54,716 Liters/Second/Square KM.						

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Mueang , Phetchabun (S.4B)

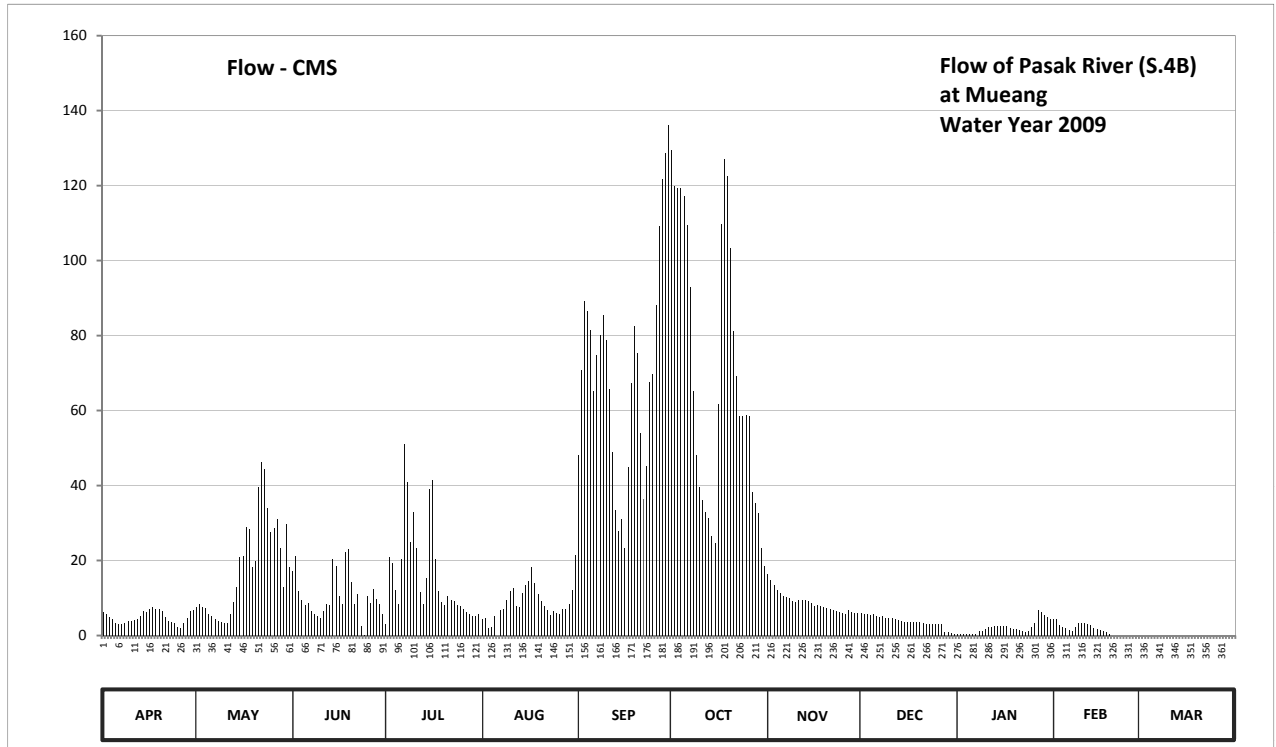
Lat 16 - 25 - 16 N Long 101 - 10 - 08 E

Location : on left bank about 300 meters downstream, Phatthana Phak Nua 2 bridge.

	Ban Nai Mueang	Amphoe Mueang	Changwat Phetchabun
Drainage Area	3,459 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+106.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank in front of town - hall Changwat Phetchabun.	Elevation	+116.500 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 means of 5 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by the local weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.04	110.19	110.86	109.71	109.86	112.36	115.02	110.81	110.02	109.35	109.85	109.23	
2	109.99	110.25	111.08	111.07	109.90	113.22	114.75	110.71	110.00	109.35	109.85	109.22	
3	109.91	110.18	110.50	110.98	109.55	113.83	114.73	110.61	109.99	109.35	109.67	109.22	
4	109.86	110.15	110.34	110.52	109.60	113.74	114.73	110.53	109.97	109.34	109.61	109.22	
5	109.76	109.99	110.22	110.24	109.94	113.57	114.67	110.48	109.99	109.34	109.55	109.22	
6	109.70	109.93	110.28	111.03	109.23	113.01	114.45	110.42	109.93	109.34	109.50	109.22	
7	109.70	109.86	110.07	112.48	110.10	113.35	113.94	110.40	109.92	109.34	109.47	109.21	
8	109.76	109.82	109.99	112.07	110.13	113.53	113.01	110.37	109.93	109.45	109.60	109.21	
9	109.80	109.77	109.93	111.29	110.34	113.71	112.36	110.32	109.90	109.47	109.74	109.21	
10	109.80	109.74	109.90	111.69	110.50	113.48	112.02	110.30	109.89	109.54	109.75	109.21	
11	109.84	109.74	110.07	111.20	110.56	113.03	111.86	110.33	109.88	109.60	109.73	109.21	
12	109.86	110.01	110.25	110.49	110.21	112.40	111.70	110.33	109.86	109.62	109.71	109.21	
13	109.95	110.30	110.23	110.26	110.17	111.73	111.62	110.33	109.83	109.63	109.67	109.21	
14	110.08	110.57	111.03	110.74	110.48	111.44	111.37	110.32	109.80	109.63	109.57	109.21	
15	110.05	111.07	110.93	111.99	110.62	111.61	111.28	110.27	109.78	109.63	109.52	109.21	
16	110.13	111.08	110.41	112.10	110.69	111.20	112.89	110.20	109.78	109.65	109.49	109.21	
17	110.17	111.49	110.26	111.04	110.92	112.23	114.46	110.22	109.77	109.65	109.44	109.21	
18	110.13	111.47	111.14	110.51	110.65	113.09	114.95	110.20	109.79	109.55	109.41	109.21	
19	110.12	110.92	111.19	110.29	110.45	113.61	114.82	110.18	109.78	109.54	109.34	109.20	
20	110.08	111.01	110.67	110.23	110.31	113.37	114.26	110.16	109.77	109.52	109.30	109.20	
21	109.92	112.01	110.25	110.42	110.21	112.60	113.56	110.13	109.74	109.51	109.25	109.20	
22	109.82	112.29	110.45	110.34	110.10	111.87	113.16	110.11	109.70	109.45	109.21	109.20	
23	109.78	112.21	109.63	110.31	109.98	112.25	112.77	110.08	109.69	109.43	109.19	109.19	
24	109.75	111.75	109.33	110.22	110.09	113.10	112.77	110.06	109.70	109.45	109.17	109.19	
25	109.60	111.43	110.42	110.20	110.02	113.18	112.78	110.03	109.70	109.59	109.15	109.19	
26	109.56	111.48	110.28	110.13	109.99	113.79	112.77	110.01	109.69	109.73	109.13	109.18	
27	109.74	111.61	110.54	110.04	110.14	114.44	111.96	110.10	109.69	110.10	109.10	109.18	
28	109.88	111.20	110.35	110.01	110.12	114.80	111.81	110.05	109.43	110.04	109.08	109.18	
29	110.08	110.57	110.24	109.95	110.26	115.00	111.68	110.02	109.42	109.98		109.18	
30	110.10	111.54	110.00	109.93	110.52	115.21	111.20	110.02	109.39	109.92		109.17	
31		110.92		109.99	111.10		110.93		109.34	109.86		109.17	
Mean	109.90	110.79	110.36	110.69	110.22	113.13	113.04	110.27	109.78	109.58	109.47	109.20	
Max	110.17	112.29	111.19	112.48	111.10	115.21	115.02	110.81	110.02	110.10	109.85	109.23	115.21
Min	109.56	109.74	109.33	109.71	109.23	111.20	110.93	110.01	109.34	109.34	109.08	109.17	109.08
Annual Max Momentary Gage Height		115.25	m. (MSL.) ,				at 06.00 Hours , on Sep 30 , 2009						
Zero Gage at Bottom Elevation		106.50	m. (MSL.) ,			River Bed	109.29	m. (MSL)					
Left Bank Elevation		115.82	m. (MSL.) ,										
Right Bank Elevation		115.90	m. (MSL.) ,			Drainage Area	3459	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.15	7.65	17.30	3.07	4.35	48.00	129.45	16.42	5.95	0.37	4.25	0.00	
2	5.65	8.38	21.15	20.97	4.75	70.85	120.00	14.90	5.75	0.37	4.25	0.00	
3	4.85	7.55	11.75	19.40	1.88	89.22	119.30	13.40	5.65	0.37	2.77	0.00	
4	4.35	7.25	9.50	12.05	2.25	86.45	119.30	12.20	5.45	0.30	2.32	0.00	
5	3.45	5.65	8.00	8.25	5.15	81.35	117.20	11.45	5.65	0.30	1.88	0.00	
6	3.00	5.05	8.75	20.27	0.00	65.03	109.50	10.55	5.05	0.30	1.50	0.00	
7	3.00	4.35	6.45	51.00	6.75	74.75	92.80	10.25	4.95	0.30	1.27	0.00	
8	3.45	3.95	5.65	40.83	7.05	80.15	65.03	9.88	5.05	1.12	2.25	0.00	
9	3.75	3.52	5.05	24.82	9.50	85.55	48.00	9.25	4.75	1.27	3.30	0.00	
10	3.75	3.30	4.75	32.80	11.75	78.65	39.70	9.00	4.65	1.80	3.37	0.00	
11	4.15	3.30	6.45	23.25	12.65	65.58	36.20	9.38	4.55	2.25	3.23	0.00	
12	4.35	5.85	8.38	11.60	7.88	49.00	33.00	9.38	4.35	2.40	3.07	0.00	
13	5.25	9.00	8.13	8.50	7.45	33.60	31.40	9.38	4.05	2.47	2.77	0.00	
14	6.55	12.80	20.27	15.35	11.45	27.80	26.40	9.25	3.75	2.47	2.02	0.00	
15	6.25	20.97	18.52	39.02	13.55	31.20	24.65	8.62	3.60	2.47	1.65	0.00	
16	7.05	21.15	10.40	41.50	14.60	23.25	61.73	7.75	3.60	2.62	1.42	0.00	
17	7.45	28.80	8.50	20.45	18.35	44.75	109.85	8.00	3.52	2.62	1.05	0.00	
18	7.05	28.40	22.20	11.90	14.00	67.22	127.00	7.75	3.67	1.88	0.83	0.00	
19	6.95	18.35	23.07	8.88	11.00	82.55	122.45	7.55	3.60	1.80	0.30	0.00	
20	6.55	19.92	14.30	8.13	9.12	75.35	103.20	7.35	3.52	1.65	0.00	0.00	
21	4.95	39.48	8.38	10.55	7.88	54.00	81.05	7.05	3.30	1.57	0.00	0.00	
22	3.95	46.25	11.00	9.50	6.75	36.40	69.15	6.85	3.00	1.12	0.00	0.00	
23	3.60	44.25	2.47	9.12	5.55	45.25	58.42	6.55	2.92	0.97	0.00	0.00	
24	3.37	34.00	0.22	8.00	6.65	67.50	58.42	6.35	3.00	1.12	0.00	0.00	
25	2.25	27.60	10.55	7.75	5.95	69.70	58.70	6.05	3.00	2.17	0.00	0.00	
26	1.95	28.60	8.75	7.05	5.65	87.95	58.42	5.85	2.92	3.23	0.00	0.00	
27	3.30	31.20	12.35	6.15	7.15	109.15	38.35	6.75	2.92	6.75	0.00	0.00	
28	4.55	23.25	9.62	5.85	6.95	121.75	35.20	6.25	0.97	6.15	0.00	0.00	
29	6.55	12.80	8.25	5.25	8.50	128.75	32.60	5.95	0.90	5.55	0.00	0.00	
30	6.75	29.80	5.75	5.05	12.05	136.10	23.25	5.95	0.67	4.95	0.00	0.00	
31		18.35		5.65	21.50		18.52		0.30	4.35		0.00	
Total	144.22	560.77	315.91	501.96	268.06	2116.85	2168.24	265.31	115.01	67.06	43.50	0.00	6566.89 CMSDAY
Mean	4.81	18.09	10.53	16.19	8.65	70.56	69.94	8.84	3.71	2.16	1.55	0.00	17.99 CMS
Max	7.45	46.25	23.07	51.00	21.50	136.10	129.45	16.42	5.95	6.75	4.25	0.00	136.10 CMS
Min	1.95	3.30	0.22	3.07	0.00	23.25	18.52	5.85	0.30	0.30	0.00	0.00	0.00 CMS
Runoff	12.46	48.45	27.30	43.37	23.16	182.90	187.34	22.92	9.94	5.79	3.76	0.00	567.38 MCM
Momentary Peak	137.50 CMS. at 115.25 m. (MSL.) at 06.00 Hours , on Sep 30 , 2009												
Runoff Yield	5.20 Liters/Second/Square KM.			Momentary Peak Yield			39.751 Liters/Second/Square KM.						

WATER YEAR : 2009

PASAK RIVER BASIN

Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)

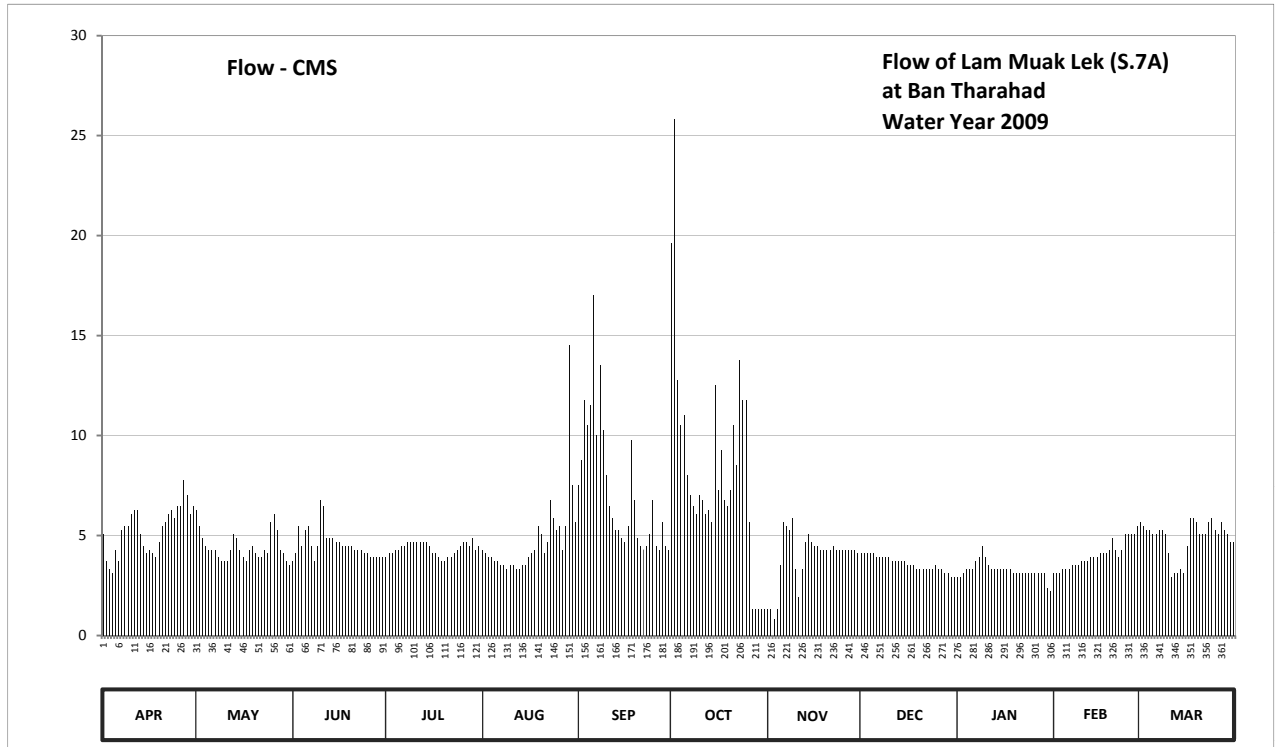
Lat 14 - 47 - 17 N Long 101 - 07 - 18 E

Location : on right bank at Ban Tharahad.

	Ban Tharahad	Amphoe Wang Muang	Changwat Saraburi
Drainage Area	580	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (A.D.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the bridge.	Elevation	+11.282 m. (A.D.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009.		

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	0.79	0.66	0.67	0.69	0.84	1.32	0.52	0.68	0.62	0.63	0.76	
2	0.66	0.75	0.68	0.68	0.68	0.89	1.51	0.52	0.68	0.62	0.63	0.75	
3	0.64	0.72	0.75	0.68	0.67	1.01	1.05	0.48	0.68	0.63	0.63	0.74	
4	0.63	0.70	0.70	0.69	0.67	0.96	0.96	0.52	0.68	0.64	0.64	0.74	
5	0.69	0.69	0.74	0.69	0.66	1.00	0.98	0.65	0.68	0.64	0.64	0.73	
6	0.66	0.69	0.75	0.70	0.66	1.22	0.86	0.76	0.67	0.64	0.64	0.73	
7	0.74	0.69	0.70	0.70	0.65	0.94	0.82	0.75	0.67	0.66	0.65	0.74	
8	0.75	0.67	0.66	0.71	0.65	1.08	0.80	0.74	0.67	0.67	0.65	0.74	
9	0.75	0.66	0.70	0.71	0.64	0.95	0.78	0.77	0.67	0.70	0.65	0.73	
10	0.78	0.66	0.81	0.71	0.65	0.86	0.82	0.64	0.67	0.67	0.66	0.68	
11	0.79	0.66	0.80	0.71	0.65	0.80	0.81	0.56	0.66	0.65	0.66	0.62	
12	0.79	0.69	0.72	0.71	0.64	0.77	0.78	0.64	0.66	0.64	0.66	0.63	
13	0.73	0.73	0.72	0.71	0.64	0.74	0.79	0.71	0.66	0.64	0.67	0.63	
14	0.70	0.72	0.72	0.71	0.65	0.74	0.76	0.73	0.66	0.64	0.67	0.64	
15	0.68	0.69	0.71	0.70	0.65	0.72	1.04	0.71	0.66	0.64	0.67	0.63	
16	0.69	0.67	0.71	0.68	0.67	0.71	0.83	0.70	0.65	0.64	0.68	0.70	
17	0.68	0.66	0.70	0.68	0.68	0.75	0.91	0.70	0.65	0.64	0.68	0.77	
18	0.67	0.69	0.70	0.67	0.69	0.93	0.81	0.69	0.65	0.64	0.68	0.77	
19	0.71	0.70	0.70	0.66	0.75	0.81	0.80	0.69	0.64	0.63	0.69	0.76	
20	0.75	0.68	0.70	0.66	0.73	0.72	0.83	0.69	0.64	0.63	0.72	0.73	
21	0.76	0.67	0.69	0.67	0.68	0.70	0.96	0.69	0.64	0.63	0.69	0.73	
22	0.78	0.67	0.69	0.67	0.71	0.69	0.88	0.70	0.64	0.63	0.67	0.73	
23	0.79	0.69	0.69	0.68	0.81	0.70	1.09	0.69	0.64	0.63	0.69	0.76	
24	0.77	0.68	0.68	0.69	0.77	0.73	1.01	0.69	0.64	0.63	0.73	0.77	
25	0.80	0.76	0.68	0.70	0.74	0.81	1.01	0.69	0.65	0.63	0.73	0.74	
26	0.80	0.78	0.67	0.71	0.75	0.70	0.76	0.69	0.64	0.63	0.73	0.73	
27	0.85	0.74	0.67	0.71	0.69	0.69	0.52	0.69	0.64	0.63	0.73	0.76	
28	0.82	0.69	0.67	0.70	0.75	0.76	0.52	0.69	0.63	0.63	0.75	0.74	
29	0.78	0.68	0.67	0.72	1.12	0.70	0.52	0.69	0.63	0.63		0.73	
30	0.80	0.66	0.67	0.69	0.84	0.69	0.52	0.68	0.62	0.59		0.71	
31		0.65		0.70	0.76		0.52		0.62	0.58		0.71	
Mean	0.74	0.70	0.70	0.69	0.71	0.82	0.86	0.67	0.65	0.64	0.68	0.72	
Max	0.85	0.79	0.81	0.72	1.12	1.22	1.51	0.77	0.68	0.70	0.75	0.77	1.51
Min	0.63	0.65	0.66	0.66	0.64	0.69	0.52	0.48	0.62	0.58	0.63	0.62	0.48
Annual Max Momentary Gage Height	2.45		m. (A.D.) ,				at 15.00 Hours , on Oct 23 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	-0.01	m. (A.D.)					
Left Bank Elevation	11.23		m. (A.D.) ,										
Right Bank Elevation	11.09		m. (A.D.) ,			Drainage Area	580	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.10	6.30	3.70	3.90	4.30	7.50	19.60	1.30	4.10	2.90	3.10	5.70	
2	3.70	5.50	4.10	4.10	4.10	8.75	25.85	1.30	4.10	2.90	3.10	5.50	
3	3.30	4.90	5.50	4.10	3.90	11.75	12.75	0.80	4.10	3.10	3.10	5.30	
4	3.10	4.50	4.50	4.30	3.90	10.50	10.50	1.30	4.10	3.30	3.30	5.30	
5	4.30	4.30	5.30	4.30	3.70	11.50	11.00	3.50	4.10	3.30	3.30	5.10	
6	3.70	4.30	5.50	4.50	3.70	17.00	8.00	5.70	3.90	3.30	3.30	5.10	
7	5.30	4.30	4.50	4.50	3.50	10.00	7.00	5.50	3.90	3.70	3.50	5.30	
8	5.50	3.90	3.70	4.70	3.50	13.50	6.50	5.30	3.90	3.90	3.50	5.30	
9	5.50	3.70	4.50	4.70	3.30	10.25	6.10	5.90	3.90	4.50	3.50	5.10	
10	6.10	3.70	6.75	4.70	3.50	8.00	7.00	3.30	3.90	3.90	3.70	4.10	
11	6.30	3.70	6.50	4.70	3.50	6.50	6.75	1.90	3.70	3.50	3.70	2.90	
12	6.30	4.30	4.90	4.70	3.30	5.90	6.10	3.30	3.70	3.30	3.70	3.10	
13	5.10	5.10	4.90	4.70	3.30	5.30	6.30	4.70	3.70	3.30	3.90	3.10	
14	4.50	4.90	4.90	4.70	3.50	5.30	5.70	5.10	3.70	3.30	3.90	3.30	
15	4.10	4.30	4.70	4.50	3.50	4.90	12.50	4.70	3.70	3.30	3.90	3.10	
16	4.30	3.90	4.70	4.10	3.90	4.70	7.25	4.50	3.50	3.30	4.10	4.50	
17	4.10	3.70	4.50	4.10	4.10	5.50	9.25	4.50	3.50	3.30	4.10	5.90	
18	3.90	4.30	4.50	3.90	4.30	9.75	6.75	4.30	3.50	3.30	4.10	5.90	
19	4.70	4.50	4.50	3.70	5.50	6.75	6.50	4.30	3.30	3.10	4.30	5.70	
20	5.50	4.10	4.50	3.70	5.10	4.90	7.25	4.30	3.30	3.10	4.90	5.10	
21	5.70	3.90	4.30	3.90	4.10	4.50	10.50	4.30	3.30	3.10	4.30	5.10	
22	6.10	3.90	4.30	3.90	4.70	4.30	8.50	4.50	3.30	3.10	3.90	5.10	
23	6.30	4.30	4.30	4.10	6.75	4.50	13.75	4.30	3.30	3.10	4.30	5.70	
24	5.90	4.10	4.10	4.30	5.90	5.10	11.75	4.30	3.30	3.10	5.10	5.90	
25	6.50	5.70	4.10	4.50	5.30	6.75	11.75	4.30	3.50	3.10	5.10	5.30	
26	6.50	6.10	3.90	4.70	5.50	4.50	5.70	4.30	3.30	3.10	5.10	5.10	
27	7.75	5.30	3.90	4.70	4.30	4.30	1.30	4.30	3.30	3.10	5.10	5.70	
28	7.00	4.30	3.90	4.50	5.50	5.70	1.30	4.30	3.10	3.10	5.50	5.30	
29	6.10	4.10	3.90	4.90	14.50	4.50	1.30	4.30	3.10	3.10		5.10	
30	6.50	3.70	3.90	4.30	7.50	4.30	1.30	4.10	2.90	2.35		4.70	
31		3.50		4.50	5.70		1.30		2.90	2.20		4.70	
Total	158.75	137.10	137.25	134.90	147.15	216.70	257.10	118.50	110.90	100.05	112.40	152.10	1782.90 CMSDAY
Mean	5.29	4.42	4.57	4.35	4.75	7.22	8.29	3.95	3.58	3.23	4.01	4.91	4.88 CMS
Max	7.75	6.30	6.75	4.90	14.50	17.00	25.85	5.90	4.10	4.50	5.50	5.90	25.85 CMS
Min	3.10	3.50	3.70	3.70	3.30	4.30	1.30	0.80	2.90	2.20	3.10	2.90	0.80 CMS
Runoff	13.72	11.85	11.86	11.66	12.71	18.72	22.21	10.24	9.58	8.64	9.71	13.14	154.04 MCM
Momentary Peak	61.50 CMS. at 2.45 m. (A.D.) at 15.00 Hours , on Oct 23 , 2009												
Runoff Yield	8.42 Liters/Second/Square KM.			Momentary Peak Yield			106.034 Liters/Second/Square KM.						

WATER YEAR : 2009**PASAK RIVER BASIN**

Pasak River at Ban Pa , Saraburi (S.9)

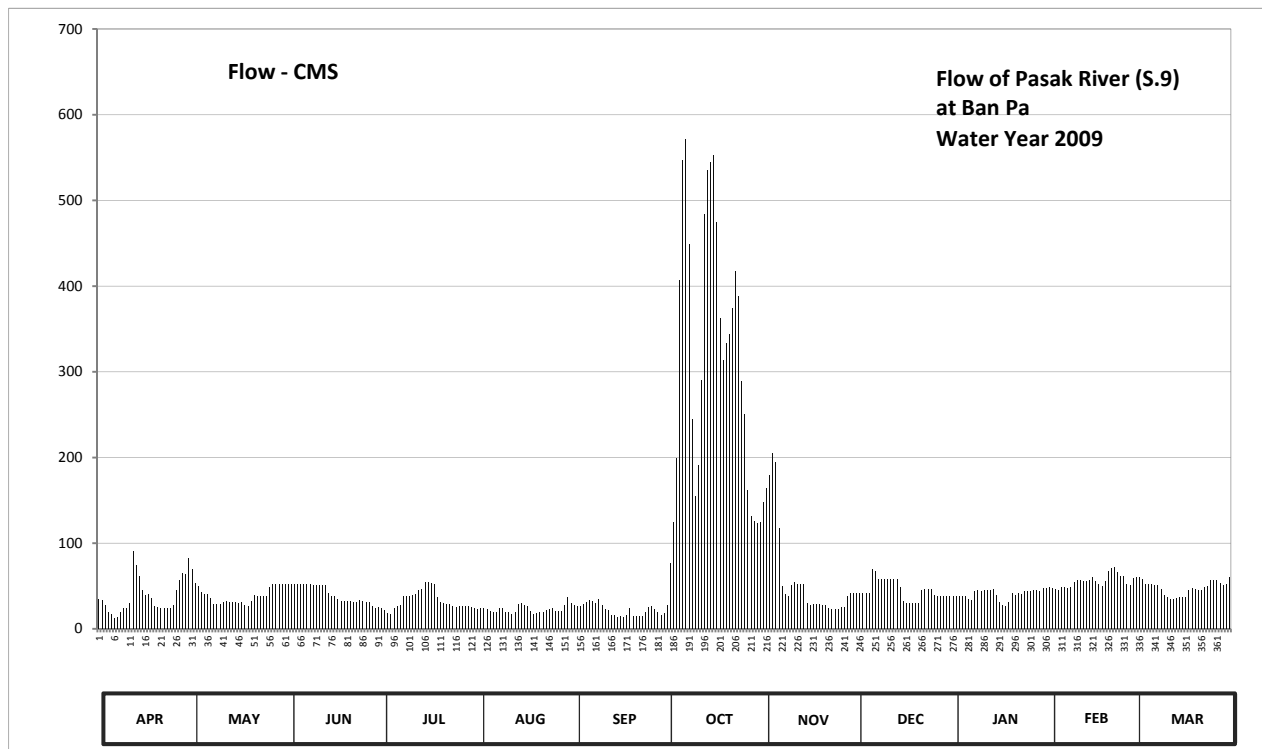
Lat 14 - 37 - 39 N Long 101 - 01 - 02 E

Location : on left bank at Ban Mueang Nua railway bridge.

	Ban Pa	Amphoe Kaeng Khoi	Changwat Saraburi
Drainage Area	14,233	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+7.490	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank under tamarind tree along the measuring line.		Elevation +23.099 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Pasak Dam above gage site. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.18	9.83	9.52	8.94	8.89	9.02	9.02	11.01	9.30	9.25	9.44	9.67	
2	9.15	9.55	9.51	8.86	8.92	8.99	9.94	11.22	9.30	9.25	9.43	9.66	
3	9.00	9.47	9.52	8.79	8.92	8.99	10.67	11.41	9.30	9.25	9.41	9.64	
4	8.82	9.33	9.52	8.75	8.89	9.05	11.66	11.72	9.30	9.24	9.39	9.53	
5	8.76	9.29	9.51	8.93	8.84	9.11	13.68	11.61	9.30	9.24	9.45	9.52	
6	8.62	9.29	9.51	8.99	8.80	9.15	14.85	10.58	9.82	9.18	9.45	9.52	
7	8.63	9.19	9.51	9.01	8.80	9.13	15.05	9.47	9.79	9.15	9.43	9.49	
8	8.80	9.04	9.51	9.23	8.92	9.08	14.03	9.29	9.64	9.36	9.45	9.50	
9	8.91	9.05	9.49	9.24	8.93	9.17	12.16	9.25	9.63	9.38	9.56	9.40	
10	8.92	9.04	9.49	9.24	8.82	9.00	11.11	9.49	9.63	9.35	9.61	9.26	
11	9.07	9.11	9.50	9.26	8.80	8.89	11.57	9.56	9.63	9.37	9.61	9.22	
12	10.18	9.13	9.49	9.29	8.75	8.88	12.61	9.53	9.63	9.39	9.60	9.18	
13	9.90	9.11	9.49	9.38	8.80	8.72	14.33	9.53	9.63	9.39	9.60	9.18	
14	9.68	9.11	9.30	9.41	9.05	8.71	14.75	9.52	9.63	9.40	9.61	9.19	
15	9.38	9.09	9.25	9.56	9.06	8.66	14.83	9.06	9.46	9.27	9.66	9.22	
16	9.26	9.07	9.24	9.57	9.00	8.69	14.90	9.00	9.13	9.11	9.60	9.21	
17	9.28	9.09	9.16	9.54	8.98	8.65	14.25	9.04	9.08	9.01	9.52	9.21	
18	9.19	9.01	9.12	9.53	8.85	8.72	13.30	9.03	9.07	8.97	9.47	9.39	
19	8.97	8.99	9.13	9.21	8.75	8.92	12.85	9.03	9.07	9.10	9.59	9.43	
20	8.95	9.13	9.13	9.09	8.78	8.70	13.03	9.02	9.06	9.30	9.78	9.40	
21	8.94	9.26	9.12	9.08	8.80	8.70	13.13	9.01	9.06	9.27	9.85	9.39	
22	8.93	9.25	9.11	9.05	8.81	8.68	13.40	8.92	9.37	9.31	9.87	9.39	
23	8.93	9.25	9.11	9.03	8.86	8.70	13.77	8.90	9.40	9.28	9.77	9.44	
24	8.93	9.25	9.14	8.97	8.90	8.81	13.53	8.90	9.40	9.35	9.68	9.48	
25	9.02	9.25	9.12	8.95	8.91	8.95	12.60	8.89	9.40	9.35	9.68	9.61	
26	9.37	9.46	9.11	8.97	8.85	8.99	12.21	8.95	9.27	9.35	9.53	9.61	
27	9.62	9.53	9.11	8.99	8.83	8.90	11.20	8.95	9.25	9.37	9.49	9.61	
28	9.75	9.52	8.97	8.98	8.84	8.81	10.78	9.24	9.25	9.37	9.65	9.55	
29	9.73	9.52	8.94	8.99	9.01	8.73	10.69	9.31	9.25	9.35		9.50	
30	10.03	9.52	8.95	8.95	9.21	8.77	10.66	9.31	9.25	9.42		9.53	
31		9.52		8.92	9.06		10.67		9.25	9.42		9.66	
Mean	9.20	9.27	9.29	9.12	8.89	8.88	12.62	9.59	9.37	9.28	9.58	9.44	
Max	10.18	9.83	9.52	9.57	9.21	9.17	15.05	11.72	9.82	9.42	9.87	9.67	15.05
Min	8.62	8.99	8.94	8.75	8.75	8.65	9.02	8.89	9.06	8.97	9.39	9.18	8.62
Annual Max Momentary Gage Height	15.06		m. (MSL.) ,				at 12.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	7.49		m. (MSL.) ,			River Bed	6.45		m. (MSL)				
Left Bank Elevation	23.1		m. (MSL.) ,										
Right Bank Elevation	22.57		m. (MSL.) ,			Drainage Area	14233		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.00	69.80	52.00	24.60	22.60	27.80	27.80	147.70	41.00	38.50	48.00	60.20	
2	33.50	53.50	51.50	21.40	23.80	26.60	76.40	163.60	41.00	38.50	47.50	59.60	
3	27.00	49.50	52.00	18.60	23.80	26.60	123.90	178.80	41.00	38.50	46.50	58.40	
4	19.80	42.50	52.00	17.00	22.60	29.00	199.40	204.80	41.00	38.00	45.50	52.50	
5	17.40	40.50	51.50	24.20	20.60	31.50	406.60	194.90	41.00	38.00	48.50	52.00	
6	12.60	40.50	51.50	26.60	19.00	33.50	547.00	117.60	69.20	35.00	48.50	52.00	
7	12.90	35.50	51.50	27.40	19.00	32.50	571.50	49.50	67.40	33.50	47.50	50.50	
8	19.00	28.60	51.50	37.50	23.80	30.20	448.60	40.50	58.40	44.00	48.50	51.00	
9	23.40	29.00	50.50	38.00	24.20	34.50	245.00	38.50	57.80	45.00	54.00	46.00	
10	23.80	28.60	50.50	38.00	19.80	27.00	154.80	50.50	57.80	43.50	56.60	39.00	
11	29.80	31.50	51.00	39.00	19.00	22.60	191.60	54.00	57.80	44.50	56.60	37.00	
12	90.80	32.50	50.50	40.50	17.00	22.20	290.00	52.50	57.80	45.50	56.00	35.00	
13	74.00	31.50	50.50	45.00	19.00	15.80	484.60	52.50	57.80	45.50	56.00	35.00	
14	60.80	31.50	41.00	46.50	29.00	15.40	535.00	52.00	57.80	46.00	56.60	35.50	
15	45.00	30.60	38.50	54.00	29.40	13.80	544.60	29.40	49.00	39.50	59.60	37.00	
16	39.00	29.80	38.00	54.50	27.00	14.70	553.00	27.00	32.50	31.50	56.00	36.50	
17	40.00	30.60	34.00	53.00	26.20	13.50	475.00	28.60	30.20	27.40	52.00	36.50	
18	35.50	27.40	32.00	52.50	21.00	15.80	363.00	28.20	29.80	25.80	49.50	45.50	
19	25.80	26.60	32.50	36.50	17.00	23.80	314.00	28.20	29.80	31.00	55.50	47.50	
20	25.00	32.50	32.50	30.60	18.20	15.00	333.30	27.80	29.40	41.00	66.80	46.00	
21	24.60	39.00	32.00	30.20	19.00	15.00	344.30	27.40	29.40	39.50	71.00	45.50	
22	24.20	38.50	31.50	29.00	19.40	14.40	374.00	23.80	44.50	41.50	72.20	45.50	
23	24.20	38.50	31.50	28.20	21.40	15.00	417.40	23.00	46.00	40.00	66.20	48.00	
24	24.20	38.50	33.00	25.80	23.00	19.40	388.60	23.00	46.00	43.50	60.80	50.00	
25	27.80	38.50	32.00	25.00	23.40	25.00	289.00	22.60	46.00	43.50	60.80	56.60	
26	44.50	49.00	31.50	25.80	21.00	26.60	250.00	25.00	39.50	43.50	52.50	56.60	
27	57.20	52.50	31.50	26.60	20.20	23.00	162.00	25.00	38.50	44.50	50.50	56.60	
28	65.00	52.00	25.80	26.20	20.60	19.40	131.60	38.00	38.50	44.50	59.00	53.50	
29	63.80	52.00	24.60	26.60	27.40	16.20	125.30	41.50	38.50	43.50		51.00	
30	81.80	52.00	25.00	25.00	36.50	17.80	123.20	41.50	38.50	47.00		52.50	
31		52.00		23.80	29.40		123.90		38.50	47.00		59.60	
Total	1127.40	1225.00	1213.40	1017.60	703.30	663.60	9614.40	1857.40	1391.40	1248.20	1548.70	1488.10	23098.50 CMSDAY
Mean	37.58	39.52	40.45	32.83	22.69	22.12	310.14	61.91	44.88	40.26	55.31	48.00	63.28 CMS
Max	90.80	69.80	52.00	54.50	36.50	34.50	571.50	204.80	69.20	47.00	72.20	60.20	571.50 CMS
Min	12.60	26.60	24.60	17.00	17.00	13.50	27.80	22.60	29.40	25.80	45.50	35.00	12.60 CMS
Runoff	97.41	105.84	104.84	87.92	60.77	57.34	803.68	160.48	120.22	107.84	133.81	128.57	1995.71 MCM
Momentary Peak	572.80 CMS. at 15.06 m. (MSL) at 12.00 Hours , on Oct 7 , 2009												
Runoff Yield	4.45 Liters/Second/Square KM.			Momentary Peak Yield			40,245 Liters/Second/Square KM.						

WATER YEAR : 2009

PASAK RIVER BASIN

Lam Sonthi at Ban Tha Yiam , Lop Buri (S.13)

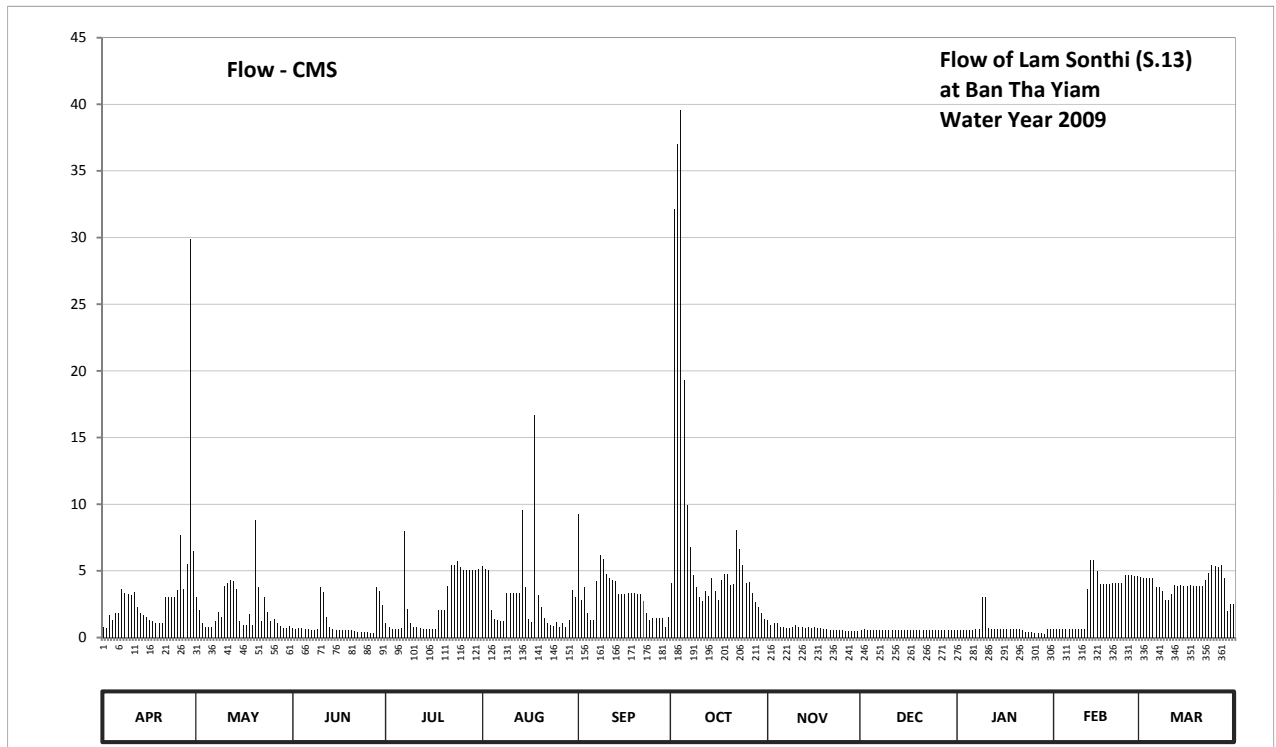
Lat 15 - 20 - 23 N Long 101 - 22 - 30 E

Location : on left bank near Wat Tha Yiam.

	Ban	Tha Yiam	Amphoe	Lam Sonthi	Changwat	Lop Buri
Drainage Area	357	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+80.910	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 15 meters from the top staff gage.				Elevation	+89.650 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1978 to date					
Rating Operation						
Period of Rating	1978 to date					
Rated by Flot	-					
Rated by Current Meter	1978 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site during Nov.20, 98 - Jan.31, 99, discharge estimated by recession equation. Stage-discharge relation defined by 33 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	81.51	81.96	81.48	81.57	82.35	82.87	82.17	81.61	81.43	81.42	81.45	82.24	
2	81.47	81.76	81.45	81.51	82.32	81.91	85.09	81.54	81.46	81.42	81.46	82.23	
3	81.69	81.56	81.49	81.46	82.31	82.10	85.47	81.56	81.41	81.42	81.46	82.23	
4	81.61	81.51	81.49	81.46	81.76	81.71	85.64	81.56	81.41	81.42	81.46	82.23	
5	81.71	81.51	81.46	81.45	81.62	81.61	83.98	81.51	81.41	81.42	81.46	82.23	
6	81.71	81.51	81.46	81.48	81.61	81.61	82.96	81.51	81.42	81.42	81.46	82.11	
7	82.07	81.60	81.43	82.70	81.59	82.19	82.54	81.48	81.42	81.45	81.46	82.11	
8	82.01	81.73	81.43	81.77	81.60	82.46	82.26	81.48	81.42	81.45	81.46	82.04	
9	82.00	81.66	81.44	81.57	82.02	82.42	82.11	81.51	81.42	81.96	81.46	81.91	
10	81.98	82.12	82.10	81.51	82.02	82.27	81.96	81.54	81.42	81.96	81.46	81.91	
11	82.03	82.16	82.03	81.51	82.02	82.23	81.90	81.51	81.41	81.48	81.46	82.00	
12	81.80	82.21	81.66	81.49	82.02	82.21	82.04	81.51	81.42	81.45	82.07	82.14	
13	81.71	82.20	81.51	81.46	82.01	82.19	81.97	81.49	81.42	81.44	82.41	82.12	
14	81.69	82.08	81.46	81.46	82.91	82.00	82.23	81.51	81.41	81.44	82.41	82.13	
15	81.66	81.60	81.43	81.46	82.10	82.00	82.04	81.48	81.41	81.44	82.30	82.12	
16	81.61	81.54	81.41	81.45	81.63	82.00	81.91	81.51	81.41	81.44	82.15	82.12	
17	81.59	81.54	81.41	81.45	81.58	82.02	82.21	81.49	81.41	81.44	82.15	82.13	
18	81.56	81.70	81.42	81.76	83.72	82.01	82.27	81.49	81.41	81.44	82.15	82.12	
19	81.56	81.53	81.42	81.76	81.98	82.01	82.27	81.46	81.41	81.44	82.15	82.12	
20	81.56	82.81	81.41	81.76	81.80	82.00	82.13	81.46	81.41	81.44	82.16	82.12	
21	81.96	82.11	81.40	82.12	81.64	82.00	82.15	81.43	81.42	81.44	82.16	82.12	
22	81.96	81.60	81.36	82.36	81.57	81.90	82.71	81.43	81.42	81.42	82.16	82.21	
23	81.96	81.95	81.36	82.36	81.53	81.71	82.52	81.43	81.42	81.36	82.16	82.28	
24	81.96	81.73	81.35	82.40	81.52	81.61	82.36	81.41	81.42	81.36	82.26	82.36	
25	82.06	81.60	81.35	82.34	81.58	81.64	82.16	81.41	81.42	81.36	82.26	82.35	
26	82.66	81.63	81.33	82.31	81.51	81.64	82.18	81.39	81.42	81.34	82.26	82.34	
27	82.08	81.57	81.33	82.31	81.56	81.64	82.02	81.39	81.42	81.34	82.25	82.36	
28	82.37	81.52	82.11	82.31	81.51	81.64	81.88	81.39	81.42	81.34	82.25	82.23	
29	84.91	81.49	82.05	82.31	81.61	81.51	81.81	81.39	81.42	81.31		81.75	
30	82.50	81.49	81.83	82.31	82.06	81.66	81.71	81.38	81.42	81.45		81.85	
31		81.52		82.32	81.95		81.63		81.42	81.45		81.85	
Mean	81.97	81.76	81.53	81.85	81.90	81.96	82.53	81.48	81.42	81.45	81.92	82.13	
Max	84.91	82.81	82.11	82.70	83.72	82.87	85.64	81.61	81.46	81.96	82.41	82.36	85.64
Min	81.47	81.49	81.33	81.45	81.51	81.51	81.63	81.38	81.41	81.31	81.45	81.75	81.31
Annual Max Momentary Gage Height	86.19		m. (MSL.) ,				at 06.00 Hours , on Oct 4 , 2009						
Zero Gage at Bottom Elevation	80.91		m. (MSL.) ,			River Bed	80.84		m. (MSL)				
Left Bank Elevation		89.70		m. (MSL.) ,									
Right Bank Elevation		89.68		m. (MSL.) ,		Drainage Area	357		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	3.05	0.70	1.10	5.38	9.28	4.10	1.30	0.58	0.55	0.62	4.55	
2	0.68	2.05	0.62	0.80	5.15	2.80	32.12	0.95	0.65	0.55	0.65	4.48	
3	1.70	1.05	0.72	0.65	5.07	3.75	37.05	1.05	0.53	0.55	0.65	4.48	
4	1.30	0.80	0.72	0.65	2.05	1.80	39.60	1.05	0.53	0.55	0.65	4.48	
5	1.80	0.80	0.65	0.62	1.35	1.30	19.30	0.80	0.53	0.55	0.65	4.48	
6	1.80	0.80	0.65	0.70	1.30	1.30	9.95	0.80	0.55	0.55	0.65	3.80	
7	3.60	1.25	0.58	8.00	1.20	4.20	6.80	0.70	0.55	0.62	0.65	3.80	
8	3.30	1.90	0.58	2.10	1.25	6.20	4.70	0.70	0.55	0.62	0.65	3.45	
9	3.25	1.55	0.60	1.10	3.35	5.90	3.80	0.80	0.55	3.05	0.65	2.80	
10	3.15	3.85	3.75	0.80	3.35	4.77	3.05	0.95	0.55	3.05	0.65	2.80	
11	3.40	4.05	3.40	0.80	3.35	4.48	2.75	0.80	0.53	0.70	0.65	3.25	
12	2.25	4.33	1.55	0.72	3.35	4.33	3.45	0.80	0.55	0.62	3.60	3.95	
13	1.80	4.25	0.80	0.65	3.30	4.20	3.10	0.72	0.55	0.60	5.83	3.85	
14	1.70	3.65	0.65	0.65	9.58	3.25	4.48	0.80	0.53	0.60	5.83	3.90	
15	1.55	1.25	0.58	0.65	3.75	3.25	3.45	0.70	0.53	0.60	5.00	3.85	
16	1.30	0.95	0.53	0.62	1.40	3.25	2.80	0.80	0.53	0.60	4.00	3.85	
17	1.20	0.95	0.53	0.62	1.15	3.35	4.33	0.72	0.53	0.60	4.00	3.90	
18	1.05	1.75	0.55	2.05	16.70	3.30	4.77	0.72	0.53	0.60	4.00	3.85	
19	1.05	0.90	0.55	2.05	3.15	3.30	4.77	0.65	0.53	0.60	4.00	3.85	
20	1.05	8.82	0.53	2.05	2.25	3.25	3.90	0.65	0.53	0.60	4.05	3.85	
21	3.05	3.80	0.50	3.85	1.45	3.25	4.00	0.58	0.55	0.60	4.05	3.85	
22	3.05	1.25	0.40	5.45	1.10	2.75	8.07	0.58	0.55	0.55	4.05	4.33	
23	3.05	3.00	0.40	5.45	0.90	1.80	6.65	0.58	0.55	0.40	4.05	4.85	
24	3.05	1.90	0.38	5.75	0.85	1.30	5.45	0.53	0.55	0.40	4.70	5.45	
25	3.55	1.25	0.38	5.30	1.15	1.45	4.05	0.53	0.55	0.40	4.70	5.38	
26	7.70	1.40	0.33	5.07	0.80	1.45	4.15	0.48	0.55	0.35	4.70	5.30	
27	3.65	1.10	0.33	5.07	1.05	1.45	3.35	0.48	0.55	0.35	4.63	5.45	
28	5.53	0.85	3.80	5.07	0.80	1.45	2.65	0.48	0.55	0.35	4.63	4.48	
29	29.88	0.72	3.50	5.07	1.30	0.80	2.30	0.48	0.55	0.27		2.00	
30	6.50	0.72	2.40	5.07	3.55	1.55	1.80	0.45	0.55	0.62		2.50	
31		0.85		5.15	3.00		1.40		0.55	0.62		2.50	
Total	106.74	64.84	31.66	83.68	93.38	94.51	242.14	21.63	16.96	21.67	82.94	123.31	983.46 CMSDAY
Mean	3.56	2.09	1.06	2.70	3.01	3.15	7.81	0.72	0.55	0.70	2.96	3.98	2.69 CMS
Max	29.88	8.82	3.80	8.00	16.70	9.28	39.60	1.30	0.65	3.05	5.83	5.45	39.60 CMS
Min	0.68	0.72	0.33	0.62	0.80	0.80	1.40	0.45	0.53	0.27	0.62	2.00	0.27 CMS
Runoff	9.22	5.60	2.74	7.23	8.07	8.17	20.92	1.87	1.47	1.87	7.17	10.65	84.97 MCM
Momentary Peak	47.85 CMS. at 86.19 m. (MSL.) at 06.00 Hours , on Oct 4 , 2009												
Runoff Yield	7.54 Liters/Second/Square KM.			Momentary Peak Yield			133.947 Liters/Second/Square KM.						

WATER YEAR : 2009

PASAK RIVER BASIN

Lam Sonthi at Ban Tha Ruak , Lop Buri (S.14)

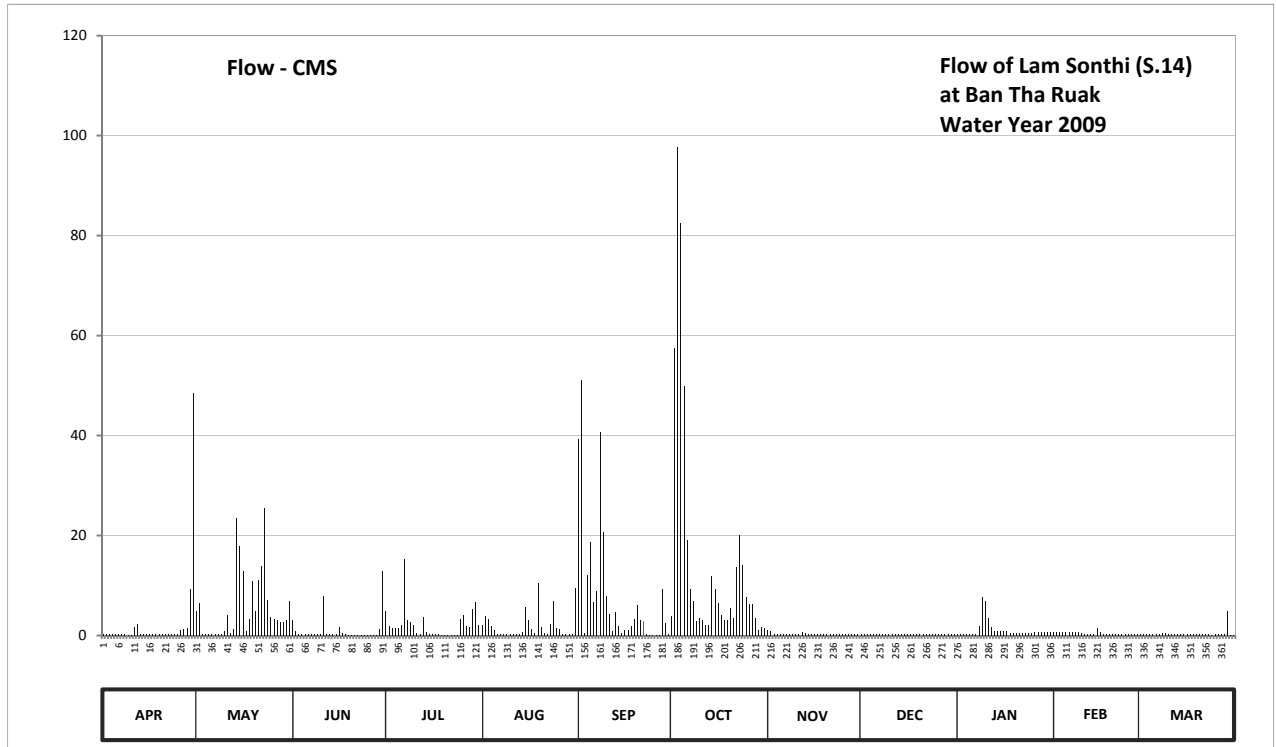
Lat 15 - 13 - 24 N Long 101 - 16 - 52 E

Location : on right bank at the bridge.

	Ban Tha Ruak	Amphoe Chai Badan	Changwat Lop Buri
Drainage Area	1,263 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+52.580 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+63.824 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours		
Basis of Mean Daily Gage Height	Arithmetic means of 3 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	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.01	55.20	54.91	55.18	54.68	58.24	55.05	54.38	54.08	54.08	54.23	54.03	
2	54.00	55.41	54.29	54.65	55.05	58.84	59.11	54.28	54.08	54.08	54.23	54.03	
3	54.00	54.12	54.08	54.48	54.95	54.18	60.48	54.13	54.08	54.08	54.23	54.03	
4	54.00	54.11	54.08	54.48	54.61	56.11	60.02	54.08	54.08	54.08	54.23	54.03	
5	54.00	54.11	54.08	54.51	54.35	56.73	58.78	54.06	54.08	54.08	54.23	54.03	
6	54.00	54.11	54.08	54.71	54.08	55.43	56.78	54.07	54.08	54.08	54.23	54.03	
7	54.00	54.11	54.08	56.42	54.08	55.75	55.78	54.03	54.08	54.08	54.23	54.10	
8	54.00	54.11	54.08	54.91	54.08	58.31	55.48	54.08	54.08	54.64	54.23	54.14	
9	53.99	54.12	54.08	54.81	54.08	56.91	54.84	54.08	54.08	55.58	54.23	54.17	
10	53.99	54.29	54.08	54.68	54.08	55.60	54.98	54.03	54.08	55.48	54.18	54.10	
11	54.57	55.07	55.61	54.18	54.08	55.10	54.88	54.08	54.08	54.98	54.13	54.03	
12	54.73	54.17	54.08	54.13	54.08	54.27	54.68	54.23	54.08	54.58	54.13	54.03	
13	54.02	54.42	54.08	55.01	54.03	55.15	54.68	54.15	54.08	54.28	54.13	54.03	
14	54.02	57.16	54.08	54.20	54.25	54.63	56.08	54.08	54.08	54.28	54.13	54.03	
15	54.03	56.66	54.08	54.13	55.29	54.18	55.78	54.08	54.08	54.28	54.48	54.03	
16	54.03	56.19	54.55	54.13	54.88	54.38	55.42	54.08	54.08	54.28	54.20	54.03	
17	54.03	54.32	54.18	54.13	54.44	54.38	55.08	54.08	54.08	54.28	54.06	54.03	
18	54.03	54.96	54.02	54.07	54.18	54.66	54.88	54.08	54.08	54.18	54.03	54.03	
19	54.03	55.96	53.98	53.98	55.93	54.94	54.88	54.08	54.08	54.18	54.03	54.03	
20	54.03	55.19	53.98	53.98	54.58	55.36	55.28	54.08	54.08	54.18	54.03	54.03	
21	54.03	55.99	53.98	53.98	54.19	54.88	54.98	54.08	54.08	54.18	54.03	54.03	
22	54.03	56.30	53.98	53.98	54.03	54.85	56.28	54.08	54.08	54.18	54.03	54.03	
23	54.03	57.31	53.98	53.98	54.75	54.03	56.87	54.08	54.08	54.18	54.03	54.03	
24	54.03	55.50	53.98	53.98	55.46	53.96	56.32	54.08	54.08	54.18	54.03	53.97	
25	54.04	55.00	53.98	54.96	54.48	53.97	55.58	54.08	54.08	54.18	54.03	54.03	
26	54.37	54.94	53.98	55.08	54.46	53.98	55.38	54.08	54.08	54.22	54.03	54.03	
27	54.46	54.90	53.98	54.61	54.08	53.98	55.38	54.08	54.08	54.23	54.03	54.03	
28	54.51	54.82	53.98	54.58	54.08	55.78	54.98	54.08	54.08	54.23	54.03	54.03	
29	55.78	54.82	54.43	55.24	54.08	54.80	54.34	54.08	54.08	54.23		55.20	
30	58.71	54.89	56.19	55.43	54.08	54.13	54.58	54.08	54.08	54.23		53.98	
31		55.46		54.68	55.82		54.48		54.08	54.23		53.98	
Mean	54.32	55.09	54.23	54.56	54.49	55.25	55.87	54.10	54.08	54.32	54.14	54.08	
Max	58.71	57.31	56.19	56.42	55.93	58.84	60.48	54.38	54.08	55.58	54.48	55.20	60.48
Min	53.99	54.11	53.98	53.98	54.03	53.96	54.34	54.03	54.08	54.08	54.03	53.97	53.96
Annual Max Momentary Gage Height	60.48		m. (MSL.) ,				at 18.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	52.58		m. (MSL.) ,			River Bed	53.29		m. (MSL)				
Left Bank Elevation	63.82		m. (MSL.) ,										
Right Bank Elevation	63.84		m. (MSL.) ,			Drainage Area	1263		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.21	5.00	3.15	4.86	2.04	39.32	3.95	1.14	0.28	0.28	0.69	0.23		
2	0.20	6.47	0.87	1.95	3.95	51.14	57.44	0.84	0.28	0.28	0.69	0.23		
3	0.20	0.36	0.28	1.44	3.35	0.54	97.64	0.39	0.28	0.28	0.69	0.23		
4	0.20	0.33	0.28	1.44	1.83	12.19	82.46	0.28	0.28	0.28	0.69	0.23		
5	0.20	0.33	0.28	1.53	1.05	18.63	49.88	0.26	0.28	0.28	0.69	0.23		
6	0.20	0.33	0.28	2.15	0.28	6.61	19.18	0.27	0.28	0.28	0.69	0.23		
7	0.20	0.33	0.28	15.22	0.28	8.95	9.22	0.23	0.28	0.28	0.69	0.30		
8	0.20	0.33	0.28	3.15	0.28	40.58	6.96	0.28	0.28	1.92	0.69	0.42		
9	0.19	0.36	0.28	2.65	0.28	20.61	2.80	0.28	0.28	7.66	0.69	0.51		
10	0.19	0.87	0.28	2.04	0.28	7.80	3.50	0.23	0.28	6.96	0.54	0.30		
11	1.71	4.09	7.87	0.54	0.28	4.30	3.00	0.28	0.28	3.50	0.39	0.23		
12	2.25	0.51	0.28	0.39	0.28	0.81	2.04	0.69	0.28	1.74	0.39	0.23		
13	0.22	1.26	0.28	3.67	0.23	4.65	2.04	0.45	0.28	0.84	0.39	0.23		
14	0.22	23.48	0.28	0.60	0.75	1.89	11.92	0.28	0.28	0.84	0.39	0.23		
15	0.23	17.86	0.28	0.39	5.63	0.54	9.22	0.28	0.28	0.84	1.44	0.23		
16	0.23	12.91	1.65	0.39	3.00	1.14	6.54	0.28	0.28	0.84	0.60	0.23		
17	0.23	0.96	0.54	0.39	1.32	1.14	4.16	0.28	0.28	0.84	0.26	0.23		
18	0.23	3.40	0.22	0.27	0.54	1.98	3.00	0.28	0.28	0.54	0.23	0.23		
19	0.23	10.84	0.18	0.18	10.57	3.30	3.00	0.28	0.28	0.54	0.23	0.23		
20	0.23	4.93	0.18	0.18	1.74	6.12	5.56	0.28	0.28	0.54	0.23	0.23		
21	0.23	11.11	0.18	0.18	0.57	3.00	3.50	0.28	0.28	0.54	0.23	0.23		
22	0.23	13.90	0.18	0.18	0.23	2.85	13.72	0.28	0.28	0.54	0.23	0.23		
23	0.23	25.43	0.18	0.18	2.35	0.23	20.17	0.28	0.28	0.54	0.23	0.23		
24	0.23	7.10	0.18	0.18	6.82	0.16	14.12	0.28	0.28	0.54	0.23	0.17		
25	0.24	3.60	0.18	3.40	1.44	0.17	7.66	0.28	0.28	0.54	0.23	0.23		
26	1.11	3.30	0.18	4.16	1.38	0.18	6.26	0.28	0.28	0.66	0.23	0.23		
27	1.38	3.10	0.18	1.83	0.28	0.18	6.26	0.28	0.28	0.69	0.23	0.23		
28	1.53	2.70	0.18	1.74	0.28	9.22	3.50	0.28	0.28	0.69	0.23	0.23		
29	9.22	2.70	1.29	5.28	0.28	2.60	1.02	0.28	0.28	0.69		5.00		
30	48.41	3.05	12.91	6.61	0.28	0.39	1.74	0.28	0.28	0.69		0.18		
31		6.82		2.04	9.58		1.44		0.28	0.69		0.18		
Total	70.58	177.76	33.66	69.21	61.45	251.22	462.90	10.38	8.68	36.37	13.14	12.35	1207.70	CMSDAY
Mean	2.35	5.73	1.12	2.23	1.98	8.37	14.93	0.35	0.28	1.17	0.47	0.40	3.31	CMS
Max	48.41	25.43	12.91	15.22	10.57	51.14	97.64	1.14	0.28	7.66	1.44	5.00	97.64	CMS
Min	0.19	0.33	0.18	0.18	0.23	0.16	1.02	0.23	0.28	0.28	0.23	0.17	0.16	CMS
Runoff	6.10	15.36	2.91	5.98	5.31	21.71	40.00	0.90	0.75	3.14	1.14	1.07	104.35	MCM
Momentary Peak	97.64 CMS. at 60.48 m. (MSL) at 18.00 Hours , on Oct 3 , 2009													
Runoff Yield	2.62 Liters/Second/Square KM.			Momentary Peak Yield			77,299 Liters/Second/Square KM.							

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Tha Rua , Phra Nakhon Si Ayutthaya (S.26)

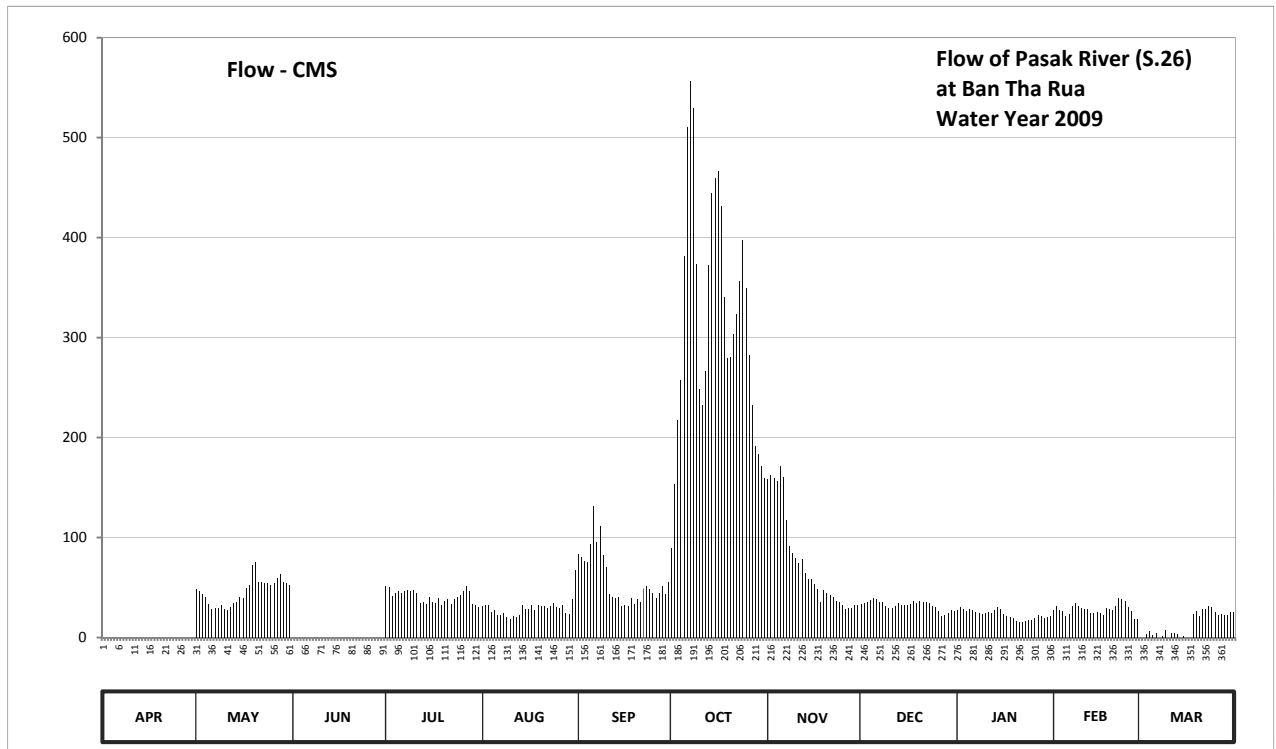
Lat 14 - 33 - 22 N Long 100 - 43 - 38 E

Location : on right bank at Ban Tha Rua

	Ban Tha Rua	Amphoe Tha Rua	Changwat Phra Nakhon Si Ayutthaya
Drainage Area	15,425 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	-1.560 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the automatic gage building	Elevation	+7.860 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1998 , 2009 to date		
Rated by Flot	-		
Rated by Current Meter	1998, 2009 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Pasak Cholasit Dam. Stage-discharge relation defined by 22 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.96	1.26	-0.69	1.30	0.86	1.87	1.98	2.98	0.91	0.76	0.76	-0.03	
2	-0.88	1.20	-0.72	1.28	0.88	1.83	2.91	3.04	0.94	0.83	0.87	0.00	
3	-0.81	1.14	-0.73	1.11	0.89	1.75	3.75	2.99	0.95	0.78	0.76	0.10	
4	-0.90	1.10	-0.79	1.17	0.72	1.74	4.19	2.95	1.01	0.73	0.74	0.22	
5	-1.02	0.92	-1.00	1.21	0.77	2.05	5.39	3.16	1.06	0.78	0.62	0.07	
6	-1.09	0.80	-0.95	1.17	0.64	2.59	6.38	3.01	1.04	0.77	0.67	0.14	
7	-1.11	0.82	-0.98	1.21	0.64	2.08	6.71	2.39	0.97	0.71	0.87	0.00	
8	-1.10	0.82	-0.96	1.22	0.70	2.30	6.52	2.01	0.97	0.69	0.93	0.05	
9	-1.06	0.90	-0.79	1.21	0.58	1.86	5.32	1.89	0.85	0.66	0.85	0.24	
10	-0.95	0.79	-0.77	1.22	0.54	1.65	4.09	1.81	0.82	0.70	0.81	-0.02	
11	-0.97	0.75	-0.95	1.16	0.62	1.15	3.91	1.72	0.82	0.71	0.78	0.16	
12	-1.00	0.84	-0.91	0.93	0.58	1.08	4.29	1.79	0.86	0.70	0.78	0.14	
13	-0.95	0.94	-0.76	0.95	0.64	1.05	5.31	1.56	0.94	0.75	0.68	0.12	
14	-0.94	0.97	-0.79	0.92	0.90	1.10	5.89	1.45	0.89	0.83	0.69	-0.01	
15	-1.01	1.08	-0.92	1.08	0.79	0.87	6.00	1.45	0.89	0.78	0.71	0.04	
16	-1.09	1.06	-0.95	0.97	0.78	0.90	6.06	1.35	0.88	0.66	0.68	-0.02	
17	-1.16	1.27	-0.95	0.93	0.89	0.87	5.79	1.24	0.91	0.61	0.63	-0.09	
18	-1.23	1.34	-0.79	1.07	0.76	1.06	5.02	0.95	0.98	0.59	0.82	0.66	
19	-1.25	1.70	-0.76	0.90	0.89	0.92	4.43	1.23	0.94	0.57	0.78	0.74	
20	-1.35	1.74	-0.88	0.99	0.86	1.03	4.44	1.18	0.98	0.50	0.76	0.62	
21	-1.37	1.39	-0.85	1.04	0.87	0.97	4.67	1.12	0.97	0.47	0.86	0.80	
22	-1.37	1.38	-0.85	0.92	0.82	1.26	4.87	1.10	0.95	0.46	1.06	0.80	
23	-1.35	1.36	-0.84	1.04	0.85	1.31	5.17	1.00	0.94	0.49	1.03	0.86	
24	-1.34	1.36	-0.86	1.10	0.93	1.24	5.52	0.96	0.87	0.51	1.00	0.83	
25	-1.32	1.34	-0.88	1.12	0.84	1.16	5.10	0.88	0.84	0.51	0.84	0.71	
26	-1.28	1.36	-0.88	1.20	0.82	1.06	4.46	0.79	0.74	0.56	0.73	0.64	
27	-1.21	1.46	-0.93	1.30	0.90	1.16	3.91	0.82	0.61	0.63	0.54	0.65	
28	-1.13	1.54	-0.93	1.21	0.69	1.30	3.43	0.82	0.64	0.62	0.54	0.63	
29	-1.08	1.38	-0.91	0.92	0.67	1.14	3.33	0.88	0.70	0.56		0.64	
30	-1.08	1.36	-0.74	0.89	1.04	1.38	3.16	0.90	0.76	0.60		0.71	
31		1.33		0.84	1.60		2.99		0.74	0.61		0.71	
Mean	-1.11	1.18	-0.86	1.08	0.81	1.39	4.68	1.65	0.88	0.65	0.78	0.36	
Max	-0.81	1.74	-0.69	1.30	1.60	2.59	6.71	3.16	1.06	0.83	1.06	0.86	6.71
Min	-1.37	0.75	-1.00	0.84	0.54	0.87	1.98	0.79	0.61	0.46	0.54	-0.09	-1.37
Annual Max Momentary Gage Height	6.76		m. (MSL.) ,				at 14.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	-1.56		m. (MSL.) ,			River Bed	-4.32		m. (MSL)				
Left Bank Elevation			7.13										
Right Bank Elevation		7.11				Drainage Area	15425		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	49.00	0.00	51.00	31.40	83.20	89.80	158.60	33.40	27.40	27.40	0.00	
2	0.00	46.00	0.00	50.00	32.20	80.80	153.70	162.80	34.60	30.20	31.80	0.00	
3	0.00	43.00	0.00	41.50	32.60	76.00	217.50	159.30	35.00	28.20	27.40	3.00	
4	0.00	41.00	0.00	44.50	25.80	75.40	257.10	156.50	37.40	26.20	26.60	6.60	
5	0.00	33.80	0.00	46.50	27.80	94.00	381.80	171.20	39.40	28.20	21.80	2.10	
6	0.00	29.00	0.00	44.50	22.60	131.30	510.20	160.70	38.60	27.80	23.80	4.20	
7	0.00	29.80	0.00	46.50	22.60	95.80	556.40	117.30	35.80	25.40	31.80	0.00	
8	0.00	29.80	0.00	47.00	25.00	111.00	529.80	91.60	35.80	24.60	34.20	1.50	
9	0.00	33.00	0.00	46.50	20.20	82.60	373.40	84.40	31.00	23.40	31.00	7.20	
10	0.00	28.60	0.00	47.00	18.60	70.00	248.10	79.60	29.80	25.00	29.40	0.00	
11	0.00	27.00	0.00	44.00	21.80	43.50	231.90	74.20	29.80	25.40	28.20	4.80	
12	0.00	30.60	0.00	34.20	20.20	40.20	266.10	78.40	31.40	25.00	28.20	4.20	
13	0.00	34.60	0.00	35.00	22.60	39.00	372.20	64.60	34.60	27.00	24.20	3.60	
14	0.00	35.80	0.00	33.80	33.00	41.00	444.70	58.50	32.60	30.20	24.60	0.00	
15	0.00	40.20	0.00	40.20	28.60	31.80	459.00	58.50	32.60	28.20	25.40	1.20	
16	0.00	39.40	0.00	35.80	28.20	33.00	466.80	53.50	32.20	23.40	24.20	0.00	
17	0.00	49.50	0.00	34.20	32.60	31.80	431.70	48.00	33.40	21.40	22.20	0.00	
18	0.00	53.00	0.00	39.80	27.40	39.40	340.20	35.00	36.20	20.60	29.80	23.40	
19	0.00	73.00	0.00	33.00	32.60	33.80	279.00	47.50	34.60	19.80	28.20	26.60	
20	0.00	75.40	0.00	36.60	31.40	38.20	280.00	45.00	36.20	17.00	27.40	21.80	
21	0.00	55.50	0.00	38.60	31.80	35.80	303.00	42.00	35.80	15.80	31.40	29.00	
22	0.00	55.00	0.00	33.80	29.80	49.00	323.70	41.00	35.00	15.40	39.40	29.00	
23	0.00	54.00	0.00	38.60	31.00	51.50	356.70	37.00	34.60	16.60	38.20	31.40	
24	0.00	54.00	0.00	41.00	34.20	48.00	397.40	35.40	31.80	17.40	37.00	30.20	
25	0.00	53.00	0.00	42.00	30.60	44.00	349.00	32.20	30.60	17.40	30.60	25.40	
26	0.00	54.00	0.00	46.00	29.80	39.40	282.00	28.60	26.60	19.40	26.20	22.60	
27	0.00	59.00	0.00	51.00	33.00	44.00	231.90	29.80	21.40	22.20	18.60	23.00	
28	0.00	63.40	0.00	46.50	24.60	51.00	191.40	29.80	22.60	21.80	18.60	22.20	
29	0.00	55.00	0.00	33.80	23.80	43.00	183.40	32.20	25.00	19.40		22.60	
30	0.00	54.00	0.00	32.60	38.60	55.00	171.20	33.00	27.40	21.00		25.40	
31	0.00	52.50	0.00	30.60	67.00		159.30		26.60	21.40		25.40	
Total	0.00	1430.90	0.00	1266.10	911.40	1732.50	9838.40	2246.20	1001.80	712.20	787.60	396.40	20323.50 CMSDAY
Mean	0.00	46.16	0.00	40.84	29.40	57.75	317.37	74.87	32.32	22.97	28.13	12.79	55.68 CMS
Max	0.00	75.40	0.00	51.00	67.00	131.30	556.40	171.20	39.40	30.20	39.40	31.40	556.40 CMS
Min	0.00	27.00	0.00	30.60	18.60	31.80	89.80	28.60	21.40	15.40	18.60	0.00	0.00 CMS
Runoff	0.00	123.63	0.00	109.39	78.75	149.69	850.04	194.07	86.56	61.53	68.05	34.25	1755.95 MCM
Momentary Peak		563.40 CMS. at 6.76 m. (MSL.) at 14.00 Hours , on Oct 7 , 2009											
Runoff Yield		3.61 Liters/Second/Square KM.			Momentary Peak Yield			36.525 Liters/Second/Square KM.					

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Kham Phran , Saraburi (S.28A)

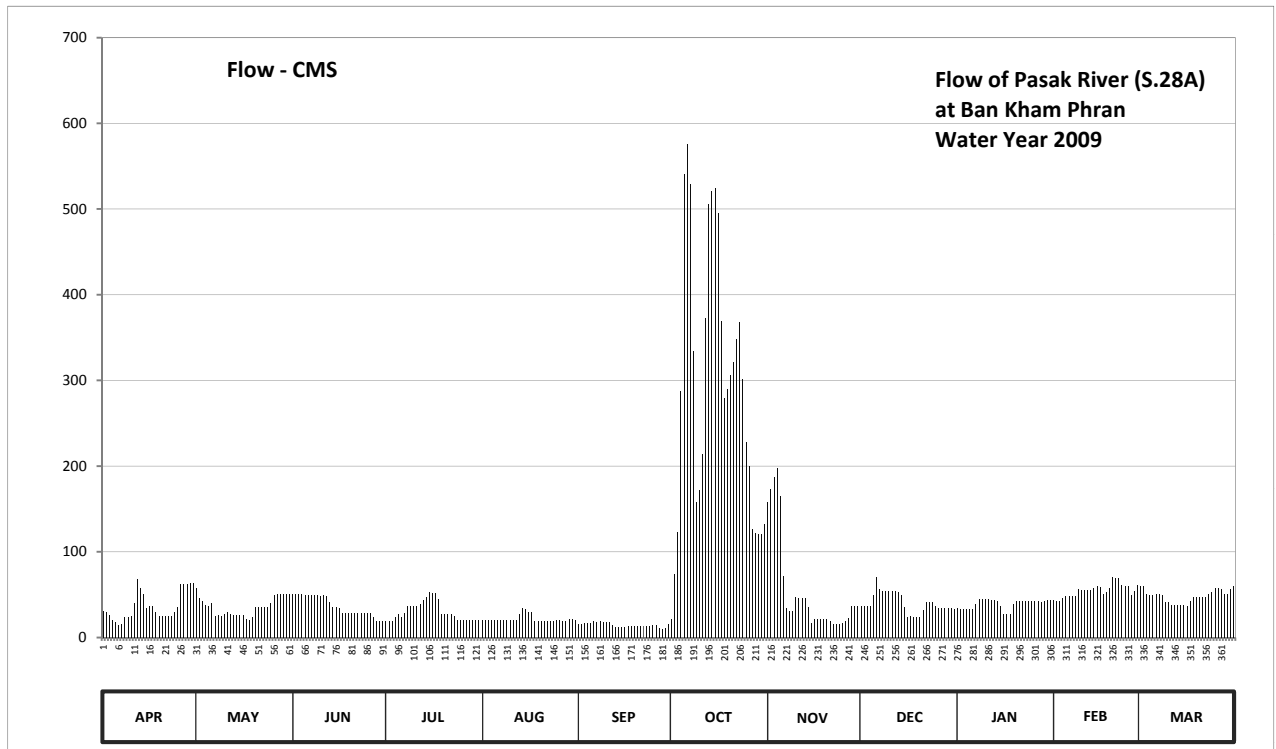
Lat 14 - 49 - 15 N Long 101 - 05 - 09 E

Location : on left bank at Ban Kham Phran

	Ban Kham Phran	Amphoe Wang Muang	Changwat Saraburi
Drainage Area	12,843 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+15.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the automatic gage buiding	Elevation	+31.560 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Pasak Cholasit Dam. Stage-discharge relation defined by 33 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.33	18.20	17.96	16.92	16.98	16.80	17.00	20.99	17.50	17.42	17.73	18.30	
2	17.28	17.82	17.96	16.92	16.98	16.81	18.75	21.32	17.50	17.41	17.72	18.28	
3	17.17	17.68	17.96	16.92	16.98	16.84	20.14	21.62	17.50	17.41	17.71	17.97	
4	16.97	17.53	17.96	17.08	16.98	16.83	23.69	21.85	17.50	17.40	17.80	17.95	
5	16.90	17.51	17.94	17.21	16.98	16.84	26.94	21.13	17.94	17.41	17.90	17.95	
6	16.76	17.62	17.93	17.07	16.98	16.92	27.21	18.68	18.64	17.40	17.89	17.97	
7	16.79	17.11	17.93	17.24	16.97	16.87	26.84	17.44	18.18	17.58	17.89	17.96	
8	17.07	17.15	17.93	17.50	16.97	16.91	24.57	17.32	18.09	17.79	17.90	17.93	
9	17.07	17.11	17.92	17.50	16.97	16.90	20.99	17.32	18.09	17.78	18.15	17.66	
10	17.13	17.18	17.90	17.50	16.97	16.89	21.29	17.85	18.09	17.78	18.14	17.65	
11	17.62	17.26	17.92	17.50	16.97	16.89	22.21	17.82	18.09	17.78	18.13	17.55	
12	18.55	17.20	17.89	17.59	16.96	16.76	25.18	17.81	18.08	17.76	18.13	17.54	
13	18.22	17.15	17.66	17.73	17.18	16.70	26.64	17.81	18.07	17.76	18.11	17.53	
14	17.96	17.14	17.46	17.87	17.42	16.70	26.77	17.45	17.93	17.71	18.21	17.53	
15	17.42	17.14	17.45	18.04	17.39	16.69	26.80	16.85	17.46	17.51	18.27	17.53	
16	17.50	17.14	17.43	18.03	17.28	16.69	26.55	16.99	17.10	17.19	18.25	17.52	
17	17.50	16.99	17.24	18.02	17.28	16.71	25.12	16.99	17.11	17.20	17.98	17.68	
18	17.27	16.96	17.24	17.78	16.92	16.72	23.54	16.99	17.09	17.20	18.07	17.87	
19	17.13	17.06	17.25	17.18	16.92	16.73	23.75	16.99	17.09	17.60	18.21	17.86	
20	17.12	17.45	17.25	17.19	16.93	16.72	24.07	16.99	17.09	17.71	18.62	17.85	
21	17.12	17.45	17.23	17.19	16.93	16.72	24.36	16.91	17.36	17.71	18.61	17.87	
22	17.11	17.45	17.23	17.19	16.93	16.73	24.81	16.79	17.65	17.71	18.59	17.86	
23	17.11	17.45	17.22	17.12	16.94	16.74	25.11	16.79	17.65	17.69	18.32	17.98	
24	17.28	17.46	17.23	16.98	16.94	16.74	23.98	16.79	17.65	17.69	18.30	18.07	
25	17.47	17.61	17.22	16.98	16.95	16.77	22.51	16.85	17.52	17.71	18.29	18.20	
26	18.35	17.95	17.22	16.98	16.95	16.75	21.90	16.91	17.43	17.70	17.95	18.20	
27	18.38	17.97	17.08	16.98	16.94	16.67	20.23	17.03	17.43	17.68	18.09	18.17	
28	18.38	17.96	16.92	16.98	16.94	16.63	20.10	17.50	17.43	17.67	18.31	17.99	
29	18.41	17.96	16.92	16.98	16.99	16.65	20.09	17.50	17.42	17.69		17.98	
30	18.40	17.97	16.92	16.98	16.99	16.82	20.09	17.50	17.42	17.73		18.18	
31		17.96		16.98	16.97		20.38		17.41	17.73		18.28	
Mean	17.49	17.47	17.51	17.29	17.02	16.77	23.28	17.96	17.63	17.60	18.12	17.90	
Max	18.55	18.20	17.96	18.04	17.42	16.92	27.21	21.85	18.64	17.79	18.62	18.30	27.21
Min	16.76	16.96	16.92	16.92	16.92	16.63	17.00	16.79	17.09	17.19	17.71	17.52	16.63
Annual Max Momentary Gage Height		27.22		m. (MSL) ,			at 18.00 Hours , on Oct 5 , 2009						
Zero Gage at Bottom Elevation		15.50		m. (MSL) ,		River Bed	15.11	m. (MSL)					
Left Bank Elevation		31.59		m. (MSL) ,									
Right Bank Elevation		33.50		m. (MSL) ,		Drainage Area	12843	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.40	57.50	50.30	19.10	20.90	15.50	21.50	158.55	36.50	34.10	43.40	60.50	
2	29.90	46.10	50.30	19.10	20.90	15.80	74.00	173.40	36.50	33.80	43.10	59.90	
3	26.60	41.90	50.30	19.10	20.90	16.70	123.10	186.90	36.50	33.80	42.80	50.60	
4	20.60	37.40	50.30	23.90	20.90	16.40	287.00	197.25	36.50	33.50	45.50	50.00	
5	18.50	36.80	49.70	27.80	20.90	16.70	541.00	164.85	49.70	33.80	48.50	50.00	
6	14.30	40.10	49.40	23.60	20.90	19.10	575.30	71.90	70.70	33.50	48.20	50.60	
7	15.20	24.80	49.40	28.70	20.60	17.60	529.10	34.70	56.90	38.90	48.20	50.30	
8	23.60	26.00	49.40	36.50	20.60	18.80	333.70	31.10	54.20	45.20	48.50	49.40	
9	23.60	24.80	49.10	36.50	20.60	18.50	158.55	31.10	54.20	44.90	56.00	41.30	
10	25.40	26.90	48.50	36.50	20.60	18.20	172.05	47.00	54.20	44.90	55.70	41.00	
11	40.10	29.30	49.10	36.50	20.60	18.20	213.45	46.10	54.20	44.90	55.40	38.00	
12	68.00	27.50	48.20	39.20	20.30	14.30	373.10	45.80	53.90	44.30	55.40	37.70	
13	58.10	26.00	41.30	43.40	26.90	12.50	506.10	45.80	53.60	44.30	54.80	37.40	
14	50.30	25.70	35.30	47.60	34.10	12.50	521.05	35.00	49.40	42.80	57.80	37.40	
15	34.10	25.70	35.00	52.70	33.20	12.20	524.50	17.00	35.30	36.80	59.60	37.40	
16	36.50	25.70	34.40	52.40	29.90	12.20	495.75	21.20	24.50	27.20	59.00	37.10	
17	36.50	21.20	28.70	52.10	29.90	12.80	368.90	21.20	24.80	27.50	50.90	41.90	
18	29.60	20.30	28.70	44.90	19.10	13.10	279.50	21.20	24.20	27.50	53.60	47.60	
19	25.40	23.30	29.00	26.90	19.10	13.40	290.00	21.20	24.20	39.50	57.80	47.30	
20	25.10	35.00	29.00	27.20	19.40	13.10	306.00	21.20	24.20	42.80	70.10	47.00	
21	25.10	35.00	28.40	27.20	19.40	13.10	321.30	18.80	32.30	42.80	69.80	47.60	
22	24.80	35.00	28.40	27.20	19.40	13.40	348.10	15.20	41.00	42.80	69.20	47.30	
23	24.80	35.00	28.10	25.10	19.70	13.70	368.20	15.20	41.00	42.20	61.10	50.90	
24	29.90	35.30	28.40	20.90	19.70	13.70	301.50	15.20	41.00	42.20	60.50	53.60	
25	35.60	39.80	28.10	20.90	20.00	14.60	228.00	17.00	37.10	42.80	60.20	57.50	
26	62.00	50.00	28.10	20.90	20.00	14.00	199.50	18.80	34.40	42.50	50.00	57.50	
27	62.90	50.60	23.90	20.90	19.70	11.60	126.70	22.40	34.40	41.90	54.20	56.60	
28	62.90	50.30	19.10	20.90	19.70	10.40	121.50	36.50	34.40	41.60	60.80	51.20	
29	63.80	50.30	19.10	20.90	21.20	11.00	121.10	36.50	34.10	42.20		50.90	
30	63.50	50.60	19.10	20.90	21.20	16.10	121.10	36.50	34.10	43.40		56.90	
31		50.30		20.90	20.60		132.70		33.80	43.40		59.90	
Total	1088.10	1104.20	1106.10	940.40	680.90	439.20	9083.35	1624.55	1251.80	1221.80	1540.10	1502.30	21582.80 CMSDAY
Mean	36.27	35.62	36.87	30.34	21.96	14.64	293.01	54.15	40.38	39.41	55.00	48.46	59.13 CMS
Max	68.00	57.50	50.30	52.70	34.10	19.10	575.30	197.25	70.70	45.20	70.10	60.50	575.30 CMS
Min	14.30	20.30	19.10	19.10	19.10	10.40	21.50	15.20	24.20	27.20	42.80	37.10	10.40 CMS
Runoff	94.01	95.40	95.57	81.25	58.83	37.95	784.80	140.36	108.16	105.56	133.07	129.80	1864.75 MCM
Momentary Peak	576.60 CMS. at 27.22 m. (MSL) at 18.00 Hours , on Oct 5 , 2009												
Runoff Yield	4.60 Liters/Second/Square KM.			Momentary Peak Yield			44.895 Liters/Second/Square KM.						

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

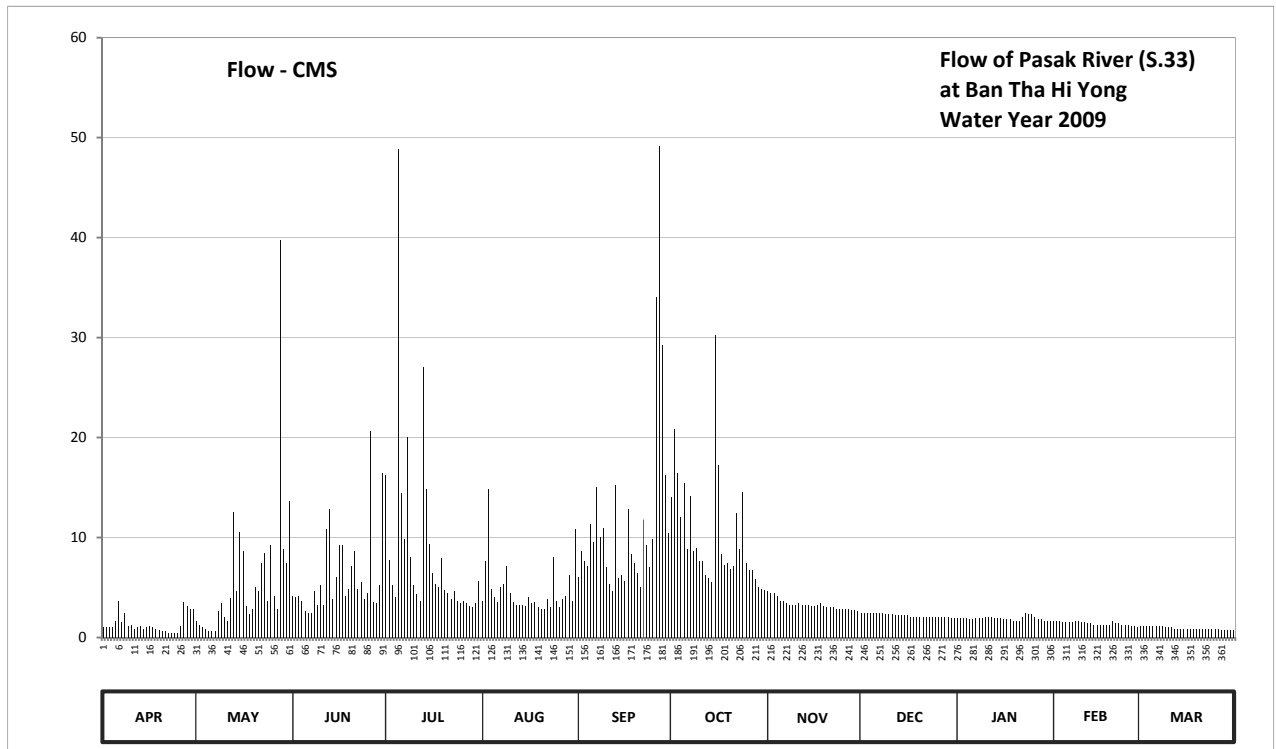
Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

Location : on left bank at Ban Tha Hai Yong

	Ban Tha Hai Yong	Amphoe Lom Kao	Changwat Phetchabun
Drainage Area	521 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+190.090 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+198.009 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 means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.60	190.66	190.91	191.61	190.87	191.04	191.50	190.94	190.75	190.69	190.67	190.61	
2	190.60	190.63	190.90	191.15	191.14	191.21	191.84	190.93	190.75	190.69	190.66	190.61	
3	190.60	190.60	190.91	190.98	191.54	191.14	191.62	190.93	190.74	190.69	190.66	190.61	
4	190.60	190.58	190.86	190.90	190.96	191.11	191.40	190.91	190.74	190.69	190.65	190.61	
5	190.66	190.56	190.76	193.03	190.90	191.37	191.57	190.87	190.74	190.68	190.65	190.61	
6	190.86	190.56	190.74	191.52	190.85	191.27	191.22	190.87	190.74	190.68	190.65	190.61	
7	190.65	190.56	190.74	191.29	190.97	191.55	191.51	190.84	190.74	190.69	190.65	190.61	
8	190.75	190.76	190.94	191.80	190.99	191.30	191.21	190.82	190.74	190.69	190.66	190.61	
9	190.61	190.84	190.83	191.17	191.11	191.35	191.23	190.82	190.73	190.69	190.67	190.60	
10	190.62	190.70	190.98	190.98	190.93	191.10	191.14	190.82	190.73	190.71	190.65	190.60	
11	190.59	190.66	190.83	190.92	190.85	190.99	191.14	190.84	190.73	190.70	190.65	190.60	
12	190.60	190.89	191.34	190.87	190.83	190.94	191.05	190.82	190.72	190.70	190.64	190.59	
13	190.61	191.43	191.44	192.15	190.83	191.56	191.03	190.82	190.72	190.69	190.64	190.59	
14	190.59	190.94	190.88	191.54	190.82	191.03	191.00	190.82	190.72	190.69	190.63	190.59	
15	190.60	191.33	191.04	191.26	190.81	191.05	192.29	190.81	190.72	190.69	190.63	190.59	
16	190.61	191.21	191.25	191.06	190.90	191.01	191.66	190.81	190.72	190.68	190.63	190.59	
17	190.60	190.81	191.25	190.99	190.84	191.44	191.19	190.82	190.71	190.68	190.63	190.59	
18	190.59	190.73	190.91	190.97	190.85	191.19	191.12	190.84	190.71	190.68	190.62	190.59	
19	190.57	190.78	190.96	191.16	190.80	191.13	191.13	190.81	190.71	190.67	190.62	190.59	
20	190.56	190.97	191.11	190.95	190.79	191.06	191.09	190.80	190.71	190.66	190.67	190.58	
21	190.56	190.94	191.21	190.93	190.78	190.97	191.11	190.80	190.71	190.66	190.64	190.58	
22	190.55	191.13	190.96	190.88	190.88	191.39	191.42	190.80	190.70	190.70	190.64	190.58	
23	190.54	191.20	191.00	190.94	190.80	191.25	191.22	190.79	190.70	190.74	190.63	190.58	
24	190.54	190.86	190.88	190.87	191.17	191.10	191.53	190.79	190.70	190.73	190.62	190.58	
25	190.54	191.25	190.93	190.84	190.86	191.29	191.13	190.78	190.70	190.73	190.62	190.58	
26	190.61	190.91	191.83	190.86	190.80	192.44	191.08	190.78	190.70	190.70	190.61	190.58	
27	190.85	190.78	190.85	190.84	190.88	193.04	191.08	190.78	190.70	190.68	190.61	190.57	
28	190.81	192.67	190.84	190.81	190.91	192.25	191.02	190.77	190.70	190.68	190.60	190.57	
29	190.78	191.22	190.98	190.80	191.05	191.61	190.97	190.77	190.70	190.67		190.57	
30	190.78	191.13	191.62	190.84	190.86	191.32	190.96	190.76	190.69	190.67		190.57	
31		191.48		191.01	191.34		190.95		190.69	190.67		190.57	
Mean	190.63	190.96	191.02	191.16	190.93	191.35	191.27	190.83	190.72	190.69	190.64	190.59	
Max	190.86	192.67	191.83	193.03	191.54	193.04	192.29	190.94	190.75	190.74	190.67	190.61	193.04
Min	190.54	190.56	190.74	190.80	190.78	190.94	190.95	190.76	190.69	190.66	190.60	190.57	190.54
Annual Max Momentary Gage Height	195.12	m. (MSL.) ,		at 12.00 Hours , on May 28 , 2009									
Zero Gage at Bottom Elevation	190.09	m. (MSL.) ,		River Bed 190.10 m. (MSL)									
Left Bank Elevation	198.87	m. (MSL.) ,											
Right Bank Elevation	199.86	m. (MSL.) ,		Drainage Area		521	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	1.60	4.15	16.20	3.70	6.10	14.00	4.60	2.50	1.90	1.70	1.10	
2	1.00	1.30	4.00	7.75	7.60	8.65	20.80	4.45	2.50	1.90	1.60	1.10	
3	1.00	1.00	4.15	5.20	14.80	7.60	16.40	4.45	2.40	1.90	1.60	1.10	
4	1.00	0.80	3.60	4.00	4.90	7.15	12.00	4.15	2.40	1.90	1.50	1.10	
5	1.60	0.60	2.60	48.90	4.00	11.40	15.40	3.70	2.40	1.80	1.50	1.10	
6	3.60	0.60	2.40	14.40	3.50	9.55	8.80	3.70	2.40	1.80	1.50	1.10	
7	1.50	0.60	2.40	9.85	5.05	15.00	14.20	3.40	2.40	1.90	1.50	1.10	
8	2.50	2.60	4.60	20.00	5.35	10.00	8.65	3.20	2.40	1.90	1.60	1.10	
9	1.10	3.40	3.30	8.05	7.15	11.00	8.95	3.20	2.30	1.90	1.70	1.00	
10	1.20	2.00	5.20	5.20	4.45	7.00	7.60	3.20	2.30	2.10	1.50	1.00	
11	0.90	1.60	3.30	4.30	3.50	5.35	7.60	3.40	2.30	2.00	1.50	1.00	
12	1.00	3.90	10.80	3.70	3.30	4.60	6.25	3.20	2.20	2.00	1.40	0.90	
13	1.10	12.60	12.80	27.00	3.30	15.20	5.95	3.20	2.20	1.90	1.40	0.90	
14	0.90	4.60	3.80	14.80	3.20	5.95	5.50	3.20	2.20	1.90	1.30	0.90	
15	1.00	10.60	6.10	9.40	3.10	6.25	30.25	3.10	2.20	1.90	1.30	0.90	
16	1.10	8.65	9.25	6.40	4.00	5.65	17.20	3.10	2.20	1.80	1.30	0.90	
17	1.00	3.10	9.25	5.35	3.40	12.80	8.35	3.20	2.10	1.80	1.30	0.90	
18	0.90	2.30	4.15	5.05	3.50	8.35	7.30	3.40	2.10	1.80	1.20	0.90	
19	0.70	2.80	4.90	7.90	3.00	7.45	7.45	3.10	2.10	1.70	1.20	0.90	
20	0.60	5.05	7.15	4.75	2.90	6.40	6.85	3.00	2.10	1.60	1.70	0.80	
21	0.60	4.60	8.65	4.45	2.80	5.05	7.15	3.00	2.10	1.60	1.40	0.80	
22	0.50	7.45	4.90	3.80	3.80	11.80	12.40	3.00	2.00	2.00	1.40	0.80	
23	0.40	8.50	5.50	4.60	3.00	9.25	8.80	2.90	2.00	2.40	1.30	0.80	
24	0.40	3.60	3.80	3.70	8.05	7.00	14.60	2.90	2.00	2.30	1.20	0.80	
25	0.40	9.25	4.45	3.40	3.60	9.85	7.45	2.80	2.00	2.30	1.20	0.80	
26	1.10	4.15	20.60	3.60	3.00	34.00	6.70	2.80	2.00	2.00	1.10	0.80	
27	3.50	2.80	3.50	3.40	3.80	49.20	6.70	2.80	2.00	1.80	1.10	0.70	
28	3.10	39.75	3.40	3.10	4.15	29.25	5.80	2.70	2.00	1.80	1.00	0.70	
29	2.80	8.80	5.20	3.00	6.25	16.20	5.05	2.70	2.00	1.70		0.70	
30	2.80	7.45	16.40	3.40	3.60	10.40	4.90	2.60	1.90	1.70		0.70	
31		13.60		5.65	10.80		4.75		1.90	1.70		0.70	
Total	40.30	179.65	184.30	270.30	146.55	353.45	313.80	98.15	67.60	58.70	39.00	28.10	1779.90 CMSDAY
Mean	1.34	5.80	6.14	8.72	4.73	11.78	10.12	3.27	2.18	1.89	1.39	0.91	4.88 CMS
Max	3.60	39.75	20.60	48.90	14.80	49.20	30.25	4.60	2.50	2.40	1.70	1.10	49.20 CMS
Min	0.40	0.60	2.40	3.00	2.80	4.60	4.75	2.60	1.90	1.60	1.00	0.70	0.40 CMS
Runoff	3.48	15.52	15.92	23.35	12.66	30.54	27.11	8.48	5.84	5.07	3.37	2.43	153.78 MCM
Momentary Peak	113.70 CMS. at 195.12 m. (MSL.) at 12.00 Hours , on May 28 , 2009												
Runoff Yield	9.36 Liters/Second/Square KM.			Momentary Peak Yield			218.234 Liters/Second/Square KM.						

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Non Thong , Phetchabun (S.36)

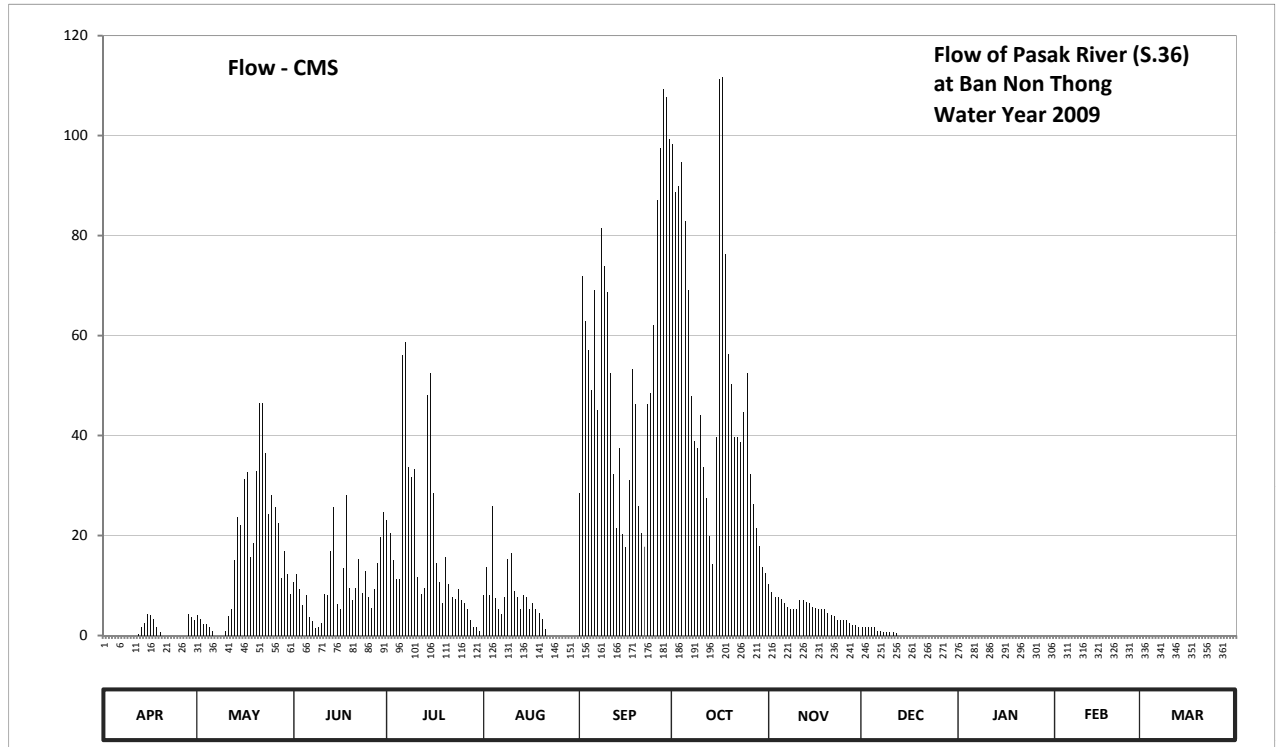
Lat 16 - 43 - 42 N Long 101 - 14 - 32 E

Location : on right bank at Ban Non Thong.

	Ban Non Thong	Amphoe Lom Sak	Changwat Phetchabun
Drainage Area	1,775 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+130.950 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	Elevation	+143.140 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 means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.60	134.80	135.07	135.53	134.96	135.70	137.78	135.05	134.69	134.40	134.47	134.35	
2	134.60	134.76	135.13	135.45	135.19	137.03	137.52	134.99	134.69	134.49	134.50	134.35	
3	134.57	134.71	135.01	135.24	134.96	136.77	137.55	134.95	134.69	134.55	134.50	134.33	
4	134.54	134.71	134.88	135.09	135.62	136.60	137.69	134.95	134.68	134.55	134.50	134.20	
5	134.50	134.69	134.96	135.09	134.94	136.35	137.35	134.93	134.68	134.55	134.50	134.13	
6	134.47	134.64	134.78	136.57	134.85	136.95	136.95	134.90	134.65	134.55	134.55	134.13	
7	134.47	134.58	134.74	136.65	134.81	136.22	136.31	134.87	134.65	134.55	134.58	134.13	
8	134.59	134.55	134.67	135.86	134.95	137.31	136.03	134.85	134.63	134.55	134.55	134.10	
9	134.59	134.55	134.69	135.80	135.25	137.09	135.98	134.85	134.63	134.52	134.55	134.05	
10	134.58	134.65	134.72	135.85	135.30	136.94	136.19	134.85	134.63	134.52	134.55	134.03	
11	134.56	134.79	134.97	135.11	135.00	136.46	135.86	134.92	134.63	134.52	134.55	134.00	
12	134.61	134.85	134.96	134.97	134.95	135.82	135.67	134.92	134.62	134.52	134.52	134.00	
13	134.69	135.24	135.32	135.02	134.85	135.48	135.43	134.91	134.60	134.52	134.52	133.95	
14	134.72	135.55	135.61	136.32	134.96	135.98	135.21	134.90	134.60	134.52	134.55	133.95	
15	134.81	135.50	134.89	136.46	134.95	135.44	136.05	134.87	134.60	134.55	134.55	133.94	
16	134.80	135.79	134.85	135.70	134.85	135.35	138.11	134.86	134.60	134.55	134.55	133.93	
17	134.77	135.83	135.18	135.22	134.90	135.78	138.12	134.85	134.60	134.55	134.55	133.93	
18	134.69	135.27	135.69	135.07	134.85	136.48	137.16	134.85	134.58	134.55	134.55	133.90	
19	134.63	135.38	135.02	134.90	134.82	136.26	136.58	134.85	134.55	134.55	134.50	133.87	
20	134.58	135.84	134.92	135.27	134.77	135.62	136.39	134.82	134.54	134.52	134.50	133.85	
21	134.54	136.27	135.02	135.05	134.66	135.45	136.05	134.80	134.51	134.49	134.50	133.83	
22	134.53	136.27	135.25	134.95	134.54	135.35	136.05	134.79	134.50	134.47	134.50	133.81	
23	134.51	135.95	134.98	134.93	134.44	136.26	136.02	134.75	134.48	134.46	134.48	133.80	
24	134.46	135.57	135.16	135.01	134.35	136.33	136.21	134.75	134.47	134.45	134.43	133.79	
25	134.43	135.69	134.95	134.92	134.33	136.75	136.46	134.75	134.45	134.45	134.42	133.79	
26	134.43	135.61	134.86	134.90	134.32	137.47	135.82	134.75	134.43	134.42	134.41	133.78	
27	134.58	135.51	135.01	134.85	134.30	137.76	135.63	134.72	134.42	134.42	134.40	133.77	
28	134.81	135.10	135.22	134.75	134.28	138.06	135.48	134.70	134.40	134.41	134.39	133.76	
29	134.78	135.32	135.42	134.69	134.32	138.02	135.36	134.70	134.38	134.41		133.76	
30	134.75	135.13	135.58	134.68	134.34	137.81	135.19	134.69	134.37	134.40		133.75	
31		134.97		134.65	134.36		135.14		134.35	134.40		133.75	
Mean	134.61	135.23	135.05	135.31	134.77	136.50	136.37	134.84	134.56	134.50	134.50	133.96	
Max	134.81	136.27	135.69	136.65	135.62	138.06	138.12	135.05	134.69	134.55	134.58	134.35	138.12
Min	134.43	134.55	134.67	134.65	134.28	135.35	135.14	134.69	134.35	134.40	134.39	133.75	133.75
Annual Max Momentary Gage Height	138.37		m. (MSL.) ,				at 18.00 Hours , on Oct 16 , 2009						
Zero Gage at Bottom Elevation	130.95		m. (MSL.) ,			River Bed	131.81		m. (MSL)				
Left Bank Elevation		142.02		m. (MSL.) ,									
Right Bank Elevation		142.27		m. (MSL.) ,		Drainage Area	1775		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	4.00	10.75	23.12	8.00	28.50	98.20	10.25	1.80	0.00	0.00	0.00	
2	0.00	3.20	12.25	20.58	13.75	71.85	88.78	8.75	1.80	0.00	0.00	0.00	
3	0.00	2.20	9.25	15.00	8.00	62.87	89.82	7.75	1.80	0.00	0.00	0.00	
4	0.00	2.20	6.00	11.25	25.97	57.00	94.65	7.75	1.60	0.00	0.00	0.00	
5	0.00	1.80	8.00	11.25	7.50	49.08	82.91	7.25	1.60	0.00	0.00	0.00	
6	0.00	0.80	3.60	56.05	5.25	69.09	69.09	6.50	1.00	0.00	0.00	0.00	
7	0.00	0.00	2.80	58.73	4.25	44.97	47.82	5.75	1.00	0.00	0.00	0.00	
8	0.00	0.00	1.40	33.57	7.75	81.53	38.95	5.25	0.60	0.00	0.00	0.00	
9	0.00	0.00	1.80	31.67	15.25	73.93	37.37	5.25	0.60	0.00	0.00	0.00	
10	0.00	1.00	2.40	33.25	16.50	68.75	44.02	5.25	0.60	0.00	0.00	0.00	
11	0.00	3.80	8.25	11.75	9.00	52.57	33.57	7.00	0.60	0.00	0.00	0.00	
12	0.20	5.25	8.00	8.25	7.75	32.30	27.55	7.00	0.40	0.00	0.00	0.00	
13	1.80	15.00	17.00	9.50	5.25	21.53	19.95	6.75	0.00	0.00	0.00	0.00	
14	2.40	23.75	25.65	48.13	8.00	37.37	14.25	6.50	0.00	0.00	0.00	0.00	
15	4.25	22.17	6.25	52.57	7.75	20.27	39.58	5.75	0.00	0.00	0.00	0.00	
16	4.00	31.35	5.25	28.50	5.25	17.75	111.40	5.50	0.00	0.00	0.00	0.00	
17	3.40	32.62	13.50	14.50	6.50	31.03	111.80	5.25	0.00	0.00	0.00	0.00	
18	1.80	15.75	28.18	10.75	5.25	53.20	76.35	5.25	0.00	0.00	0.00	0.00	
19	0.60	18.50	9.50	6.50	4.50	46.23	56.37	5.25	0.00	0.00	0.00	0.00	
20	0.00	32.93	7.00	15.75	3.40	25.97	50.35	4.50	0.00	0.00	0.00	0.00	
21	0.00	46.55	9.50	10.25	1.20	20.58	39.58	4.00	0.00	0.00	0.00	0.00	
22	0.00	46.55	15.25	7.75	0.00	17.75	39.58	3.80	0.00	0.00	0.00	0.00	
23	0.00	36.42	8.50	7.25	0.00	46.23	38.63	3.00	0.00	0.00	0.00	0.00	
24	0.00	24.38	13.00	9.25	0.00	48.45	44.65	3.00	0.00	0.00	0.00	0.00	
25	0.00	28.18	7.75	7.00	0.00	62.18	52.57	3.00	0.00	0.00	0.00	0.00	
26	0.00	25.65	5.50	6.50	0.00	87.05	32.30	3.00	0.00	0.00	0.00	0.00	
27	0.00	22.48	9.25	5.25	0.00	97.40	26.28	2.40	0.00	0.00	0.00	0.00	
28	4.25	11.50	14.50	3.00	0.00	109.40	21.53	2.00	0.00	0.00	0.00	0.00	
29	3.60	17.00	19.63	1.80	0.00	107.80	18.00	2.00	0.00	0.00	0.00	0.00	
30	3.00	12.25	24.70	1.60	0.00	99.40	13.75	1.80	0.00	0.00	0.00	0.00	
31		8.25		1.00	0.00		12.50		0.00	0.00		0.00	
Total	29.30	495.53	314.41	561.32	176.07	1642.03	1572.15	156.50	13.40	0.00	0.00	0.00	4960.71 CMSDAY
Mean	0.98	15.98	10.48	18.11	5.68	54.73	50.71	5.22	0.43	0.00	0.00	0.00	13.59 CMS
Max	4.25	46.55	28.18	58.73	25.97	109.40	111.80	10.25	1.80	0.00	0.00	0.00	111.80 CMS
Min	0.00	0.00	1.40	1.00	0.00	17.75	12.50	1.80	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.53	42.81	27.17	48.50	15.21	141.87	135.83	13.52	1.16	0.00	0.00	0.00	428.61 MCM
Momentary Peak	121.80 CMS. at 138.37 m. (MSL.) at 18.00 Hours , on Oct 16 , 2009												
Runoff Yield	7.66 Liters/Second/Square KM.			Momentary Peak Yield			68.620 Liters/Second/Square KM.						

WATER YEAR : 2009

PASAK RIVER BASIN

Lam Sonthi at Ban Jong Ko , Lop Buri (S.40)

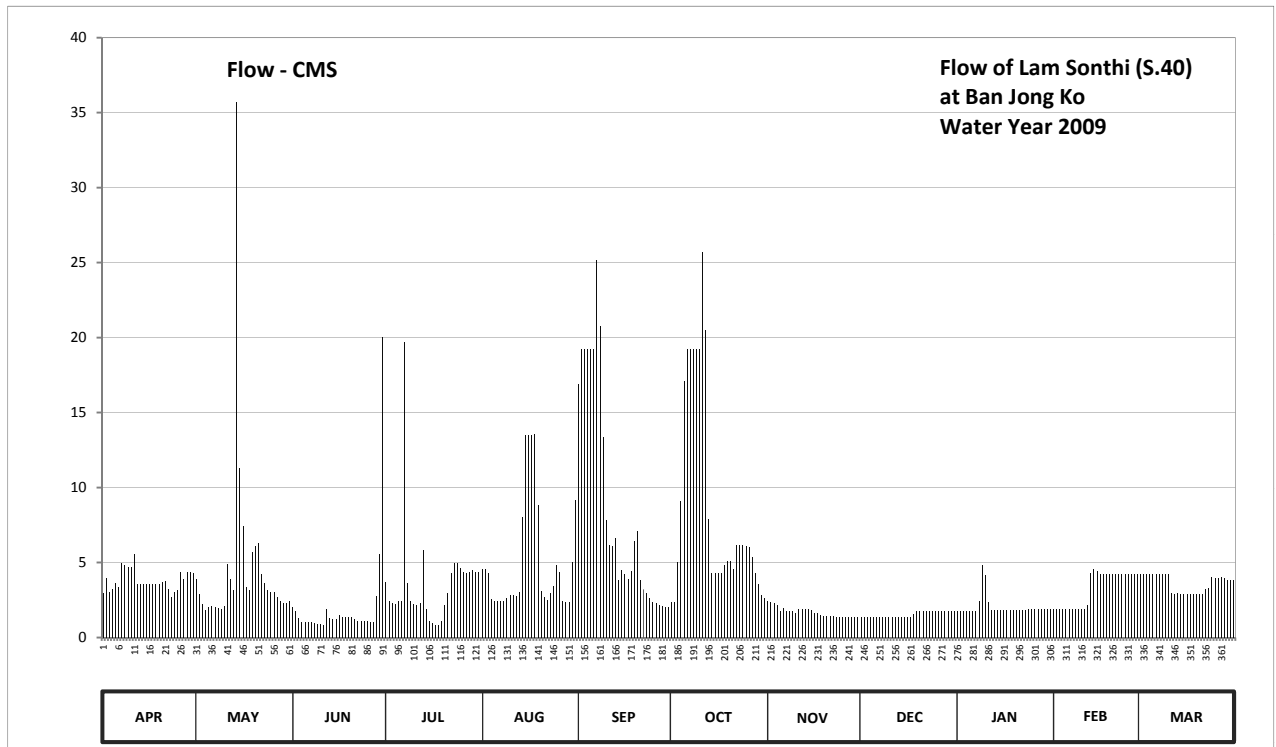
Lat 15 - 15 - 01 N Long 101 - 20 - 41 E

Location : on left bank at the bridge.

	Ban	Jong Ko	Amphoe	Lam Sonthi	Changwat	Lop Buri
Drainage Area	1,132	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+63.620 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+72.304 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.20	65.45	64.87	65.40	65.62	67.50	64.98	65.01	64.66	64.78	64.84	65.53	
2	65.47	65.17	64.78	65.01	65.62	67.73	64.98	64.98	64.66	64.78	64.84	65.53	
3	65.22	64.95	64.63	64.97	65.55	67.73	65.71	64.97	64.66	64.78	64.84	65.53	
4	65.28	64.81	64.54	64.94	65.06	67.73	66.52	64.93	64.66	64.78	64.84	65.53	
5	65.39	64.87	64.54	65.00	65.00	67.73	67.52	64.79	64.66	64.78	64.84	65.53	
6	65.31	64.90	64.54	65.02	65.00	67.73	67.73	64.85	64.66	64.78	64.84	65.53	
7	65.69	64.87	64.54	67.78	65.00	68.24	67.73	64.79	64.66	64.78	64.84	65.53	
8	65.66	64.86	64.52	65.39	65.00	67.87	67.73	64.79	64.66	65.00	64.84	65.53	
9	65.64	64.82	64.50	65.01	65.08	67.13	67.73	64.78	64.66	65.66	64.84	65.53	
10	65.64	64.89	64.50	64.94	65.15	66.27	67.73	64.75	64.66	65.51	64.84	65.53	
11	65.81	65.68	64.48	64.92	65.14	65.93	68.28	64.84	64.66	64.99	64.84	65.20	
12	65.37	65.45	64.82	64.97	65.13	65.92	67.85	64.82	64.66	64.80	64.93	65.17	
13	65.37	65.25	64.64	65.87	65.22	66.02	66.28	64.82	64.66	64.80	65.55	65.18	
14	65.37	68.87	64.60	64.82	66.31	65.44	65.55	64.83	64.66	64.80	65.61	65.17	
15	65.37	66.87	64.62	64.57	67.15	65.60	65.55	64.81	64.66	64.80	65.58	65.17	
16	65.37	66.18	64.70	64.52	67.15	65.54	65.55	64.75	64.66	64.80	65.53	65.17	
17	65.37	65.32	64.66	64.47	67.15	65.45	65.55	64.74	64.66	64.80	65.53	65.17	
18	65.37	65.25	64.66	64.47	67.16	65.58	65.67	64.69	64.72	64.80	65.53	65.16	
19	65.37	65.84	64.65	64.57	66.46	65.98	65.72	64.68	64.78	64.80	65.53	65.16	
20	65.40	65.92	64.65	64.92	65.24	66.12	65.72	64.67	64.78	64.80	65.53	65.16	
21	65.41	65.96	64.62	65.20	65.09	65.44	65.62	64.67	64.78	64.80	65.53	65.16	
22	65.28	65.54	64.57	65.55	65.04	65.27	65.93	64.67	64.78	64.80	65.53	65.28	
23	65.10	65.38	64.57	65.69	65.20	65.18	65.93	64.66	64.78	64.80	65.53	65.30	
24	65.22	65.25	64.56	65.69	65.34	65.08	65.93	64.66	64.78	64.82	65.53	65.49	
25	65.26	65.22	64.56	65.63	65.66	64.99	65.92	64.66	64.78	64.84	65.53	65.47	
26	65.56	65.22	64.54	65.57	65.57	64.96	65.91	64.66	64.78	64.84	65.53	65.47	
27	65.45	65.11	64.54	65.55	65.01	64.93	65.77	64.66	64.78	64.84	65.53	65.48	
28	65.56	65.00	65.12	65.57	64.98	64.90	65.55	64.66	64.78	64.84	65.53	65.47	
29	65.56	64.96	65.81	65.60	64.98	64.88	65.37	64.66	64.78	64.84		65.43	
30	65.55	64.97	67.81	65.57	65.70	64.87	65.14	64.66	64.78	64.84		65.43	
31		65.01		65.57	66.53		65.07		64.78	64.84		65.43	
Mean	65.42	65.41	64.77	65.25	65.59	66.12	66.20	64.76	64.71	64.87	65.24	65.37	
Max	65.81	68.87	67.81	67.78	67.16	68.24	68.28	65.01	64.78	65.66	65.61	65.53	68.87
Min	65.10	64.81	64.48	64.47	64.98	64.87	64.98	64.66	64.66	64.78	64.84	65.16	64.47
Annual Max Momentary Gage Height	68.97		m. (MSL.) ,			at 06.00 Hours ,	on May 14 ,	2009					
Zero Gage at Bottom Elevation	63.62		m. (MSL.) ,			River Bed	68.86	m. (MSL)					
Left Bank Elevation		72.14		m. (MSL.) ,									
Right Bank Elevation		72.14		m. (MSL.) ,		Drainage Area	1132	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	3.90	2.01	3.70	4.60	16.90	2.34	2.43	1.38	1.74	1.92	4.22	
2	3.98	2.91	1.74	2.43	4.60	19.20	2.34	2.34	1.38	1.74	1.92	4.22	
3	3.06	2.25	1.29	2.31	4.30	19.20	5.05	2.31	1.38	1.74	1.92	4.22	
4	3.24	1.83	1.02	2.22	2.58	19.20	9.10	2.19	1.38	1.74	1.92	4.22	
5	3.66	2.01	1.02	2.40	2.40	19.20	17.10	1.77	1.38	1.74	1.92	4.22	
6	3.34	2.10	1.02	2.46	2.40	19.20	19.20	1.95	1.38	1.74	1.92	4.22	
7	4.95	2.01	1.02	19.70	2.40	25.18	19.20	1.77	1.38	1.74	1.92	4.22	
8	4.80	1.98	0.96	3.66	2.40	20.74	19.20	1.77	1.38	2.40	1.92	4.22	
9	4.70	1.86	0.90	2.43	2.64	13.34	19.20	1.74	1.38	4.80	1.92	4.22	
10	4.70	2.07	0.90	2.22	2.85	7.85	19.20	1.65	1.38	4.14	1.92	4.22	
11	5.55	4.90	0.84	2.16	2.82	6.15	25.66	1.92	1.38	2.37	1.92	3.00	
12	3.58	3.90	1.86	2.31	2.79	6.10	20.50	1.86	1.38	1.80	2.19	2.91	
13	3.58	3.15	1.32	5.85	3.06	6.60	7.90	1.86	1.38	1.80	4.30	2.94	
14	3.58	35.70	1.20	1.86	8.05	3.86	4.30	1.89	1.38	1.80	4.55	2.91	
15	3.58	11.26	1.26	1.11	13.50	4.50	4.30	1.83	1.38	1.80	4.42	2.91	
16	3.58	7.40	1.50	0.96	13.50	4.26	4.30	1.65	1.38	1.80	4.22	2.91	
17	3.58	3.38	1.38	0.81	13.50	3.90	4.30	1.62	1.38	1.80	4.22	2.91	
18	3.58	3.15	1.38	0.81	13.58	4.42	4.85	1.47	1.56	1.80	4.22	2.88	
19	3.58	5.70	1.35	1.11	8.80	6.40	5.10	1.44	1.74	1.80	4.22	2.88	
20	3.70	6.10	1.35	2.16	3.12	7.10	5.10	1.41	1.74	1.80	4.22	2.88	
21	3.74	6.30	1.26	3.00	2.67	3.86	4.60	1.41	1.74	1.80	4.22	2.88	
22	3.24	4.26	1.11	4.30	2.52	3.21	6.15	1.41	1.74	1.80	4.22	3.24	
23	2.70	3.62	1.11	4.95	3.00	2.94	6.15	1.38	1.74	1.80	4.22	3.30	
24	3.06	3.15	1.08	4.95	3.46	2.64	6.15	1.38	1.74	1.86	4.22	4.06	
25	3.18	3.06	1.08	4.65	4.80	2.37	6.10	1.38	1.74	1.92	4.22	3.98	
26	4.34	3.06	1.02	4.38	4.38	2.28	6.05	1.38	1.74	1.92	4.22	3.98	
27	3.90	2.73	1.02	4.30	2.43	2.19	5.35	1.38	1.74	1.92	4.22	4.02	
28	4.34	2.40	2.76	4.38	2.34	2.10	4.30	1.38	1.74	1.92	4.22	3.98	
29	4.34	2.28	5.55	4.50	2.34	2.04	3.58	1.38	1.74	1.92		3.82	
30	4.30	2.31	20.02	4.38	5.00	2.01	2.82	1.38	1.74	1.92		3.82	
31		2.43		4.38	9.15		2.61		1.74	1.92		3.82	
Total	114.46	143.16	61.33	110.84	155.98	258.94	272.10	50.73	47.64	62.79	91.44	112.23	1481.64 CMSDAY
Mean	3.82	4.62	2.04	3.58	5.03	8.63	8.78	1.69	1.54	2.03	3.27	3.62	4.06 CMS
Max	5.55	35.70	20.02	19.70	13.58	25.18	25.66	2.43	1.74	4.80	4.55	4.22	35.70 CMS
Min	2.70	1.83	0.84	0.81	2.34	2.01	2.34	1.38	1.38	1.74	1.92	2.88	0.81 CMS
Runoff	9.89	12.37	5.30	9.58	13.48	22.37	23.51	4.38	4.12	5.43	7.90	9.70	128.01 MCM
Momentary Peak	37.70 CMS. at 68.97 m. (MSL) at 06.00 Hours , on May 14 , 2009												
Runoff Yield	3.58 Liters/Second/Square KM.			Momentary Peak Yield				33.292 Liters/Second/Square KM.					

WATER YEAR : 2009**PASAK RIVER BASIN**

Pasak River at Wichian Buri , Phetchabun (S.42)

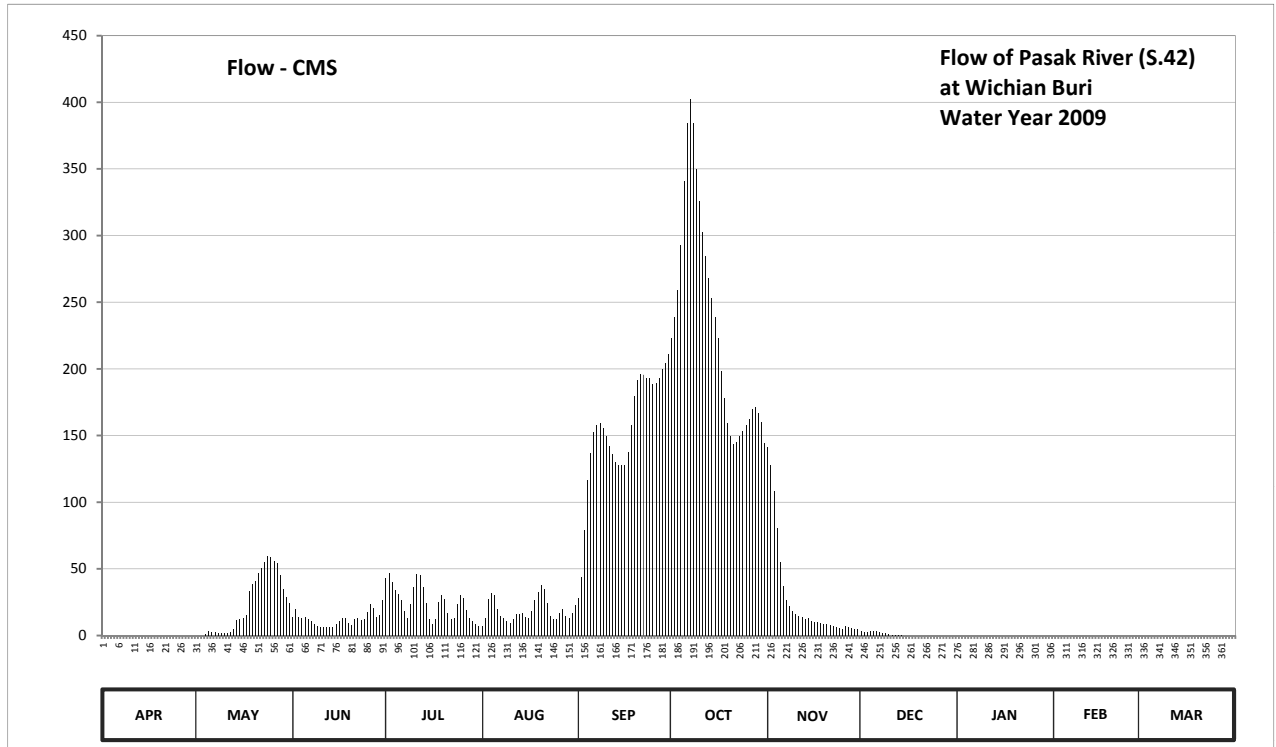
Lat 15 - 34 - 35 N Long 101 - 05 - 28 E

Location : on left bank at the bridge.

	Ban Bo Rang	Amphoe Wichian Buri	Changwat Phetchabun
Drainage Area	7,233 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+51.796 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+63.900 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 means 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	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +59.310 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.35	52.46	56.36	57.87	55.73	57.10	62.53	61.13	55.33	53.80	51.99	51.68	
2	52.36	52.67	56.70	58.04	56.28	57.91	62.69	60.80	55.25	53.79	51.99	51.68	
3	52.36	54.33	56.40	57.72	57.06	59.26	62.84	60.25	55.22	53.72	51.99	51.68	
4	52.36	55.08	56.30	57.42	57.31	60.52	63.06	59.33	55.34	53.60	52.00	51.68	
5	52.35	55.31	56.38	57.26	57.20	61.02	63.25	58.44	55.37	53.40	52.00	51.69	
6	52.34	55.28	56.26	57.04	56.68	61.41	63.38	57.55	55.31	53.34	52.00	51.69	
7	52.33	55.22	56.05	56.61	56.44	61.53	63.43	57.04	55.28	53.27	51.94	51.69	
8	52.33	55.19	55.86	56.34	56.30	61.57	63.38	56.79	55.21	53.24	51.80	51.70	
9	52.33	55.17	55.73	56.87	56.05	61.49	63.28	56.61	55.14	53.27	51.75	51.70	
10	52.33	55.16	55.63	57.50	55.90	61.33	63.20	56.51	55.00	53.25	51.60	51.70	
11	52.33	55.20	55.67	58.00	56.23	61.15	63.11	56.43	54.88	53.20	51.61	51.71	
12	52.38	55.28	55.64	57.97	56.52	60.99	63.01	56.36	54.77	53.13	51.66	51.71	
13	52.41	55.48	55.61	57.53	56.51	60.84	62.90	56.24	54.68	53.09	51.67	51.71	
14	52.43	56.16	55.64	56.92	56.54	60.80	62.80	56.30	54.64	52.95	51.67	51.71	
15	52.43	56.26	55.89	56.25	56.38	60.80	62.69	56.10	54.60	52.93	51.66	51.72	
16	52.37	56.29	56.09	55.88	56.33	60.80	62.53	56.01	54.56	52.97	51.64	51.72	
17	52.33	56.45	56.33	56.26	56.61	61.03	62.25	55.99	54.52	53.01	51.63	51.72	
18	52.32	57.36	56.33	56.94	57.03	61.54	61.94	55.91	54.45	53.01	51.63	51.72	
19	52.32	57.62	55.94	57.21	57.34	61.96	61.57	55.84	54.39	53.01	51.64	51.73	
20	52.32	57.74	55.76	57.08	57.59	62.16	61.33	55.82	54.33	52.61	51.66	51.73	
21	52.32	58.04	56.24	56.54	57.44	62.23	61.18	55.79	54.29	52.60	51.66	51.73	
22	52.31	58.23	56.33	56.24	56.93	62.22	61.22	55.74	54.26	52.60	51.66	51.73	
23	52.31	58.44	56.18	56.34	56.44	62.18	61.33	55.67	54.21	52.60	51.66	51.73	
24	52.31	58.62	56.26	56.87	56.26	62.18	61.43	55.58	54.13	52.59	51.67	51.73	
25	52.19	58.59	56.57	57.22	56.20	62.11	61.53	55.45	54.06	52.55	51.67	51.73	
26	52.07	58.50	56.89	57.10	56.55	62.12	61.63	55.71	53.98	52.48	51.67	51.74	
27	52.07	58.41	56.73	56.65	56.69	62.19	61.77	55.60	53.91	52.19	51.67	51.74	
28	52.09	57.98	56.36	56.32	56.44	62.27	61.80	55.52	53.87	51.97	51.68	51.74	
29	52.37	57.43	56.48	56.10	56.34	62.33	61.72	55.49	53.85	51.97		51.74	
30	52.42	57.16	57.04	55.83	56.55	62.41	61.58	55.47	53.82	51.98		51.74	
31		56.92		55.73	56.85		61.20		53.80	51.99		51.74	
Mean	52.32	56.39	56.19	56.89	56.60	61.25	62.31	56.72	54.60	52.91	51.75	51.71	
Max	52.43	58.62	57.04	58.04	57.59	62.41	63.43	61.13	55.37	53.80	52.00	51.74	63.43
Min	52.07	52.46	55.61	55.73	55.73	57.10	61.18	55.45	53.80	51.97	51.60	51.68	51.60
Annual Max Momentary Gage Height	63.43		m. (MSL.) ,				at 03.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	51.80		m. (MSL.) ,			River Bed	52.75	m. (MSL)					
Left Bank Elevation	60.07		m. (MSL.) ,										
Right Bank Elevation	59.30		m. (MSL.) ,			Drainage Area	7233	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	13.60	43.40	7.30	28.00	223.00	141.20	3.30	0.00	0.00	0.00	
2	0.00	0.00	20.00	46.80	12.80	44.20	239.00	128.00	2.50	0.00	0.00	0.00	
3	0.00	0.00	14.00	40.40	27.20	78.80	259.00	108.50	2.20	0.00	0.00	0.00	
4	0.00	1.40	13.00	34.40	32.20	116.80	293.20	80.90	3.40	0.00	0.00	0.00	
5	0.00	3.10	13.80	31.20	30.00	136.80	341.00	54.80	3.70	0.00	0.00	0.00	
6	0.00	2.80	12.60	26.80	19.60	152.40	384.80	37.00	3.10	0.00	0.00	0.00	
7	0.00	2.20	10.50	18.20	14.80	157.50	402.80	26.80	2.80	0.00	0.00	0.00	
8	0.00	1.95	8.60	13.40	13.00	159.50	384.80	21.80	2.10	0.00	0.00	0.00	
9	0.00	1.85	7.30	23.40	10.50	155.60	350.00	18.20	1.70	0.00	0.00	0.00	
10	0.00	1.80	6.30	36.00	9.00	149.20	326.00	16.20	1.00	0.00	0.00	0.00	
11	0.00	2.00	6.70	46.00	12.30	142.00	302.60	14.60	0.56	0.00	0.00	0.00	
12	0.00	2.80	6.40	45.40	16.40	135.60	284.70	13.60	0.34	0.00	0.00	0.00	
13	0.00	4.80	6.10	36.60	16.20	129.60	268.00	12.40	0.16	0.00	0.00	0.00	
14	0.00	11.60	6.40	24.40	16.80	128.00	253.00	13.00	0.08	0.00	0.00	0.00	
15	0.00	12.60	8.90	12.50	13.80	128.00	239.00	11.00	0.00	0.00	0.00	0.00	
16	0.00	12.90	10.90	8.80	13.30	128.00	223.00	10.10	0.00	0.00	0.00	0.00	
17	0.00	15.00	13.30	12.60	18.20	137.20	198.00	9.90	0.00	0.00	0.00	0.00	
18	0.00	33.20	13.30	24.80	26.60	158.00	178.40	9.10	0.00	0.00	0.00	0.00	
19	0.00	38.40	9.40	30.20	32.80	179.60	159.50	8.40	0.00	0.00	0.00	0.00	
20	0.00	40.80	7.60	27.60	37.80	191.60	149.20	8.20	0.00	0.00	0.00	0.00	
21	0.00	46.80	12.40	16.80	34.80	196.40	143.20	7.90	0.00	0.00	0.00	0.00	
22	0.00	50.60	13.30	12.40	24.60	195.60	144.80	7.40	0.00	0.00	0.00	0.00	
23	0.00	54.80	11.80	13.40	14.80	192.80	149.20	6.70	0.00	0.00	0.00	0.00	
24	0.00	59.60	12.60	23.40	12.60	192.80	153.20	5.80	0.00	0.00	0.00	0.00	
25	0.00	58.70	17.40	30.40	12.00	188.60	157.50	4.50	0.00	0.00	0.00	0.00	
26	0.00	56.00	23.80	28.00	17.00	189.20	162.50	7.10	0.00	0.00	0.00	0.00	
27	0.00	54.20	20.60	19.00	19.80	193.40	169.50	6.00	0.00	0.00	0.00	0.00	
28	0.00	45.60	13.60	13.20	14.80	199.60	171.00	5.20	0.00	0.00	0.00	0.00	
29	0.00	34.60	15.60	11.00	13.40	204.40	167.00	4.90	0.00	0.00	0.00	0.00	
30	0.00	29.20	26.80	8.30	17.00	211.00	160.00	4.70	0.00	0.00	0.00	0.00	
31	0.00	24.40	7.30	23.00	23.00	144.00	144.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	703.70	376.60	766.10	584.40	4600.20	7180.90	803.90	26.94	0.00	0.00	0.00	15042.74 CMSDAY
Mean	0.00	22.70	12.55	24.71	18.85	153.34	231.64	26.80	0.87	0.00	0.00	0.00	41.21 CMS
Max	0.00	59.60	26.80	46.80	37.80	211.00	402.80	141.20	3.70	0.00	0.00	0.00	402.80 CMS
Min	0.00	0.00	6.10	7.30	7.30	28.00	143.20	4.50	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	60.80	32.54	66.19	50.49	397.46	620.43	69.46	2.33	0.00	0.00	0.00	1299.69 MCM
Momentary Peak	402.80 CMS. at 63.43 m. (MSL) at 03.00 Hours , on Oct 7 , 2009												
Runoff Yield	5.70 Liters/Second/Square KM.			Momentary Peak Yield			55,689 Liters/Second/Square KM.						

WATER YEAR : 2009

THA CHIN BASIN

Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)

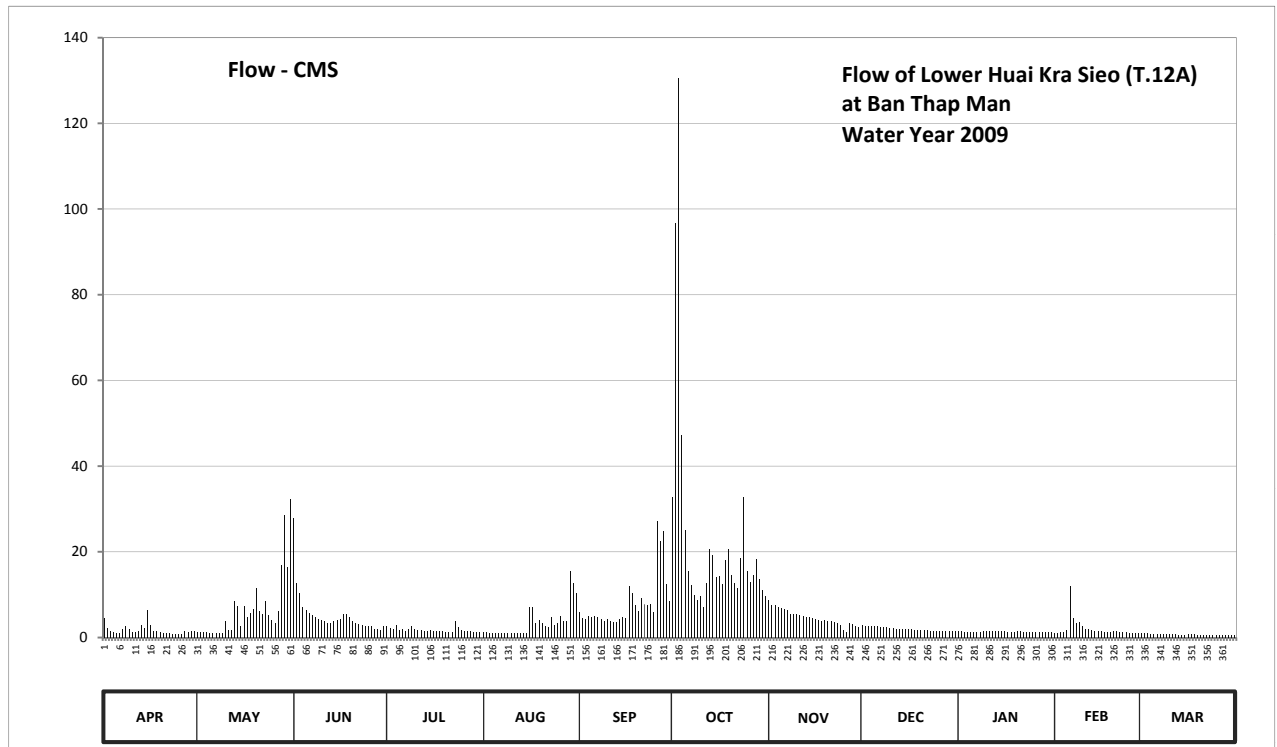
Lat 15 - 00 - 45 N Long 99 - 37 - 12 E

Location : on left bank at Ban Thap Man.

	Ban	Thap Man	Amphoe	Dan Chang	Changwat	Suphan Buri
Drainage Area	686	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+99.040	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the bridge				Elevation	+103.545 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Record very good. Stage-discharge relation defined by 28 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.70	98.47	99.58	98.58	98.45	98.79	99.71	98.95	98.59	98.48	98.43	98.41	
2	98.55	98.45	99.11	98.55	98.44	98.70	100.87	98.90	98.58	98.48	98.42	98.40	
3	98.50	98.44	99.02	98.54	98.43	98.68	101.35	98.90	98.57	98.47	98.45	98.39	
4	98.46	98.44	98.88	98.60	98.43	98.73	100.02	98.87	98.57	98.47	98.45	98.38	
5	98.43	98.43	98.83	98.52	98.41	98.72	99.51	98.86	98.57	98.47	98.51	98.37	
6	98.42	98.43	98.78	98.53	98.43	98.73	99.22	98.85	98.57	98.47	99.08	98.37	
7	98.53	98.43	98.75	98.49	98.42	98.71	99.09	98.82	98.56	98.47	98.70	98.36	
8	98.57	98.42	98.72	98.53	98.42	98.68	99.00	98.76	98.56	98.47	98.62	98.36	
9	98.53	98.43	98.69	98.57	98.43	98.66	98.95	98.76	98.56	98.50	98.64	98.35	
10	98.47	98.66	98.67	98.54	98.42	98.69	98.99	98.77	98.55	98.50	98.57	98.35	
11	98.44	98.51	98.65	98.52	98.42	98.65	98.87	98.75	98.55	98.49	98.54	98.34	
12	98.49	98.51	98.63	98.51	98.42	98.64	99.11	98.73	98.54	98.49	98.53	98.34	
13	98.59	98.94	98.63	98.49	98.41	98.64	99.39	98.72	98.54	98.49	98.52	98.33	
14	98.55	98.89	98.65	98.50	98.42	98.69	99.34	98.71	98.54	98.48	98.50	98.33	
15	98.82	98.58	98.67	98.51	98.43	98.71	99.16	98.70	98.53	98.48	98.48	98.33	
16	98.59	98.89	98.68	98.50	98.87	98.70	99.17	98.69	98.53	98.48	98.48	98.34	
17	98.50	98.72	98.76	98.49	98.87	99.08	99.10	98.67	98.53	98.47	98.47	98.34	
18	98.48	98.78	98.77	98.48	98.63	99.02	99.30	98.66	98.52	98.47	98.46	98.34	
19	98.46	98.84	98.71	98.50	98.67	98.90	99.39	98.67	98.52	98.47	98.46	98.33	
20	98.43	99.06	98.66	98.47	98.62	98.81	99.18	98.66	98.52	98.48	98.50	98.33	
21	98.40	98.81	98.63	98.47	98.58	98.97	99.11	98.65	98.51	98.48	98.48	98.33	
22	98.39	98.76	98.61	98.47	98.56	98.91	99.06	98.64	98.51	98.47	98.46	98.33	
23	98.38	98.94	98.59	98.65	98.72	98.90	99.32	98.63	98.50	98.47	98.45	98.32	
24	98.37	98.75	98.57	98.56	98.60	98.91	99.71	98.59	98.50	98.46	98.44	98.32	
25	98.36	98.67	98.57	98.51	98.62	98.80	99.22	98.51	98.50	98.45	98.43	98.32	
26	98.35	98.63	98.57	98.49	98.74	99.56	99.12	98.47	98.49	98.44	98.42	98.32	
27	98.50	98.81	98.54	98.49	98.66	99.44	99.18	98.62	98.49	98.44	98.42	98.32	
28	98.47	99.26	98.53	98.48	98.66	99.50	99.31	98.61	98.49	98.44	98.41	98.31	
29	98.48	99.60	98.52	98.47	99.22	99.10	99.15	98.58	98.48	98.44		98.31	
30	98.50	99.25	98.58	98.47	99.11	98.94	99.04	98.56	98.48	98.44		98.31	
31		99.70		98.46	99.02		98.99		98.48	98.44		98.31	
Mean	98.49	98.76	98.72	98.51	98.60	98.87	99.35	98.71	98.53	98.47	98.51	98.34	
Max	98.82	99.70	99.58	98.65	99.22	99.56	101.35	98.95	98.59	98.50	99.08	98.41	101.35
Min	98.35	98.42	98.52	98.46	98.41	98.64	98.87	98.47	98.48	98.44	98.41	98.31	98.31
Annual Max Momentary Gage Height	101.69		m. (MSL.) ,				at 06.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	99.04		m. (MSL.) ,			River Bed	98.13	m. (MSL)					
Left Bank Elevation	103.24		m. (MSL.) ,										
Right Bank Elevation	103.26		m. (MSL.) ,			Drainage Area	686	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.50	1.35	27.84	2.70	1.25	5.85	32.86	8.75	2.85	1.40	1.15	1.05	
2	2.25	1.25	12.75	2.25	1.20	4.50	96.83	7.50	2.70	1.40	1.10	1.00	
3	1.50	1.20	10.50	2.10	1.15	4.20	130.70	7.50	2.55	1.35	1.25	0.95	
4	1.30	1.20	7.20	3.00	1.15	4.95	47.22	7.05	2.55	1.35	1.25	0.90	
5	1.15	1.15	6.45	1.80	1.05	4.80	25.18	6.90	2.55	1.35	1.65	0.85	
6	1.10	1.15	5.70	1.95	1.15	4.95	15.60	6.75	2.55	1.35	12.00	0.85	
7	1.95	1.15	5.25	1.45	1.10	4.65	12.25	6.30	2.40	1.35	4.50	0.80	
8	2.55	1.10	4.80	1.95	1.10	4.20	10.00	5.40	2.40	1.35	3.30	0.80	
9	1.95	1.15	4.35	2.55	1.15	3.90	8.75	5.40	2.40	1.50	3.60	0.75	
10	1.35	3.90	4.05	2.10	1.10	4.35	9.75	5.55	2.25	1.50	2.55	0.75	
11	1.20	1.65	3.75	1.80	1.10	3.75	7.05	5.25	2.25	1.45	2.10	0.70	
12	1.45	1.65	3.45	1.65	1.10	3.60	12.75	4.95	2.10	1.45	1.95	0.70	
13	2.85	8.50	3.45	1.45	1.05	3.60	20.70	4.80	2.10	1.45	1.80	0.65	
14	2.25	7.35	3.75	1.50	1.10	4.35	19.20	4.65	2.10	1.40	1.50	0.65	
15	6.30	2.70	4.05	1.65	1.15	4.65	14.00	4.50	1.95	1.40	1.40	0.65	
16	2.85	7.35	4.20	1.50	7.05	4.50	14.25	4.35	1.95	1.40	1.40	0.70	
17	1.50	4.80	5.40	1.45	7.05	12.00	12.50	4.05	1.95	1.35	1.35	0.70	
18	1.40	5.70	5.55	1.40	3.45	10.50	18.00	3.90	1.80	1.35	1.30	0.70	
19	1.30	6.60	4.65	1.50	4.05	7.50	20.70	4.05	1.80	1.35	1.30	0.65	
20	1.15	11.50	3.90	1.35	3.30	6.15	14.50	3.90	1.80	1.40	1.50	0.65	
21	1.00	6.15	3.45	1.35	2.70	9.25	12.75	3.75	1.65	1.40	1.40	0.65	
22	0.95	5.40	3.15	1.35	2.40	7.75	11.50	3.60	1.65	1.35	1.30	0.65	
23	0.90	8.50	2.85	3.75	4.80	7.50	18.60	3.45	1.50	1.35	1.25	0.60	
24	0.85	5.25	2.55	2.40	3.00	7.75	32.86	2.85	1.50	1.30	1.20	0.60	
25	0.80	4.05	2.55	1.65	3.30	6.00	15.60	1.65	1.50	1.25	1.15	0.60	
26	0.75	3.45	2.55	1.45	5.10	27.08	13.00	1.35	1.45	1.20	1.10	0.60	
27	1.50	6.15	2.10	1.45	3.90	22.52	14.50	3.30	1.45	1.20	1.10	0.60	
28	1.35	16.80	1.95	1.40	3.90	24.80	18.30	3.15	1.45	1.20	1.05	0.55	
29	1.40	28.60	1.80	1.35	15.60	12.50	13.75	2.70	1.40	1.20		0.55	
30	1.50	16.50	2.70	1.35	12.75	8.50	11.00	2.40	1.40	1.20		0.55	
31		32.40		1.30	10.50		9.75		1.40	1.20		0.55	
Total	52.85	205.65	156.69	55.90	109.75	240.60	714.40	139.70	61.35	41.75	57.50	21.95	1858.09 CMSDAY
Mean	1.76	6.63	5.22	1.80	3.54	8.02	23.05	4.66	1.98	1.35	2.05	0.71	5.09 CMS
Max	6.30	32.40	27.84	3.75	15.60	27.08	130.70	8.75	2.85	1.50	12.00	1.05	130.70 CMS
Min	0.75	1.10	1.80	1.30	1.05	3.60	7.05	1.35	1.40	1.20	1.05	0.55	0.55 CMS
Runoff	4.57	17.77	13.54	4.83	9.48	20.79	61.72	12.07	5.30	3.61	4.97	1.90	160.54 MCM
Momentary Peak	156.54 CMS. at 101.69 m. (MSL.) at 06.00 Hours , on Oct 3 , 2009												
Runoff Yield	7.42 Liters/Second/Square KM.			Momentary Peak Yield			228.030 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Lum Sum , Kanchanaburi (K.10)

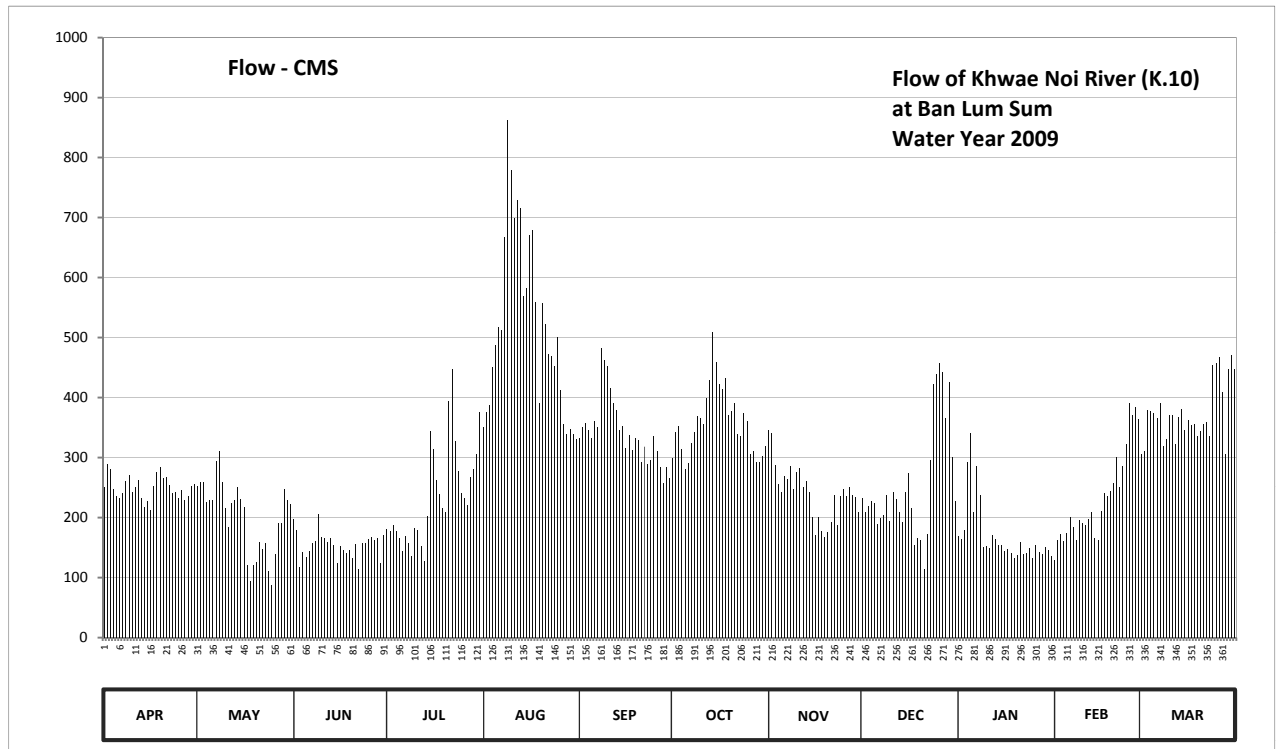
Lat 14 - 05 - 38 N Long 99 - 10 - 40 E

Location : on left bank about 100 meters upstream from Ban Lum Sum railway station

	Ban Lum Sum	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	7,008 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+30.400 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+52.057 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1965 to date		
Rating Operation			
Period of Rating	1965 to date		
Rated by Flot	-		
Rated by Current Meter	1965 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 31 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.99	34.02	33.42	33.25	34.99	34.82	34.47	34.94	33.81	33.11	32.63	34.54	
2	34.38	34.08	33.22	33.20	35.24	34.99	34.92	34.89	33.56	33.06	33.03	34.59	
3	34.29	34.08	32.50	33.31	35.36	35.06	35.02	34.36	33.66	33.22	33.15	35.27	
4	33.97	33.74	32.80	33.21	35.93	34.95	34.63	34.05	33.75	34.41	33.01	35.26	
5	33.84	33.77	32.71	33.07	36.26	34.81	34.30	33.91	33.73	34.89	33.16	35.23	
6	33.82	33.78	32.83	32.82	36.54	35.09	34.40	34.18	33.33	33.56	33.47	35.15	
7	33.89	34.43	32.99	33.12	36.49	34.99	34.73	34.13	33.45	34.34	33.28	35.38	
8	34.09	34.60	33.02	32.99	37.82	36.22	34.92	34.35	33.50	33.87	33.03	34.67	
9	34.20	34.08	33.52	32.73	39.45	36.04	35.18	33.96	33.86	32.91	33.41	34.80	
10	33.92	33.63	33.10	33.26	38.76	35.94	35.14	34.24	33.40	32.93	33.36	35.19	
11	34.00	33.28	33.08	33.22	38.09	35.61	35.05	34.31	33.92	32.89	33.32	35.20	
12	34.12	33.72	33.00	32.93	38.35	35.39	35.47	34.00	33.79	33.13	33.42	34.71	
13	33.82	33.77	33.07	32.62	38.23	35.27	35.74	34.10	33.56	33.06	33.56	35.17	
14	33.65	33.99	32.95	33.48	37.01	34.95	36.46	33.92	33.37	32.94	33.08	35.30	
15	33.76	33.79	32.57	34.93	37.12	35.01	36.01	33.46	33.92	32.95	33.03	34.94	
16	33.59	33.65	32.93	34.63	37.85	34.64	35.67	33.13	34.23	32.83	33.58	35.12	
17	34.01	32.54	32.85	34.12	37.92	34.86	35.60	33.47	33.63	32.87	33.90	35.03	
18	34.25	32.18	32.79	33.88	36.91	34.61	35.77	33.20	32.95	32.78	33.85	35.05	
19	34.33	32.54	32.84	33.63	35.39	34.82	35.20	33.09	33.08	32.67	33.93	34.84	
20	34.14	32.59	32.67	33.55	36.90	34.78	35.26	33.18	33.04	32.74	34.06	34.93	
21	34.17	33.00	32.97	35.42	36.59	34.42	35.38	33.37	32.45	33.00	34.50	35.04	
22	34.03	32.87	32.45	35.90	36.13	34.67	34.88	33.86	33.15	32.76	33.99	35.08	
23	33.90	32.98	32.98	34.77	36.10	34.38	34.85	33.32	34.44	32.78	34.34	34.85	
24	33.91	32.41	32.99	34.26	35.95	34.45	35.23	33.85	35.67	32.88	34.71	35.96	
25	33.82	32.09	33.06	33.89	36.38	34.84	35.09	33.96	35.82	32.68	35.38	36.00	
26	33.94	32.77	33.09	33.82	35.59	34.59	34.54	33.84	35.99	32.95	35.19	36.09	
27	33.77	33.36	33.04	33.68	35.04	34.33	34.60	33.99	35.86	32.81	35.32	35.55	
28	33.84	33.36	33.07	34.16	34.88	34.06	34.42	33.86	35.15	32.77	35.13	34.54	
29	34.01	33.96	32.57	34.30	34.97	34.33	34.42	33.83	35.70	32.91		35.91	
30	34.05	33.77	33.13	34.55	34.88	34.14	34.52	33.55	34.50	32.85		36.11	
31	33.70			35.25	34.79		34.67		33.75	32.72		35.90	
Mean	33.98	33.44	32.94	33.80	36.51	34.90	35.05	33.88	34.00	33.11	33.78	35.21	
Max	34.38	34.60	33.52	35.90	39.45	36.22	36.46	34.94	35.99	34.89	35.38	36.11	39.45
Min	33.59	32.09	32.45	32.62	34.79	34.06	34.30	33.09	32.45	32.67	32.63	34.54	32.09
Annual Max Momentary Gage Height	39.70		m. (MSL.) ,			at 13.00 Hours , on Aug 9 , 2009							
Zero Gage at Bottom Elevation	30.40		m. (MSL.) ,			River Bed	30.09	m. (MSL)					
Left Bank Elevation	50.29		m. (MSL.) ,										
Right Bank Elevation	47.12		m. (MSL.) ,			Drainage Area	7008	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	250.00	253.00	196.80	181.50	350.00	333.00	298.00	345.00	232.00	168.90	128.40	305.00		
2	289.00	259.00	178.80	177.00	375.00	350.00	343.00	340.00	209.40	164.40	161.70	310.00		
3	280.00	259.00	118.00	186.90	387.60	357.00	353.00	287.00	218.40	178.80	172.50	378.00		
4	248.00	225.60	142.00	177.90	450.30	346.00	314.00	256.00	226.50	292.00	159.90	377.00		
5	235.00	228.30	134.80	165.30	486.60	332.00	281.00	242.00	224.70	340.00	173.40	374.00		
6	233.00	229.20	144.40	143.60	517.40	360.00	291.00	269.00	188.70	209.40	201.30	366.00		
7	240.00	294.00	158.10	169.80	511.90	350.00	324.00	264.00	199.50	285.00	184.20	389.80		
8	260.00	311.00	160.80	158.10	666.40	482.20	343.00	286.00	204.00	238.00	161.70	318.00		
9	271.00	259.00	205.80	136.40	862.00	462.40	369.00	247.00	237.00	150.90	195.90	331.00		
10	243.00	215.70	168.00	182.40	779.20	451.40	365.00	275.00	195.00	152.70	191.40	370.00		
11	251.00	184.20	166.20	178.80	698.80	415.10	356.00	282.00	243.00	149.20	187.80	371.00		
12	263.00	223.80	159.00	152.70	730.00	390.90	399.70	251.00	230.10	170.70	196.80	322.00		
13	233.00	228.30	165.30	127.60	715.60	378.00	429.40	261.00	209.40	164.40	209.40	368.00		
14	217.50	250.00	154.50	202.20	569.20	346.00	508.60	243.00	192.30	153.60	166.20	381.00		
15	227.40	230.10	123.60	344.00	582.40	352.00	459.10	200.40	243.00	154.50	161.70	345.00		
16	212.10	217.50	152.70	314.00	670.00	315.00	421.70	170.70	274.00	144.40	211.20	363.00		
17	252.00	121.20	146.00	263.00	678.40	337.00	414.00	201.30	215.70	147.60	241.00	354.00		
18	276.00	94.60	141.20	239.00	558.10	312.00	432.70	177.00	154.50	140.40	236.00	356.00		
19	284.00	121.20	145.20	215.70	390.90	333.00	371.00	167.10	166.20	131.60	244.00	335.00		
20	265.00	125.20	131.60	208.50	557.00	329.00	377.00	175.20	162.60	137.20	257.00	344.00		
21	268.00	159.00	156.30	394.20	522.90	293.00	389.80	192.30	114.00	159.00	301.00	355.00		
22	254.00	147.60	114.00	447.00	472.30	318.00	339.00	237.00	172.50	138.80	250.00	359.00		
23	241.00	157.20	157.20	328.00	469.00	289.00	336.00	187.80	295.00	140.40	285.00	336.00		
24	242.00	110.80	158.10	277.00	452.50	296.00	374.00	236.00	421.70	148.40	322.00	453.60		
25	233.00	88.30	164.40	240.00	499.80	335.00	360.00	247.00	438.20	132.40	389.80	458.00		
26	245.00	139.60	167.10	233.00	412.90	310.00	305.00	235.00	456.90	154.50	370.00	467.90		
27	228.30	191.40	162.60	220.20	355.00	284.00	311.00	250.00	442.60	142.80	383.20	408.50		
28	235.00	191.40	165.30	267.00	339.00	257.00	293.00	237.00	366.00	139.60	364.00	305.00		
29	252.00	247.00	123.60	281.00	348.00	284.00	293.00	234.00	425.00	150.90		448.10		
30	256.00	228.30	170.70	306.00	339.00	265.00	303.00	208.50	301.00	146.00		470.10		
31		222.00		376.00	330.00		318.00		226.50	135.60		447.00		
Total	7484.30	6212.50	4632.10	7293.80	16077.20	10263.00	11072.00	7204.30	7885.40	5262.10	6506.50	11566.00	101459.20	CMSDAY
Mean	249.48	200.40	154.40	235.28	518.62	342.10	357.16	240.14	254.37	169.75	232.38	373.10	277.97	CMS
Max	289.00	311.00	205.80	447.00	862.00	482.20	508.60	345.00	456.90	340.00	389.80	470.10	862.00	CMS
Min	212.10	88.30	114.00	127.60	330.00	257.00	281.00	167.10	114.00	131.60	128.40	305.00	88.30	CMS
Runoff	646.64	536.76	400.21	630.18	1389.07	886.72	956.62	622.45	681.30	454.65	562.16	999.30	8766.08	MCM
Momentary Peak	892.00 CMS. at 39.70 m. (MSL.) at 13.00 Hours , on Aug 9 , 2009													
Runoff Yield	39.66 Liters/Second/Square KM.			Momentary Peak Yield			127.283 Liters/Second/Square KM.							

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Mae Klong River at Ban Wang Khanai , Kanchanaburi (K.11A)

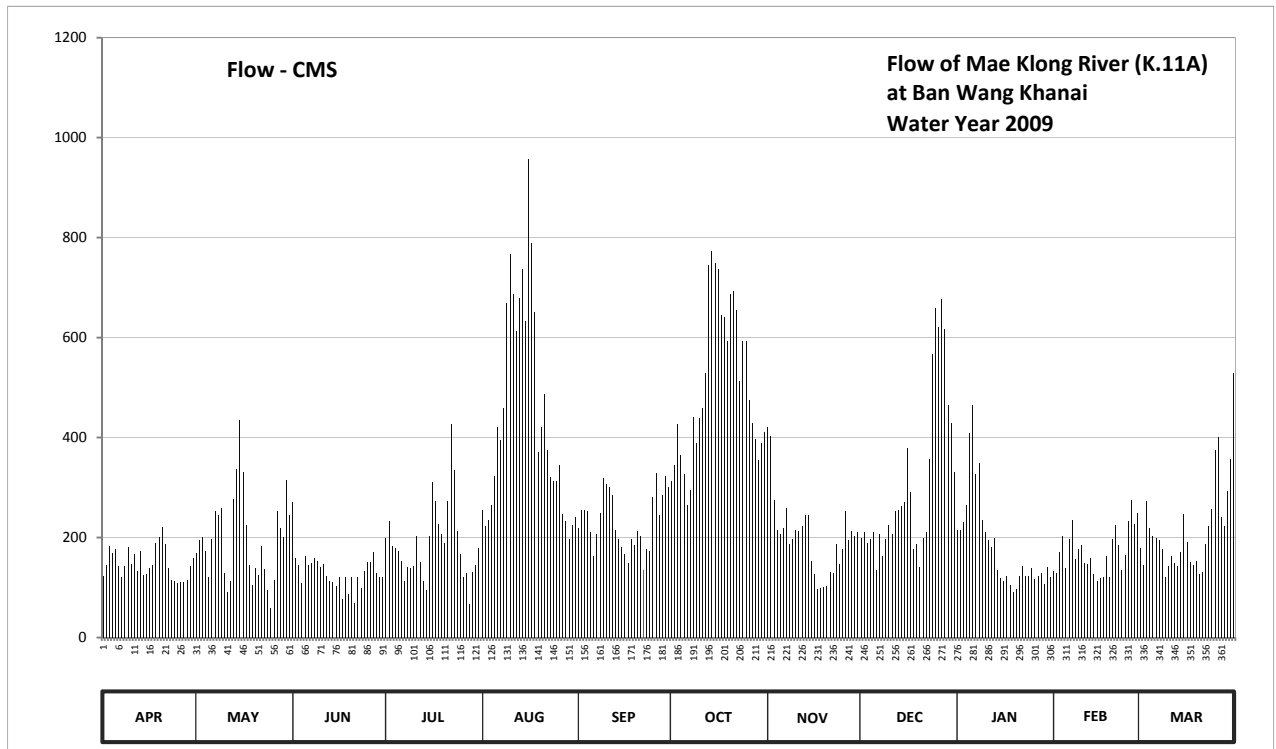
Lat 13 - 56 - 55 N Long 99 - 38 - 42 E

Location : on left bank at Ban Wang Khanai.

	Ban Wang Khanai	Amphoe Tha Muang	Changwat Kanchanaburi
Drainage Area	26,449 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+9.813 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+24.879 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 - 1999 , 2005 to date		
Rated by Flot	-		
Rated by Current Meter	1993 - 1999 , 2005 to date		
Stability of Channel Regimes	Stable		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.47	11.72	12.14	11.85	12.08	11.93	12.31	12.69	11.85	11.92	11.53	11.76	
2	11.60	11.83	11.67	11.99	11.95	12.08	12.43	12.63	11.90	11.92	11.50	11.59	
3	11.78	11.86	11.60	11.78	12.00	12.08	12.71	12.16	11.81	11.98	11.73	12.15	
4	11.72	11.74	11.38	11.76	12.12	12.07	12.50	11.92	11.84	12.12	11.87	11.93	
5	11.75	11.46	11.69	11.74	12.35	11.90	12.36	11.88	11.90	12.65	11.56	11.87	
6	11.58	11.84	11.59	11.64	12.69	11.69	12.12	11.93	11.54	12.84	11.84	11.85	
7	11.45	12.07	11.62	11.41	12.60	11.88	12.24	12.10	11.88	12.36	12.00	11.83	
8	11.58	12.04	11.67	11.57	12.82	12.06	12.76	11.80	11.69	12.44	11.66	11.75	
9	11.77	12.10	11.64	11.56	13.46	12.33	12.58	11.84	11.84	12.00	11.75	11.45	
10	11.61	11.50	11.57	11.58	13.73	12.29	12.75	11.92	11.96	11.90	11.79	11.58	
11	11.71	11.26	11.61	11.87	13.51	12.26	12.82	11.91	11.88	11.83	11.62	11.69	
12	11.53	11.41	11.47	11.63	13.30	12.20	13.04	11.95	12.07	11.77	11.61	11.62	
13	11.74	12.17	11.41	11.40	13.49	11.92	13.67	12.04	12.08	11.85	11.67	11.58	
14	11.48	12.40	11.39	11.29	13.65	11.84	13.75	12.04	12.11	11.54	11.49	11.73	
15	11.49	12.74	11.34	11.87	13.36	11.77	13.68	11.64	12.14	11.44	11.41	12.05	
16	11.56	12.38	11.46	12.30	14.24	11.71	13.65	11.49	12.55	11.40	11.44	11.82	
17	11.59	11.96	11.17	12.15	13.79	11.62	13.39	11.31	12.22	11.47	11.46	11.63	
18	11.81	11.60	11.46	11.97	13.41	11.84	13.38	11.32	11.75	11.35	11.69	11.59	
19	11.86	11.36	11.24	11.88	12.52	11.79	13.24	11.33	11.80	11.27	11.45	11.64	
20	11.94	11.56	11.45	11.81	12.69	11.91	13.51	11.34	11.57	11.31	11.84	11.49	
21	11.80	11.48	11.10	12.15	12.91	11.87	13.53	11.52	11.85	11.47	11.96	11.52	
22	11.56	11.78	11.45	12.71	12.53	11.54	13.42	11.51	11.90	11.58	11.79	11.80	
23	11.42	11.55	11.32	12.39	12.34	11.75	12.99	11.80	12.47	11.47	11.54	11.95	
24	11.41	11.29	11.53	11.91	12.31	11.74	13.24	11.61	13.16	11.47	11.70	12.09	
25	11.38	11.02	11.63	11.71	12.31	12.18	13.24	11.75	13.43	11.56	11.99	12.53	
26	11.39	11.42	11.63	11.45	12.43	12.37	12.87	12.07	13.32	11.43	12.16	12.62	
27	11.39	12.07	11.73	11.51	12.05	12.04	12.72	11.83	13.48	11.47	11.97	12.02	
28	11.42	11.93	11.50	11.09	11.99	12.20	12.61	11.91	13.31	11.50	12.06	11.95	
29	11.58	11.86	11.45	11.52	11.84	12.35	12.46	11.87	12.84	11.37		12.23	
30	11.67	12.32	11.45	11.60	11.96	12.26	12.58	11.90	12.72	11.57		12.47	
31		12.04		11.76	12.02		12.66		12.38	11.45		13.04	
Mean	11.60	11.80	11.51	11.77	12.72	11.98	12.94	11.83	12.23	11.73	11.72	11.90	
Max	11.94	12.74	12.14	12.71	14.24	12.37	13.75	12.69	13.48	12.84	12.16	13.04	14.24
Min	11.38	11.02	11.10	11.09	11.84	11.54	12.12	11.31	11.54	11.27	11.41	11.45	11.02
Annual Max Momentary Gage Height	14.60		m. (MSL.) ,				at 10.00 Hours , on Aug 16 , 2009						
Zero Gage at Bottom Elevation	9.81		m. (MSL.) ,			River Bed	10.16		m. (MSL)				
Left Bank Elevation	19.43		m. (MSL.) ,										
Right Bank Elevation	23.19		m. (MSL.) ,			Drainage Area	26449		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	123.20	169.40	270.00	199.00	255.00	218.20	312.70	420.10	199.00	215.80	133.40	178.20		
2	146.00	194.20	159.30	232.60	223.00	255.00	345.40	402.70	211.00	215.80	128.00	144.20		
3	182.60	201.40	146.00	182.60	235.00	255.00	426.00	275.00	189.40	230.20	171.60	272.50		
4	169.40	173.80	108.80	178.20	265.00	252.50	365.00	215.80	196.60	265.00	203.80	218.20		
5	176.00	121.60	163.10	173.80	323.50	211.00	326.20	206.20	211.00	408.50	138.80	203.80		
6	142.40	196.60	144.20	153.60	420.10	163.10	265.00	218.20	135.20	465.40	196.60	199.00		
7	120.00	252.50	149.80	113.60	394.00	206.20	295.00	260.00	206.20	326.20	235.00	194.20		
8	142.40	245.00	159.30	140.60	459.20	250.00	441.00	187.00	163.10	348.20	157.40	176.00		
9	180.40	260.00	153.60	138.80	668.60	318.10	388.20	196.60	196.60	235.00	176.00	120.00		
10	147.90	128.00	140.60	142.40	766.10	307.50	438.00	215.80	225.40	211.00	184.80	142.40		
11	167.20	90.40	147.90	203.80	686.60	300.00	459.20	213.40	206.20	194.20	149.80	163.10		
12	133.40	113.60	123.20	151.70	613.00	285.00	527.80	223.00	252.50	180.40	147.90	149.80		
13	173.80	277.50	113.60	112.00	679.40	215.80	744.20	245.00	255.00	199.00	159.30	142.40		
14	124.80	337.00	110.40	94.60	737.00	196.60	773.50	245.00	262.50	135.20	126.40	171.60		
15	126.40	435.00	102.40	203.80	633.40	180.40	747.80	153.60	270.00	118.40	113.60	247.50		
16	138.80	331.60	121.60	310.00	957.20	167.20	737.00	126.40	379.50	112.00	118.40	191.80		
17	144.20	225.40	77.80	272.50	788.30	149.80	643.60	97.60	290.00	123.20	121.60	151.70		
18	189.40	146.00	121.60	227.80	650.60	196.60	640.20	99.20	176.00	104.00	163.10	144.20		
19	201.40	105.60	87.60	206.20	370.80	184.80	593.20	100.80	187.00	91.80	120.00	153.60		
20	220.60	138.80	120.00	189.40	420.10	213.40	686.60	102.40	140.60	97.60	196.60	126.40		
21	187.00	124.80	68.00	272.50	487.10	203.80	693.80	131.60	199.00	123.20	225.40	131.60		
22	138.80	182.60	120.00	426.00	373.70	135.20	654.20	129.80	211.00	142.40	184.80	187.00		
23	115.20	137.00	99.20	334.30	320.80	176.00	511.90	187.00	356.60	123.20	135.20	223.00		
24	113.60	94.60	133.40	213.40	312.70	173.80	593.20	147.90	566.80	123.20	165.00	257.50		
25	108.80	58.40	151.70	167.20	312.70	280.00	593.20	176.00	657.80	138.80	232.60	373.70		
26	110.40	115.20	151.70	120.00	345.40	328.90	474.70	252.50	619.80	116.80	275.00	399.80		
27	110.40	252.50	171.60	129.80	247.50	245.00	429.00	194.20	675.80	123.20	227.80	240.00		
28	115.20	218.20	128.00	66.80	232.60	285.00	396.90	213.40	616.40	128.00	250.00	223.00		
29	142.40	201.40	120.00	131.60	196.60	323.50	353.80	203.80	465.40	107.20		292.50		
30	159.30	315.40	120.00	146.00	225.40	300.00	388.20	211.00	429.00	140.60		356.60		
31		245.00		178.20	240.00		411.40		331.60	120.00		527.80		
Total	4451.40	6088.50	3984.40	5812.80	13840.40	6977.40	15655.90	6051.00	9482.00	5663.50	4837.90	6703.10	89548.30	CMSDAY
Mean	148.38	196.40	132.81	187.51	446.46	232.58	505.03	201.70	305.87	182.69	172.78	216.23	245.34	CMS
Max	220.60	435.00	270.00	426.00	957.20	328.90	773.50	420.10	675.80	465.40	275.00	527.80	957.20	CMS
Min	108.80	58.40	68.00	66.80	196.60	135.20	265.00	97.60	135.20	91.80	113.60	120.00	58.40	CMS
Runoff	384.60	526.05	344.25	502.23	1195.81	602.85	1352.67	522.81	819.25	489.33	418.00	579.15	7736.97	MCM
Momentary Peak	1096.00 CMS. at 14.60 m. (MSL) at 10.00 Hours , on Aug 16 , 2009													
Runoff Yield	9.28 Liters/Second/Square KM.			Momentary Peak Yield				41.438 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)

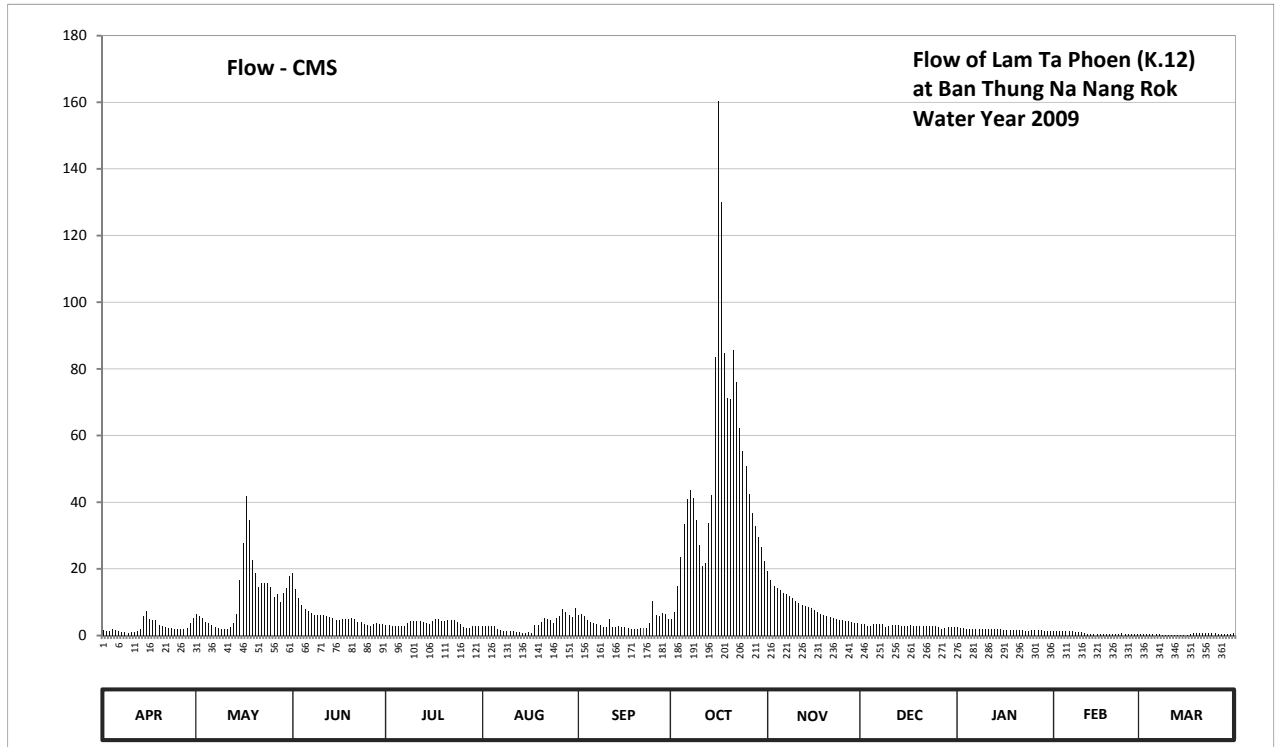
Lat 14 - 09 - 17 N Long 99 - 25 - 07 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	Ban	Thung Na Nang Rok	Amphoe	Mueang	Changwat	Kanchanaburi
Drainage Area	2,375	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+40.437 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 6 meters from the top staff gage.				Elevation	+49.887 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1965 to date					
Rating Operation						
Period of Rating	1965 - 1968 , 1995 to date					
Rated by Flot	-					
Rated by Current Meter	1965 - 1968 , 1995 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +46.550 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 51 discharge measurements made in 2009					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.21	41.74	42.58	41.39	41.37	41.70	41.61	42.60	41.44	41.30	41.16	40.90	
2	41.16	41.67	42.30	41.38	41.36	41.75	41.80	42.45	41.41	41.28	41.16	40.90	
3	41.14	41.62	42.12	41.37	41.37	41.68	42.36	42.35	41.37	41.27	41.15	40.90	
4	41.24	41.50	41.99	41.37	41.37	41.56	42.81	42.32	41.35	41.25	41.15	40.89	
5	41.19	41.45	41.88	41.35	41.35	41.50	43.23	42.27	41.41	41.24	41.15	40.89	
6	41.16	41.39	41.82	41.34	41.24	41.45	43.51	42.23	41.44	41.23	41.16	40.89	
7	41.10	41.31	41.77	41.37	41.19	41.41	43.61	42.21	41.44	41.24	41.14	40.89	
8	41.07	41.27	41.71	41.47	41.15	41.38	43.53	42.17	41.43	41.23	41.12	40.88	
9	41.06	41.24	41.71	41.53	41.14	41.32	43.28	42.13	41.32	41.24	41.10	40.88	
10	41.12	41.23	41.71	41.54	41.15	41.31	42.97	42.07	41.36	41.25	41.07	40.88	
11	41.12	41.25	41.70	41.53	41.14	41.61	42.68	42.02	41.40	41.24	40.98	40.88	
12	41.14	41.30	41.68	41.52	41.10	41.31	42.72	41.98	41.39	41.24	40.94	40.86	
13	41.22	41.45	41.66	41.51	41.08	41.32	43.25	41.96	41.38	41.23	40.94	40.85	
14	41.68	41.74	41.62	41.45	41.05	41.34	43.55	41.93	41.37	41.22	40.96	40.87	
15	41.84	42.45	41.57	41.42	41.05	41.31	44.83	41.90	41.35	41.22	40.95	40.87	
16	41.58	43.00	41.57	41.53	41.12	41.31	46.50	41.85	41.37	41.20	40.93	40.88	
17	41.56	43.54	41.59	41.58	41.06	41.26	45.89	41.79	41.38	41.21	40.92	40.90	
18	41.57	43.29	41.58	41.60	41.39	41.24	44.86	41.75	41.37	41.19	40.91	40.98	
19	41.38	42.77	41.59	41.53	41.39	41.23	44.48	41.71	41.36	41.19	40.90	41.02	
20	41.34	42.58	41.62	41.54	41.49	41.25	44.47	41.68	41.35	41.20	40.94	41.03	
21	41.31	42.33	41.59	41.55	41.63	41.29	44.89	41.66	41.36	41.20	40.96	41.01	
22	41.29	42.40	41.51	41.55	41.61	41.28	44.61	41.62	41.36	41.18	40.97	41.00	
23	41.27	42.40	41.49	41.57	41.55	41.29	44.22	41.60	41.34	41.16	40.98	41.03	
24	41.24	42.40	41.44	41.51	41.45	41.46	43.99	41.57	41.34	41.15	40.97	41.01	
25	41.22	42.33	41.40	41.42	41.62	42.06	43.84	41.56	41.34	41.18	40.96	40.98	
26	41.24	42.14	41.36	41.32	41.67	41.72	43.57	41.54	41.31	41.20	40.94	40.96	
27	41.24	42.20	41.41	41.28	41.88	41.69	43.37	41.52	41.25	41.20	40.92	40.96	
28	41.28	42.04	41.48	41.27	41.81	41.78	43.21	41.49	41.27	41.18	40.91	40.92	
29	41.46	42.23	41.44	41.35	41.73	41.74	43.07	41.47	41.30	41.17	40.91	40.91	
30	41.63	42.31	41.41	41.36	41.65	41.61	42.94	41.45	41.31	41.16	40.93	40.93	
31		42.52		41.37	41.90		42.76		41.31	41.17		41.00	
Mean	41.30	42.04	41.68	41.45	41.39	41.47	43.63	41.90	41.36	41.21	41.01	40.93	
Max	41.84	43.54	42.58	41.60	41.90	42.06	46.50	42.60	41.44	41.30	41.16	41.03	46.50
Min	41.06	41.23	41.36	41.27	41.05	41.23	41.61	41.45	41.25	41.15	40.90	40.85	40.85
Annual Max Momentary Gage Height	46.64		m. (MSL.) ,			at 14.00 Hours , on Oct 16 , 2009							
Zero Gage at Bottom Elevation	40.44		m. (MSL.) ,			River Bed	40.68	M (MSL)					
Left Bank Elevation	49.36		m. (MSL.) ,										
Right Bank Elevation	46.54		m. (MSL.) ,			Drainage Area	2375	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.77	6.40	18.84	3.12	2.96	6.00	5.10	19.20	3.52	2.40	1.42	0.33	
2	1.42	5.70	14.00	3.04	2.88	6.50	7.00	16.50	3.28	2.26	1.42	0.33	
3	1.28	5.20	11.20	2.96	2.96	5.80	14.96	14.80	2.96	2.19	1.35	0.33	
4	1.98	4.00	9.28	2.96	2.96	4.60	23.43	14.32	2.80	2.05	1.35	0.30	
5	1.63	3.60	7.96	2.80	2.80	4.00	33.32	13.52	3.28	1.98	1.35	0.30	
6	1.42	3.12	7.24	2.72	1.98	3.60	40.80	12.88	3.52	1.91	1.42	0.30	
7	1.00	2.48	6.70	2.96	1.63	3.28	43.80	12.56	3.52	1.98	1.28	0.30	
8	0.90	2.19	6.10	3.76	1.35	3.04	41.40	11.95	3.44	1.91	1.14	0.27	
9	0.87	1.98	6.10	4.30	1.28	2.56	34.52	11.35	2.56	1.98	1.00	0.27	
10	1.14	1.91	6.10	4.40	1.35	2.48	27.11	10.45	2.88	2.05	0.90	0.27	
11	1.14	2.05	6.00	4.30	1.28	5.10	20.80	9.70	3.20	1.98	0.60	0.27	
12	1.28	2.40	5.80	4.20	1.00	2.48	21.60	9.16	3.12	1.98	0.47	0.20	
13	1.84	3.60	5.60	4.10	0.93	2.56	33.80	8.92	3.04	1.91	0.47	0.17	
14	5.80	6.40	5.20	3.60	0.83	2.72	42.00	8.56	2.96	1.84	0.53	0.23	
15	7.48	16.50	4.70	3.36	0.83	2.48	83.55	8.20	2.80	1.84	0.50	0.23	
16	4.80	27.80	4.70	4.30	1.14	2.48	160.50	7.60	2.96	1.70	0.43	0.27	
17	4.60	41.70	4.90	4.80	0.87	2.12	130.00	6.90	3.04	1.77	0.40	0.33	
18	4.70	34.76	4.80	5.00	3.12	1.98	84.60	6.50	2.96	1.63	0.37	0.60	
19	3.04	22.60	4.90	4.30	3.12	1.91	71.30	6.10	2.88	1.63	0.33	0.73	
20	2.72	18.84	5.20	4.40	3.92	2.05	70.95	5.80	2.80	1.70	0.47	0.77	
21	2.48	14.48	4.90	4.50	5.30	2.33	85.65	5.60	2.88	1.70	0.53	0.70	
22	2.33	15.60	4.10	4.50	5.10	2.26	75.85	5.20	2.88	1.56	0.57	0.67	
23	2.19	15.60	3.92	4.70	4.50	2.33	62.20	5.00	2.72	1.42	0.60	0.77	
24	1.98	15.60	3.52	4.10	3.60	3.68	55.20	4.70	2.72	1.35	0.57	0.70	
25	1.84	14.48	3.20	3.36	5.20	10.30	50.70	4.60	2.72	1.56	0.53	0.60	
26	1.98	11.50	2.88	2.56	5.70	6.20	42.60	4.40	2.48	1.70	0.47	0.53	
27	1.98	12.40	3.28	2.26	7.96	5.90	36.75	4.20	2.05	1.70	0.40	0.53	
28	2.26	10.00	3.84	2.19	7.12	6.80	32.84	3.92	2.19	1.56	0.37	0.40	
29	3.68	12.88	3.52	2.80	6.30	6.40	29.48	3.76	2.40	1.49		0.37	
30	5.30	14.16	3.28	2.88	5.50	5.10	26.42	3.60	2.48	1.42		0.43	
31		17.76		2.96	8.20		22.40		2.48	1.49		0.67	
Total	76.83	367.69	181.76	112.19	103.67	119.04	1510.63	259.95	89.52	55.64	21.24	13.17	2911.33 CMSDAY
Mean	2.56	11.86	6.06	3.62	3.34	3.97	48.73	8.66	2.89	1.79	0.76	0.42	7.98 CMS
Max	7.48	41.70	18.84	5.00	8.20	10.30	160.50	19.20	3.52	2.40	1.42	0.77	160.50 CMS
Min	0.87	1.91	2.88	2.19	0.83	1.91	5.10	3.60	2.05	1.35	0.33	0.17	0.17 CMS
Runoff	6.64	31.77	15.70	9.69	8.96	10.29	130.52	22.46	7.74	4.81	1.84	1.14	251.54 MCM
Momentary Peak	167.50 CMS. at 46.64 m. (MSL) at 14.00 Hours , on Oct 16 , 2009												
Runoff Yield	3.36 Liters/Second/Square KM.			Momentary Peak Yield				70.526 Liters/Second/Square KM.					

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

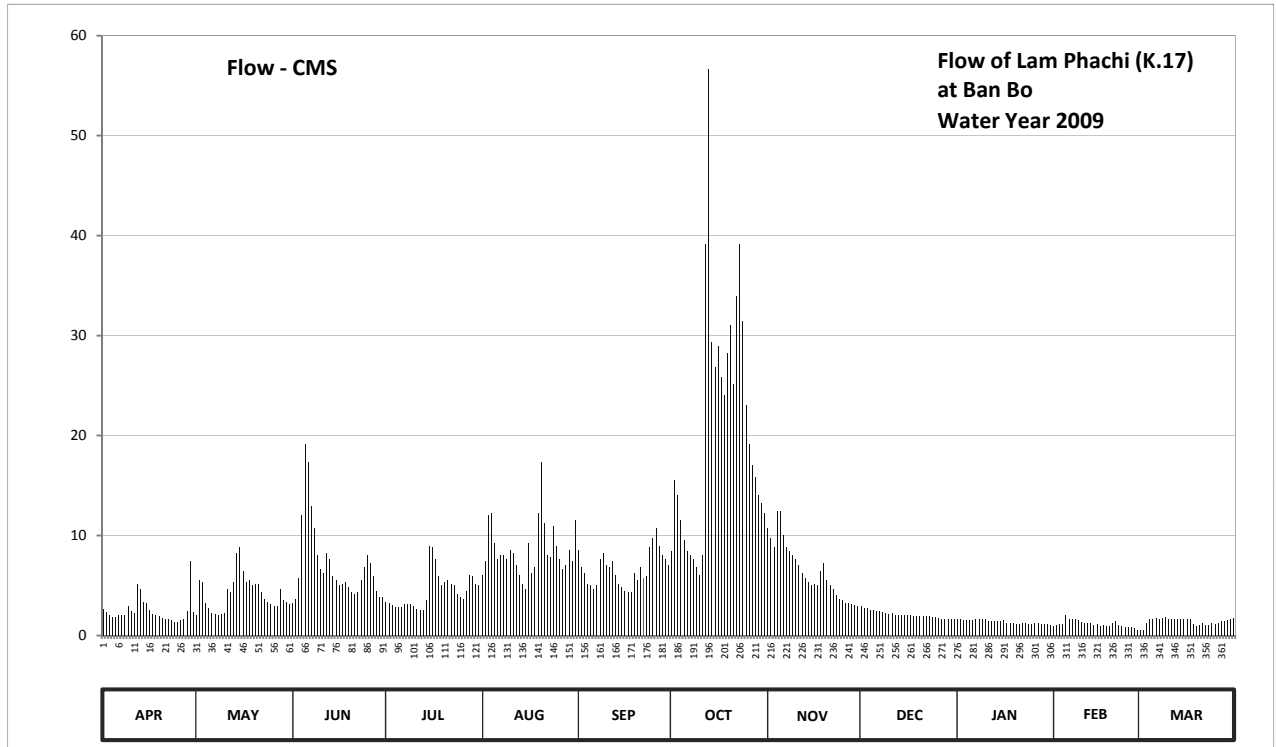
Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	Ban Bo	Amphoe Suan Phung	Changwat Ratchaburi
Drainage Area	1,344	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+97.460	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	Along the measuring line.		Elevation +109.256 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1966 to date		
Rating Operation			
Period of Rating	1966 - 1988 , 1993 to date		
Rated by Flot	-		
Rated by Current Meter	1966 - 1988 , 1993 to date		
Stability of Channel Regimes	Stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 40 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.62	97.56	97.68	97.69	97.85	97.98	97.97	98.07	97.65	97.51	97.42	97.37	
2	97.59	97.82	97.71	97.68	97.92	97.89	98.25	98.03	97.63	97.51	97.43	97.37	
3	97.56	97.81	97.83	97.66	98.12	97.86	98.20	97.99	97.63	97.49	97.44	97.45	
4	97.53	97.68	98.12	97.64	98.13	97.80	98.10	98.14	97.61	97.49	97.44	97.51	
5	97.53	97.63	98.37	97.64	98.01	97.79	98.02	98.14	97.61	97.49	97.55	97.50	
6	97.55	97.58	98.31	97.64	97.93	97.77	97.97	98.04	97.60	97.49	97.51	97.52	
7	97.56	97.57	98.16	97.67	97.95	97.79	97.95	97.99	97.60	97.51	97.51	97.51	
8	97.56	97.56	98.07	97.67	97.95	97.93	97.93	97.97	97.59	97.51	97.50	97.52	
9	97.65	97.57	97.95	97.67	97.93	97.96	97.89	97.95	97.58	97.51	97.49	97.53	
10	97.60	97.58	97.88	97.65	97.98	97.90	97.85	97.93	97.57	97.50	97.47	97.51	
11	97.58	97.77	97.86	97.62	97.96	97.89	97.95	97.90	97.58	97.48	97.46	97.50	
12	97.80	97.75	97.96	97.61	97.90	97.92	98.94	97.86	97.56	97.48	97.46	97.51	
13	97.77	97.81	97.93	97.61	97.85	97.85	99.34	97.83	97.56	97.48	97.45	97.50	
14	97.69	97.96	97.84	97.70	97.80	97.80	98.68	97.81	97.55	97.48	97.43	97.51	
15	97.68	97.99	97.82	98.00	97.77	97.78	98.61	97.79	97.55	97.48	97.44	97.51	
16	97.61	97.87	97.79	97.99	98.01	97.76	98.67	97.80	97.56	97.49	97.42	97.50	
17	97.57	97.81	97.80	97.93	97.86	97.75	98.58	97.79	97.55	97.45	97.43	97.51	
18	97.56	97.82	97.81	97.84	97.89	97.75	98.53	97.87	97.54	97.46	97.42	97.44	
19	97.54	97.79	97.78	97.79	98.13	97.86	98.65	97.91	97.54	97.45	97.42	97.42	
20	97.52	97.80	97.75	97.81	98.31	97.82	98.73	97.82	97.54	97.44	97.45	97.43	
21	97.51	97.80	97.74	97.82	98.09	97.89	98.56	97.79	97.54	97.44	97.48	97.46	
22	97.50	97.75	97.75	97.80	97.95	97.83	98.81	97.77	97.54	97.45	97.43	97.43	
23	97.49	97.71	97.82	97.79	97.94	97.84	98.94	97.73	97.54	97.45	97.42	97.43	
24	97.47	97.69	97.89	97.74	98.08	97.99	98.74	97.71	97.53	97.44	97.41	97.45	
25	97.47	97.67	97.95	97.72	98.00	98.03	98.50	97.70	97.53	97.44	97.41	97.44	
26	97.49	97.65	97.91	97.71	97.93	98.07	98.37	97.68	97.52	97.45	97.40	97.45	
27	97.51	97.65	97.84	97.76	97.88	98.00	98.30	97.68	97.51	97.45	97.39	97.48	
28	97.60	97.77	97.76	97.85	97.90	97.95	98.26	97.67	97.51	97.44	97.37	97.48	
29	97.92	97.70	97.72	97.84	97.98	97.93	98.20	97.66	97.51	97.44		97.49	
30	97.59	97.69	97.72	97.80	97.92	97.90	98.17	97.65	97.51	97.44		97.50	
31		97.67		97.79	98.10		98.13		97.51	97.43		97.52	
Mean	97.59	97.73	97.88	97.75	97.97	97.88	98.38	97.86	97.56	97.47	97.44	97.48	
Max	97.92	97.99	98.37	98.00	98.31	98.07	99.34	98.14	97.65	97.51	97.55	97.53	99.34
Min	97.47	97.56	97.68	97.61	97.77	97.75	97.85	97.65	97.51	97.43	97.37	97.37	97.37
Annual Max Momentary Gage Height	99.75		m. (MSL.) ,				at 03.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation	97.46		m. (MSL.) ,			River Bed	96.90	m. (MSL)					
Left Bank Elevation	108.42		m. (MSL.) ,										
Right Bank Elevation	103.75		m. (MSL.) ,			Drainage Area	1344	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.62	2.08	3.28	3.39	6.08	8.60	8.40	10.75	2.95	1.68	0.96	0.56	
2	2.32	5.54	3.67	3.28	7.40	6.82	15.50	9.75	2.73	1.68	1.04	0.56	
3	2.08	5.35	5.72	3.06	12.00	6.27	14.00	8.80	2.73	1.52	1.12	1.20	
4	1.84	3.28	12.00	2.84	12.25	5.17	11.50	12.50	2.51	1.52	1.12	1.68	
5	1.84	2.73	19.10	2.84	9.25	5.00	9.50	12.50	2.51	1.52	2.00	1.60	
6	2.00	2.24	17.30	2.84	7.60	4.67	8.40	10.00	2.40	1.52	1.68	1.76	
7	2.08	2.16	13.00	3.17	8.00	5.00	8.00	8.80	2.40	1.68	1.68	1.68	
8	2.08	2.08	10.75	3.17	8.00	7.60	7.60	8.40	2.32	1.68	1.60	1.76	
9	2.95	2.16	8.00	3.17	7.60	8.20	6.82	8.00	2.24	1.68	1.52	1.84	
10	2.40	2.24	6.63	2.95	8.60	7.00	6.08	7.60	2.16	1.60	1.36	1.68	
11	2.24	4.67	6.27	2.62	8.20	6.82	8.00	7.00	2.24	1.44	1.28	1.60	
12	5.17	4.34	8.20	2.51	7.00	7.40	39.17	6.27	2.08	1.44	1.28	1.68	
13	4.67	5.35	7.60	2.51	6.08	6.08	56.68	5.72	2.08	1.44	1.20	1.60	
14	3.39	8.20	5.90	3.50	5.17	5.17	29.30	5.35	2.00	1.44	1.04	1.68	
15	3.28	8.80	5.54	9.00	4.67	4.84	26.85	5.00	2.00	1.44	1.12	1.68	
16	2.51	6.45	5.00	8.80	9.25	4.50	28.95	5.17	2.08	1.52	0.96	1.60	
17	2.16	5.35	5.17	7.60	6.27	4.34	25.80	5.00	2.00	1.20	1.04	1.68	
18	2.08	5.54	5.35	5.90	6.82	4.34	24.05	6.45	1.92	1.28	0.96	1.12	
19	1.92	5.00	4.84	5.00	12.25	6.27	28.25	7.20	1.92	1.20	0.96	0.96	
20	1.76	5.17	4.34	5.35	17.30	5.54	31.05	5.54	1.92	1.12	1.20	1.04	
21	1.68	5.17	4.17	5.54	11.25	6.82	25.10	5.00	1.92	1.12	1.44	1.28	
22	1.60	4.34	4.34	5.17	8.00	5.72	33.90	4.67	1.92	1.20	1.04	1.04	
23	1.52	3.67	5.54	5.00	7.80	5.90	39.17	4.00	1.92	1.20	0.96	1.04	
24	1.36	3.39	6.82	4.17	11.00	8.80	31.40	3.67	1.84	1.12	0.88	1.20	
25	1.36	3.17	8.00	3.83	9.00	9.75	23.00	3.50	1.84	1.12	0.88	1.12	
26	1.52	2.95	7.20	3.67	7.60	10.75	19.10	3.28	1.76	1.20	0.80	1.20	
27	1.68	2.95	5.90	4.50	6.63	9.00	17.00	3.28	1.68	1.20	0.72	1.44	
28	2.40	4.67	4.50	6.08	7.00	8.00	15.80	3.17	1.68	1.12	0.56	1.44	
29	7.40	3.50	3.83	5.90	8.60	7.60	14.00	3.06	1.68	1.12		1.52	
30	2.32	3.39	3.83	5.17	7.40	7.00	13.25	2.95	1.68	1.12		1.60	
31		3.17		5.00	11.50		12.25		1.68	1.04		1.76	
Total	74.23	129.10	211.79	137.53	265.57	198.97	637.87	192.38	64.79	42.16	32.40	43.60	2030.39 CMSDAY
Mean	2.47	4.16	7.06	4.44	8.57	6.63	20.58	6.41	2.09	1.36	1.16	1.41	5.56 CMS
Max	7.40	8.80	19.10	9.00	17.30	10.75	56.68	12.50	2.95	1.68	2.00	1.84	56.68 CMS
Min	1.36	2.08	3.28	2.51	4.67	4.34	6.08	2.95	1.68	1.04	0.56	0.56	0.56 CMS
Runoff	6.41	11.15	18.30	11.88	22.95	17.19	55.11	16.62	5.60	3.64	2.80	3.77	175.43 MCM
Momentary Peak	77.25 CMS. at 99.75 m. (MSL.) at 03.00 Hours , on Oct 13 , 2009												
Runoff Yield	4.14 Liters/Second/Square KM.			Momentary Peak Yield				57.472 Liters/Second/Square KM.					

WATER YEAR : 2009
MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Sai Yok , Kanchanaburi (K.22B)

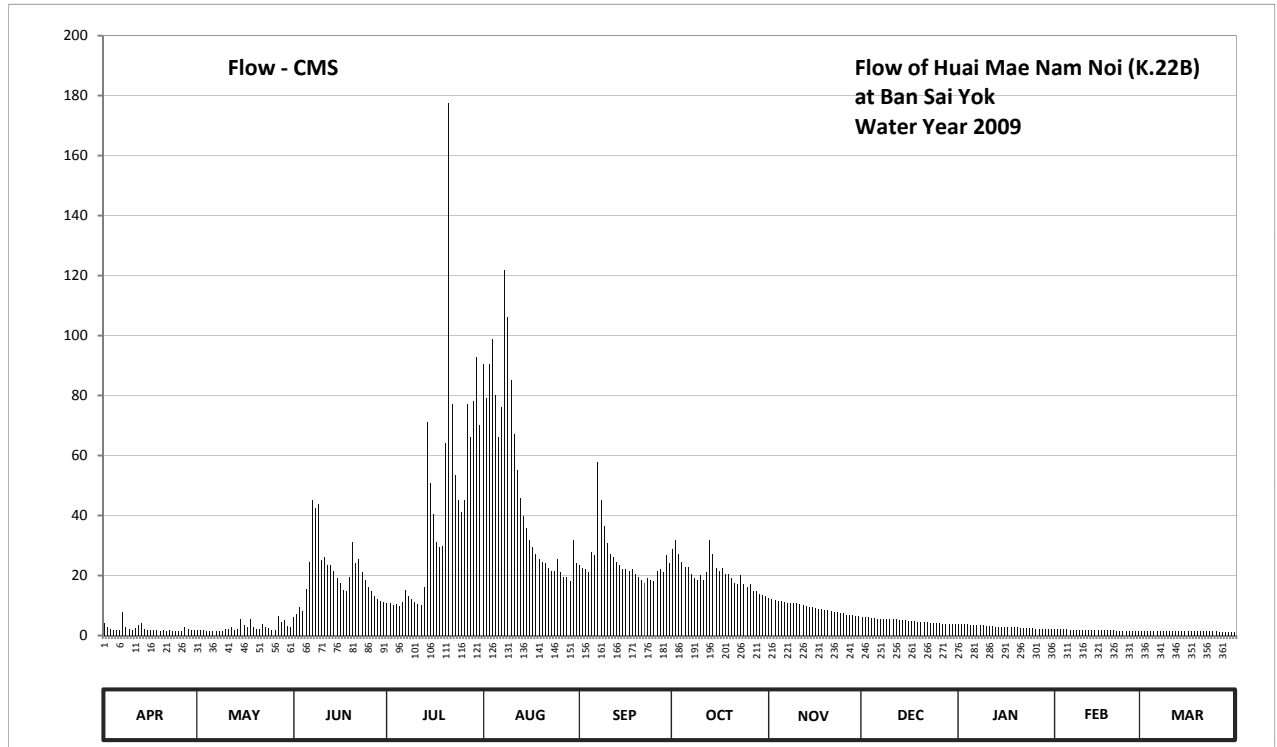
Lat 14 - 26 - 59 N Long 98 - 48 - 08 E

Location : on right bank about 640 meters upstream from station K.22A

	Ban	Sai Yok	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	311	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+67.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 10 meters from the top staff gage.				Elevation	+72.434 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1989 to date					
Rating Operation						
Period of Rating	1989 to date					
Rated by Flot	-					
Rated by Current Meter	1989 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 60 discharge measurements made in 2009					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.29	68.17	68.36	68.50	69.62	68.78	68.88	68.55	68.36	68.27	68.20	68.15	
2	68.23	68.17	68.39	68.50	69.51	68.76	68.93	68.54	68.36	68.27	68.20	68.15	
3	68.20	68.17	68.46	68.48	69.62	68.75	68.85	68.53	68.36	68.27	68.20	68.15	
4	68.18	68.16	68.42	68.49	69.69	68.73	68.80	68.52	68.35	68.27	68.20	68.15	
5	68.18	68.15	68.62	68.47	69.52	68.86	68.77	68.52	68.35	68.26	68.20	68.15	
6	68.19	68.15	68.80	68.51	69.38	68.84	68.77	68.51	68.34	68.26	68.19	68.15	
7	68.41	68.15	69.13	68.61	69.48	69.29	68.72	68.50	68.34	68.26	68.19	68.15	
8	68.24	68.15	69.09	68.56	69.87	69.13	68.69	68.50	68.34	68.26	68.19	68.14	
9	68.20	68.15	69.11	68.54	69.75	69.00	68.68	68.50	68.33	68.26	68.19	68.14	
10	68.19	68.20	68.81	68.51	69.57	68.91	68.71	68.50	68.33	68.25	68.18	68.14	
11	68.22	68.20	68.83	68.49	69.39	68.85	68.68	68.49	68.33	68.25	68.18	68.14	
12	68.26	68.23	68.78	68.48	69.26	68.83	68.73	68.48	68.33	68.25	68.18	68.14	
13	68.29	68.18	68.78	68.63	69.14	68.80	68.93	68.47	68.32	68.24	68.18	68.14	
14	68.20	68.20	68.74	69.43	69.05	68.78	68.85	68.46	68.32	68.24	68.18	68.14	
15	68.19	68.33	68.69	69.21	68.99	68.75	68.76	68.46	68.32	68.24	68.17	68.14	
16	68.18	68.26	68.66	69.06	68.93	68.75	68.74	68.45	68.31	68.24	68.17	68.14	
17	68.17	68.23	68.61	68.92	68.89	68.74	68.76	68.44	68.31	68.23	68.17	68.14	
18	68.17	68.33	68.60	68.89	68.85	68.75	68.72	68.44	68.31	68.23	68.17	68.14	
19	68.16	68.24	68.70	68.90	68.82	68.72	68.72	68.43	68.30	68.23	68.17	68.14	
20	68.17	68.21	68.92	69.36	68.80	68.70	68.69	68.43	68.30	68.23	68.17	68.13	
21	68.16	68.21	68.79	70.24	68.79	68.68	68.66	68.42	68.30	68.22	68.16	68.13	
22	68.18	68.28	68.82	69.49	68.76	68.66	68.65	68.41	68.30	68.22	68.16	68.13	
23	68.16	68.23	68.73	69.24	68.74	68.69	68.71	68.41	68.29	68.22	68.16	68.13	
24	68.15	68.22	68.68	69.13	68.74	68.68	68.65	68.40	68.29	68.22	68.16	68.13	
25	68.15	68.19	68.63	69.07	68.82	68.67	68.63	68.40	68.29	68.22	68.16	68.13	
26	68.15	68.18	68.60	69.13	68.73	68.74	68.65	68.38	68.29	68.21	68.15	68.12	
27	68.24	68.37	68.56	69.49	68.70	68.75	68.60	68.38	68.28	68.21	68.15	68.12	
28	68.21	68.30	68.54	69.38	68.70	68.73	68.60	68.38	68.28	68.21	68.15	68.12	
29	68.18	68.32	68.52	69.50	68.67	68.84	68.58	68.37	68.28	68.21	68.15	68.12	
30	68.18	68.25	68.51	69.64	68.93	68.79	68.57	68.37	68.28	68.21	68.15	68.11	
31		68.23		69.42	68.79		68.56		68.27	68.21		68.11	
Mean	68.20	68.22	68.70	68.98	69.11	68.80	68.72	68.45	68.31	68.24	68.18	68.14	
Max	68.41	68.37	69.13	70.24	69.87	69.29	68.93	68.55	68.36	68.27	68.20	68.15	70.24
Min	68.15	68.15	68.36	68.47	68.67	68.66	68.56	68.37	68.27	68.21	68.15	68.11	68.11
Annual Max Momentary Gage Height		70.51		m. (MSL.) ,									at 12.00 Hours , on Jul 21 , 2009
Zero Gage at Bottom Elevation		67.00		m. (MSL.) ,		River Bed	67.07		m. (MSL)				
Left Bank Elevation		72.43		m. (MSL.) ,									
Right Bank Elevation		71.21		m. (MSL.) ,		Drainage Area	311		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.16	1.70	6.20	10.65	90.40	23.50	28.90	12.65	6.20	3.68	2.00	1.50	
2	2.72	1.70	7.10	10.65	79.00	22.50	31.95	12.25	6.20	3.68	2.00	1.50	
3	2.00	1.70	9.35	10.00	90.40	22.00	27.25	11.85	6.20	3.68	2.00	1.50	
4	1.80	1.60	8.05	10.32	98.80	21.00	24.50	11.45	5.90	3.68	2.00	1.50	
5	1.80	1.50	15.62	9.68	80.00	27.80	23.00	11.45	5.90	3.44	2.00	1.50	
6	1.90	1.50	24.50	11.05	66.10	26.70	23.00	11.05	5.60	3.44	1.90	1.50	
7	7.73	1.50	45.10	15.14	76.00	57.65	20.50	10.65	5.60	3.44	1.90	1.50	
8	2.96	1.50	42.35	13.05	121.80	45.10	19.02	10.65	5.60	3.44	1.90	1.40	
9	2.00	1.50	43.70	12.25	106.00	36.50	18.53	10.65	5.30	3.44	1.90	1.40	
10	1.90	2.00	25.05	11.05	85.00	30.65	20.00	10.65	5.30	3.20	1.80	1.40	
11	2.48	2.00	26.15	10.32	67.05	27.25	18.53	10.32	5.30	3.20	1.80	1.40	
12	3.44	2.72	23.50	10.00	55.10	26.15	21.00	10.00	5.30	3.20	1.80	1.40	
13	4.16	1.80	23.50	16.10	45.80	24.50	31.95	9.68	5.00	2.96	1.80	1.40	
14	2.00	2.00	21.50	71.00	39.75	23.50	27.25	9.35	5.00	2.96	1.80	1.40	
15	1.90	5.30	19.02	50.85	35.85	22.00	22.50	9.35	5.00	2.96	1.70	1.40	
16	1.80	3.44	17.56	40.40	31.95	22.00	21.50	9.02	4.70	2.96	1.70	1.40	
17	1.70	2.72	15.14	31.30	29.45	21.50	22.50	8.70	4.70	2.72	1.70	1.40	
18	1.70	5.30	14.65	29.45	27.25	22.00	20.50	8.70	4.70	2.72	1.70	1.40	
19	1.60	2.96	19.50	30.00	25.60	20.50	20.50	8.37	4.40	2.72	1.70	1.40	
20	1.70	2.24	31.30	64.20	24.50	19.50	19.02	8.37	4.40	2.72	1.70	1.30	
21	1.60	2.24	24.00	177.62	24.00	18.53	17.56	8.05	4.40	2.48	1.60	1.30	
22	1.80	3.92	25.60	77.00	22.50	17.56	17.08	7.73	4.40	2.48	1.60	1.30	
23	1.60	2.72	21.00	53.40	21.50	19.02	20.00	7.73	4.16	2.48	1.60	1.30	
24	1.50	2.48	18.53	45.10	21.50	18.53	17.08	7.40	4.16	2.48	1.60	1.30	
25	1.50	1.90	16.10	41.05	25.60	18.05	16.10	7.40	4.16	2.48	1.60	1.30	
26	1.50	1.80	14.65	45.10	21.00	21.50	17.08	6.80	4.16	2.24	1.50	1.20	
27	2.96	6.50	13.05	77.00	19.50	22.00	14.65	6.80	3.92	2.24	1.50	1.20	
28	2.24	4.40	12.25	66.10	19.50	21.00	14.65	6.80	3.92	2.24	1.50	1.20	
29	1.80	5.00	11.45	78.00	18.05	26.70	13.85	6.50	3.92	2.24	1.50	1.20	
30	1.80	3.20	11.05	92.80	31.95	24.00	13.45	6.50	3.92	2.24	1.50	1.10	
31		2.72		70.00	24.00		13.05		3.68	2.24		1.10	
Total	69.75	83.56	606.52	1290.63	1524.90	749.19	636.45	276.87	151.10	90.08	49.30	42.10	5570.45 CMSDAY
Mean	2.33	2.70	20.22	41.63	49.19	24.97	20.53	9.23	4.87	2.91	1.76	1.36	15.26 CMS
Max	7.73	6.50	45.10	177.62	121.80	57.65	31.95	12.65	6.20	3.68	2.00	1.50	177.62 CMS
Min	1.50	1.50	6.20	9.68	18.05	17.56	13.05	6.50	3.68	2.24	1.50	1.10	1.10 CMS
Runoff	6.03	7.22	52.40	111.51	131.75	64.73	54.99	23.92	13.06	7.78	4.26	3.64	481.29 MCM
Momentary Peak	225.90 CMS. at 70.51 m. (MSL) at 12.00 Hours , on Jul 21 , 2009												
Runoff Yield	49.07 Liters/Second/Square KM.			Momentary Peak Yield				726.367 Liters/Second/Square KM.					

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Tha Khoei at Ban Kha , Ratchaburi (K.25A)

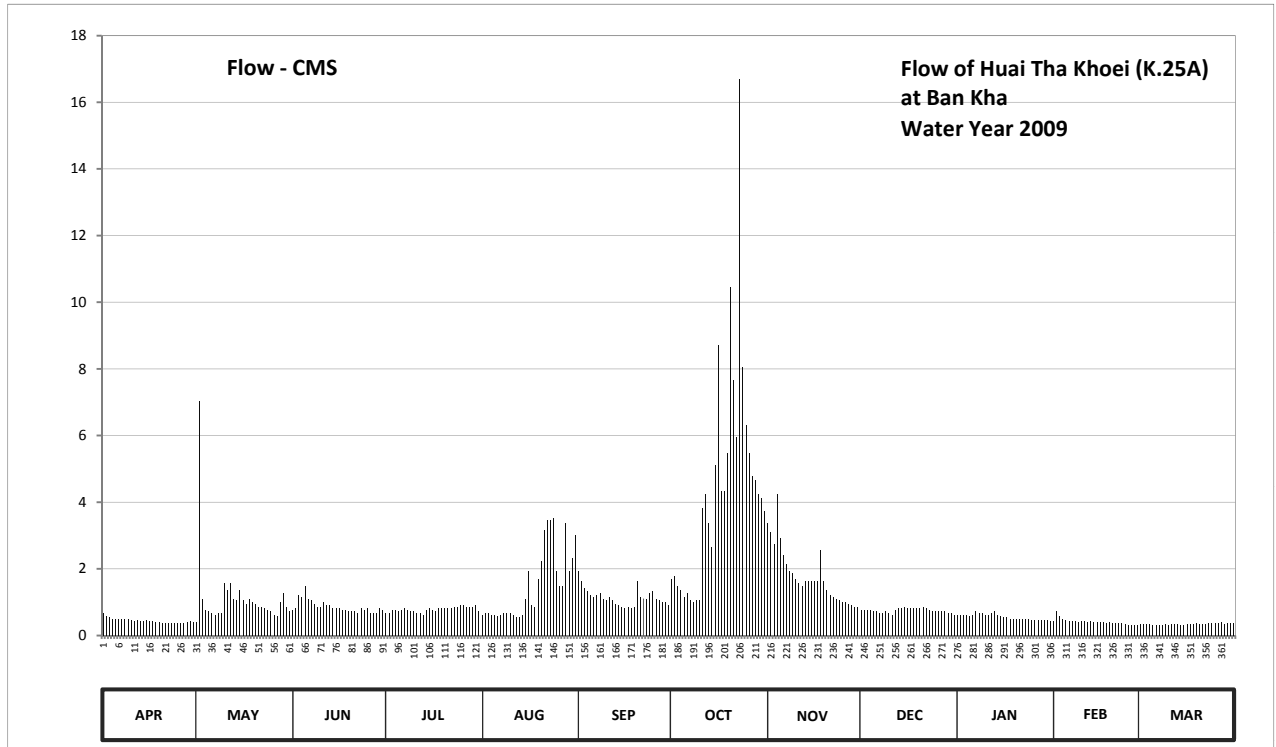
Lat 13 - 24 - 07 N Long 99 - 25 - 14 E

Location : on right bank about 8 kilometers upstream from station K.25

	Ban Kha	Amphoe Ban Kha	Changwat Ratchaburi
Drainage Area	367	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (A.D.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 1 meter from the top staff gage.	Elevation	+8.023 m. (A.D.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 2009		

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.38	0.47	0.45	0.44	0.67	0.64	0.84	0.47	0.44	0.39	0.36	
2	0.43	1.17	0.48	0.45	0.45	0.63	0.65	0.81	0.47	0.44	0.46	0.36	
3	0.42	0.54	0.56	0.47	0.45	0.60	0.61	0.77	0.47	0.44	0.43	0.36	
4	0.41	0.47	0.55	0.47	0.44	0.58	0.59	0.93	0.47	0.44	0.41	0.36	
5	0.41	0.46	0.61	0.46	0.44	0.56	0.55	0.79	0.46	0.43	0.40	0.35	
6	0.41	0.45	0.54	0.47	0.43	0.55	0.57	0.73	0.46	0.44	0.39	0.35	
7	0.41	0.44	0.53	0.48	0.44	0.56	0.53	0.70	0.45	0.46	0.39	0.35	
8	0.41	0.45	0.51	0.47	0.45	0.57	0.52	0.67	0.45	0.45	0.39	0.35	
9	0.41	0.45	0.49	0.46	0.45	0.54	0.53	0.66	0.46	0.45	0.38	0.36	
10	0.40	0.62	0.49	0.46	0.45	0.53	0.53	0.64	0.45	0.44	0.39	0.35	
11	0.39	0.59	0.52	0.45	0.44	0.55	0.89	0.62	0.44	0.44	0.39	0.36	
12	0.40	0.62	0.50	0.45	0.42	0.53	0.93	0.61	0.47	0.45	0.38	0.36	
13	0.39	0.54	0.50	0.44	0.42	0.51	0.84	0.63	0.48	0.46	0.39	0.36	
14	0.39	0.53	0.48	0.47	0.44	0.50	0.76	0.63	0.48	0.44	0.38	0.35	
15	0.40	0.59	0.48	0.48	0.54	0.49	1.01	0.63	0.49	0.43	0.38	0.35	
16	0.39	0.53	0.48	0.47	0.67	0.48	1.30	0.63	0.48	0.42	0.38	0.36	
17	0.39	0.51	0.47	0.46	0.50	0.49	0.94	0.63	0.48	0.42	0.38	0.36	
18	0.38	0.54	0.47	0.48	0.49	0.48	0.94	0.75	0.48	0.41	0.37	0.36	
19	0.38	0.52	0.46	0.48	0.64	0.49	1.04	0.63	0.48	0.41	0.38	0.37	
20	0.37	0.51	0.46	0.48	0.71	0.63	1.43	0.59	0.48	0.41	0.37	0.36	
21	0.37	0.49	0.46	0.48	0.82	0.55	1.22	0.56	0.49	0.41	0.37	0.36	
22	0.37	0.49	0.45	0.48	0.85	0.54	1.08	0.55	0.48	0.41	0.37	0.36	
23	0.37	0.48	0.48	0.49	0.85	0.54	1.81	0.54	0.47	0.41	0.37	0.37	
24	0.37	0.47	0.47	0.49	0.86	0.57	1.25	0.53	0.46	0.41	0.36	0.37	
25	0.37	0.46	0.48	0.50	0.67	0.58	1.11	0.52	0.46	0.40	0.35	0.37	
26	0.37	0.44	0.45	0.50	0.61	0.54	1.04	0.52	0.46	0.40	0.34	0.37	
27	0.37	0.43	0.45	0.49	0.61	0.53	0.98	0.51	0.46	0.40	0.34	0.38	
28	0.38	0.52	0.45	0.49	0.84	0.52	0.97	0.50	0.46	0.40	0.35	0.36	
29	0.39	0.57	0.48	0.49	0.67	0.52	0.93	0.49	0.45	0.40		0.37	
30	0.38	0.49	0.47	0.50	0.72	0.50	0.92	0.49	0.45	0.40		0.37	
31	0.46		0.46	0.46	0.80		0.88		0.44	0.39		0.37	
Mean	0.39	0.52	0.49	0.47	0.58	0.54	0.90	0.64	0.47	0.42	0.38	0.36	
Max	0.45	1.17	0.61	0.50	0.86	0.67	1.81	0.93	0.49	0.46	0.46	0.38	1.81
Min	0.37	0.38	0.45	0.44	0.42	0.48	0.52	0.49	0.44	0.39	0.34	0.35	0.34
Annual Max Momentary Gage Height	2.05		m. (A.D.) ,				at 12.00 Hours , on Oct 23 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	0.13	m. (A.D.)					
Left Bank Elevation	3.13		m. (A.D.) ,										
Right Bank Elevation	2.98		m. (A.D.) ,			Drainage Area	367	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.67	0.40	0.77	0.67	0.63	1.93	1.71	3.36	0.77	0.63	0.42	0.35	
2	0.58	7.04	0.81	0.67	0.67	1.64	1.78	3.09	0.77	0.63	0.72	0.35	
3	0.54	1.11	1.21	0.77	0.67	1.42	1.49	2.75	0.77	0.63	0.58	0.35	
4	0.49	0.77	1.16	0.77	0.63	1.32	1.37	4.23	0.77	0.63	0.49	0.35	
5	0.49	0.72	1.49	0.72	0.63	1.21	1.16	2.92	0.72	0.58	0.45	0.32	
6	0.49	0.67	1.11	0.77	0.58	1.16	1.26	2.41	0.72	0.63	0.42	0.32	
7	0.49	0.63	1.06	0.81	0.63	1.21	1.06	2.15	0.67	0.72	0.42	0.32	
8	0.49	0.67	0.95	0.77	0.67	1.26	1.00	1.93	0.67	0.67	0.42	0.32	
9	0.49	0.67	0.86	0.72	0.67	1.11	1.06	1.86	0.72	0.67	0.40	0.35	
10	0.45	1.57	0.86	0.72	0.67	1.06	1.06	1.71	0.67	0.63	0.42	0.32	
11	0.42	1.37	1.00	0.67	0.63	1.16	3.81	1.57	0.63	0.63	0.42	0.35	
12	0.45	1.57	0.90	0.67	0.54	1.06	4.23	1.49	0.77	0.67	0.40	0.35	
13	0.42	1.11	0.90	0.63	0.54	0.95	3.36	1.64	0.81	0.72	0.42	0.35	
14	0.42	1.06	0.81	0.77	0.63	0.90	2.66	1.64	0.81	0.63	0.40	0.32	
15	0.45	1.37	0.81	0.81	1.11	0.86	5.12	1.64	0.86	0.58	0.40	0.32	
16	0.42	1.06	0.81	0.77	1.93	0.81	8.70	1.64	0.81	0.54	0.40	0.35	
17	0.42	0.95	0.77	0.72	0.90	0.86	4.34	1.64	0.81	0.54	0.40	0.35	
18	0.40	1.11	0.77	0.81	0.86	0.81	4.34	2.58	0.81	0.49	0.38	0.35	
19	0.40	1.00	0.72	0.81	1.71	0.86	5.48	1.64	0.81	0.49	0.40	0.38	
20	0.38	0.95	0.72	0.81	2.24	1.64	10.45	1.37	0.81	0.49	0.38	0.35	
21	0.38	0.86	0.72	0.81	3.18	1.16	7.66	1.21	0.86	0.49	0.38	0.35	
22	0.38	0.86	0.67	0.81	3.45	1.11	5.96	1.16	0.81	0.49	0.38	0.35	
23	0.38	0.81	0.81	0.86	3.45	1.11	16.70	1.11	0.77	0.49	0.38	0.38	
24	0.38	0.77	0.77	0.86	3.54	1.26	8.05	1.06	0.72	0.49	0.35	0.38	
25	0.38	0.72	0.81	0.90	1.93	1.32	6.32	1.00	0.72	0.45	0.32	0.38	
26	0.38	0.63	0.67	0.90	1.49	1.11	5.48	1.00	0.72	0.45	0.30	0.38	
27	0.38	0.58	0.67	0.86	1.49	1.06	4.78	0.95	0.72	0.45	0.30	0.40	
28	0.40	1.00	0.67	0.86	3.36	1.00	4.67	0.90	0.72	0.45	0.32	0.35	
29	0.42	1.26	0.81	0.86	1.93	1.00	4.23	0.86	0.67	0.45		0.38	
30	0.40	0.86	0.77	0.90	2.32	0.90	4.12	0.86	0.67	0.45		0.38	
31		0.72		0.72	3.00		3.72		0.63	0.42		0.38	
Total	13.24	34.87	25.86	24.20	46.68	34.26	137.13	53.37	23.19	17.28	11.47	10.93	432.48 CMSDAY
Mean	0.44	1.12	0.86	0.78	1.51	1.14	4.42	1.78	0.75	0.56	0.41	0.35	1.18 CMS
Max	0.67	7.04	1.49	0.90	3.54	1.93	16.70	4.23	0.86	0.72	0.72	0.40	16.70 CMS
Min	0.38	0.40	0.67	0.63	0.54	0.81	1.00	0.86	0.63	0.42	0.30	0.32	0.30 CMS
Runoff	1.14	3.01	2.23	2.09	4.03	2.96	11.85	4.61	2.00	1.49	0.99	0.94	37.37 MCM
Momentary Peak	21.73 CMS. at 2.05 m. (A.D.) at 12.00 Hours , on Oct 23 , 2009												
Runoff Yield	3.22 Liters/Second/Square KM.			Momentary Peak Yield			59.144 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Mae Nam Lo at Ban Sai Yok , Kanchanaburi (K.30)

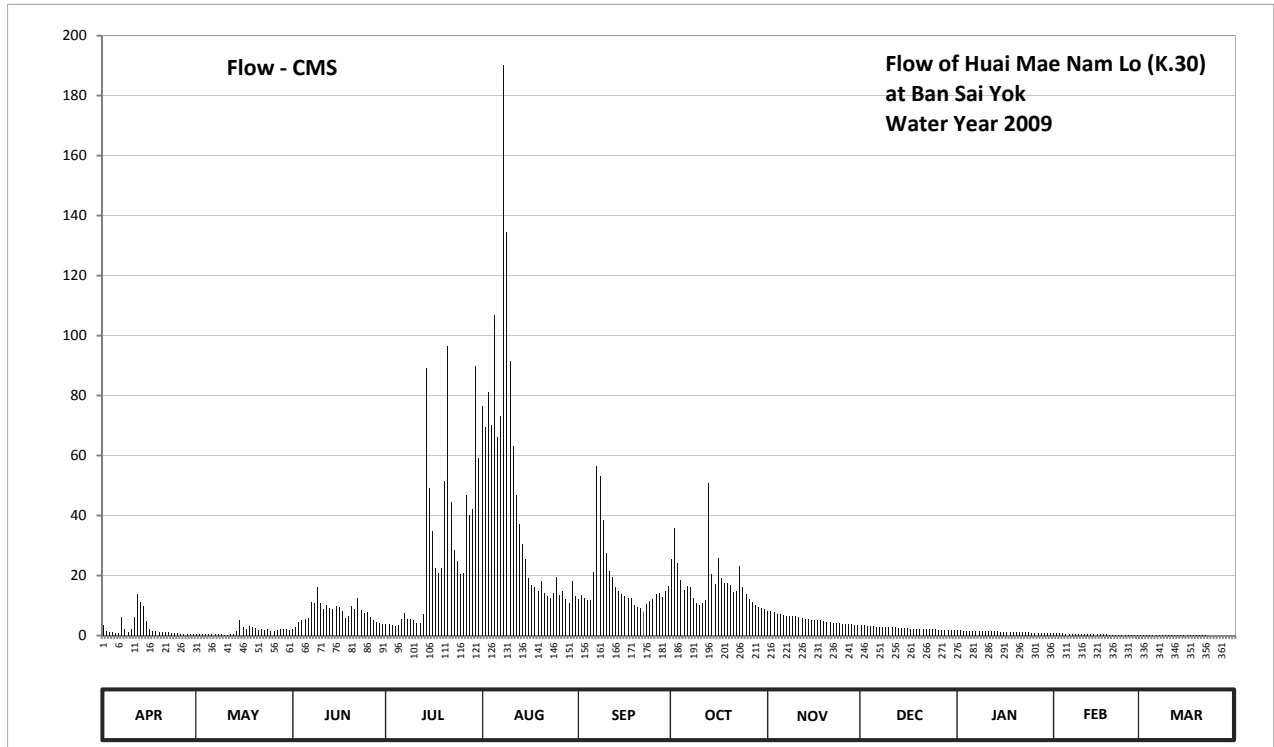
Lat 14 - 26 - 27 N Long 98 - 47 - 48 E

Location : on left bank about 1 kilometer downstream from station K.22A

	Ban Sai Yok	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	466	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+68.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 30 meters from the top staff gage.		Elevation +77.305 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 57 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.23	68.03	68.15	68.26	69.81	68.59	68.94	68.46	68.23	68.13	68.06	68.01	
2	68.11	68.04	68.19	68.25	69.71	68.63	69.16	68.45	68.23	68.13	68.06	68.01	
3	68.09	68.05	68.29	68.23	69.87	68.60	68.91	68.44	68.22	68.12	68.06	68.01	
4	68.08	68.05	68.32	68.22	69.72	68.58	68.77	68.42	68.22	68.12	68.06	68.01	
5	68.07	68.05	68.35	68.23	70.18	68.58	68.69	68.42	68.22	68.12	68.05	68.01	
6	68.06	68.05	68.36	68.34	69.66	68.84	68.72	68.41	68.21	68.11	68.05	68.01	
7	68.37	68.04	68.56	68.43	69.76	69.52	68.71	68.40	68.21	68.11	68.05	68.01	
8	68.16	68.03	68.55	68.35	71.02	69.47	68.60	68.39	68.21	68.11	68.05	68.01	
9	68.09	68.03	68.71	68.34	70.48	69.21	68.55	68.39	68.21	68.11	68.04	68.01	
10	68.15	68.02	68.55	68.32	70.00	68.99	68.53	68.39	68.20	68.11	68.04	68.01	
11	68.38	68.02	68.48	68.28	69.62	68.85	68.55	68.37	68.20	68.10	68.04	68.01	
12	68.64	68.03	68.53	68.27	69.36	68.80	68.58	68.36	68.19	68.10	68.04	68.01	
13	68.56	68.05	68.49	68.42	69.19	68.71	69.43	68.35	68.18	68.10	68.04	68.01	
14	68.51	68.11	68.48	69.97	69.05	68.67	68.82	68.34	68.18	68.10	68.03	68.01	
15	68.31	68.32	68.51	69.40	68.94	68.64	68.74	68.33	68.17	68.09	68.03	68.01	
16	68.16	68.19	68.50	69.14	68.79	68.62	68.95	68.33	68.17	68.09	68.03	68.01	
17	68.12	68.15	68.46	68.87	68.73	68.60	68.79	68.32	68.16	68.09	68.03	68.01	
18	68.10	68.22	68.36	68.83	68.71	68.60	68.75	68.32	68.16	68.09	68.03	68.01	
19	68.09	68.21	68.39	68.87	68.67	68.53	68.75	68.31	68.16	68.08	68.02	68.01	
20	68.09	68.17	68.51	69.44	68.76	68.50	68.73	68.30	68.15	68.08	68.02	68.01	
21	68.08	68.13	68.48	70.06	68.65	68.49	68.66	68.29	68.15	68.08	68.02	68.01	
22	68.08	68.15	68.60	69.32	68.62	68.45	68.67	68.28	68.15	68.08	68.02	68.01	
23	68.07	68.14	68.47	69.01	68.60	68.54	68.89	68.27	68.15	68.08	68.02	68.00	
24	68.07	68.15	68.43	68.93	68.65	68.57	68.71	68.27	68.15	68.08	68.02	68.00	
25	68.06	68.11	68.44	68.82	68.80	68.59	68.64	68.26	68.15	68.07	68.02	68.00	
26	68.05	68.10	68.37	68.83	68.63	68.64	68.59	68.25	68.14	68.07	68.02	68.00	
27	68.03	68.14	68.33	69.36	68.67	68.65	68.56	68.25	68.14	68.07	68.02	68.00	
28	68.03	68.16	68.30	69.24	68.59	68.61	68.53	68.25	68.14	68.07	68.01	68.00	
29	68.03	68.16	68.27	69.28	68.55	68.67	68.50	68.24	68.13	68.07		68.00	
30	68.03	68.16	68.25	69.98	68.76	68.72	68.49	68.24	68.13	68.07		68.00	
31		68.13		69.56	68.62		68.48		68.13	68.07		68.00	
Mean	68.16	68.11	68.42	68.87	69.20	68.72	68.72	68.34	68.18	68.09	68.04	68.01	
Max	68.64	68.32	68.71	70.06	71.02	69.52	69.43	68.46	68.23	68.13	68.06	68.01	71.02
Min	68.03	68.02	68.15	68.22	68.55	68.45	68.48	68.24	68.13	68.07	68.01	68.00	68.00
Annual Max Momentary Gage Height		71.20		m. (MSL.) ,									at 18.00 Hours , on Aug 8 , 2009
Zero Gage at Bottom Elevation		68.00		m. (MSL.) ,			River Bed	67.37		m. (MSL)			
Left Bank Elevation			76.26		m. (MSL.) ,								
Right Bank Elevation		79.93			m. (MSL.) ,		Drainage Area	466		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.34	0.39	2.05	3.88	76.57	12.10	25.36	8.28	3.34	1.75	0.78	0.13	
2	1.45	0.52	2.65	3.70	69.50	13.36	35.80	8.00	3.34	1.75	0.78	0.13	
3	1.17	0.65	4.42	3.34	81.19	12.40	24.04	7.72	3.16	1.60	0.78	0.13	
4	1.04	0.65	5.00	3.16	70.20	11.80	18.40	7.16	3.16	1.60	0.78	0.13	
5	0.91	0.65	5.60	3.34	106.70	11.80	15.28	7.16	3.16	1.60	0.65	0.13	
6	0.78	0.65	5.80	5.40	66.00	21.20	16.40	6.88	2.98	1.45	0.65	0.13	
7	6.00	0.52	11.20	7.44	73.00	56.36	16.00	6.60	2.98	1.45	0.65	0.13	
8	2.20	0.39	10.90	5.60	190.20	53.20	12.40	6.40	2.98	1.45	0.65	0.13	
9	1.17	0.39	16.00	5.40	134.60	38.35	10.90	6.40	2.98	1.45	0.52	0.13	
10	2.05	0.26	10.90	5.00	91.50	27.56	10.30	6.40	2.80	1.45	0.52	0.13	
11	6.20	0.26	8.84	4.24	63.20	21.60	10.90	6.00	2.80	1.30	0.52	0.13	
12	13.68	0.39	10.30	4.06	46.72	19.60	11.80	5.80	2.65	1.30	0.52	0.13	
13	11.20	0.65	9.12	7.16	37.30	16.00	50.80	5.60	2.50	1.30	0.52	0.13	
14	9.70	1.45	8.84	89.10	30.40	14.64	20.40	5.40	2.50	1.30	0.39	0.13	
15	4.80	5.00	9.70	49.00	25.36	13.68	17.20	5.20	2.35	1.17	0.39	0.13	
16	2.20	2.65	9.40	34.80	19.20	13.04	25.80	5.20	2.35	1.17	0.39	0.13	
17	1.60	2.05	8.28	22.40	16.80	12.40	19.20	5.00	2.20	1.17	0.39	0.13	
18	1.30	3.16	5.80	20.80	16.00	12.40	17.60	5.00	2.20	1.17	0.39	0.13	
19	1.17	2.98	6.40	22.40	14.64	10.30	17.60	4.80	2.20	1.04	0.26	0.13	
20	1.17	2.35	9.70	51.40	18.00	9.40	16.80	4.60	2.05	1.04	0.26	0.13	
21	1.04	1.75	8.84	96.30	14.00	9.12	14.32	4.42	2.05	1.04	0.26	0.13	
22	1.04	2.05	12.40	44.44	13.04	8.00	14.64	4.24	2.05	1.04	0.26	0.13	
23	0.91	1.90	8.56	28.48	12.40	10.60	23.20	4.06	2.05	1.04	0.26	0.00	
24	0.91	2.05	7.44	24.92	14.00	11.50	16.00	4.06	2.05	1.04	0.26	0.00	
25	0.78	1.45	7.72	20.40	19.60	12.10	13.68	3.88	2.05	0.91	0.26	0.00	
26	0.65	1.30	6.00	20.80	13.36	13.68	12.10	3.70	1.90	0.91	0.26	0.00	
27	0.39	1.90	5.20	46.72	14.64	14.00	11.20	3.70	1.90	0.91	0.26	0.00	
28	0.39	2.20	4.60	40.00	12.10	12.72	10.30	3.70	1.90	0.91	0.13	0.00	
29	0.39	2.20	4.06	42.20	10.90	14.64	9.40	3.52	1.75	0.91		0.00	
30	0.39	2.20	3.70	89.90	18.00	16.40	9.12	3.52	1.75	0.91		0.00	
31		1.75		59.08	13.04		8.84		1.75	0.91		0.00	
Total	80.02	46.76	229.42	864.86	1402.16	523.95	535.78	162.40	75.88	38.04	12.74	2.86	3974.87 CMSDAY
Mean	2.67	1.51	7.65	27.90	45.23	17.47	17.28	5.41	2.45	1.23	0.46	0.09	10.89 CMS
Max	13.68	5.00	16.00	96.30	190.20	56.36	50.80	8.28	3.34	1.75	0.78	0.13	190.20 CMS
Min	0.39	0.26	2.05	3.16	10.90	8.00	8.84	3.52	1.75	0.91	0.13	0.00	0.00 CMS
Runoff	6.91	4.04	19.82	74.72	121.15	45.27	46.29	14.03	6.56	3.29	1.10	0.25	343.43 MCM
Momentary Peak	210.00 CMS. at 71.20 m. (MSL) at 18.00 Hours , on Aug 8 , 2009												
Runoff Yield	23.37 Liters/Second/Square KM.			Momentary Peak Yield			450.644 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)

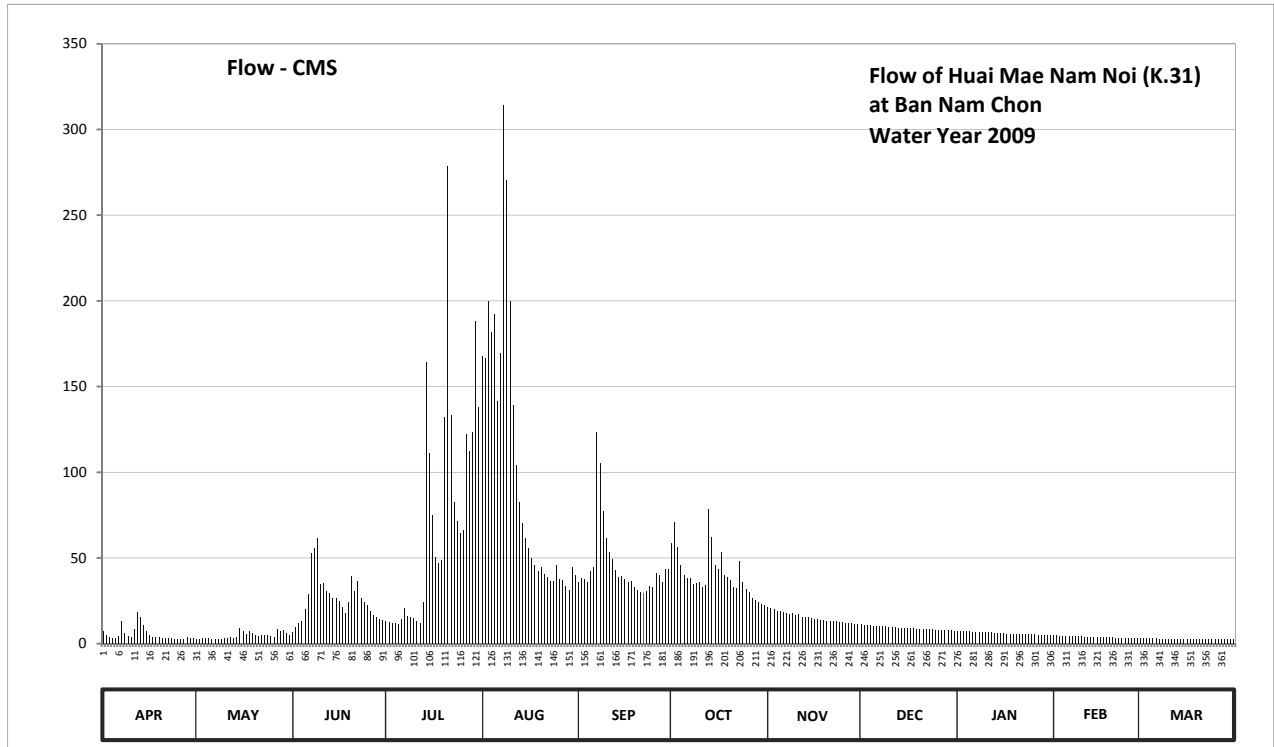
Lat 14 - 26 - 04 N Long 98 - 49 - 20 E

Location : on right bank about 2 kilometers downstream from station K.22A

	Ban Nam Chon	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	799 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+62.717 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5 meters from the top staff gage.	Elevation	+79.172 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 64 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.99	65.80	65.97	66.17	68.10	66.68	67.02	66.39	66.12	65.99	65.89	65.82	
2	65.91	65.80	66.07	66.16	68.09	66.72	67.18	66.38	66.11	65.99	65.89	65.81	
3	65.86	65.81	66.15	66.15	68.35	66.71	66.99	66.36	66.10	65.98	65.88	65.81	
4	65.83	65.81	66.17	66.15	68.21	66.68	66.84	66.34	66.10	65.98	65.88	65.81	
5	65.82	65.81	66.36	66.12	68.29	66.79	66.75	66.34	66.09	65.98	65.88	65.81	
6	65.88	65.80	66.55	66.21	67.88	66.82	66.72	66.32	66.09	65.97	65.88	65.81	
7	66.17	65.80	66.94	66.38	68.11	67.72	66.72	66.31	66.08	65.97	65.88	65.80	
8	65.95	65.79	66.98	66.26	69.08	67.55	66.66	66.30	66.08	65.97	65.87	65.80	
9	65.87	65.79	67.06	66.25	68.82	67.26	66.67	66.31	66.08	65.97	65.87	65.80	
10	65.84	65.81	66.66	66.23	68.35	67.06	66.68	66.28	66.07	65.97	65.87	65.80	
11	66.03	65.83	66.67	66.17	67.86	66.95	66.63	66.30	66.07	65.96	65.86	65.80	
12	66.32	65.86	66.59	66.15	67.54	66.89	66.65	66.25	66.07	65.96	65.86	65.80	
13	66.25	65.83	66.56	66.45	67.32	66.80	67.27	66.24	66.05	65.95	65.85	65.80	
14	66.11	65.85	66.51	68.07	67.17	66.73	67.07	66.24	66.05	65.95	65.85	65.79	
15	65.99	66.04	66.50	67.61	67.06	66.74	66.84	66.23	66.05	65.94	65.85	65.79	
16	65.91	65.98	66.47	67.23	66.98	66.71	66.81	66.22	66.05	65.94	65.85	65.79	
17	65.86	65.92	66.39	66.91	66.90	66.68	66.95	66.21	66.04	65.93	65.85	65.79	
18	65.85	65.99	66.31	66.86	66.84	66.69	66.75	66.20	66.04	65.93	65.84	65.79	
19	65.84	65.95	66.45	66.88	66.79	66.63	66.73	66.19	66.03	65.93	65.84	65.79	
20	65.83	65.89	66.74	67.80	66.82	66.60	66.70	66.18	66.03	65.92	65.84	65.79	
21	65.83	65.87	66.59	68.87	66.76	66.57	66.63	66.18	66.03	65.92	65.83	65.79	
22	65.82	65.91	66.69	67.81	66.73	66.57	66.62	66.17	66.02	65.92	65.83	65.79	
23	65.81	65.90	66.51	67.32	66.69	66.59	66.87	66.17	66.02	65.92	65.83	65.79	
24	65.80	65.90	66.45	67.19	66.69	66.64	66.68	66.16	66.02	65.92	65.83	65.79	
25	65.79	65.87	66.42	67.10	66.84	66.63	66.61	66.16	66.01	65.92	65.83	65.79	
26	65.79	65.85	66.33	67.12	66.71	66.77	66.57	66.15	66.01	65.92	65.82	65.78	
27	65.79	66.03	66.28	67.71	66.70	66.75	66.51	66.14	66.01	65.91	65.82	65.78	
28	65.85	65.99	66.24	67.62	66.64	66.68	66.48	66.14	66.00	65.91	65.82	65.78	
29	65.83	66.00	66.21	67.72	66.60	66.81	66.45	66.13	66.00	65.90		65.80	
30	65.81	65.94	66.19	68.26	66.82	66.81	66.43	66.12	66.00	65.90		65.79	
31		65.90		67.85	66.75		66.41		65.99	65.90		65.78	
Mean	65.91	65.88	66.47	66.99	67.37	66.81	66.74	66.24	66.05	65.94	65.85	65.80	
Max	66.32	66.04	67.06	68.87	69.08	67.72	67.27	66.39	66.12	65.99	65.89	65.82	69.08
Min	65.79	65.79	65.97	66.12	66.60	66.57	66.41	66.12	65.99	65.90	65.82	65.78	65.78
Annual Max Momentary Gage Height	69.40		m. (MSL.) ,				at 09.00 Hours , on Aug 8 , 2009						
Zero Gage at Bottom Elevation	62.72		m. (MSL.) ,			River Bed	64.77		m. (MSL)				
Left Bank Elevation	77.60		m. (MSL.) ,										
Right Bank Elevation	77.72		m. (MSL.) ,			Drainage Area	799		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	2.80	6.90	12.83	168.00	35.86	58.50	21.27	11.20	7.50	4.60	3.20	
2	5.10	2.80	9.73	12.50	166.80	38.20	70.90	20.85	10.88	7.50	4.60	3.00	
3	4.00	3.00	12.18	12.18	200.00	37.60	56.30	20.00	10.55	7.20	4.40	3.00	
4	3.40	3.00	12.83	12.18	181.80	35.86	45.80	19.15	10.55	7.20	4.40	3.00	
5	3.20	3.00	20.00	11.20	192.20	42.40	40.00	19.15	10.27	7.20	4.40	3.00	
6	4.40	2.80	28.80	14.17	141.60	44.40	38.20	18.30	10.27	6.90	4.40	3.00	
7	12.83	2.80	52.80	20.85	169.25	123.20	38.20	17.87	10.00	6.90	4.40	2.80	
8	6.30	2.67	55.60	15.99	314.00	105.00	34.72	17.45	10.00	6.90	4.20	2.80	
9	4.20	2.67	61.50	15.63	270.70	77.60	35.29	17.87	10.00	6.90	4.20	2.80	
10	3.60	3.00	34.72	14.90	200.00	61.50	35.86	16.72	9.73	6.90	4.20	2.80	
11	8.62	3.40	35.29	12.83	139.20	53.50	33.01	17.45	9.73	6.60	4.00	2.80	
12	18.30	4.00	30.80	12.18	104.00	49.30	34.15	15.63	9.73	6.60	4.00	2.80	
13	15.63	3.40	29.30	24.00	82.80	43.00	78.45	15.26	9.18	6.30	3.80	2.80	
14	10.88	3.80	26.80	164.40	70.10	38.80	62.25	15.26	9.18	6.30	3.80	2.67	
15	7.50	8.90	26.30	111.10	61.50	39.40	45.80	14.90	9.18	6.00	3.80	2.67	
16	5.10	7.20	24.92	75.05	55.60	37.60	43.70	14.53	9.18	6.00	3.80	2.67	
17	4.00	5.40	21.27	50.70	50.00	35.86	53.50	14.17	8.90	5.70	3.80	2.67	
18	3.80	7.50	17.87	47.20	45.80	36.43	40.00	13.80	8.90	5.70	3.60	2.67	
19	3.60	6.30	24.00	48.60	42.40	33.01	38.80	13.48	8.62	5.70	3.60	2.67	
20	3.40	4.60	39.40	132.00	44.40	31.30	37.00	13.15	8.62	5.40	3.60	2.67	
21	3.40	4.20	30.80	278.70	40.60	29.80	33.01	13.15	8.62	5.40	3.40	2.67	
22	3.20	5.10	36.43	133.20	38.80	29.80	32.44	12.83	8.35	5.40	3.40	2.67	
23	3.00	4.80	26.80	82.80	36.43	30.80	47.90	12.83	8.35	5.40	3.40	2.67	
24	2.80	4.80	24.00	71.70	36.43	33.58	35.86	12.50	8.35	5.40	3.40	2.67	
25	2.67	4.20	22.62	64.50	45.80	33.01	31.87	12.50	8.08	5.40	3.40	2.67	
26	2.67	3.80	18.72	66.10	37.60	41.20	29.80	12.18	8.08	5.40	3.20	2.54	
27	2.67	8.62	16.72	122.10	37.00	40.00	26.80	11.85	8.08	5.10	3.20	2.54	
28	3.80	7.50	15.26	112.20	33.58	35.86	25.38	11.85	7.80	5.10	3.20	2.54	
29	3.40	7.80	14.17	123.20	31.30	43.70	24.00	11.52	7.80	4.80		2.80	
30	3.00	6.00	13.48	188.30	44.40	43.70	23.08	11.20	7.80	4.80		2.67	
31		4.80		138.00	40.00		22.16		7.50	4.80		2.54	
Total	165.97	144.66	790.01	2201.29	3122.09	1361.27	1252.73	458.67	283.48	188.40	108.20	85.47	10162.24 CMSDAY
Mean	5.53	4.67	26.33	71.01	100.71	45.38	40.41	15.29	9.14	6.08	3.86	2.76	27.84 CMS
Max	18.30	8.90	61.50	278.70	314.00	123.20	78.45	21.27	11.20	7.50	4.60	3.20	314.00 CMS
Min	2.67	2.67	6.90	11.20	31.30	29.80	22.16	11.20	7.50	4.80	3.20	2.54	2.54 CMS
Runoff	14.34	12.50	68.26	190.19	269.75	117.61	108.24	39.63	24.49	16.28	9.35	7.39	878.02 MCM
Momentary Peak	372.10 CMS. at 69.40 m. (MSL) at 09.00 Hours , on Aug 8 , 2009												
Runoff Yield	34.85 Liters/Second/Square KM.			Momentary Peak Yield				465.707 Liters/Second/Square KM.					

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)

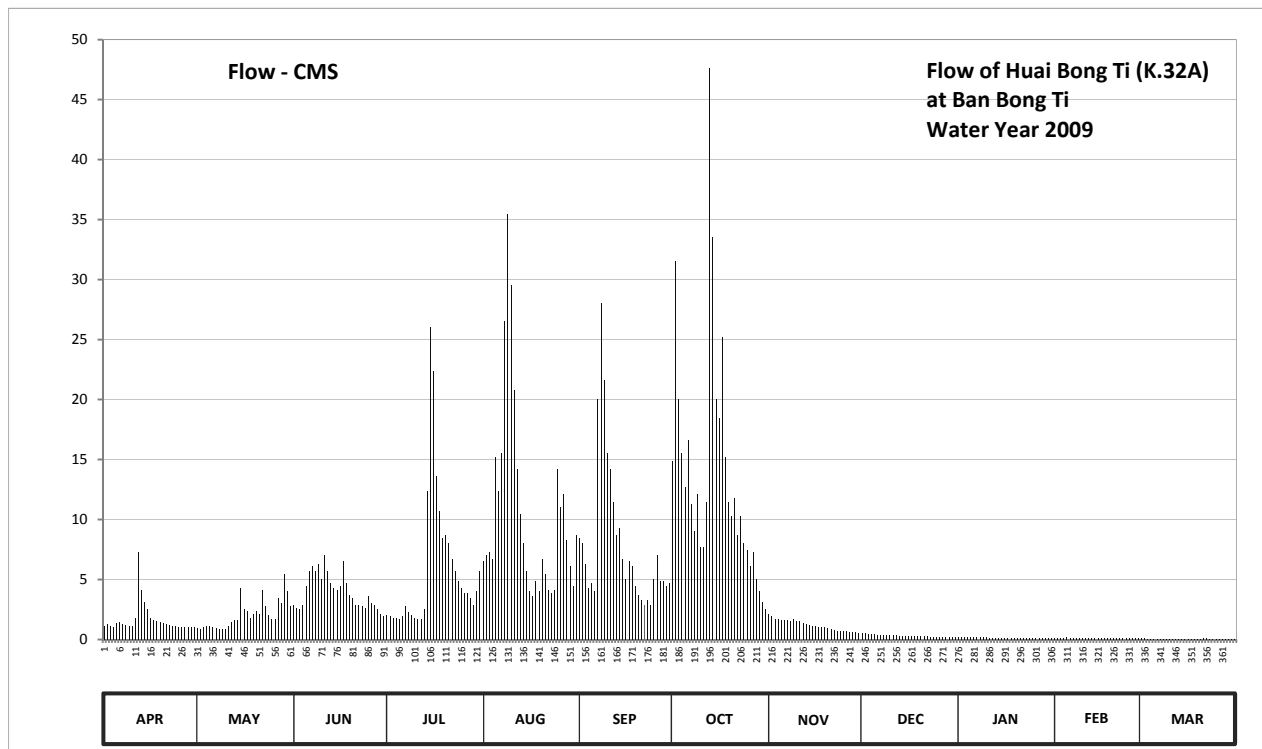
Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

Location : on right bank at Ban Bong Ti.

	Ban Bong Ti	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	518 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+82.270 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 6.50 meters from the top staff gage.	Elevation	+88.323 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 72 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.82	82.79	83.09	83.02	83.30	83.38	83.61	83.03	82.71	82.59	82.53	82.49	
2	82.85	82.78	83.07	83.01	83.32	83.36	84.01	83.01	82.70	82.58	82.52	82.49	
3	82.83	82.80	83.06	83.00	83.33	83.29	83.75	82.98	82.69	82.58	82.53	82.48	
4	82.81	82.82	83.09	82.99	83.31	83.19	83.63	82.96	82.69	82.57	82.56	82.48	
5	82.88	82.82	83.20	82.97	83.62	83.21	83.54	82.95	82.68	82.57	82.57	82.48	
6	82.89	82.80	83.26	83.01	83.53	83.17	83.66	82.95	82.67	82.57	82.56	82.48	
7	82.86	82.79	83.28	83.08	83.63	83.75	83.49	82.93	82.66	82.57	82.55	82.48	
8	82.84	82.78	83.26	83.04	83.91	83.94	83.40	82.91	82.66	82.57	82.53	82.48	
9	82.83	82.78	83.29	83.02	84.09	83.79	83.52	82.97	82.66	82.57	82.53	82.48	
10	82.83	82.77	83.23	83.00	83.97	83.63	83.35	82.92	82.65	82.57	82.53	82.48	
11	82.99	82.83	83.32	82.98	83.77	83.59	83.35	82.90	82.65	82.56	82.53	82.48	
12	83.33	82.89	83.26	82.98	83.59	83.50	83.50	82.88	82.65	82.56	82.53	82.48	
13	83.18	82.93	83.21	83.06	83.46	83.39	84.31	82.86	82.64	82.56	82.52	82.47	
14	83.11	82.93	83.19	83.53	83.36	83.41	84.05	82.84	82.64	82.55	82.52	82.47	
15	83.06	83.19	83.18	83.90	83.26	83.31	83.75	82.83	82.64	82.55	82.52	82.47	
16	82.99	83.06	83.20	83.81	83.17	83.23	83.71	82.82	82.63	82.55	82.51	82.47	
17	82.95	83.05	83.30	83.57	83.14	83.30	83.88	82.81	82.63	82.55	82.52	82.47	
18	82.92	82.99	83.21	83.47	83.22	83.28	83.62	82.81	82.63	82.54	82.51	82.47	
19	82.89	83.03	83.15	83.38	83.17	83.20	83.50	82.80	82.62	82.54	82.51	82.47	
20	82.87	83.05	83.13	83.39	83.31	83.15	83.45	82.79	82.62	82.54	82.51	82.47	
21	82.85	83.03	83.09	83.36	83.25	83.12	83.51	82.77	82.62	82.54	82.51	82.49	
22	82.84	83.18	83.09	83.31	83.18	83.09	83.39	82.76	82.62	82.54	82.50	82.49	
23	82.83	83.08	83.08	83.26	83.16	83.12	83.45	82.75	82.61	82.53	82.50	82.48	
24	82.82	83.02	83.07	83.22	83.18	83.09	83.36	82.75	82.61	82.53	82.50	82.48	
25	82.81	82.97	83.14	83.19	83.59	83.23	83.34	82.74	82.61	82.53	82.50	82.47	
26	82.81	82.98	83.10	83.16	83.48	83.32	83.28	82.74	82.60	82.53	82.50	82.47	
27	82.80	83.13	83.09	83.16	83.52	83.22	83.33	82.73	82.60	82.53	82.50	82.47	
28	82.81	83.10	83.06	83.13	83.37	83.22	83.23	82.73	82.60	82.53	82.50	82.47	
29	82.81	83.25	83.03	83.09	83.28	83.20	83.17	82.72	82.60	82.53		82.46	
30	82.80	83.17	83.01	83.17	83.20	83.21	83.11	82.71	82.59	82.53		82.46	
31		83.08	83.26	83.39		83.06			82.59	82.53		82.46	
Mean	82.90	82.96	83.16	83.21	83.42	83.33	83.53	82.85	82.64	82.55	82.52	82.48	
Max	83.33	83.25	83.32	83.90	84.09	83.94	84.31	83.03	82.71	82.59	82.57	82.49	84.31
Min	82.80	82.77	83.01	82.97	83.14	83.09	83.06	82.71	82.59	82.53	82.50	82.46	82.46
Annual Max Momentary Gage Height	84.45		m. (MSL.) ,				at 21.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation	82.27		m. (MSL.) ,			River Bed	82.83	m.(MSL)					
Left Bank Elevation	88.57		m. (MSL.) ,										
Right Bank Elevation	88.37		m. (MSL.) ,			Drainage Area	518	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	0.95	2.88	2.04	6.50	8.50	14.85	2.16	0.55	0.19	0.13	0.09	
2	1.25	0.90	2.64	1.92	7.00	8.00	31.50	1.92	0.50	0.18	0.12	0.09	
3	1.15	1.00	2.52	1.80	7.25	6.29	20.00	1.74	0.47	0.18	0.13	0.08	
4	1.05	1.10	2.88	1.77	6.75	4.31	15.55	1.68	0.47	0.17	0.16	0.08	
5	1.40	1.10	4.45	1.71	15.20	4.66	12.70	1.65	0.44	0.17	0.17	0.08	
6	1.45	1.00	5.68	1.92	12.40	4.02	16.60	1.65	0.41	0.17	0.16	0.08	
7	1.30	0.95	6.09	2.76	15.55	20.00	11.25	1.59	0.38	0.17	0.15	0.08	
8	1.20	0.90	5.68	2.28	26.50	28.00	9.00	1.53	0.38	0.17	0.13	0.08	
9	1.15	0.90	6.29	2.04	35.50	21.60	12.10	1.71	0.38	0.17	0.13	0.08	
10	1.15	0.85	5.07	1.80	29.50	15.55	7.75	1.56	0.35	0.17	0.13	0.08	
11	1.77	1.15	7.00	1.74	20.80	14.20	7.75	1.50	0.35	0.16	0.13	0.08	
12	7.25	1.45	5.68	1.74	14.20	11.50	11.50	1.40	0.35	0.16	0.13	0.08	
13	4.16	1.59	4.66	2.52	10.50	8.75	47.60	1.30	0.32	0.16	0.12	0.07	
14	3.15	1.59	4.31	12.40	8.00	9.25	33.50	1.20	0.32	0.15	0.12	0.07	
15	2.52	4.31	4.16	26.00	5.68	6.75	20.00	1.15	0.32	0.15	0.12	0.07	
16	1.77	2.52	4.45	22.40	4.02	5.07	18.40	1.10	0.29	0.15	0.11	0.07	
17	1.65	2.40	6.50	13.60	3.58	6.50	25.20	1.05	0.29	0.15	0.12	0.07	
18	1.56	1.77	4.66	10.75	4.86	6.09	15.20	1.05	0.29	0.14	0.11	0.07	
19	1.45	2.16	3.73	8.50	4.02	4.45	11.50	1.00	0.26	0.14	0.11	0.07	
20	1.35	2.40	3.43	8.75	6.75	3.73	10.25	0.95	0.26	0.14	0.11	0.07	
21	1.25	2.16	2.88	8.00	5.48	3.29	11.80	0.85	0.26	0.14	0.11	0.09	
22	1.20	4.16	2.88	6.75	4.16	2.88	8.75	0.80	0.26	0.14	0.10	0.09	
23	1.15	2.76	2.76	5.68	3.87	3.29	10.25	0.75	0.23	0.13	0.10	0.08	
24	1.10	2.04	2.64	4.86	4.16	2.88	8.00	0.75	0.23	0.13	0.10	0.08	
25	1.05	1.71	3.58	4.31	14.20	5.07	7.50	0.70	0.23	0.13	0.10	0.07	
26	1.05	1.74	3.00	3.87	11.00	7.00	6.09	0.70	0.20	0.13	0.10	0.07	
27	1.00	3.43	2.88	3.87	12.10	4.86	7.25	0.65	0.20	0.13	0.10	0.07	
28	1.05	3.00	2.52	3.43	8.25	4.86	5.07	0.65	0.20	0.13	0.10	0.07	
29	1.05	5.48	2.16	2.88	6.09	4.45	4.02	0.60	0.20	0.13		0.06	
30	1.00	4.02	1.92	4.02	4.45	4.66	3.15	0.55	0.19	0.13		0.06	
31		2.76		5.68	8.75		2.52		0.19	0.13		0.06	
Total	49.73	64.25	119.98	181.79	327.07	240.46	426.60	35.89	9.77	4.69	3.40	2.34	1465.97 CMSDAY
Mean	1.66	2.07	4.00	5.86	10.55	8.02	13.76	1.20	0.32	0.15	0.12	0.08	4.02 CMS
Max	7.25	5.48	7.00	26.00	35.50	28.00	47.60	2.16	0.55	0.19	0.17	0.09	47.60 CMS
Min	1.00	0.85	1.92	1.71	3.58	2.88	2.52	0.55	0.19	0.13	0.10	0.06	0.06 CMS
Runoff	4.30	5.55	10.37	15.71	28.26	20.78	36.86	3.10	0.84	0.41	0.29	0.20	126.66 MCM
Momentary Peak	56.25 CMS. at 84.45 m. (MSL.) at 21.00 Hours , on Oct 13 , 2009												
Runoff Yield	7.75 Liters/Second/Square KM.			Momentary Peak Yield			108.591 Liters/Second/Square KM.						

WATER YEAR : 2009**MAE KLONG RIVER BASIN****Khwaie Yai River at Ban Nong Bua , Kanchanaburi (K.35A)**

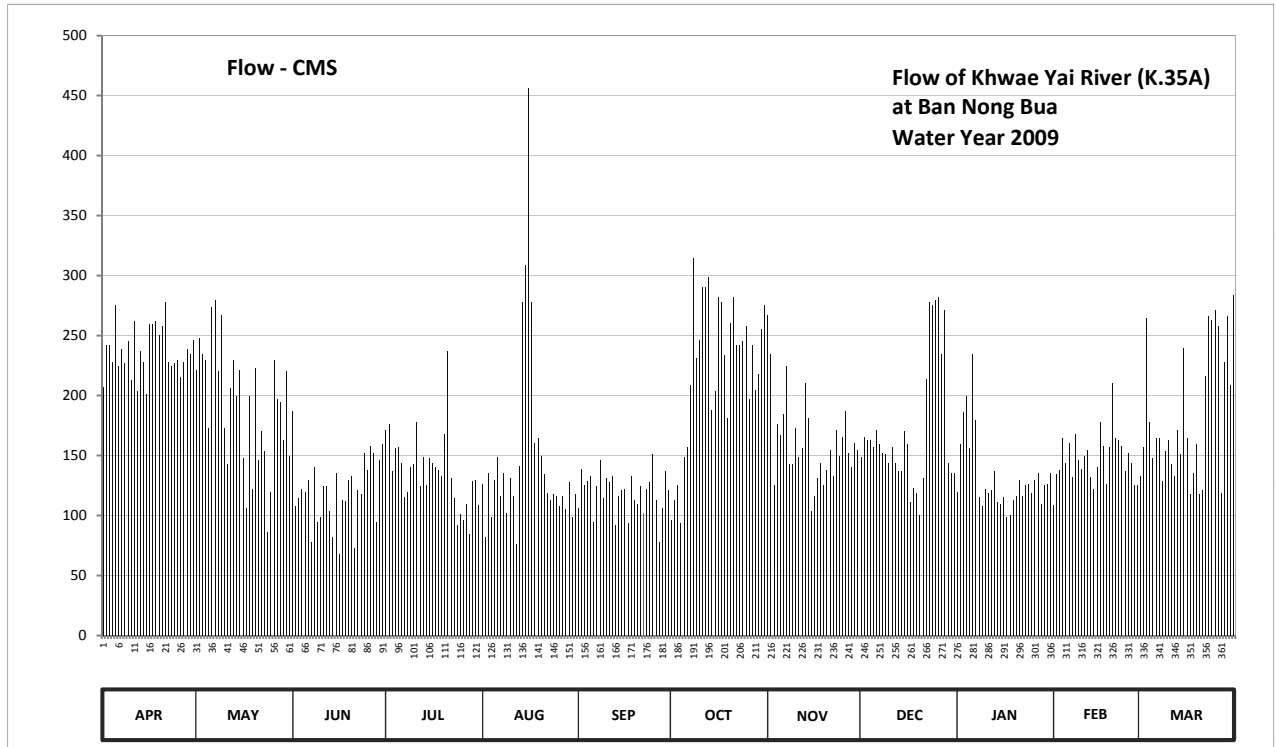
Lat 14 - 03 - 22 N Long 99 - 27 - 32 E

Location : on left bank at Ban Nong Bua.

	Ban Nong Bua	Amphoe Mueang	Changwat Kanchanaburi
Drainage Area	14,444 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+21.498 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 3 meters from the third staff gage.	Elevation	+27.498 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 - 1985 , 1987 to date		
Rated by Flot	-		
Rated by Current Meter	1984 - 1985 , 1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +26.920 m.(MSL.), records are channel flow only.		
General Description	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 72 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.31	25.42	25.15	25.02	24.64	24.46	24.36	25.77	24.83	24.58	24.48	24.70	
2	25.58	25.62	24.47	25.06	24.22	24.75	24.52	25.52	24.97	24.92	24.71	24.90	
3	25.58	25.52	24.53	24.73	24.72	24.63	24.63	24.63	24.95	25.14	24.74	25.75	
4	25.47	25.48	24.60	24.89	24.39	24.66	24.34	25.06	24.95	25.25	24.96	25.07	
5	25.83	25.03	24.58	24.90	24.67	24.70	24.83	24.98	24.90	24.89	24.79	24.82	
6	25.44	25.82	24.67	24.79	24.83	24.35	24.90	25.13	25.02	25.52	24.93	24.96	
7	25.55	25.86	24.18	24.54	24.55	24.62	25.32	25.44	24.92	25.09	24.69	24.96	
8	25.46	25.41	24.76	24.58	24.72	24.81	26.11	24.78	24.86	24.54	24.99	24.66	
9	25.60	25.77	24.35	24.76	24.42	24.53	25.49	24.78	24.85	24.47	24.81	24.87	
10	25.35	25.03	24.39	24.78	24.68	24.68	25.61	25.03	24.79	24.60	24.75	24.95	
11	25.73	24.78	24.62	25.07	24.55	24.65	25.94	24.83	24.90	24.57	24.84	24.78	
12	25.28	25.30	24.62	24.62	24.16	24.70	25.94	24.89	24.79	24.59	24.88	24.70	
13	25.54	25.48	24.43	24.83	24.77	24.32	26.00	25.33	24.73	24.73	24.69	25.02	
14	25.47	25.25	24.22	24.63	25.85	24.55	25.16	25.10	24.73	24.50	24.60	24.85	
15	25.26	25.42	24.72	24.82	26.07	24.59	25.28	24.43	25.01	24.49	24.76	25.56	
16	25.71	24.82	24.08	24.79	27.10	24.60	25.88	24.55	24.92	24.54	25.07	24.96	
17	25.71	24.46	24.52	24.76	25.85	24.34	25.85	24.68	24.50	24.39	24.91	24.56	
18	25.73	25.25	24.51	24.74	24.93	24.70	25.51	24.79	24.61	24.40	24.64	24.72	
19	25.64	24.60	24.67	24.70	24.96	24.52	25.10	24.63	24.57	24.52	24.90	24.92	
20	25.70	25.43	24.70	24.99	24.84	24.49	25.72	24.74	24.40	24.55	25.33	24.56	
21	25.85	24.81	24.13	25.54	24.71	24.62	25.88	24.88	24.68	24.67	24.96	24.59	
22	25.47	25.01	24.59	24.68	24.57	24.42	25.58	24.70	25.36	24.55	24.95	25.38	
23	25.44	24.87	24.56	24.53	24.52	24.60	25.58	25.02	25.85	24.63	24.91	25.76	
24	25.46	24.26	24.86	24.32	24.56	24.65	25.60	24.84	25.83	24.64	24.73	25.74	
25	25.48	24.58	24.74	24.41	24.55	24.85	25.70	24.97	25.86	24.57	24.86	25.80	
26	25.37	25.48	24.91	24.36	24.47	24.52	25.23	25.15	25.88	24.67	24.79	25.70	
27	25.47	25.23	24.86	24.49	24.55	24.18	25.58	24.86	25.52	24.72	24.63	24.57	
28	25.55	25.21	24.35	24.25	24.45	24.46	25.29	24.76	25.80	24.49	24.63	25.47	
29	25.52	24.95	24.81	24.66	24.65	24.73	25.39	24.93	24.79	24.63		25.76	
30	25.61	25.41	24.92	24.67	24.39	24.59	25.68	24.88	24.72	24.64		25.32	
31	24.84		24.48	24.56			25.83		24.72	24.72		25.89	
Mean	25.54	25.17	24.58	24.72	24.80	24.58	25.41	24.94	25.01	24.68	24.82	25.10	
Max	25.85	25.86	25.15	25.54	27.10	24.85	26.11	25.77	25.88	25.52	25.33	25.89	27.10
Min	25.26	24.26	24.08	24.25	24.16	24.18	24.34	24.43	24.40	24.39	24.48	24.56	24.08
Annual Max Momentary Gage Height	28.50		m. (MSL.) ,				at 05.00 Hours , on Aug 16 , 2009						
Zero Gage at Bottom Elevation	21.50		m. (MSL.) ,			River Bed	22.54		m. (MSL)				
Left Bank Elevation	26.91		m. (MSL.) ,										
Right Bank Elevation	31.17		m. (MSL.) ,			Drainage Area	14444		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	207.30	221.60	187.00	171.40	126.40	106.60	96.00	267.10	148.60	119.80	108.80	133.00	
2	242.40	247.60	107.70	176.20	82.00	139.00	113.20	234.60	165.40	159.40	134.20	157.00	
3	242.40	234.60	114.30	136.60	135.40	125.30	125.30	125.30	163.00	185.80	137.80	264.50	
4	228.10	229.40	122.00	155.80	99.00	128.60	94.00	176.20	163.00	199.50	164.20	177.40	
5	275.20	172.60	119.80	157.00	129.70	133.00	148.60	166.60	157.00	155.80	143.80	147.40	
6	224.20	273.80	129.70	143.80	148.60	95.00	157.00	184.60	171.40	234.60	160.60	164.20	
7	238.50	279.40	78.00	115.40	116.50	124.20	208.60	224.20	159.40	179.80	131.90	164.20	
8	226.80	220.30	140.20	119.80	135.40	146.20	314.40	142.60	152.20	115.40	167.80	128.60	
9	245.00	267.10	95.00	140.20	102.20	114.30	230.70	142.60	151.00	107.70	146.20	153.40	
10	212.50	172.60	99.00	142.60	130.80	130.80	246.30	172.60	143.80	122.00	139.00	163.00	
11	261.90	142.60	124.20	177.40	116.50	127.50	290.60	148.60	157.00	118.70	149.80	142.60	
12	203.40	206.00	124.20	124.20	76.00	133.00	290.60	155.80	143.80	120.90	154.60	133.00	
13	237.20	229.40	103.30	148.60	141.40	92.00	299.00	209.90	136.60	136.60	131.90	171.40	
14	228.10	199.50	82.00	125.30	278.00	116.50	188.20	181.00	136.60	111.00	122.00	151.00	
15	200.80	221.60	135.40	147.40	308.80	120.90	203.40	103.30	170.20	109.90	140.20	239.80	
16	259.30	147.40	68.00	143.80	456.00	122.00	282.20	116.50	159.40	115.40	177.40	164.20	
17	259.30	106.60	113.20	140.20	278.00	94.00	278.00	130.80	111.00	99.00	158.20	117.60	
18	261.90	199.50	112.10	137.80	160.60	133.00	233.30	143.80	123.10	100.00	126.40	135.40	
19	250.20	122.00	129.70	133.00	164.20	113.20	181.00	125.30	118.70	113.20	157.00	159.40	
20	258.00	222.90	133.00	167.80	149.80	109.90	260.60	137.80	100.00	116.50	209.90	117.60	
21	278.00	146.20	73.00	237.20	134.20	124.20	282.20	154.60	130.80	129.70	164.20	120.90	
22	228.10	170.20	120.90	130.80	118.70	102.20	242.40	133.00	213.80	116.50	163.00	216.40	
23	224.20	153.40	117.60	114.30	113.20	122.00	242.40	171.40	278.00	125.30	158.20	265.80	
24	226.80	86.00	152.20	92.00	117.60	127.50	245.00	149.80	275.20	126.40	136.60	263.20	
25	229.40	119.80	137.80	101.10	116.50	151.00	258.00	165.40	279.40	118.70	152.20	271.00	
26	215.10	229.40	158.20	96.00	107.70	113.20	196.90	187.00	282.20	129.70	143.80	258.00	
27	228.10	196.90	152.20	109.90	116.50	78.00	242.40	152.20	234.60	135.40	125.30	118.70	
28	238.50	194.30	95.00	85.00	105.50	106.60	204.70	140.20	271.00	109.90	125.30	228.10	
29	234.60	163.00	146.20	128.60	127.50	136.60	217.70	160.60	143.80	125.30		265.80	
30	246.30	220.30	159.40	129.70	99.00	120.90	255.40	154.60	135.40	126.40		208.60	
31		149.80		108.80	117.60		275.20		135.40	135.40		283.60	
Total	7111.60	5945.80	3630.30	4237.70	4609.30	3587.20	6903.30	4858.00	5310.80	4099.70	4130.30	5684.80	60108.80 CMSDAY
Mean	237.05	191.80	121.01	136.70	148.69	119.57	222.69	161.93	171.32	132.25	147.51	183.38	164.68 CMS
Max	278.00	279.40	187.00	237.20	456.00	151.00	314.40	267.10	282.20	234.60	209.90	283.60	456.00 CMS
Min	200.80	86.00	68.00	85.00	76.00	78.00	94.00	103.30	100.00	99.00	108.80	117.60	68.00 CMS
Runoff	614.44	513.72	313.66	366.14	398.24	309.93	596.45	419.73	458.85	354.21	356.86	491.17	5193.40 MCM
Momentary Peak	672.00 CMS. at 28.50 m. (MSL.) at 05.00 Hours , on Aug 16 , 2009												
Runoff Yield	11.40 Liters/Second/Square KM.			Momentary Peak Yield			46.525 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Khwaee Noi River at Ban Wang Yen , Kanchanaburi (K.37)

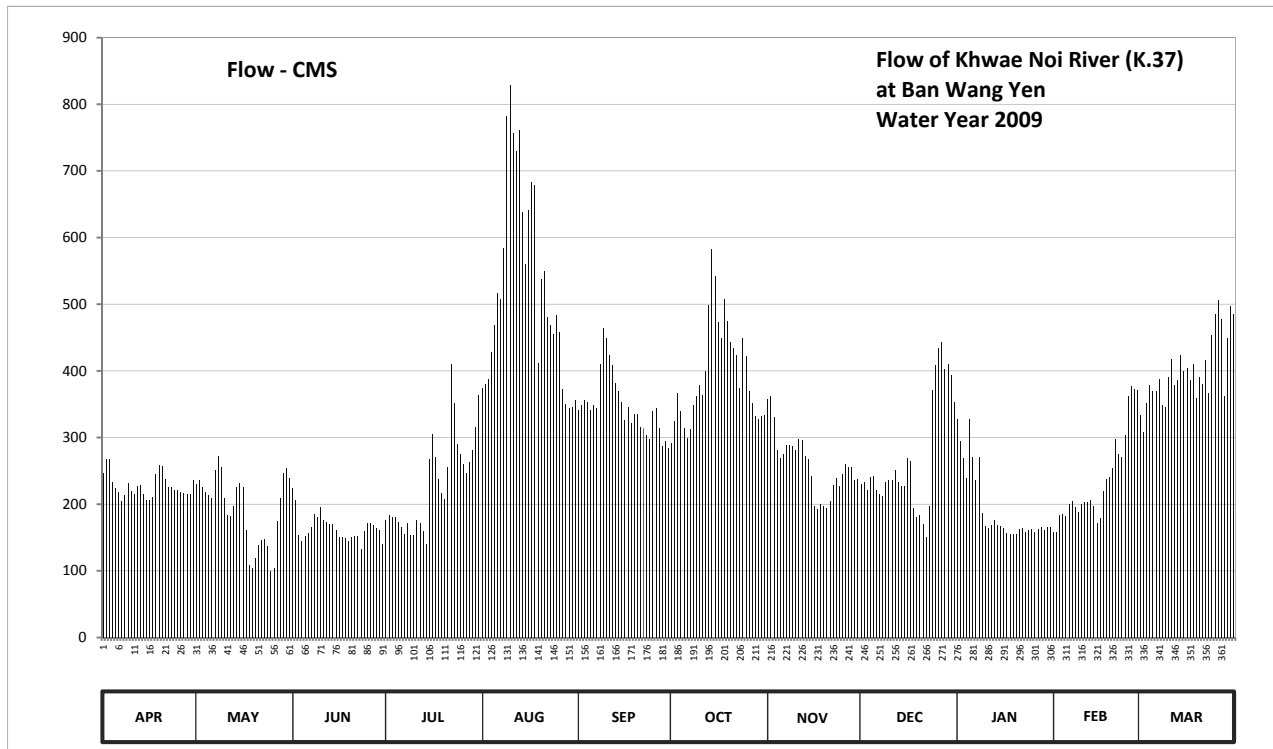
Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

Location : on left bank at Ban Wang Yen.

	Ban Wang Yen	Amphoe Mueang	Changwat Kanchanaburi
Drainage Area	10,557 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+19.840 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5 meters from the automatic gage building.	Elevation	+33.266 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +26.300 m.(MSL.) and is including overbank flow.		
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 39 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.23	24.13	24.09	23.80	24.94	24.76	24.49	24.85	24.13	24.69	23.68	24.72	
2	24.35	24.16	23.98	23.84	24.97	24.80	24.67	24.87	24.15	24.50	23.68	24.58	
3	24.35	24.10	23.65	23.82	25.01	24.84	24.90	24.70	24.08	24.36	23.84	24.82	
4	24.15	24.06	23.59	23.82	25.21	24.83	24.75	24.43	24.19	24.18	23.85	24.96	
5	24.09	24.03	23.64	23.78	25.40	24.76	24.61	24.36	24.20	24.69	23.83	24.91	
6	24.06	24.00	23.67	23.73	25.62	24.80	24.53	24.39	24.08	24.37	23.95	24.91	
7	23.97	24.25	23.73	23.66	25.58	24.78	24.60	24.47	24.04	24.16	23.97	25.01	
8	24.03	24.38	23.85	23.77	25.91	25.12	24.80	24.47	24.02	24.37	23.92	24.80	
9	24.14	24.28	23.82	23.65	26.69	25.38	24.87	24.46	24.15	23.86	23.87	24.79	
10	24.07	24.00	23.92	23.65	26.87	25.31	24.96	24.43	24.16	23.74	23.95	25.02	
11	24.04	23.84	23.80	23.80	26.59	25.19	24.88	24.52	24.16	23.72	23.96	25.16	
12	24.11	23.83	23.78	23.77	26.49	25.11	25.07	24.51	24.25	23.75	23.96	24.96	
13	24.12	23.93	23.76	23.69	26.61	24.98	25.54	24.38	24.15	23.80	23.98	25.00	
14	24.04	24.10	23.76	23.56	26.13	24.91	25.90	24.35	24.11	23.75	23.93	25.19	
15	23.98	24.14	23.70	24.35	25.81	24.83	25.73	24.20	24.11	23.74	23.77	25.07	
16	23.98	24.10	23.63	24.56	26.14	24.68	25.42	23.93	24.36	23.72	23.81	25.09	
17	24.01	23.70	23.63	24.37	26.31	24.79	25.31	23.90	24.33	23.67	24.07	25.00	
18	24.22	23.33	23.62	24.17	26.29	24.65	25.58	23.95	23.91	23.66	24.17	25.12	
19	24.30	23.29	23.59	24.05	25.13	24.73	25.43	23.93	23.82	23.66	24.19	24.86	
20	24.29	23.41	23.63	23.99	25.71	24.73	25.28	23.91	23.84	23.66	24.27	25.02	
21	24.17	23.55	23.64	24.28	25.76	24.62	25.24	23.97	23.76	23.71	24.52	24.97	
22	24.10	23.60	23.64	25.12	25.46	24.61	25.19	24.12	23.63	23.72	24.39	25.15	
23	24.10	23.61	23.51	24.82	25.40	24.55	24.94	24.18	23.93	23.68	24.37	24.90	
24	24.08	23.54	23.69	24.48	25.34	24.52	25.31	24.11	24.92	23.70	24.55	25.33	
25	24.08	23.26	23.77	24.39	25.47	24.75	25.18	24.22	25.11	23.71	24.87	25.48	
26	24.06	23.29	23.77	24.31	25.35	24.78	24.91	24.31	25.24	23.68	24.95	25.57	
27	24.05	23.79	23.75	24.23	24.93	24.61	24.82	24.28	25.28	23.71	24.93	25.44	
28	24.04	24.00	23.72	24.32	24.81	24.46	24.71	24.28	25.08	23.73	24.92	24.87	
29	24.04	24.23	23.70	24.43	24.78	24.50	24.69	24.16	25.12	23.70		25.31	
30	24.16	24.27	23.56	24.62	24.79	24.44	24.71	24.17	25.04	23.73		25.53	
31		24.18		24.88	24.84		24.72		24.83	23.73		25.48	
Mean	24.11	23.88	23.72	24.12	25.62	24.79	25.02	24.29	24.33	23.90	24.15	25.07	
Max	24.35	24.38	24.09	25.12	26.87	25.38	25.90	24.87	25.28	24.69	24.95	25.57	26.87
Min	23.97	23.26	23.51	23.56	24.78	24.44	24.49	23.90	23.63	23.66	23.68	24.58	23.26
Annual Max Momentary Gage Height		27.00		m. (MSL.) ,			at 24.00 Hours , on Aug 9 , 2009						
Zero Gage at Bottom Elevation		19.84		m. (MSL.) ,		River Bed	19.64		M (MSL)				
Left Bank Elevation		26.29		m. (MSL.) ,									
Right Bank Elevation		31.81		m. (MSL.) ,		Drainage Area	10557		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	247.10	230.10	223.40	177.00	374.60	340.80	292.20	357.50	230.10	328.20	158.00	333.60		
2	267.50	235.20	205.80	183.40	380.30	348.00	324.60	361.30	233.50	294.00	158.00	308.40		
3	267.50	225.00	153.50	180.20	388.00	355.60	367.00	330.00	221.80	269.20	183.40	351.80		
4	233.50	218.60	144.60	180.20	428.10	353.70	339.00	281.40	240.30	238.60	185.00	378.40		
5	223.40	213.80	152.00	173.80	468.00	340.80	313.80	269.20	242.00	328.20	181.80	368.90		
6	218.60	209.00	156.50	165.80	516.60	348.00	299.40	274.30	221.80	270.90	201.00	368.90		
7	204.20	250.50	165.80	155.00	507.60	344.40	312.00	288.60	215.40	235.20	204.20	388.00		
8	213.80	272.60	185.00	172.20	584.40	410.00	348.00	288.60	212.20	270.90	196.20	348.00		
9	231.80	255.60	180.20	153.50	782.40	463.80	361.30	286.80	233.50	186.60	188.20	346.20		
10	220.20	209.00	196.20	153.50	829.20	449.10	378.40	281.40	235.20	167.40	201.00	390.00		
11	215.40	183.40	177.00	177.00	756.40	424.00	363.20	297.60	235.20	164.20	202.60	418.00		
12	226.70	181.80	173.80	172.20	730.40	408.00	400.00	295.80	250.50	169.00	202.60	378.40		
13	228.40	197.80	170.60	159.50	761.60	382.20	498.80	272.60	233.50	177.00	205.80	386.00		
14	215.40	225.00	170.60	140.40	638.50	368.90	582.00	267.50	226.70	169.00	197.80	424.00		
15	205.80	231.80	161.00	267.50	560.40	353.70	541.90	242.00	226.70	167.40	172.20	400.00		
16	205.80	225.00	150.50	304.80	641.00	326.40	472.40	197.80	269.20	164.20	178.60	404.00		
17	210.60	161.00	150.50	270.90	683.60	346.20	449.10	193.00	264.10	156.50	220.20	386.00		
18	245.40	108.90	149.00	236.90	678.50	321.00	507.60	201.00	194.60	155.00	236.90	410.00		
19	259.00	103.80	144.60	217.00	412.00	335.40	474.60	197.80	180.20	155.00	240.30	359.40		
20	257.30	119.40	150.50	207.40	537.30	335.40	442.80	194.60	183.40	155.00	253.90	390.00		
21	236.90	139.00	152.00	255.60	548.80	315.60	434.40	204.20	170.60	162.60	297.60	380.30		
22	225.00	146.00	152.00	410.00	481.20	313.80	424.00	228.40	150.50	164.20	274.30	416.00		
23	225.00	147.50	133.40	351.80	468.00	303.00	374.60	238.60	197.80	158.00	270.90	367.00		
24	221.80	137.60	159.50	290.40	455.40	297.60	449.10	226.70	370.80	161.00	303.00	453.30		
25	221.80	100.20	172.20	274.30	483.40	339.00	422.00	245.40	408.00	162.60	361.30	485.60		
26	218.60	103.80	172.20	260.70	457.50	344.40	368.90	260.70	434.40	158.00	376.50	505.40		
27	217.00	175.40	169.00	247.10	372.70	313.80	351.80	255.60	442.80	162.60	372.70	476.80		
28	215.40	209.00	164.20	262.40	349.90	286.80	331.80	255.60	402.00	165.80	370.80	361.30		
29	215.40	247.10	161.00	281.40	344.40	294.00	328.20	235.20	410.00	161.00		449.10		
30	235.20	253.90	140.40	315.60	346.20	283.20	331.80	236.90	394.00	165.80		496.60		
31		238.60		363.20	355.60		333.60		353.70	165.80		485.60		
Total	6829.50	5955.40	4937.00	7160.70	16322.00	10446.60	12218.30	7766.10	8284.50	6008.90	6594.80	12415.00	104938.80	CMSDAY
Mean	227.65	192.11	164.57	230.99	526.52	348.22	394.14	258.87	267.24	193.84	235.53	400.48	287.50	CMS
Max	267.50	272.60	223.40	410.00	829.20	463.80	582.00	361.30	442.80	328.20	376.50	505.40	829.20	CMS
Min	204.20	100.20	133.40	140.40	344.40	283.20	292.20	193.00	150.50	155.00	158.00	308.40	100.20	CMS
Runoff	590.07	514.55	426.56	618.68	1410.22	902.59	1055.66	670.99	715.78	519.17	569.79	1072.66	9066.71	MCM
Momentary Peak	863.00 CMS. at 27.00 m. (MSL.) at 24.00 Hours , on Aug 9 , 2009													
Runoff Yield	27.23 Liters/Second/Square KM.			Momentary Peak Yield				81.747 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

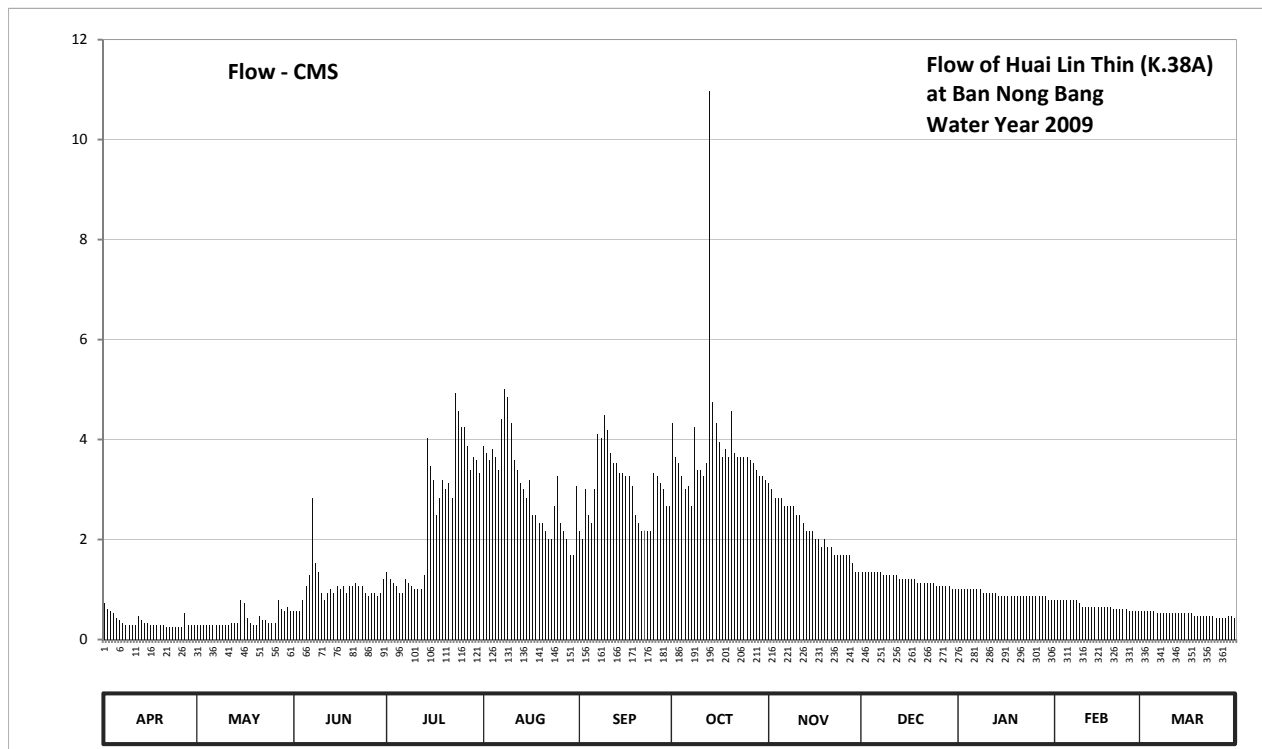
Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	Ban	Nong Bang	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	122	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+90.019 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+95.463 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2009					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.61	90.52	90.58	90.70	90.93	90.75	90.99	90.82	90.70	90.65	90.62	90.58	
2	90.59	90.52	90.58	90.68	90.91	90.74	90.90	90.80	90.70	90.65	90.62	90.58	
3	90.58	90.52	90.58	90.67	90.89	90.80	90.88	90.79	90.70	90.65	90.62	90.58	
4	90.57	90.52	90.62	90.66	90.92	90.77	90.84	90.79	90.70	90.65	90.62	90.58	
5	90.55	90.52	90.66	90.64	90.90	90.76	90.80	90.79	90.70	90.65	90.62	90.58	
6	90.54	90.52	90.69	90.64	90.86	90.80	90.81	90.78	90.70	90.65	90.62	90.57	
7	90.53	90.52	90.79	90.68	91.00	90.96	90.78	90.78	90.70	90.65	90.62	90.57	
8	90.52	90.52	90.71	90.67	91.07	90.95	90.98	90.78	90.69	90.65	90.62	90.57	
9	90.52	90.52	90.70	90.66	91.05	91.01	90.86	90.78	90.69	90.64	90.61	90.57	
10	90.52	90.52	90.64	90.65	90.99	90.97	90.86	90.77	90.69	90.64	90.60	90.57	
11	90.52	90.52	90.62	90.65	90.89	90.91	90.84	90.77	90.69	90.64	90.60	90.57	
12	90.56	90.53	90.64	90.65	90.86	90.88	90.88	90.76	90.69	90.64	90.60	90.57	
13	90.54	90.53	90.65	90.69	90.82	90.88	91.57	90.75	90.68	90.64	90.60	90.57	
14	90.53	90.53	90.64	90.95	90.80	90.85	91.04	90.75	90.68	90.63	90.60	90.57	
15	90.53	90.62	90.66	90.87	90.79	90.85	90.99	90.75	90.68	90.63	90.60	90.57	
16	90.52	90.61	90.65	90.83	90.83	90.84	90.94	90.74	90.68	90.63	90.60	90.57	
17	90.52	90.55	90.66	90.77	90.77	90.84	90.90	90.74	90.68	90.63	90.60	90.57	
18	90.52	90.53	90.64	90.79	90.77	90.81	90.92	90.73	90.68	90.63	90.60	90.56	
19	90.52	90.52	90.66	90.83	90.76	90.77	90.90	90.74	90.67	90.63	90.60	90.56	
20	90.52	90.52	90.66	90.80	90.76	90.76	91.02	90.73	90.67	90.63	90.59	90.56	
21	90.51	90.56	90.67	90.82	90.75	90.75	90.91	90.73	90.67	90.63	90.59	90.56	
22	90.51	90.54	90.66	90.79	90.74	90.75	90.90	90.72	90.67	90.63	90.59	90.56	
23	90.51	90.54	90.66	91.06	90.74	90.75	90.90	90.72	90.67	90.63	90.59	90.56	
24	90.51	90.53	90.64	91.02	90.78	90.75	90.90	90.72	90.67	90.63	90.59	90.56	
25	90.51	90.53	90.63	90.98	90.84	90.85	90.90	90.72	90.66	90.63	90.58	90.55	
26	90.51	90.53	90.64	90.98	90.76	90.84	90.89	90.72	90.66	90.63	90.58	90.55	
27	90.57	90.62	90.64	90.93	90.75	90.82	90.88	90.72	90.66	90.63	90.58	90.55	
28	90.52	90.59	90.63	90.86	90.74	90.80	90.86	90.71	90.66	90.63	90.58	90.55	
29	90.52	90.58	90.64	90.90	90.72	90.78	90.84	90.70	90.66	90.63		90.56	
30	90.52	90.60	90.68	90.89	90.72	90.78	90.84	90.70	90.65	90.62		90.56	
31		90.58		90.85	90.81		90.83		90.65	90.62		90.55	
Mean	90.53	90.54	90.65	90.79	90.84	90.83	90.91	90.75	90.68	90.64	90.60	90.57	
Max	90.61	90.62	90.79	91.06	91.07	91.01	91.57	90.82	90.70	90.65	90.62	90.58	91.57
Min	90.51	90.52	90.58	90.64	90.72	90.74	90.78	90.70	90.65	90.62	90.58	90.55	90.51
Annual Max Momentary Gage Height		92.12		m. (MSL.) ,			at 10.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation		90.02		m. (MSL.) ,		River Bed	90.34		m. (MSL)				
Left Bank Elevation		95.39		m. (MSL.) ,									
Right Bank Elevation		95.41		m. (MSL.) ,		Drainage Area	122		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.29	0.56	1.35	3.87	2.18	4.32	3.13	1.35	1.00	0.79	0.56	
2	0.60	0.29	0.56	1.21	3.73	2.01	3.65	3.00	1.35	1.00	0.79	0.56	
3	0.56	0.29	0.56	1.14	3.58	3.00	3.52	2.83	1.35	1.00	0.79	0.56	
4	0.52	0.29	0.79	1.07	3.80	2.50	3.26	2.83	1.35	1.00	0.79	0.56	
5	0.43	0.29	1.07	0.93	3.65	2.34	3.00	2.83	1.35	1.00	0.79	0.56	
6	0.38	0.29	1.28	0.93	3.39	3.00	3.06	2.67	1.35	1.00	0.79	0.52	
7	0.33	0.29	2.83	1.21	4.40	4.10	2.67	2.67	1.35	1.00	0.79	0.52	
8	0.29	0.29	1.52	1.14	5.01	4.02	4.25	2.67	1.28	1.00	0.79	0.52	
9	0.29	0.29	1.35	1.07	4.84	4.49	3.39	2.67	1.28	0.93	0.72	0.52	
10	0.29	0.29	0.93	1.00	4.32	4.18	3.39	2.50	1.28	0.93	0.65	0.52	
11	0.29	0.29	0.79	1.00	3.58	3.73	3.26	2.50	1.28	0.93	0.65	0.52	
12	0.47	0.33	0.93	1.00	3.39	3.52	3.52	2.34	1.28	0.93	0.65	0.52	
13	0.38	0.33	1.00	1.28	3.13	3.52	10.98	2.18	1.21	0.93	0.65	0.52	
14	0.33	0.33	0.93	4.02	3.00	3.32	4.75	2.18	1.21	0.86	0.65	0.52	
15	0.33	0.79	1.07	3.46	2.83	3.32	4.32	2.18	1.21	0.86	0.65	0.52	
16	0.29	0.72	1.00	3.19	3.19	3.26	3.95	2.01	1.21	0.86	0.65	0.52	
17	0.29	0.43	1.07	2.50	2.50	3.26	3.65	2.01	1.21	0.86	0.65	0.52	
18	0.29	0.33	0.93	2.83	2.50	3.06	3.80	1.85	1.21	0.86	0.65	0.47	
19	0.29	0.29	1.07	3.19	2.34	2.50	3.65	2.01	1.14	0.86	0.65	0.47	
20	0.29	0.29	1.07	3.00	2.34	2.34	4.57	1.85	1.14	0.86	0.60	0.47	
21	0.25	0.47	1.14	3.13	2.18	2.18	3.73	1.85	1.14	0.86	0.60	0.47	
22	0.25	0.38	1.07	2.83	2.01	2.18	3.65	1.68	1.14	0.86	0.60	0.47	
23	0.25	0.38	1.07	4.92	2.01	2.18	3.65	1.68	1.14	0.86	0.60	0.47	
24	0.25	0.33	0.93	4.57	2.67	2.18	3.65	1.68	1.14	0.86	0.60	0.47	
25	0.25	0.33	0.86	4.25	3.26	3.32	3.65	1.68	1.07	0.86	0.56	0.43	
26	0.25	0.33	0.93	4.25	2.34	3.26	3.58	1.68	1.07	0.86	0.56	0.43	
27	0.52	0.79	0.93	3.87	2.18	3.13	3.52	1.68	1.07	0.86	0.56	0.43	
28	0.29	0.60	0.86	3.39	2.01	3.00	3.39	1.52	1.07	0.86	0.56	0.43	
29	0.29	0.56	0.93	3.65	1.68	2.67	3.26	1.35	1.07	0.86		0.47	
30	0.29	0.65	1.21	3.58	1.68	2.67	3.26	1.35	1.00	0.79		0.47	
31		0.56		3.32	3.06		3.19		1.00	0.79		0.43	
Total	10.55	12.41	31.24	78.28	94.47	90.42	119.49	65.06	37.30	27.99	18.78	15.42	601.41 CMSDAY
Mean	0.35	0.40	1.04	2.53	3.05	3.01	3.85	2.17	1.20	0.90	0.67	0.50	1.65 CMS
Max	0.72	0.79	2.83	4.92	5.01	4.49	10.98	3.13	1.35	1.00	0.79	0.56	10.98 CMS
Min	0.25	0.29	0.56	0.93	1.68	2.01	2.67	1.35	1.00	0.79	0.56	0.43	0.25 CMS
Runoff	0.91	1.07	2.70	6.76	8.16	7.81	10.32	5.62	3.22	2.42	1.62	1.33	51.96 MCM
Momentary Peak	21.20 CMS. at 92.12 m. (MSL) at 10.00 Hours , on Oct 13 , 2009												
Runoff Yield	13.47 Liters/Second/Square KM.			Momentary Peak Yield			173.316 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)

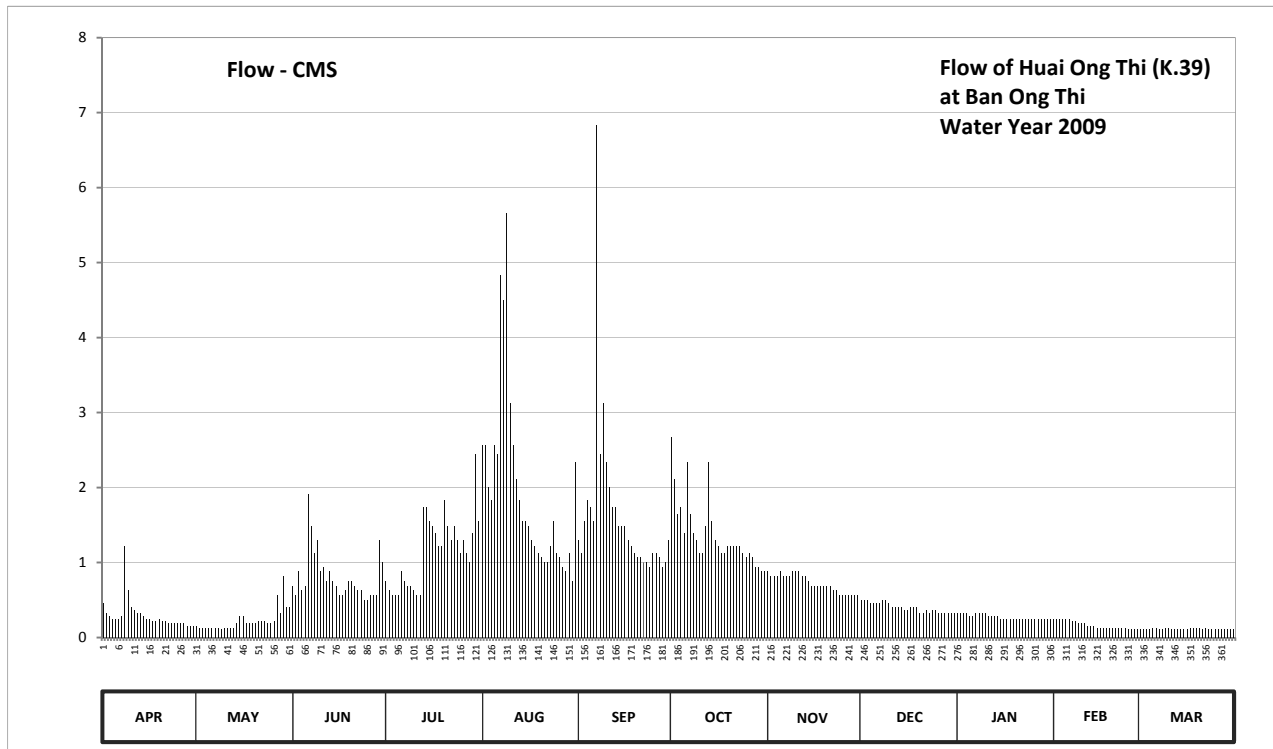
Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	Ban	Ong Thi	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	51	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+81.783	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 16 meters from the third staff gage.				Elevation	+91.299 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1985 - 1990 , 1996 to date					
Rated by Flot	-					
Rated by Current Meter	1985 - 1990 , 1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.09	82.00	82.13	82.14	82.35	82.22	82.36	82.16	82.10	82.05	82.03	81.98	
2	82.05	81.99	82.11	82.12	82.35	82.20	82.31	82.15	82.10	82.05	82.03	81.97	
3	82.04	81.99	82.16	82.11	82.30	82.25	82.26	82.15	82.10	82.05	82.03	81.98	
4	82.03	81.99	82.12	82.11	82.28	82.28	82.27	82.15	82.09	82.05	82.03	81.98	
5	82.03	81.99	82.13	82.11	82.35	82.27	82.23	82.16	82.09	82.04	82.03	81.99	
6	82.03	81.99	82.29	82.16	82.34	82.25	82.33	82.15	82.09	82.04	82.03	81.99	
7	82.04	81.99	82.24	82.14	82.52	82.64	82.26	82.15	82.09	82.05	82.02	81.97	
8	82.21	81.99	82.20	82.13	82.50	82.34	82.23	82.15	82.10	82.05	82.02	81.98	
9	82.12	81.98	82.22	82.13	82.57	82.40	82.22	82.16	82.10	82.05	82.01	81.99	
10	82.07	81.99	82.16	82.12	82.40	82.33	82.20	82.16	82.09	82.05	82.01	81.99	
11	82.06	81.99	82.17	82.11	82.35	82.30	82.20	82.16	82.07	82.04	82.01	81.98	
12	82.05	81.99	82.14	82.11	82.31	82.27	82.24	82.15	82.07	82.04	82.00	81.98	
13	82.05	81.99	82.16	82.27	82.28	82.27	82.33	82.15	82.07	82.04	82.00	81.98	
14	82.04	82.01	82.14	82.27	82.25	82.24	82.25	82.14	82.07	82.04	82.00	81.98	
15	82.03	82.04	82.13	82.25	82.25	82.24	82.22	82.13	82.06	82.03	81.99	81.98	
16	82.03	82.04	82.11	82.24	82.24	82.24	82.21	82.13	82.06	82.03	81.99	81.98	
17	82.02	82.01	82.11	82.23	82.22	82.22	82.20	82.13	82.07	82.03	81.99	81.99	
18	82.02	82.01	82.12	82.21	82.21	82.21	82.20	82.13	82.07	82.03	81.99	81.99	
19	82.03	82.01	82.14	82.21	82.20	82.20	82.21	82.13	82.07	82.03	81.99	81.99	
20	82.02	82.01	82.14	82.28	82.19	82.19	82.21	82.13	82.05	82.03	81.99	81.99	
21	82.02	82.02	82.13	82.24	82.18	82.19	82.21	82.13	82.05	82.03	81.99	81.98	
22	82.01	82.02	82.12	82.22	82.18	82.18	82.21	82.12	82.06	82.03	81.99	81.99	
23	82.01	82.02	82.12	82.24	82.21	82.18	82.21	82.12	82.05	82.03	81.99	81.98	
24	82.01	82.01	82.10	82.22	82.25	82.17	82.20	82.11	82.06	82.03	81.99	81.98	
25	82.01	82.01	82.10	82.20	82.20	82.20	82.19	82.11	82.06	82.03	81.98	81.97	
26	82.01	82.02	82.11	82.22	82.19	82.20	82.20	82.11	82.05	82.03	81.98	81.97	
27	82.01	82.11	82.11	82.20	82.17	82.19	82.19	82.11	82.05	82.03	81.98	81.97	
28	82.00	82.05	82.11	82.18	82.16	82.17	82.17	82.11	82.05	82.03	81.98	81.97	
29	82.00	82.15	82.22	82.23	82.20	82.18	82.17	82.11	82.05	82.03		81.97	
30	82.00	82.07	82.18	82.34	82.14	82.22	82.16	82.11	82.05	82.03		81.97	
31		82.07		82.25	82.33		82.16		82.05	82.03		81.97	
Mean	82.04	82.02	82.15	82.19	82.28	82.25	82.23	82.14	82.07	82.04	82.00	81.98	
Max	82.21	82.15	82.29	82.34	82.57	82.64	82.36	82.16	82.10	82.05	82.03	81.99	82.64
Min	82.00	81.98	82.10	82.11	82.14	82.17	82.16	82.11	82.05	82.03	81.98	81.97	81.97
Annual Max Momentary Gage Height	83.17		m. (MSL.) ,			at 09.00 Hours , on Sep 7 , 2009							
Zero Gage at Bottom Elevation	81.78		m. (MSL.) ,			River Bed	81.72		m. (MSL)				
Left Bank Elevation	88.97		m. (MSL.) ,										
Right Bank Elevation	90.15		m. (MSL.) ,			Drainage Area	51		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.15	0.69	0.75	2.56	1.30	2.67	0.88	0.50	0.33	0.25	0.12	
2	0.33	0.13	0.56	0.63	2.56	1.13	2.11	0.82	0.50	0.33	0.25	0.11	
3	0.29	0.13	0.88	0.56	2.00	1.56	1.65	0.82	0.50	0.33	0.25	0.12	
4	0.25	0.13	0.63	0.56	1.83	1.83	1.74	0.82	0.46	0.33	0.25	0.12	
5	0.25	0.13	0.69	0.56	2.56	1.74	1.39	0.88	0.46	0.29	0.25	0.13	
6	0.25	0.13	1.91	0.88	2.45	1.56	2.34	0.82	0.46	0.29	0.25	0.13	
7	0.29	0.13	1.48	0.75	4.83	6.83	1.65	0.82	0.46	0.33	0.22	0.11	
8	1.22	0.13	1.13	0.69	4.50	2.45	1.39	0.82	0.50	0.33	0.22	0.12	
9	0.63	0.12	1.30	0.69	5.66	3.12	1.30	0.88	0.50	0.33	0.19	0.13	
10	0.40	0.13	0.88	0.63	3.12	2.34	1.13	0.88	0.46	0.33	0.19	0.13	
11	0.36	0.13	0.94	0.56	2.56	2.00	1.13	0.88	0.40	0.29	0.19	0.12	
12	0.33	0.13	0.75	0.56	2.11	1.74	1.48	0.82	0.40	0.29	0.15	0.12	
13	0.33	0.13	0.88	1.74	1.83	1.74	2.34	0.82	0.40	0.29	0.15	0.12	
14	0.29	0.19	0.75	1.74	1.56	1.48	1.56	0.75	0.40	0.29	0.15	0.12	
15	0.25	0.29	0.69	1.56	1.56	1.48	1.30	0.69	0.36	0.25	0.13	0.12	
16	0.25	0.29	0.56	1.48	1.48	1.48	1.22	0.69	0.36	0.25	0.13	0.12	
17	0.22	0.19	0.56	1.39	1.30	1.30	1.13	0.69	0.40	0.25	0.13	0.13	
18	0.22	0.19	0.63	1.22	1.22	1.22	1.13	0.69	0.40	0.25	0.13	0.13	
19	0.25	0.19	0.75	1.22	1.13	1.13	1.22	0.69	0.40	0.25	0.13	0.13	
20	0.22	0.19	0.75	1.83	1.07	1.07	1.22	0.69	0.33	0.25	0.13	0.13	
21	0.22	0.22	0.69	1.48	1.00	1.07	1.22	0.69	0.33	0.25	0.13	0.12	
22	0.19	0.22	0.63	1.30	1.00	1.00	1.22	0.63	0.36	0.25	0.13	0.13	
23	0.19	0.22	0.63	1.48	1.22	1.00	1.22	0.63	0.33	0.25	0.13	0.12	
24	0.19	0.19	0.50	1.30	1.56	0.94	1.13	0.56	0.36	0.25	0.13	0.12	
25	0.19	0.19	0.50	1.13	1.13	1.13	1.07	0.56	0.36	0.25	0.12	0.11	
26	0.19	0.22	0.56	1.30	1.07	1.13	1.13	0.56	0.33	0.25	0.12	0.11	
27	0.19	0.56	0.56	1.13	0.94	1.07	1.07	0.56	0.33	0.25	0.12	0.11	
28	0.15	0.33	0.56	1.00	0.88	0.94	0.94	0.56	0.33	0.25	0.12	0.11	
29	0.15	0.82	1.30	1.39	1.13	1.00	0.94	0.56	0.33	0.25		0.11	
30	0.15	0.40	1.00	2.45	0.75	1.30	0.88	0.56	0.33	0.25		0.11	
31		0.40		1.56	2.34		0.88		0.33	0.25		0.11	
Total	8.90	7.00	24.34	35.52	60.91	49.08	42.80	21.72	12.37	8.63	4.74	3.72	279.73 CMSDAY
Mean	0.30	0.23	0.81	1.15	1.96	1.64	1.38	0.72	0.40	0.28	0.17	0.12	0.77 CMS
Max	1.22	0.82	1.91	2.45	5.66	6.83	2.67	0.88	0.50	0.33	0.25	0.13	6.83 CMS
Min	0.15	0.12	0.50	0.56	0.75	0.94	0.88	0.56	0.33	0.25	0.12	0.11	0.11 CMS
Runoff	0.77	0.61	2.10	3.07	5.26	4.24	3.70	1.88	1.07	0.75	0.41	0.32	24.17 MCM
Momentary Peak	19.71 CMS. at 83.17 m. (MSL.) at 09.00 Hours , on Sep 7 , 2009												
Runoff Yield	15.00 Liters/Second/Square KM.			Momentary Peak Yield			385.714 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)

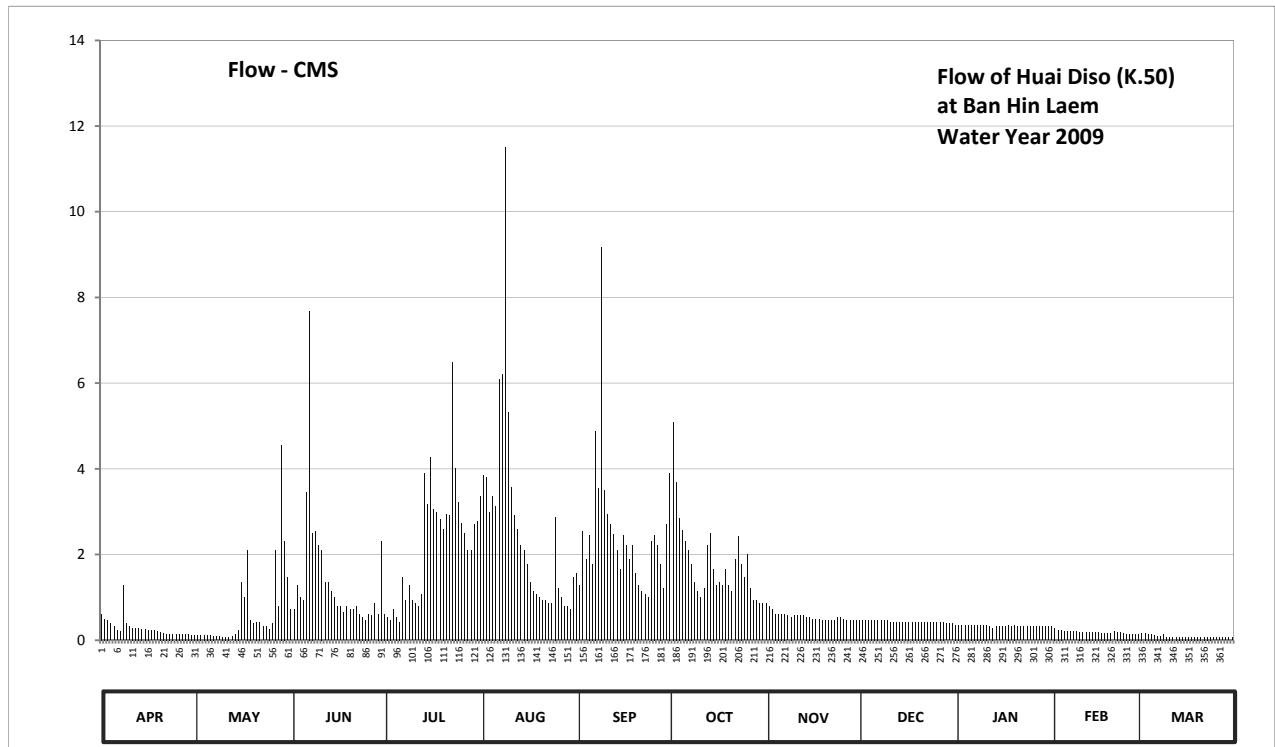
Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

	Ban Hin Laem	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	123 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+79.811 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	Elevation	+85.827 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1987 , 1996 to date		
Rated by Flot	-		
Rated by Current Meter	1987, 1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	80.59	80.41	80.61	80.59	81.08	80.72	81.20	80.63	80.55	80.52	80.51	80.42	
2	80.56	80.41	80.61	80.57	81.19	80.69	81.41	80.62	80.55	80.52	80.50	80.44	
3	80.55	80.41	80.69	80.55	81.18	80.84	81.15	80.61	80.55	80.52	80.48	80.44	
4	80.53	80.41	80.65	80.61	81.00	80.75	80.95	80.59	80.55	80.52	80.48	80.43	
5	80.51	80.41	80.64	80.57	81.08	80.81	80.85	80.59	80.55	80.52	80.46	80.42	
6	80.47	80.41	81.10	80.54	81.03	80.74	80.79	80.59	80.55	80.52	80.46	80.41	
7	80.46	80.40	81.67	80.71	81.53	81.38	80.77	80.59	80.55	80.52	80.46	80.40	
8	80.69	80.39	80.83	80.64	81.54	81.12	80.74	80.58	80.55	80.52	80.46	80.40	
9	80.53	80.39	80.84	80.69	81.90	81.77	80.70	80.57	80.55	80.52	80.46	80.42	
10	80.51	80.38	80.78	80.64	81.44	81.11	80.67	80.58	80.55	80.52	80.45	80.38	
11	80.50	80.38	80.77	80.63	81.13	80.98	80.65	80.58	80.54	80.52	80.45	80.38	
12	80.50	80.38	80.70	80.62	80.97	80.90	80.68	80.58	80.54	80.51	80.45	80.38	
13	80.50	80.39	80.70	80.66	80.86	80.82	80.78	80.58	80.54	80.50	80.45	80.38	
14	80.49	80.43	80.67	81.20	80.78	80.77	80.83	80.57	80.54	80.51	80.45	80.38	
15	80.49	80.48	80.65	81.04	80.77	80.73	80.73	80.57	80.54	80.51	80.45	80.38	
16	80.48	80.70	80.62	81.27	80.74	80.81	80.69	80.56	80.54	80.51	80.45	80.37	
17	80.47	80.65	80.62	81.01	80.70	80.78	80.70	80.56	80.54	80.51	80.44	80.37	
18	80.47	80.77	80.60	81.00	80.67	80.75	80.69	80.56	80.54	80.52	80.44	80.37	
19	80.46	80.55	80.62	80.94	80.66	80.78	80.73	80.55	80.54	80.51	80.44	80.37	
20	80.45	80.53	80.61	80.86	80.65	80.72	80.69	80.55	80.54	80.52	80.44	80.37	
21	80.44	80.54	80.61	80.98	80.64	80.69	80.67	80.55	80.54	80.51	80.46	80.37	
22	80.43	80.54	80.62	80.97	80.64	80.67	80.75	80.55	80.54	80.51	80.45	80.37	
23	80.42	80.51	80.59	81.57	80.63	80.66	80.80	80.55	80.54	80.51	80.45	80.37	
24	80.42	80.51	80.57	81.22	80.63	80.65	80.74	80.57	80.54	80.51	80.44	80.37	
25	80.42	80.49	80.55	81.05	80.96	80.79	80.71	80.57	80.54	80.51	80.42	80.36	
26	80.42	80.53	80.59	80.91	80.68	80.81	80.76	80.56	80.54	80.51	80.42	80.36	
27	80.42	80.77	80.58	80.83	80.65	80.78	80.68	80.55	80.54	80.51	80.42	80.36	
28	80.43	80.62	80.63	80.77	80.62	80.74	80.64	80.55	80.54	80.51	80.42	80.36	
29	80.42	81.32	80.59	80.77	80.62	80.68	80.64	80.55	80.53	80.51		80.36	
30	80.41	80.79	80.79	80.90	80.61	80.90	80.63	80.55	80.53	80.51		80.36	
31		80.71		80.93	80.71		80.63		80.53	80.51		80.36	
Mean	80.48	80.54	80.70	80.85	80.91	80.84	80.78	80.57	80.54	80.51	80.45	80.38	
Max	80.69	81.32	81.67	81.57	81.90	81.77	81.41	80.63	80.55	80.52	80.51	80.44	81.90
Min	80.41	80.38	80.55	80.54	80.61	80.65	80.63	80.55	80.53	80.50	80.42	80.36	80.36
Annual Max Momentary Gage Height	82.05		m. (MSL.) ,				at 06.00 Hours , on Sep 9 , 2009						
Zero Gage at Bottom Elevation	79.81		m. (MSL.) ,			River Bed	80.06	m. (MSL)					
Left Bank Elevation		84.86		m. (MSL.) ,									
Right Bank Elevation		84.94		m. (MSL.) ,		Drainage Area	123	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.61	0.12	0.72	0.61	3.36	1.57	3.90	0.86	0.47	0.35	0.32	0.14	
2	0.50	0.12	0.72	0.54	3.86	1.28	5.08	0.79	0.47	0.35	0.28	0.17	
3	0.47	0.12	1.28	0.47	3.81	2.54	3.68	0.72	0.47	0.35	0.24	0.17	
4	0.39	0.12	1.00	0.72	3.00	1.89	2.85	0.61	0.47	0.35	0.24	0.15	
5	0.32	0.12	0.93	0.54	3.36	2.46	2.56	0.61	0.47	0.35	0.21	0.14	
6	0.23	0.12	3.45	0.43	3.13	1.78	2.32	0.61	0.47	0.35	0.21	0.12	
7	0.21	0.10	7.68	1.46	6.10	4.89	2.11	0.61	0.47	0.35	0.21	0.10	
8	1.28	0.09	2.51	0.93	6.20	3.54	1.78	0.58	0.47	0.35	0.21	0.10	
9	0.39	0.09	2.54	1.28	11.50	9.17	1.35	0.54	0.47	0.35	0.21	0.14	
10	0.32	0.08	2.21	0.93	5.32	3.50	1.14	0.58	0.47	0.35	0.19	0.08	
11	0.28	0.08	2.11	0.86	3.58	2.94	1.00	0.58	0.43	0.35	0.19	0.08	
12	0.28	0.08	1.35	0.79	2.91	2.70	1.21	0.58	0.43	0.32	0.19	0.08	
13	0.28	0.09	1.35	1.07	2.59	2.48	2.21	0.58	0.43	0.28	0.19	0.08	
14	0.26	0.15	1.14	3.90	2.21	2.11	2.51	0.54	0.43	0.32	0.19	0.08	
15	0.26	0.24	1.00	3.18	2.11	1.67	1.67	0.54	0.43	0.32	0.19	0.08	
16	0.24	1.35	0.79	4.28	1.78	2.46	1.28	0.50	0.43	0.32	0.19	0.07	
17	0.23	1.00	0.79	3.05	1.35	2.21	1.35	0.50	0.43	0.32	0.17	0.07	
18	0.23	2.11	0.65	3.00	1.14	1.89	1.28	0.50	0.43	0.35	0.17	0.07	
19	0.21	0.47	0.79	2.82	1.07	2.21	1.67	0.47	0.43	0.32	0.17	0.07	
20	0.19	0.39	0.72	2.59	1.00	1.57	1.28	0.47	0.43	0.35	0.17	0.07	
21	0.17	0.43	0.72	2.94	0.93	1.28	1.14	0.47	0.43	0.32	0.21	0.07	
22	0.15	0.43	0.79	2.91	0.93	1.14	1.89	0.47	0.43	0.32	0.19	0.07	
23	0.14	0.32	0.61	6.50	0.86	1.07	2.43	0.47	0.43	0.32	0.19	0.07	
24	0.14	0.32	0.54	4.01	0.86	1.00	1.78	0.54	0.43	0.32	0.17	0.07	
25	0.14	0.26	0.47	3.23	2.88	2.32	1.46	0.54	0.43	0.32	0.14	0.06	
26	0.14	0.39	0.61	2.73	1.21	2.46	2.00	0.50	0.43	0.32	0.14	0.06	
27	0.14	2.11	0.58	2.51	1.00	2.21	1.21	0.47	0.43	0.32	0.14	0.06	
28	0.15	0.79	0.86	2.11	0.79	1.78	0.93	0.47	0.43	0.32	0.14	0.06	
29	0.14	4.56	0.61	2.11	0.79	1.21	0.93	0.47	0.39	0.32		0.06	
30	0.12	2.32	2.32	2.70	0.72	2.70	0.86	0.47	0.39	0.32		0.06	
31		1.46		2.79	1.46		0.86		0.39	0.32		0.06	
Total	8.61	20.43	41.84	67.99	81.81	72.03	57.72	16.64	13.61	10.27	5.46	2.76	399.17 CMSDAY
Mean	0.29	0.66	1.39	2.19	2.64	2.40	1.86	0.55	0.44	0.33	0.20	0.09	1.09 CMS
Max	1.28	4.56	7.68	6.50	11.50	9.17	5.08	0.86	0.47	0.35	0.32	0.17	11.50 CMS
Min	0.12	0.08	0.47	0.43	0.72	1.00	0.86	0.47	0.39	0.28	0.14	0.06	0.06 CMS
Runoff	0.74	1.77	3.62	5.87	7.07	6.22	4.99	1.44	1.18	0.89	0.47	0.24	34.49 MCM
Momentary Peak	14.78 CMS. at 82.05 m. (MSL) at 06.00 Hours , on Sep 9, 2009												
Runoff Yield	8.89 Liters/Second/Square KM.			Momentary Peak Yield			120.163 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Mae Kraban at Ban Si Mong Khon , Kanchanaburi (K.53)

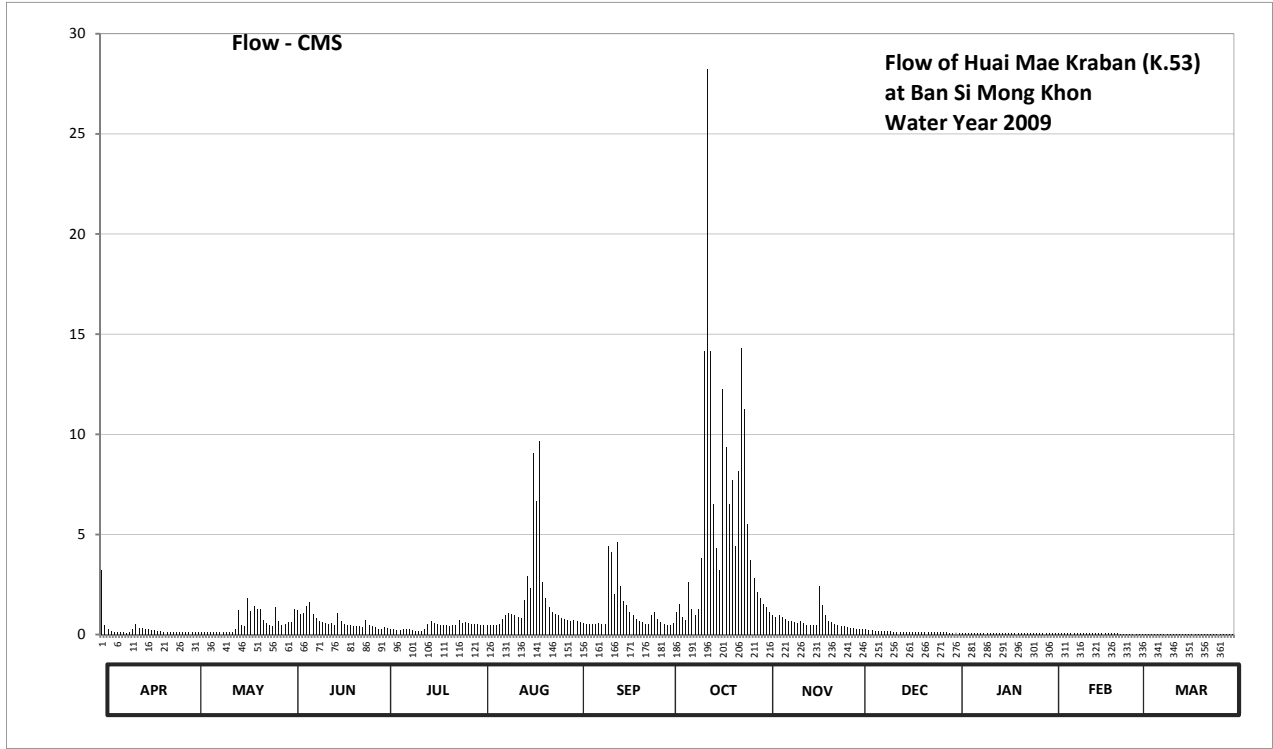
Lat 14 - 01 - 38 N Long 99 - 13 - 23 E

Location : on right bank at the bridge on road.

	Ban Si Mong Khon	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	308 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+34.625 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 20 meters from the top staff gage.	Elevation	+40.952 m. (MSL.)
Gage Reading Frequency	16-time daily reading at 03.00, 06.00 - 18.00, 21.00 and 24.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 16 readings		
Period of Available Gage Records	1992 to date		
Rating Operation			
Period of Rating	1992 to date		
Rated by Flot	-		
Rated by Current Meter	1992 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 53 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.58	36.06	36.21	36.15	36.18	36.22	36.18	36.34	36.13	36.04	36.01	36.00	
2	36.18	36.06	36.33	36.14	36.17	36.21	36.20	36.30	36.12	36.04	36.01	36.00	
3	36.13	36.06	36.32	36.13	36.17	36.20	36.30	36.27	36.12	36.04	36.01	35.99	
4	36.10	36.06	36.28	36.12	36.18	36.19	36.37	36.26	36.11	36.04	36.01	35.99	
5	36.07	36.06	36.29	36.11	36.17	36.19	36.26	36.27	36.11	36.04	36.01	35.99	
6	36.05	36.06	36.35	36.11	36.17	36.19	36.23	36.26	36.10	36.04	36.01	35.99	
7	36.05	36.06	36.38	36.12	36.19	36.19	36.52	36.24	36.10	36.04	36.01	35.99	
8	36.05	36.06	36.28	36.13	36.24	36.20	36.33	36.22	36.10	36.04	36.01	35.99	
9	36.04	36.05	36.25	36.13	36.27	36.19	36.27	36.22	36.10	36.04	36.01	35.99	
10	36.05	36.05	36.22	36.11	36.29	36.19	36.33	36.21	36.09	36.03	36.01	35.99	
11	36.13	36.06	36.21	36.10	36.28	36.70	36.64	36.20	36.09	36.03	36.01	35.99	
12	36.19	36.07	36.20	36.09	36.27	36.67	37.36	36.22	36.08	36.03	36.01	35.99	
13	36.14	36.06	36.19	36.09	36.26	36.44	38.03	36.20	36.08	36.03	36.01	35.99	
14	36.14	36.12	36.20	36.13	36.25	36.72	37.36	36.18	36.08	36.03	36.01	35.99	
15	36.13	36.32	36.18	36.19	36.40	36.50	36.88	36.18	36.08	36.02	36.01	35.99	
16	36.12	36.18	36.29	36.22	36.55	36.39	36.69	36.18	36.08	36.02	36.01	35.99	
17	36.11	36.16	36.22	36.20	36.49	36.36	36.58	36.17	36.08	36.02	36.01	35.99	
18	36.11	36.41	36.19	36.19	37.05	36.30	37.25	36.50	36.08	36.02	36.01	35.99	
19	36.10	36.31	36.17	36.18	36.89	36.27	37.07	36.36	36.07	36.02	36.01	35.99	
20	36.09	36.35	36.17	36.17	37.09	36.24	36.88	36.27	36.07	36.02	36.01	35.99	
21	36.07	36.33	36.16	36.17	36.52	36.22	36.96	36.22	36.07	36.02	36.01	35.99	
22	36.07	36.33	36.16	36.16	36.41	36.21	36.70	36.21	36.07	36.01	36.01	35.99	
23	36.07	36.23	36.16	36.17	36.34	36.19	36.99	36.19	36.07	36.01	36.00	35.99	
24	36.07	36.20	36.15	36.18	36.30	36.19	37.37	36.18	36.06	36.01	36.00	35.99	
25	36.07	36.17	36.23	36.23	36.28	36.27	37.19	36.16	36.06	36.01	36.00	35.99	
26	36.06	36.16	36.18	36.20	36.27	36.30	36.80	36.16	36.06	36.01	35.99	35.99	
27	36.07	36.34	36.16	36.21	36.25	36.24	36.63	36.15	36.06	36.01	35.99	35.99	
28	36.07	36.22	36.15	36.20	36.24	36.21	36.54	36.14	36.05	36.01	36.00	35.99	
29	36.07	36.18	36.13	36.19	36.23	36.19	36.46	36.14	36.05	36.01		35.99	
30	36.07	36.19	36.13	36.19	36.22	36.18	36.41	36.13	36.04	36.01		36.00	
31		36.21		36.19	36.23		36.37		36.04	36.01		35.99	
Mean	36.11	36.17	36.22	36.16	36.35	36.29	36.71	36.22	36.08	36.02	36.01	35.99	
Max	36.58	36.41	36.38	36.23	37.09	36.72	38.03	36.50	36.13	36.04	36.01	36.00	38.03
Min	36.04	36.05	36.13	36.09	36.17	36.18	36.18	36.13	36.04	36.01	35.99	35.99	35.99
Annual Max Momentary Gage Height	38.39		m. (MSL.) ,				at 05.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation	34.63		m. (MSL.) ,			River Bed	35.99	m. (MSL)					
Left Bank Elevation	39.42		m. (MSL.) ,										
Right Bank Elevation	39.84		m. (MSL.) ,			Drainage Area	308	Square Kilometers					



Discharge in cubic meter per second , water year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	0.13	0.63	0.38	0.50	0.69	0.50	1.36	0.30	0.10	0.06	0.05	
2	0.50	0.13	1.30	0.34	0.46	0.63	0.58	1.11	0.26	0.10	0.06	0.05	
3	0.30	0.13	1.23	0.30	0.46	0.58	1.11	0.95	0.26	0.10	0.06	0.04	
4	0.18	0.13	1.00	0.26	0.50	0.54	1.54	0.90	0.22	0.10	0.06	0.04	
5	0.14	0.13	1.06	0.22	0.46	0.54	0.90	0.95	0.22	0.10	0.06	0.04	
6	0.12	0.13	1.42	0.22	0.46	0.54	0.74	0.90	0.18	0.10	0.06	0.04	
7	0.12	0.13	1.61	0.26	0.54	0.54	2.61	0.79	0.18	0.10	0.06	0.04	
8	0.12	0.13	1.00	0.30	0.79	0.58	1.30	0.69	0.18	0.10	0.06	0.04	
9	0.10	0.12	0.85	0.30	0.95	0.54	0.95	0.69	0.18	0.10	0.06	0.04	
10	0.12	0.12	0.69	0.22	1.06	0.54	1.30	0.63	0.17	0.09	0.06	0.04	
11	0.30	0.13	0.63	0.18	1.00	4.40	3.80	0.58	0.17	0.09	0.06	0.04	
12	0.54	0.14	0.58	0.17	0.95	4.10	14.15	0.69	0.15	0.09	0.06	0.04	
13	0.34	0.13	0.54	0.17	0.90	2.00	28.25	0.58	0.15	0.09	0.06	0.04	
14	0.34	0.26	0.58	0.30	0.85	4.62	14.15	0.50	0.15	0.09	0.06	0.04	
15	0.30	1.23	0.50	0.54	1.73	2.41	6.54	0.50	0.15	0.08	0.06	0.04	
16	0.26	0.50	1.06	0.69	2.91	1.67	4.30	0.50	0.15	0.08	0.06	0.04	
17	0.22	0.42	0.69	0.58	2.34	1.48	3.20	0.46	0.15	0.08	0.06	0.04	
18	0.22	1.80	0.54	0.54	9.05	1.11	12.25	2.41	0.15	0.08	0.06	0.04	
19	0.18	1.17	0.46	0.50	6.67	0.95	9.35	1.48	0.14	0.08	0.06	0.04	
20	0.17	1.42	0.46	0.46	9.65	0.79	6.54	0.95	0.14	0.08	0.06	0.04	
21	0.14	1.30	0.42	0.46	2.61	0.69	7.70	0.69	0.14	0.08	0.06	0.04	
22	0.14	1.30	0.42	0.42	1.80	0.63	4.40	0.63	0.14	0.06	0.06	0.04	
23	0.14	0.74	0.42	0.46	1.36	0.54	8.15	0.54	0.14	0.06	0.05	0.04	
24	0.14	0.58	0.38	0.50	1.11	0.54	14.32	0.50	0.13	0.06	0.05	0.04	
25	0.14	0.46	0.74	0.74	1.00	0.95	11.24	0.42	0.13	0.06	0.05	0.04	
26	0.13	0.42	0.50	0.58	0.95	1.11	5.50	0.42	0.13	0.06	0.04	0.04	
27	0.14	1.36	0.42	0.63	0.85	0.79	3.70	0.38	0.13	0.06	0.04	0.04	
28	0.14	0.69	0.38	0.58	0.79	0.63	2.81	0.34	0.12	0.06	0.05	0.04	
29	0.14	0.50	0.30	0.54	0.74	0.54	2.14	0.34	0.12	0.06		0.04	
30	0.14	0.54	0.30	0.54	0.69	0.50	1.80	0.30	0.10	0.06		0.05	
31		0.63		0.54	0.74		1.54		0.10	0.06		0.04	
Total	9.16	17.00	21.11	12.92	54.87	36.17	177.36	22.18	5.03	2.51	1.60	1.27	361.18 CMSDAY
Mean	0.31	0.55	0.70	0.42	1.77	1.21	5.72	0.74	0.16	0.08	0.06	0.04	0.99 CMS
Max	3.20	1.80	1.61	0.74	9.65	4.62	28.25	2.41	0.30	0.10	0.06	0.05	28.25 CMS
Min	0.10	0.12	0.30	0.17	0.46	0.50	0.50	0.30	0.10	0.06	0.04	0.04	0.04 CMS
Runoff	0.79	1.47	1.82	1.12	4.74	3.13	15.32	1.92	0.44	0.22	0.14	0.11	31.21 MCM
Momentary Peak	38.12 CMS. at 38.39 m. (MSL.) at 05.00 Hours , on Oct 13 , 2009												
Runoff Yield	3.21 Liters/Second/Square KM.			Momentary Peak Yield			123.726 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Khwaeng Noi River at Ban Lin Thin , Kanchanaburi (K.54)

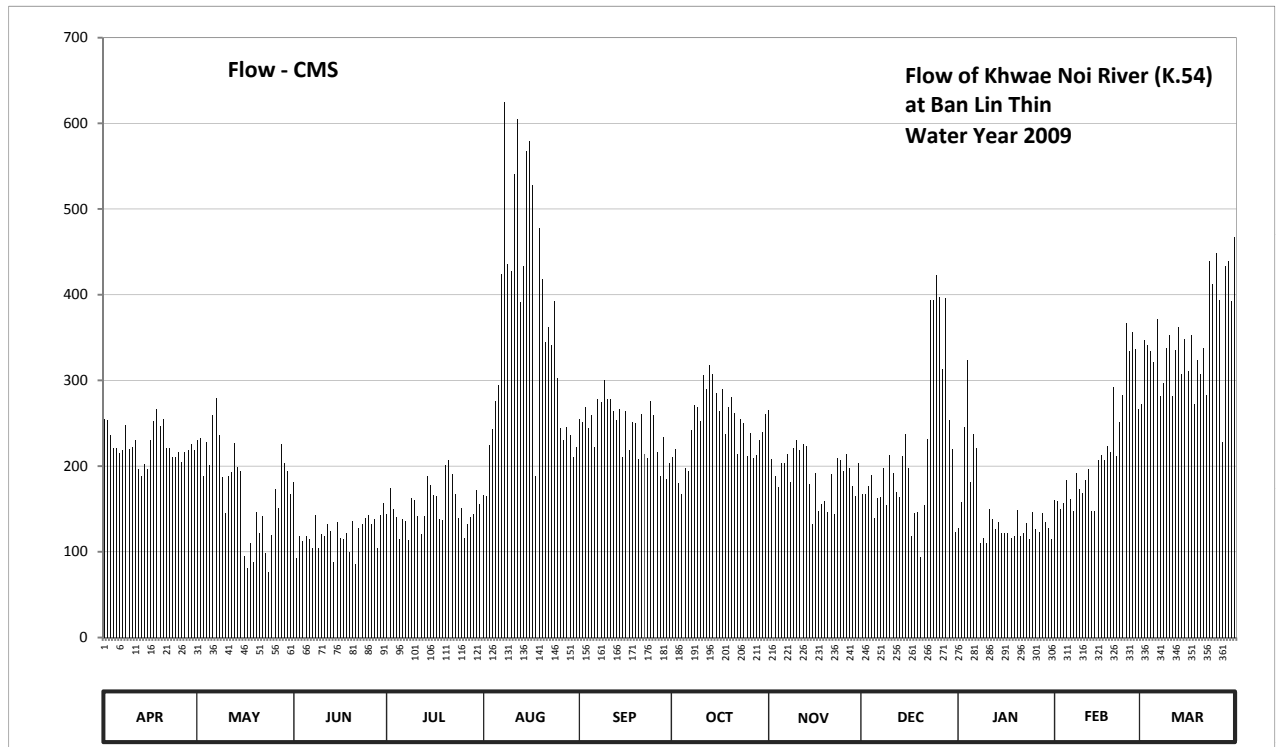
Lat 14 - 32 - 04 N Long 98 - 47 - 30 E

Location : on right bank at the bridge on road.

	Ban Lin Thin	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	4,774 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+60.540 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 40 meters from the gage observer's house.	Elevation	+75.155 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 46 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	63.88	63.69	63.32	63.02	63.20	63.88	63.54	63.95	63.21	62.89	63.15	64.00	
2	63.87	63.71	62.58	63.26	63.19	63.85	63.61	63.52	63.21	63.13	63.14	64.53	
3	63.74	63.37	62.81	63.07	63.65	63.98	63.31	63.37	63.28	63.81	63.07	64.49	
4	63.62	63.68	62.76	62.99	63.79	63.80	63.21	63.27	63.38	64.37	63.12	64.44	
5	63.62	63.47	62.81	62.78	64.03	63.91	63.44	63.49	62.98	63.32	63.33	64.35	
6	63.58	63.91	62.78	62.97	64.16	63.63	63.42	63.49	63.17	63.75	63.16	64.70	
7	63.60	64.05	62.69	62.95	65.05	64.04	63.78	63.57	63.18	63.62	63.05	64.07	
8	63.83	63.74	63.01	62.77	66.37	64.02	63.99	63.32	63.44	62.74	63.40	64.18	
9	63.61	63.36	62.69	63.17	65.13	64.20	63.98	63.62	63.10	62.79	63.25	64.47	
10	63.63	63.03	62.83	63.15	65.07	64.04	63.86	63.69	63.56	62.74	63.22	64.57	
11	63.69	63.37	62.81	63.00	65.83	64.04	64.24	63.60	63.40	63.07	63.33	64.07	
12	63.43	63.41	62.92	62.83	66.24	63.94	64.13	63.66	63.23	62.97	63.43	64.45	
13	63.37	63.67	62.86	63.00	64.83	63.87	64.33	63.64	63.18	62.88	63.05	64.64	
14	63.48	63.45	62.54	63.37	65.11	63.96	64.25	63.30	63.55	62.94	63.05	64.25	
15	63.43	63.42	62.94	63.29	66.00	63.54	64.09	62.92	63.75	62.84	63.51	64.54	
16	63.69	62.61	62.79	63.20	66.08	63.94	63.94	63.40	63.44	62.84	63.56	64.28	
17	63.86	62.47	62.78	63.19	65.74	63.60	64.13	63.05	62.81	62.84	63.51	64.57	
18	63.96	62.74	62.84	62.97	63.37	63.85	63.75	63.11	63.03	62.79	63.64	64.00	
19	63.82	62.54	62.65	62.96	65.41	63.84	63.98	63.14	63.04	62.81	63.59	64.37	
20	63.88	63.04	62.95	63.47	65.01	63.52	64.06	63.04	62.60	63.06	64.14	64.25	
21	63.62	62.84	62.52	63.51	64.52	63.92	63.93	63.39	63.10	62.81	63.55	64.47	
22	63.62	63.00	62.89	63.39	64.64	63.57	63.57	63.02	63.70	62.84	63.85	64.08	
23	63.54	62.64	62.92	63.21	64.49	63.53	63.88	63.53	64.85	62.93	64.08	65.15	
24	63.54	62.42	62.98	62.98	64.84	64.03	63.84	63.51	64.85	62.78	64.67	64.97	
25	63.59	62.82	63.01	63.08	64.22	63.91	63.55	63.42	65.04	63.04	64.44	65.21	
26	63.50	63.25	62.92	62.79	63.80	63.59	63.76	63.57	64.87	62.88	64.60	64.85	
27	63.59	63.08	62.97	62.92	63.69	63.37	63.53	63.44	64.29	62.85	64.46	63.68	
28	63.60	63.66	62.69	62.99	63.81	63.72	63.56	63.28	64.86	63.03	63.96	65.11	
29	63.66	63.49	63.01	63.02	63.74	63.34	63.69	63.19	63.87	62.94		65.15	
30	63.60	63.42	63.12	63.24	63.54	63.49	63.77	63.49	63.61	62.89		64.84	
31		63.21		63.11	63.63		63.92		62.85	62.78		65.34	
Mean	63.65	63.24	62.85	63.09	64.59	63.80	63.81	63.40	63.56	63.03	63.58	64.52	
Max	63.96	64.05	63.32	63.51	66.37	64.20	64.33	63.95	65.04	64.37	64.67	65.34	66.37
Min	63.37	62.42	62.52	62.77	63.19	63.34	63.21	62.92	62.60	62.74	63.05	63.68	62.42
Annual Max Momentary Gage Height	66.60		m. (MSL.) ,			at 19.00 Hours , on Aug 8 , 2009							
Zero Gage at Bottom Elevation	60.54		m. (MSL.) ,			River Bed	60.37	m. (MSL)					
Left Bank Elevation		67.81		m. (MSL.) ,									
Right Bank Elevation		69.84		m. (MSL.) ,		Drainage Area	4774	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	255.20	229.70	181.60	144.00	166.50	255.20	210.20	265.00	167.75	128.30	160.25	272.00	
2	253.80	232.30	92.40	174.00	165.25	251.00	219.30	207.60	167.75	157.75	159.00	346.35	
3	236.20	188.10	118.70	150.25	224.50	269.20	180.30	188.10	176.50	245.40	150.25	340.60	
4	220.60	228.40	112.70	140.30	242.70	244.00	167.75	175.25	189.40	323.80	156.50	333.60	
5	220.60	201.10	118.70	115.10	276.20	259.40	197.20	203.70	139.10	181.60	182.90	321.00	
6	215.40	259.40	115.10	137.90	294.40	221.90	194.60	203.70	162.75	237.50	161.50	371.50	
7	218.00	279.00	104.40	135.50	424.00	277.60	241.40	214.10	164.00	220.60	147.75	281.80	
8	248.20	236.20	142.75	113.90	625.20	274.80	270.60	181.60	197.20	110.30	192.00	297.20	
9	219.30	186.80	104.40	162.75	436.00	300.00	269.20	220.60	154.00	116.30	172.75	337.80	
10	221.90	145.25	121.10	160.25	427.00	277.60	252.40	229.70	212.80	110.30	169.00	352.15	
11	229.70	188.10	118.70	141.50	541.15	277.60	305.60	218.00	192.00	150.25	182.90	281.80	
12	195.90	193.30	131.90	121.10	604.70	263.60	290.20	225.80	170.25	137.90	195.90	335.00	
13	188.10	227.10	124.70	141.50	391.00	253.80	318.20	223.20	164.00	127.10	147.75	362.50	
14	202.40	198.50	88.20	188.10	433.00	266.40	307.00	179.00	211.50	134.30	147.75	307.00	
15	195.90	194.60	134.30	177.75	567.50	210.20	284.60	131.90	237.50	122.30	206.30	347.80	
16	229.70	95.60	116.30	166.50	579.90	263.60	263.60	192.00	197.20	122.30	212.80	311.20	
17	252.40	81.00	115.10	165.25	527.50	218.00	290.20	147.75	118.70	122.30	206.30	352.15	
18	266.40	110.30	122.30	137.90	188.10	251.00	237.50	155.25	145.25	116.30	223.20	272.00	
19	246.80	88.20	100.00	136.70	478.00	249.60	269.20	159.00	146.50	118.70	216.70	323.80	
20	255.20	146.50	135.50	201.10	418.00	207.60	280.40	146.50	94.50	149.00	291.60	307.00	
21	220.60	122.30	86.10	206.30	344.90	260.80	262.20	190.70	154.00	118.70	211.50	337.80	
22	220.60	141.50	128.30	190.70	362.50	214.10	214.10	144.00	231.00	122.30	251.00	283.20	
23	210.20	98.90	131.90	167.75	340.60	208.90	255.20	208.90	394.00	133.10	283.20	439.00	
24	210.20	76.00	139.10	139.10	392.50	276.20	249.60	206.30	394.00	115.10	367.00	412.00	
25	216.70	119.90	142.75	151.50	302.80	259.40	211.50	194.60	422.50	146.50	333.60	448.00	
26	205.00	172.75	131.90	116.30	244.00	216.70	238.80	214.10	397.00	127.10	356.50	394.00	
27	216.70	151.50	137.90	131.90	229.70	188.10	208.90	197.20	312.60	123.50	336.40	228.40	
28	218.00	225.80	104.40	140.30	245.40	233.60	212.80	176.50	395.50	145.25	266.40	433.00	
29	225.80	203.70	142.75	144.00	236.20	184.20	229.70	165.25	253.80	134.30		439.00	
30	218.00	194.60	156.50	171.50	210.20	203.70	240.10	203.70	219.30	128.30		392.50	
31		167.75		155.25	221.90		260.80		123.50	115.10		467.50	
Total	6733.50	5384.15	3700.45	4725.95	11141.30	7337.80	7633.15	5769.00	6705.85	4541.55	6088.70	10728.65	80490.05 CMSDAY
Mean	224.45	173.68	123.35	152.45	359.40	244.59	246.23	192.30	216.32	146.50	217.45	346.09	220.52 CMS
Max	266.40	279.00	181.60	206.30	625.20	300.00	318.20	265.00	422.50	323.80	367.00	467.50	625.20 CMS
Min	188.10	76.00	86.10	113.90	165.25	184.20	167.75	131.90	94.50	110.30	147.75	228.40	76.00 CMS
Runoff	581.77	465.19	319.72	408.32	962.61	633.99	695.50	498.44	579.39	392.39	526.06	6954.34	MCM
Momentary Peak	662.00 CMS. at 66.60 m. (MSL) at 19.00 Hours , on Aug 8 , 2009												
Runoff Yield	46.19 Liters/Second/Square KM.			Momentary Peak Yield			138.668 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Khwaeng Noi River at Ban Pak Saeng , Kanchanaburi (K.58)

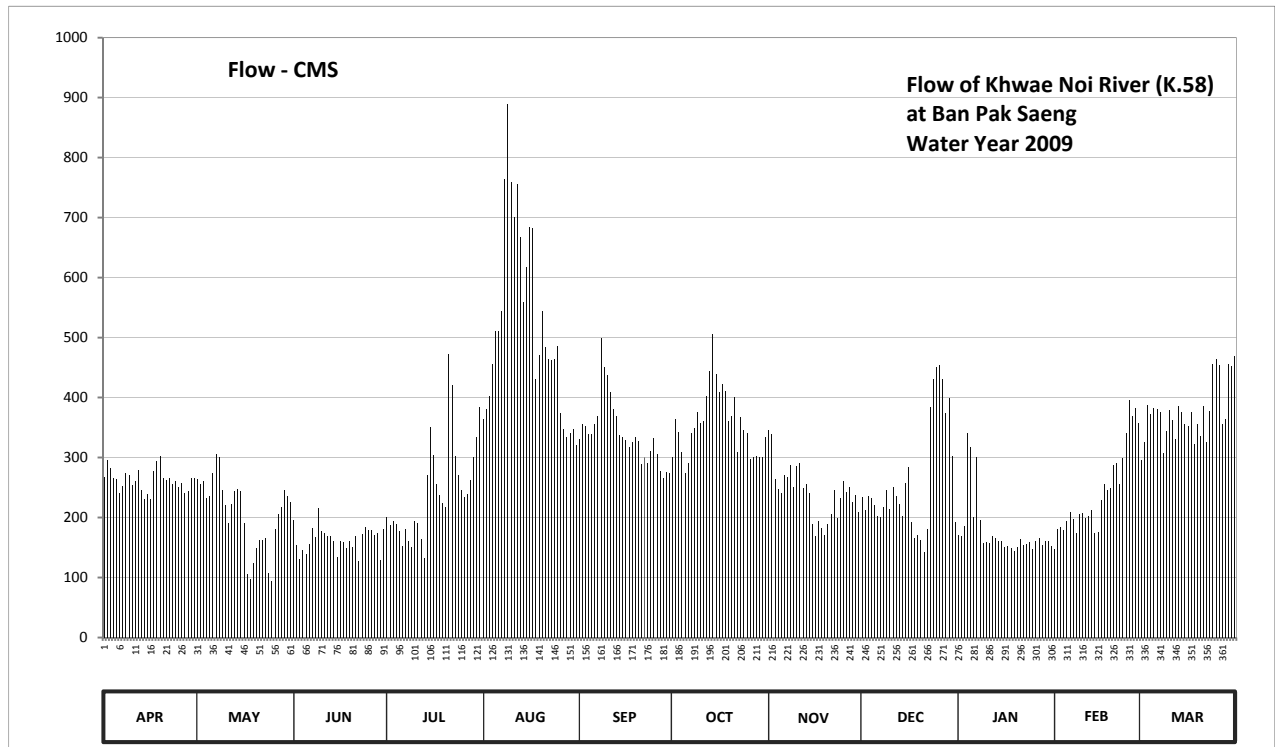
Lat 14 - 12 - 46 N Long 99 - 03 - 39 E

Location : on left bank at Ban Pak Saeng.

	Ban Pak Saeng	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	6,725 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+39.567 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Along the measuring line.		Elevation +49.053 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +47.260 m.(MSL.) and is cluding overbank flow.		
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.86	42.83	42.29	42.32	43.61	43.36	43.12	43.47	42.59	42.09	41.90	43.09	
2	43.09	42.76	41.95	42.22	43.74	43.55	43.61	43.42	42.42	42.07	42.17	43.32	
3	42.98	42.81	41.75	42.28	43.90	43.53	43.45	42.83	42.60	42.20	42.19	43.79	
4	42.85	42.58	41.88	42.23	44.30	43.42	43.19	42.70	42.58	43.44	42.15	43.68	
5	42.83	42.61	41.83	42.14	44.71	43.42	42.91	42.65	42.48	43.26	42.27	43.76	
6	42.65	42.91	41.96	41.94	44.71	43.55	43.05	42.89	42.34	42.33	42.40	43.74	
7	42.74	43.17	42.18	42.17	44.96	43.66	43.43	42.86	42.33	43.12	42.30	43.71	
8	42.91	43.13	42.06	42.00	46.59	44.62	43.50	43.02	42.46	42.29	42.12	43.18	
9	42.88	42.69	42.45	41.92	47.48	44.27	43.71	42.73	42.69	41.98	42.36	43.46	
10	42.75	42.49	42.14	42.27	46.55	44.17	43.56	43.00	42.44	41.99	42.38	43.73	
11	42.80	42.25	42.12	42.25	46.12	43.95	43.59	43.05	42.73	41.98	42.31	43.60	
12	42.95	42.50	42.07	42.03	46.53	43.74	43.90	42.71	42.60	42.08	42.34	43.36	
13	42.69	42.67	42.08	41.77	45.87	43.66	44.22	42.76	42.50	42.04	42.42	43.78	
14	42.57	42.70	42.01	42.89	45.07	43.41	44.67	42.65	42.34	42.01	42.11	43.70	
15	42.63	42.67	41.79	43.51	45.50	43.38	44.18	42.24	42.78	42.00	42.13	43.55	
16	42.57	42.25	42.00	43.15	46.00	43.34	43.96	42.08	42.99	41.93	42.56	43.53	
17	42.94	41.55	41.99	42.76	45.98	43.25	44.05	42.28	42.26	41.94	42.77	43.70	
18	43.07	41.48	41.91	42.62	44.12	43.32	43.97	42.18	42.04	41.91	42.69	43.30	
19	43.14	41.70	42.01	42.51	44.41	43.38	43.59	42.09	42.09	41.87	42.71	43.55	
20	42.84	41.91	41.92	42.46	44.96	43.33	43.65	42.23	42.02	41.92	43.02	43.40	
21	42.82	42.02	42.07	44.43	44.51	43.03	43.89	42.37	41.86	42.03	43.05	43.78	
22	42.85	42.02	41.73	44.04	44.37	43.12	43.19	42.68	42.16	41.95	42.76	43.32	
23	42.77	42.05	42.10	43.14	44.35	43.05	43.64	42.31	43.77	41.97	43.11	43.72	
24	42.81	41.56	42.19	42.88	44.36	43.20	43.47	42.58	44.12	41.99	43.44	44.30	
25	42.72	41.45	42.15	42.68	44.53	43.37	43.43	42.80	44.26	41.90	43.86	44.37	
26	42.78	42.17	42.15	42.59	43.69	43.16	43.10	42.66	44.29	42.01	43.66	44.29	
27	42.64	42.36	42.09	42.63	43.48	42.94	43.13	42.72	44.12	42.04	43.76	43.55	
28	42.67	42.46	42.11	42.82	43.38	42.84	43.14	42.52	43.69	41.95	43.57	43.61	
29	42.84	42.69	41.74	43.13	43.44	42.93	43.12	42.62	43.88	42.01		44.30	
30	42.85	42.61	42.17	43.38	43.49	42.91	43.13	42.40	43.14	42.01		44.28	
31	42.52			43.77	43.28		43.38		42.26	41.94		44.40	
Mean	42.82	42.37	42.03	42.68	44.77	43.43	43.55	42.65	42.80	42.14	42.66	43.70	
Max	43.14	43.17	42.45	44.43	47.48	44.62	44.67	43.47	44.29	43.44	43.86	44.40	47.48
Min	42.57	41.45	41.73	41.77	43.28	42.84	42.91	42.08	41.86	41.87	41.90	43.09	41.45
Annual Max Momentary Gage Height	47.96		m. (MSL.) ,			at 07.00 Hours , on Aug 9 , 2009							
Zero Gage at Bottom Elevation	39.57		m. (MSL.) ,			River Bed	40.50	m. (MSL)					
Left Bank Elevation	47.25		m. (MSL.) ,										
Right Bank Elevation	50.28		m. (MSL.) ,			Drainage Area	6725	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	267.50	263.75	196.25	200.00	363.30	330.80	300.00	345.10	233.75	171.25	148.00	296.25		
2	296.25	255.00	154.00	187.50	380.20	355.50	363.30	338.60	212.50	168.75	181.25	325.60		
3	282.50	261.25	130.00	195.00	401.34	352.90	342.50	263.75	235.00	185.00	183.75	386.70		
4	266.25	232.50	145.60	188.75	455.36	338.60	308.75	247.50	232.50	341.20	178.75	372.40		
5	263.75	236.25	139.60	177.50	510.73	338.60	273.75	241.25	220.00	317.80	193.75	382.80		
6	241.25	273.75	155.20	152.80	510.73	355.50	291.25	271.25	202.50	201.25	210.00	380.20		
7	252.50	306.25	182.50	181.25	544.50	369.80	339.90	267.50	201.25	300.00	197.50	376.30		
8	273.75	301.25	167.50	160.00	764.64	498.58	349.00	287.50	217.50	196.25	175.00	307.50		
9	270.00	246.25	216.25	150.40	889.60	451.31	376.30	251.25	246.25	157.60	205.00	343.80		
10	253.75	221.25	177.50	193.75	759.24	437.80	356.80	285.00	215.00	158.80	207.50	378.90		
11	260.00	191.25	175.00	191.25	701.16	408.09	360.70	291.25	251.25	157.60	198.75	362.00		
12	278.75	222.50	168.75	163.75	756.54	380.20	401.34	248.75	235.00	170.00	202.50	330.80		
13	246.25	243.75	170.00	132.40	667.40	369.80	444.56	255.00	222.50	165.00	212.50	385.40		
14	231.25	247.50	161.25	271.25	559.35	337.30	505.33	241.25	202.50	161.25	173.75	375.00		
15	238.75	243.75	134.80	350.30	617.43	333.40	439.16	190.00	257.50	160.00	176.25	355.50		
16	231.25	191.25	160.00	303.75	684.96	328.20	409.44	170.00	283.75	151.60	230.00	352.90		
17	277.50	106.00	158.80	255.00	682.25	316.50	421.60	195.00	192.50	152.80	256.25	375.00		
18	293.75	97.60	149.20	237.50	431.05	325.60	410.79	182.50	165.00	149.20	246.25	323.00		
19	302.50	124.00	161.25	223.75	470.22	333.40	360.70	171.25	171.25	144.40	248.75	355.50		
20	265.00	149.20	150.40	217.50	544.50	326.90	368.50	188.75	162.50	150.40	287.50	336.00		
21	262.50	162.50	168.75	472.92	483.72	288.75	400.01	206.25	143.20	163.75	291.25	385.40		
22	266.25	162.50	127.60	420.25	464.82	300.00	308.75	245.00	180.00	154.00	255.00	325.60		
23	256.25	166.25	172.50	302.50	462.11	291.25	367.20	198.75	384.10	156.40	298.75	377.60		
24	261.25	107.20	183.75	270.00	463.47	310.00	345.10	232.50	431.05	158.80	341.20	455.36		
25	250.00	94.00	178.75	245.00	486.42	332.10	339.90	260.00	449.96	148.00	396.00	464.82		
26	257.50	181.25	178.75	233.75	373.70	305.00	297.50	242.50	454.01	161.25	369.80	454.01		
27	240.00	205.00	171.25	238.75	346.40	277.50	301.25	250.00	431.05	165.00	382.80	355.50		
28	243.75	217.50	173.75	262.50	333.40	265.00	302.50	225.00	373.70	154.00	358.10	363.30		
29	265.00	246.25	128.80	301.25	341.20	276.25	300.00	237.50	398.67	161.25	455.36	455.36		
30	266.25	236.25	181.25	333.40	347.70	273.75	301.25	210.00	302.50	161.25	452.66	452.66		
31		225.00		384.10	320.40		333.40		192.50	152.80	468.87	468.87		
Total	7861.25	6418.00	4919.00	7597.82	16117.84	10208.38	11020.53	7239.95	8100.74	5496.65	6805.90	11660.03	103446.09	CMSDAY
Mean	262.04	207.03	163.97	245.09	519.93	340.28	355.50	241.33	261.31	177.31	243.07	376.13	283.41	CMS
Max	302.50	306.25	216.25	472.92	889.60	498.58	505.33	345.10	454.01	341.20	396.00	468.87	889.60	CMS
Min	231.25	94.00	127.60	132.40	320.40	265.00	273.75	170.00	143.20	144.40	148.00	296.25	94.00	CMS
Runoff	679.21	554.52	425.00	656.45	1392.58	882.00	952.17	625.53	699.90	474.91	588.03	1007.43	8937.74	MCM
Momentary Peak	959.20 CMS. at 47.96 m. (MSL) at 07.00 Hours , on Aug 9 , 2009													
Runoff Yield	42.14 Liters/Second/Square KM.			Momentary Peak Yield			142.632 /Second/Square KM.							

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

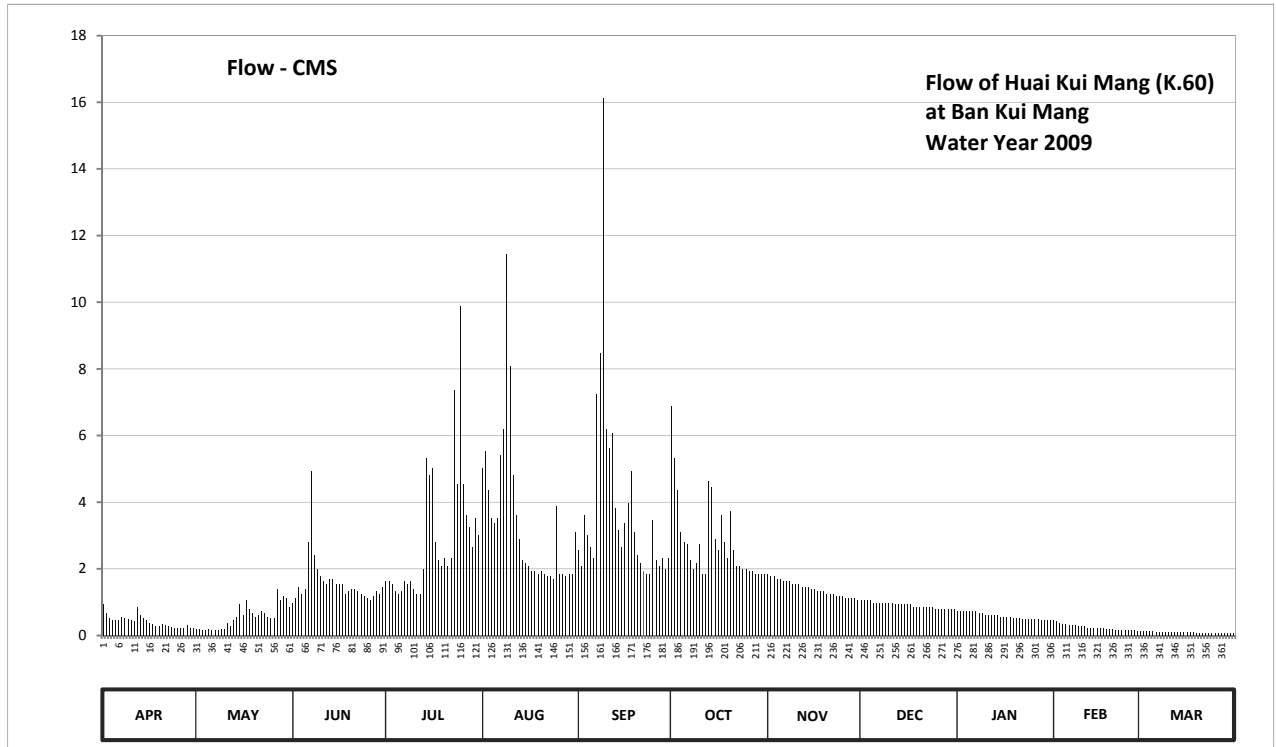
Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

Location : on right bank at the bridge on road.

	Ban	Kui Mang	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	128	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+73.675 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 15 meters from the top staff gage.				Elevation	+82.022 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2000 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	74.55	74.36	74.56	74.65	75.04	74.77	75.21	74.68	74.57	74.52	74.46	74.33	
2	74.51	74.36	74.58	74.65	75.09	74.71	75.07	74.67	74.57	74.52	74.45	74.33	
3	74.48	74.35	74.63	74.64	74.97	74.89	74.97	74.67	74.57	74.52	74.44	74.33	
4	74.46	74.34	74.60	74.61	74.88	74.82	74.83	74.66	74.57	74.52	74.43	74.32	
5	74.46	74.36	74.62	74.60	74.86	74.78	74.80	74.66	74.56	74.52	74.43	74.32	
6	74.46	74.35	74.80	74.61	74.88	74.74	74.79	74.65	74.56	74.52	74.42	74.31	
7	74.49	74.35	75.03	74.65	75.08	75.24	74.73	74.65	74.56	74.52	74.42	74.31	
8	74.48	74.34	74.75	74.64	75.15	75.34	74.70	74.65	74.56	74.51	74.42	74.31	
9	74.47	74.36	74.70	74.65	75.56	75.87	74.72	74.64	74.56	74.51	74.41	74.31	
10	74.46	74.36	74.67	74.62	75.31	75.15	74.79	74.64	74.56	74.50	74.41	74.30	
11	74.45	74.44	74.65	74.60	75.02	75.10	74.68	74.64	74.56	74.50	74.41	74.30	
12	74.54	74.41	74.64	74.60	74.89	75.14	74.68	74.63	74.55	74.50	74.39	74.30	
13	74.50	74.46	74.66	74.70	74.81	74.91	75.00	74.63	74.55	74.50	74.39	74.30	
14	74.48	74.49	74.66	75.07	74.73	74.84	74.98	74.63	74.55	74.50	74.38	74.30	
15	74.46	74.55	74.64	75.02	74.72	74.78	74.81	74.62	74.55	74.49	74.38	74.30	
16	74.44	74.50	74.64	75.04	74.71	74.86	74.77	74.62	74.55	74.49	74.37	74.29	
17	74.43	74.57	74.64	74.80	74.69	74.93	74.89	74.61	74.55	74.49	74.37	74.29	
18	74.41	74.53	74.60	74.73	74.69	75.03	74.80	74.61	74.54	74.49	74.36	74.29	
19	74.41	74.51	74.61	74.71	74.68	74.83	74.74	74.61	74.54	74.48	74.36	74.28	
20	74.43	74.49	74.62	74.74	74.69	74.75	74.90	74.60	74.54	74.48	74.36	74.28	
21	74.42	74.50	74.62	74.71	74.68	74.72	74.77	74.60	74.54	74.48	74.35	74.28	
22	74.41	74.52	74.61	74.74	74.67	74.69	74.71	74.60	74.54	74.47	74.35	74.28	
23	74.40	74.51	74.60	75.25	74.67	74.68	74.71	74.59	74.54	74.47	74.35	74.28	
24	74.39	74.49	74.59	74.99	74.66	74.68	74.70	74.59	74.54	74.47	74.35	74.28	
25	74.38	74.48	74.58	75.45	74.92	74.87	74.70	74.59	74.53	74.47	74.34	74.27	
26	74.38	74.48	74.57	74.99	74.68	74.73	74.69	74.58	74.53	74.47	74.34	74.27	
27	74.37	74.62	74.59	74.89	74.68	74.71	74.69	74.58	74.53	74.47	74.34	74.27	
28	74.42	74.57	74.61	74.85	74.67	74.74	74.68	74.58	74.53	74.46	74.33	74.27	
29	74.39	74.59	74.60	74.78	74.68	74.70	74.68	74.58	74.53	74.46		74.28	
30	74.37	74.58	74.63	74.88	74.68	74.74	74.68	74.57	74.53	74.46		74.28	
31		74.54		74.82	74.83		74.68		74.53	74.46		74.28	
Mean	74.44	74.46	74.64	74.80	74.85	74.89	74.79	74.62	74.55	74.49	74.39	74.29	
Max	74.55	74.62	75.03	75.45	75.56	75.87	75.21	74.68	74.57	74.52	74.46	74.33	75.87
Min	74.37	74.34	74.56	74.60	74.66	74.68	74.68	74.57	74.53	74.46	74.33	74.27	74.27
Annual Max Momentary Gage Height	76.40		m. (MSL.) ,				at 06.00 Hours , on Sep 9 , 2009						
Zero Gage at Bottom Elevation	73.68		m. (MSL.) ,			River Bed	73.46		m. (MSL)				
Left Bank Elevation	81.40		m. (MSL.) ,										
Right Bank Elevation	82.11		m. (MSL.) ,			Drainage Area	128		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.93	0.19	0.99	1.63	5.02	2.57	6.88	1.85	1.06	0.73	0.46	0.14	
2	0.67	0.19	1.12	1.63	5.52	2.08	5.32	1.78	1.06	0.73	0.42	0.14	
3	0.53	0.17	1.47	1.55	4.35	3.63	4.35	1.78	1.06	0.73	0.39	0.14	
4	0.46	0.16	1.25	1.33	3.54	3.00	3.09	1.70	1.06	0.73	0.35	0.13	
5	0.46	0.19	1.40	1.25	3.36	2.66	2.82	1.70	0.99	0.73	0.35	0.13	
6	0.46	0.17	2.82	1.33	3.54	2.33	2.74	1.63	0.99	0.73	0.32	0.11	
7	0.56	0.17	4.92	1.63	5.42	7.24	2.25	1.63	0.99	0.73	0.32	0.11	
8	0.53	0.16	2.41	1.55	6.19	8.46	2.00	1.63	0.99	0.67	0.32	0.11	
9	0.50	0.19	2.00	1.63	11.43	16.12	2.16	1.55	0.99	0.67	0.29	0.11	
10	0.46	0.19	1.78	1.40	8.08	6.19	2.74	1.55	0.99	0.60	0.29	0.10	
11	0.42	0.39	1.63	1.25	4.82	5.62	1.85	1.55	0.99	0.60	0.29	0.10	
12	0.86	0.29	1.55	1.25	3.63	6.08	1.85	1.47	0.93	0.60	0.23	0.10	
13	0.60	0.46	1.70	2.00	2.91	3.81	4.62	1.47	0.93	0.60	0.23	0.10	
14	0.53	0.56	1.70	5.32	2.25	3.18	4.44	1.47	0.93	0.60	0.22	0.10	
15	0.46	0.93	1.55	4.82	2.16	2.66	2.91	1.40	0.93	0.56	0.22	0.10	
16	0.39	0.60	1.55	5.02	2.08	3.36	2.57	1.40	0.93	0.56	0.21	0.09	
17	0.35	1.06	1.55	2.82	1.93	3.99	3.63	1.33	0.93	0.56	0.21	0.09	
18	0.29	0.79	1.25	2.25	1.93	4.92	2.82	1.33	0.86	0.56	0.19	0.09	
19	0.29	0.67	1.33	2.08	1.85	3.09	2.33	1.33	0.86	0.53	0.19	0.08	
20	0.35	0.56	1.40	2.33	1.93	2.41	3.72	1.25	0.86	0.53	0.19	0.08	
21	0.32	0.60	1.40	2.08	1.85	2.16	2.57	1.25	0.86	0.53	0.17	0.08	
22	0.29	0.73	1.33	2.33	1.78	1.93	2.08	1.25	0.86	0.50	0.17	0.08	
23	0.25	0.67	1.25	7.36	1.78	1.85	2.08	1.18	0.86	0.50	0.17	0.08	
24	0.23	0.56	1.18	4.53	1.70	1.85	2.00	1.18	0.86	0.50	0.17	0.08	
25	0.22	0.53	1.12	9.89	3.90	3.45	2.00	1.18	0.79	0.50	0.16	0.07	
26	0.22	0.53	1.06	4.53	1.85	2.25	1.93	1.12	0.79	0.50	0.16	0.07	
27	0.21	1.40	1.18	3.63	1.85	2.08	1.93	1.12	0.79	0.50	0.16	0.07	
28	0.32	1.06	1.33	3.27	1.78	2.33	1.85	1.12	0.79	0.46	0.14	0.07	
29	0.23	1.18	1.25	2.66	1.85	2.00	1.85	1.12	0.79	0.46		0.08	
30	0.21	1.12	1.47	3.54	1.85	2.33	1.85	1.06	0.79	0.46		0.08	
31		0.86		3.00	3.09		1.85		0.79	0.46		0.08	
Total	12.60	17.33	47.94	90.89	105.22	115.63	87.08	42.38	28.30	18.12	6.99	2.99	575.47 CMSDAY
Mean	0.42	0.56	1.60	2.93	3.39	3.85	2.81	1.41	0.91	0.58	0.25	0.10	1.58 CMS
Max	0.93	1.40	4.92	9.89	11.43	16.12	6.88	1.85	1.06	0.73	0.46	0.14	16.12 CMS
Min	0.21	0.16	0.99	1.25	1.70	1.85	1.85	1.06	0.79	0.46	0.14	0.07	0.07 CMS
Runoff	1.09	1.50	4.14	7.85	9.09	9.99	7.52	3.66	2.45	1.57	0.60	0.26	49.72 MCM
Momentary Peak	26.20 CMS. at 76.40 m. (MSL) at 06.00 Hours , on Sep 9 , 2009												
Runoff Yield	12.28 Liters/Second/Square KM.			Momentary Peak Yield			204,113 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Lam Phachi at Chom Bung , Ratchaburi (K.61)

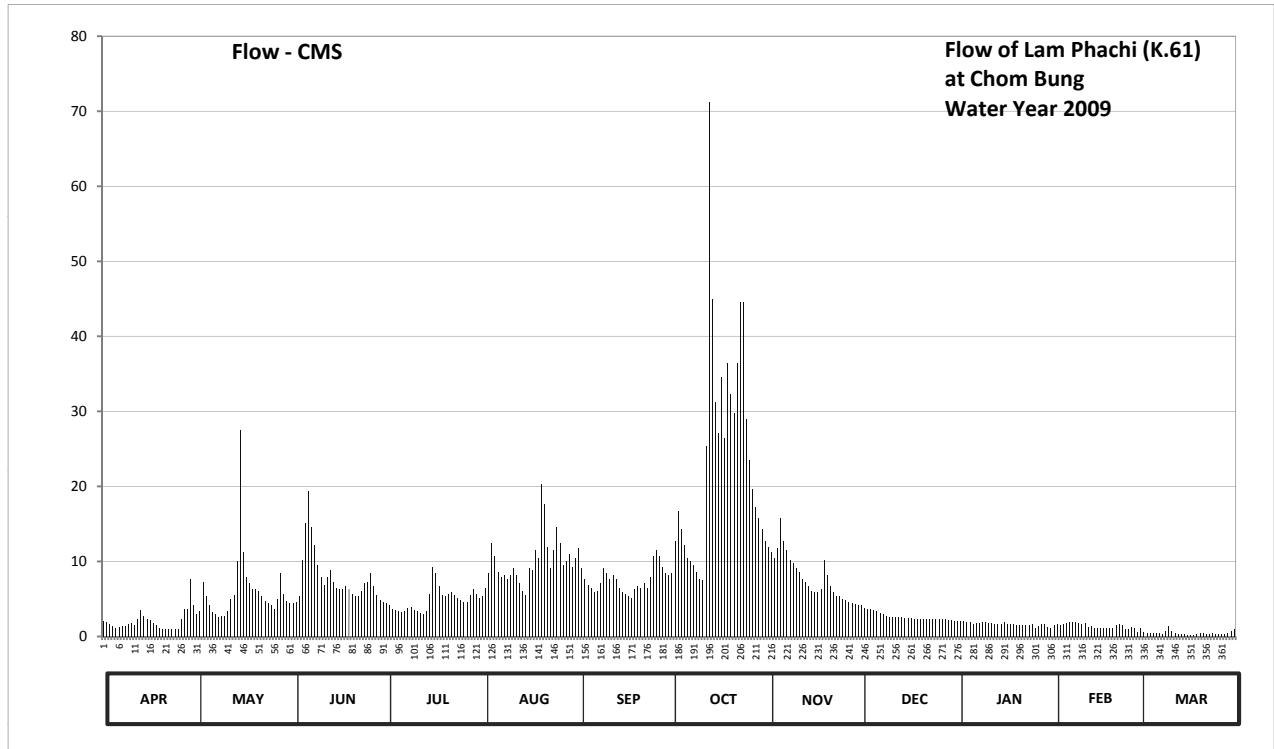
Lat 13 - 41 - 28 N Long 99 - 27 - 08 E

Location : on right bank at the bridge on highway.

	Ban -	Amphoe Chom Bung	Changwat Ratchaburi
Drainage Area	1,844 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+64.630 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.	Elevation	+71.913 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.76	64.83	64.93	64.93	64.99	65.28	65.14	65.29	64.91	64.76	64.70	64.67	
2	64.74	64.86	64.94	64.91	65.05	65.17	65.32	65.26	64.89	64.76	64.71	64.61	
3	64.71	65.09	64.99	64.88	65.14	65.11	65.46	65.23	64.88	64.76	64.70	64.60	
4	64.69	64.99	65.22	64.87	65.31	65.07	65.38	65.28	64.88	64.75	64.71	64.60	
5	64.67	64.91	65.41	64.86	65.24	65.05	65.30	65.43	64.87	64.74	64.73	64.60	
6	64.68	64.85	65.55	64.85	65.15	65.02	65.23	65.32	64.86	64.72	64.75	64.60	
7	64.69	64.83	65.39	64.86	65.12	65.03	65.21	65.27	64.84	64.73	64.75	64.59	
8	64.69	64.81	65.30	64.89	65.13	65.08	65.19	65.22	64.83	64.73	64.74	64.58	
9	64.71	64.82	65.19	64.90	65.11	65.17	65.15	65.20	64.82	64.74	64.73	64.63	
10	64.73	64.82	65.12	64.87	65.13	65.14	65.11	65.17	64.81	64.74	64.72	64.69	
11	64.70	64.86	65.07	64.86	65.17	65.11	65.10	65.15	64.81	64.73	64.73	64.63	
12	64.78	64.97	65.12	64.84	65.13	65.13	65.73	65.11	64.81	64.73	64.68	64.60	
13	64.87	65.00	65.16	64.83	65.08	65.11	66.78	65.09	64.81	64.72	64.69	64.57	
14	64.82	65.21	65.09	64.86	65.03	65.05	66.24	65.06	64.81	64.72	64.66	64.56	
15	64.79	65.79	65.05	65.01	65.00	65.02	65.89	65.03	64.80	64.72	64.66	64.56	
16	64.77	65.26	65.04	65.18	65.17	65.01	65.78	65.02	64.80	64.74	64.66	64.55	
17	64.73	65.12	65.04	65.14	65.16	64.99	65.98	65.02	64.80	64.72	64.66	64.55	
18	64.70	65.08	65.06	65.06	65.27	64.98	65.76	65.04	64.79	64.71	64.66	64.55	
19	64.67	65.04	65.04	65.00	65.23	65.04	66.03	65.22	64.79	64.71	64.67	64.56	
20	64.65	65.04	65.01	64.99	65.58	65.06	65.92	65.13	64.79	64.70	64.67	64.60	
21	64.65	65.03	64.99	65.01	65.49	65.05	65.85	65.06	64.79	64.70	64.70	64.60	
22	64.65	64.99	64.99	65.02	65.29	65.08	66.03	65.02	64.79	64.70	64.71	64.56	
23	64.65	64.95	65.03	65.00	65.17	65.05	66.23	64.99	64.79	64.70	64.70	64.57	
24	64.65	64.93	65.08	64.98	65.27	65.12	66.23	64.99	64.79	64.70	64.65	64.60	
25	64.65	64.91	65.09	64.96	65.39	65.24	65.83	64.97	64.79	64.71	64.65	64.57	
26	64.79	64.88	65.14	64.94	65.31	65.27	65.68	64.96	64.78	64.66	64.68	64.57	
27	64.88	64.97	65.06	64.94	65.19	65.24	65.56	64.94	64.78	64.69	64.67	64.57	
28	64.88	65.14	65.00	65.00	65.21	65.18	65.48	64.93	64.78	64.71	64.61	64.56	
29	65.11	65.01	64.96	65.04	65.25	65.14	65.43	64.92	64.77	64.71		64.59	
30	64.91	64.95	64.94	65.01	65.18	65.13	65.38	64.91	64.77	64.68		64.63	
31		64.93		64.98	65.23		65.32		64.76	64.67		64.65	
Mean	64.75	65.00	65.10	64.95	65.20	65.10	65.64	65.11	64.81	64.72	64.69	64.59	
Max	65.11	65.79	65.55	65.18	65.58	65.28	66.78	65.43	64.91	64.76	64.75	64.69	66.78
Min	64.65	64.81	64.93	64.83	64.99	64.98	65.10	64.91	64.76	64.66	64.61	64.55	64.55
Annual Max Momentary Gage Height	66.99		m. (MSL.) ,				at 15.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation	64.63		m. (MSL.) ,			River Bed	63.49	m. (MSL)					
Left Bank Elevation	71.51		m. (MSL.) ,										
Right Bank Elevation	70.70		m. (MSL.) ,			Drainage Area	1844	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.10	2.95	4.45	4.45	5.35	11.75	8.40	12.00	4.15	2.10	1.50	1.20	
2	1.90	3.40	4.60	4.15	6.50	9.08	12.78	11.25	3.85	2.10	1.60	0.60	
3	1.60	7.30	5.35	3.70	8.40	7.73	16.70	10.50	3.70	2.10	1.50	0.50	
4	1.40	5.35	10.25	3.55	12.51	6.90	14.37	11.75	3.70	2.00	1.60	0.50	
5	1.20	4.15	15.20	3.40	10.75	6.50	12.25	15.80	3.55	1.90	1.80	0.50	
6	1.30	3.25	19.40	3.25	8.63	5.90	10.50	12.78	3.40	1.70	2.00	0.50	
7	1.40	2.95	14.63	3.40	7.95	6.10	10.00	11.50	3.10	1.80	2.00	0.45	
8	1.40	2.65	12.25	3.85	8.17	7.10	9.53	10.25	2.95	1.80	1.90	0.40	
9	1.60	2.80	9.53	4.00	7.73	9.08	8.63	9.75	2.80	1.90	1.80	0.80	
10	1.80	2.80	7.95	3.55	8.17	8.40	7.73	9.08	2.65	1.90	1.70	1.40	
11	1.50	3.40	6.90	3.40	9.08	7.73	7.50	8.63	2.65	1.80	1.80	0.80	
12	2.30	5.05	7.95	3.10	8.17	8.17	25.31	7.73	2.65	1.80	1.30	0.50	
13	3.55	5.50	8.85	2.95	7.10	7.73	71.24	7.30	2.65	1.70	1.40	0.35	
14	2.80	10.00	7.30	3.40	6.10	6.50	44.92	6.70	2.65	1.70	1.10	0.30	
15	2.40	27.53	6.50	5.70	5.50	5.90	31.23	6.10	2.50	1.70	1.10	0.30	
16	2.20	11.25	6.30	9.30	9.08	5.70	27.16	5.90	2.50	1.90	1.10	0.25	
17	1.80	7.95	6.30	8.40	8.85	5.35	34.56	5.90	2.50	1.70	1.10	0.25	
18	1.50	7.10	6.70	6.70	11.50	5.20	26.42	6.30	2.40	1.60	1.10	0.25	
19	1.20	6.30	6.30	5.50	10.50	6.30	36.47	10.25	2.40	1.60	1.20	0.30	
20	1.00	6.30	5.70	5.35	20.30	6.70	32.34	8.17	2.40	1.50	1.20	0.50	
21	1.00	6.10	5.35	5.70	17.60	6.50	29.75	6.70	2.40	1.50	1.50	0.50	
22	1.00	5.35	5.35	5.90	12.00	7.10	36.47	5.90	2.40	1.50	1.60	0.30	
23	1.00	4.75	6.10	5.50	9.08	6.50	44.49	5.35	2.40	1.50	1.50	0.35	
24	1.00	4.45	7.10	5.20	11.50	7.95	44.49	5.35	2.40	1.50	1.00	0.50	
25	1.00	4.15	7.30	4.90	14.63	10.75	29.01	5.05	2.40	1.60	1.00	0.35	
26	2.40	3.70	8.40	4.60	12.51	11.50	23.54	4.90	2.30	1.10	1.30	0.35	
27	3.70	5.05	6.70	4.60	9.53	10.75	19.70	4.60	2.30	1.40	1.20	0.35	
28	3.70	8.40	5.50	5.50	10.00	9.30	17.30	4.45	2.30	1.60	0.60	0.30	
29	7.73	5.70	4.90	6.30	11.00	8.40	15.80	4.30	2.20	1.60		0.45	
30	4.15	4.75	4.60	5.70	9.30	8.17	14.37	4.15	2.20	1.30		0.80	
31		4.45		5.20	10.50		12.78		2.10	1.20		1.00	
Total	62.63	184.83	233.71	150.20	307.99	230.74	735.74	238.39	84.55	52.10	39.50	15.90	2336.28 CMSDAY
Mean	2.09	5.96	7.79	4.85	9.94	7.69	23.73	7.95	2.73	1.68	1.41	0.51	6.40 CMS
Max	7.73	27.53	19.40	9.30	20.30	11.75	71.24	15.80	4.15	2.10	2.00	1.40	71.24 CMS
Min	1.00	2.65	4.45	2.95	5.35	5.20	7.50	4.15	2.10	1.10	0.60	0.25	0.25 CMS
Runoff	5.41	15.97	20.19	12.98	26.61	19.94	63.57	20.60	7.31	4.50	3.41	1.37	201.86 MCM
Momentary Peak	82.75 CMS. at 66.99 m. (MSL) at 15.00 Hours , on Oct 13 , 2009												
Runoff Yield	3.47 Liters/Second/Square KM.			Momentary Peak Yield			44.875 Liters/Second/Square KM.						

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

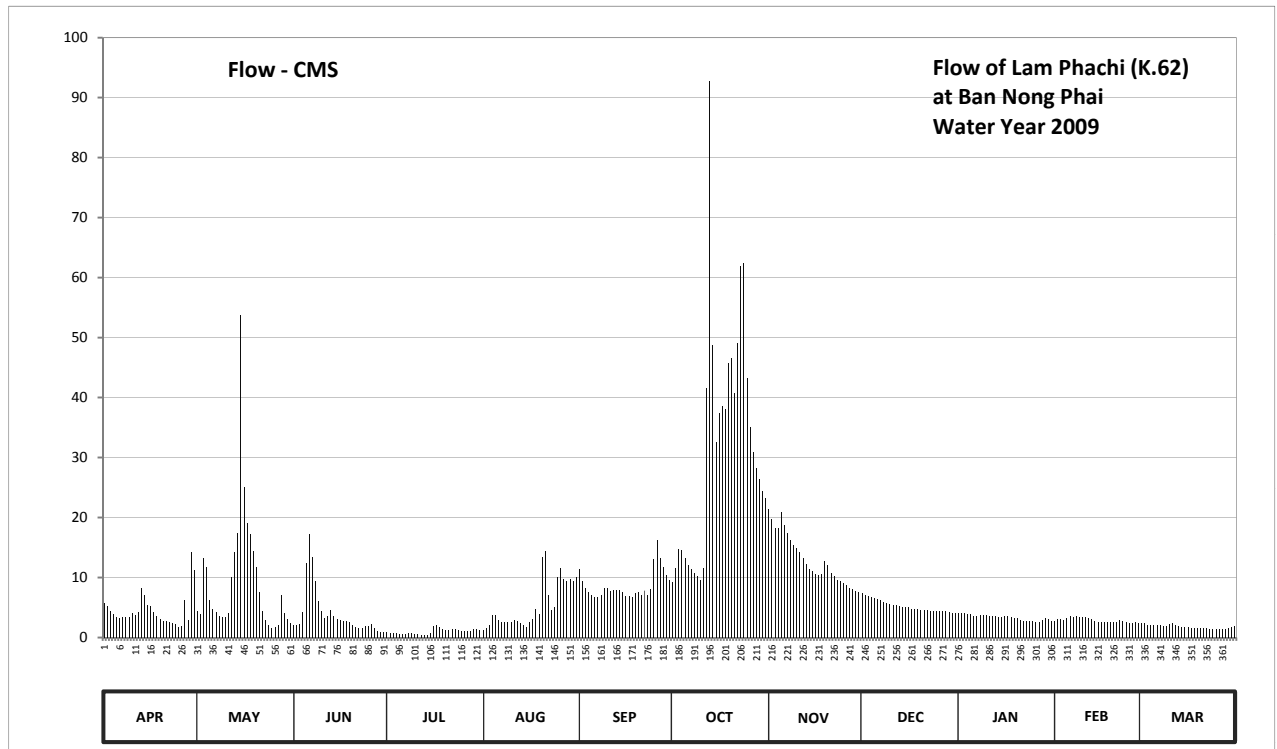
Lat 13 - 46 - 52 N Long 99 - 25 - 15 E

Location : on left bank at Ban Nong Phai.

	Ban Nong Phai	Amphoe Dan Makham Tia	Changwat Kanchanaburi
Drainage Area	1,725 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+49.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+55.218 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable with variable water surface slope.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.65	49.59	49.41	49.21	49.28	49.71	49.60	50.13	49.50	49.24	49.11	49.05	
2	49.63	49.56	49.41	49.20	49.33	49.61	49.72	50.07	49.48	49.25	49.14	49.06	
3	49.59	49.81	49.43	49.17	49.40	49.55	49.87	50.01	49.47	49.24	49.14	49.02	
4	49.56	49.78	49.58	49.15	49.55	49.51	49.86	50.01	49.46	49.23	49.13	49.01	
5	49.53	49.67	49.79	49.13	49.55	49.48	49.80	50.11	49.44	49.22	49.15	49.00	
6	49.52	49.61	49.97	49.13	49.49	49.46	49.74	50.03	49.43	49.20	49.19	49.00	
7	49.53	49.58	49.82	49.13	49.45	49.46	49.71	49.98	49.42	49.20	49.18	49.00	
8	49.53	49.54	49.74	49.16	49.46	49.48	49.68	49.93	49.40	49.21	49.19	48.99	
9	49.53	49.53	49.66	49.16	49.45	49.55	49.65	49.90	49.39	49.21	49.18	48.98	
10	49.57	49.53	49.59	49.14	49.45	49.55	49.62	49.88	49.38	49.21	49.17	49.04	
11	49.55	49.57	49.52	49.12	49.49	49.52	49.72	49.85	49.37	49.20	49.17	49.05	
12	49.58	49.75	49.54	49.09	49.48	49.53	50.72	49.80	49.36	49.19	49.15	49.02	
13	49.72	49.85	49.60	49.08	49.44	49.53	51.74	49.75	49.35	49.19	49.14	48.99	
14	49.70	49.98	49.54	49.09	49.40	49.53	50.89	49.71	49.34	49.18	49.10	48.97	
15	49.64	51.00	49.51	49.19	49.37	49.51	50.48	49.69	49.33	49.18	49.09	48.96	
16	49.63	50.25	49.49	49.39	49.46	49.47	50.61	49.67	49.33	49.19	49.09	48.95	
17	49.58	50.04	49.47	49.40	49.51	49.47	50.64	49.66	49.31	49.19	49.09	48.94	
18	49.54	49.97	49.48	49.36	49.61	49.46	50.63	49.67	49.30	49.17	49.09	48.94	
19	49.51	49.86	49.46	49.31	49.56	49.50	50.82	49.78	49.30	49.16	49.09	48.93	
20	49.48	49.78	49.41	49.29	49.82	49.51	50.84	49.74	49.29	49.16	49.09	48.92	
21	49.47	49.71	49.37	49.30	49.86	49.48	50.70	49.68	49.29	49.13	49.08	48.92	
22	49.45	49.59	49.34	49.31	49.70	49.52	50.90	49.65	49.29	49.10	49.12	48.92	
23	49.44	49.49	49.35	49.31	49.60	49.48	51.17	49.62	49.28	49.10	49.11	48.91	
24	49.43	49.40	49.39	49.30	49.62	49.54	51.18	49.61	49.28	49.10	49.08	48.91	
25	49.37	49.35	49.39	49.27	49.75	49.79	50.76	49.59	49.28	49.10	49.06	48.90	
26	49.39	49.37	49.42	49.25	49.72	49.93	50.55	49.57	49.28	49.09	49.06	48.90	
27	49.67	49.40	49.34	49.24	49.63	49.80	50.43	49.55	49.27	49.09	49.08	48.89	
28	49.49	49.70	49.26	49.27	49.61	49.73	50.35	49.54	49.27	49.13	49.05	48.89	
29	49.85	49.57	49.23	49.32	49.63	49.66	50.29	49.52	49.26	49.15		48.92	
30	49.77	49.51	49.23	49.31	49.61	49.62	50.23	49.51	49.25	49.14		48.96	
31	49.44			49.29	49.64		50.19		49.25	49.11		48.98	
Mean	49.56	49.70	49.49	49.23	49.55	49.56	50.36	49.77	49.34	49.17	49.12	48.97	
Max	49.85	51.00	49.97	49.40	49.86	49.93	51.74	50.13	49.50	49.25	49.19	49.06	51.74
Min	49.37	49.35	49.23	49.08	49.28	49.46	49.60	49.51	49.25	49.09	49.05	48.89	48.89
Annual Max Momentary Gage Height	52.04		m. (MSL.) ,				at 03.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation	49.00		m. (MSL.) ,				River Bed 49.03	m. (MSL)					
Left Bank Elevation		52.24		m. (MSL.) ,									
Right Bank Elevation		53.69		m. (MSL.) ,			Drainage Area 1725	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.75	4.35	2.10	0.85	1.20	11.40	9.20	21.44	7.45	4.05	2.80	2.35	
2	5.25	3.90	2.10	0.80	1.51	9.40	11.60	19.79	7.13	4.15	3.08	2.42	
3	4.35	13.25	2.30	0.71	2.00	8.32	14.77	18.25	6.97	4.05	3.08	2.14	
4	3.90	11.80	4.20	0.65	3.75	7.62	14.55	18.25	6.81	3.95	2.99	2.07	
5	3.45	6.25	12.40	0.59	3.75	7.13	13.20	20.85	6.49	3.85	3.18	2.00	
6	3.30	4.75	17.24	0.59	2.90	6.81	12.00	18.76	6.33	3.65	3.55	2.00	
7	3.45	4.20	13.49	0.59	2.50	6.81	11.40	17.49	6.17	3.65	3.46	2.00	
8	3.45	3.60	9.40	0.68	2.60	7.13	10.80	16.21	5.85	3.75	3.55	1.94	
9	3.45	3.45	6.00	0.68	2.50	8.32	10.20	15.45	5.73	3.75	3.46	1.88	
10	4.05	3.45	4.35	0.62	2.50	8.32	9.60	15.00	5.61	3.75	3.36	2.28	
11	3.75	4.05	3.30	0.56	2.90	7.80	11.60	14.32	5.49	3.65	3.36	2.35	
12	4.20	10.00	3.60	0.48	2.80	7.97	41.59	13.20	5.37	3.55	3.18	2.14	
13	8.20	14.22	4.50	0.45	2.40	7.97	92.80	12.20	5.25	3.55	3.08	1.94	
14	7.00	17.49	3.60	0.48	2.00	7.97	48.73	11.40	5.13	3.46	2.70	1.82	
15	5.50	53.65	3.15	0.77	1.79	7.62	32.58	11.00	5.01	3.46	2.63	1.76	
16	5.25	25.07	2.90	1.93	2.60	6.97	37.38	10.60	5.01	3.55	2.63	1.70	
17	4.20	19.02	2.70	2.00	3.15	6.97	38.50	10.40	4.77	3.55	2.63	1.64	
18	3.60	17.24	2.80	1.72	4.75	6.81	38.13	10.60	4.65	3.36	2.63	1.64	
19	3.15	14.47	2.60	1.37	3.90	7.45	45.79	12.80	4.65	3.27	2.63	1.58	
20	2.80	11.80	2.10	1.25	13.49	7.62	46.63	12.00	4.55	3.27	2.63	1.52	
21	2.70	7.60	1.79	1.30	14.47	7.13	40.75	10.80	4.55	2.99	2.56	1.52	
22	2.50	4.35	1.58	1.37	7.00	7.80	49.15	10.20	4.55	2.70	2.89	1.52	
23	2.40	2.90	1.65	1.37	4.50	7.13	61.98	9.60	4.45	2.70	2.80	1.46	
24	2.30	2.00	1.93	1.30	5.00	8.15	62.47	9.40	4.45	2.70	2.56	1.46	
25	1.79	1.65	1.93	1.15	10.00	13.00	43.27	9.03	4.45	2.70	2.42	1.40	
26	1.93	1.79	2.20	1.05	11.60	16.21	35.12	8.68	4.45	2.63	2.42	1.40	
27	6.25	2.00	1.58	1.00	9.80	13.20	30.90	8.32	4.35	2.63	2.56	1.34	
28	2.90	7.00	1.10	1.15	9.40	11.80	28.27	8.15	4.35	2.99	2.35	1.34	
29	14.22	4.05	0.95	1.44	9.80	10.40	26.34	7.80	4.25	3.18		1.52	
30	11.20	3.15	0.95	1.37	9.40	9.60	24.44	7.62	4.15	3.08		1.76	
31		2.40		1.25	10.00		23.20		4.15	2.80		1.88	
Total	136.24	284.90	120.49	31.52	165.96	260.83	976.94	389.61	162.57	104.37	81.17	55.77	2770.37 CMSDAY
Mean	4.54	9.19	4.02	1.02	5.35	8.69	31.51	12.99	5.24	3.37	2.90	1.80	7.59 CMS
Max	14.22	53.65	17.24	2.00	14.47	16.21	92.80	21.44	7.45	4.15	3.55	2.42	92.80 CMS
Min	1.79	1.65	0.95	0.45	1.20	6.81	9.20	7.62	4.15	2.63	2.35	1.34	0.45 CMS
Runoff	11.77	24.62	10.41	2.72	14.34	22.54	84.41	33.66	14.05	9.02	7.01	4.82	239.36 MCM
Momentary Peak	111.36 CMS. at 52.04 m. (MSL) at 03.00 Hours , on Oct 13 , 2009												
Runoff Yield	4.40 Liters/Second/Square KM.			Momentary Peak Yield			64.557 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Prachin Buri River at Ban Kabin Buri , Prachin Buri (Kgt.3)

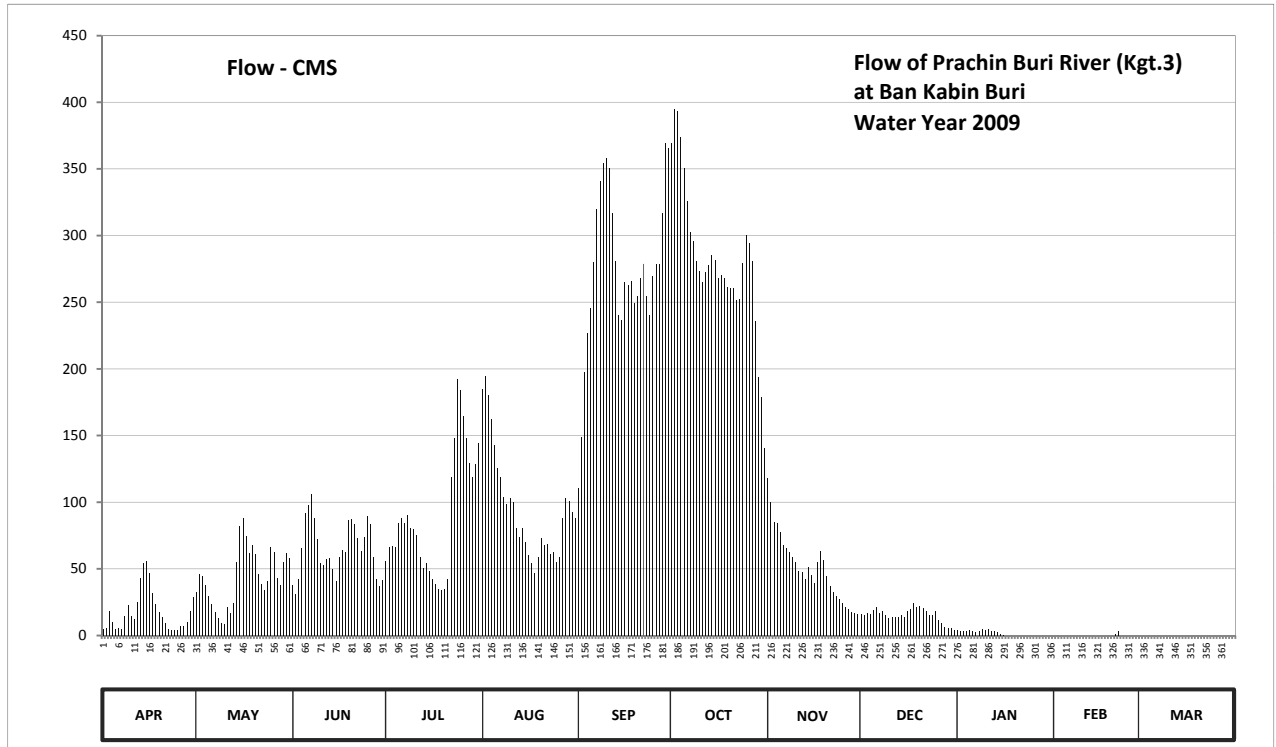
Lat 13 - 59 - 00 N Long 101 - 42 - 26 E

Location : on left bank in front of Amphoe Kabin Buri Office and about 500 meters downstream from the confluence of Lam Phra Prong.

	Ban Kabin Buri	Amphoe Kabin Buri	Changwat Prachin Buri
Drainage Area	7,425 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5 meters from the top staff gage.	Elevation	+11.410 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 means of 5 readings		
Period of Available Gage Records	1941 to date		
Rating Operation			
Period of Rating	1941 - 1943 , 1945, 1964 to date		
Rated by Flot	-		
Rated by Current Meter	1941 - 1943 , 1945, 1964 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	1.06	1.20	1.65	4.40	2.91	7.46	3.06	0.53	0.13	0.00	0.00	
2	0.18	1.40	1.02	1.91	4.57	3.68	7.83	2.71	0.52	0.12	0.00	0.00	
3	0.60	1.37	1.31	1.93	4.30	4.63	7.81	2.37	0.56	0.12	0.00	0.00	
4	0.33	1.19	1.89	1.91	3.95	5.11	7.53	2.36	0.54	0.11	0.00	0.00	
5	0.17	0.98	2.54	2.36	3.56	5.43	7.18	2.19	0.63	0.14	0.00	0.00	
6	0.19	0.78	2.66	2.45	3.21	6.00	6.77	1.95	0.70	0.12	0.00	0.00	
7	0.16	0.59	2.82	2.35	3.07	6.66	6.38	1.89	0.57	0.09	0.00	0.00	
8	0.48	0.43	2.46	2.51	2.78	7.01	6.26	1.82	0.61	0.11	0.00	0.00	
9	0.76	0.31	2.05	2.27	2.67	7.24	6.02	1.72	0.52	0.16	0.00	0.00	
10	0.49	0.28	1.60	2.25	2.77	7.30	5.89	1.63	0.43	0.14	0.00	0.00	
11	0.42	0.71	1.58	2.13	2.70	7.18	5.75	1.46	0.47	0.17	0.00	0.00	
12	0.84	0.56	1.69	1.73	2.26	6.61	5.88	1.44	0.45	0.12	0.00	0.00	
13	1.33	0.80	1.70	1.51	2.10	6.01	5.96	1.31	0.46	0.10	0.00	0.00	
14	1.61	1.63	1.50	1.61	2.26	5.34	6.09	1.53	0.51	0.09	0.00	0.00	
15	1.65	2.30	1.27	1.45	2.00	5.27	6.03	1.38	0.46	0.03	0.00	0.00	
16	1.42	2.46	1.73	1.31	1.75	5.75	5.80	1.24	0.61	0.01	0.00	0.00	
17	1.04	2.12	1.86	1.21	1.61	5.71	5.84	1.63	0.67	0.00	0.00	0.00	
18	0.78	1.79	1.82	1.13	1.43	5.76	5.80	1.83	0.80	0.00	0.00	0.00	
19	0.58	1.95	2.42	1.11	1.72	5.49	5.69	1.66	0.72	0.00	0.00	0.00	
20	0.47	1.77	2.44	1.12	2.07	5.58	5.67	1.36	0.73	0.00	0.00	0.00	
21	0.30	1.40	2.34	1.30	1.95	5.80	5.67	1.17	0.69	0.00	0.04	0.00	
22	0.17	1.21	2.07	3.07	1.96	5.98	5.53	1.06	0.61	0.00	0.12	0.00	
23	0.14	1.11	1.84	3.66	1.77	5.58	5.54	0.98	0.52	0.00	0.00	0.00	
24	0.14	1.27	2.09	4.54	1.82	5.34	5.99	0.92	0.50	0.00	0.00	0.00	
25	0.13	1.91	2.49	4.38	1.62	5.83	6.34	0.82	0.61	0.00	0.00	0.00	
26	0.24	1.81	2.34	3.99	1.72	5.98	6.24	0.72	0.39	0.00	0.00	0.00	
27	0.24	1.33	1.72	3.66	2.45	5.98	6.01	0.66	0.30	0.00	0.00	0.00	
28	0.34	1.20	1.30	3.28	2.77	6.61	5.26	0.59	0.22	0.00	0.00	0.00	
29	0.60	1.63	1.18	3.08	2.72	7.46	4.56	0.55	0.19	0.00	0.00	0.00	
30	0.95	1.80	1.29	3.27	2.55	7.41	4.28	0.54	0.18	0.00	0.00	0.00	
31	1.70			3.58	2.45		3.51		0.14	0.00	0.00	0.00	
Mean	0.56	1.32	1.87	2.38	2.55	5.89	6.02	1.49	0.51	0.06	0.01	0.00	
Max	1.65	2.46	2.82	4.54	4.57	7.46	7.83	3.06	0.80	0.17	0.12	0.00	7.83
Min	0.13	0.28	1.02	1.11	1.43	2.91	3.51	0.54	0.14	0.00	0.00	0.00	0.00
Annual Max Momentary Gage Height	7.87		m. (MSL.) ,				at 15.00 Hours, on Oct 2, 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-0.92	m. (MSL)					
Left Bank Elevation	11.22		m. (MSL.) ,										
Right Bank Elevation	10.95		m. (MSL.) ,			Drainage Area	7425	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.10	32.40	38.00	56.00	185.00	110.50	369.20	118.00	15.90	3.90	0.00	0.00	
2	5.40	46.00	30.80	66.40	194.20	149.00	395.10	100.50	15.60	3.60	0.00	0.00	
3	18.00	44.80	42.40	67.20	180.00	197.80	393.70	84.80	16.80	3.60	0.00	0.00	
4	9.90	37.60	65.60	66.40	162.50	226.60	374.10	84.40	16.20	3.30	0.00	0.00	
5	5.10	29.40	92.00	84.40	143.00	245.80	350.80	77.60	18.90	4.20	0.00	0.00	
6	5.70	23.40	98.00	88.00	125.50	280.00	326.20	68.00	21.00	3.60	0.00	0.00	
7	4.80	17.70	106.00	84.00	118.50	319.60	302.80	65.60	17.10	2.70	0.00	0.00	
8	14.40	12.90	88.40	90.50	104.00	340.60	295.60	62.80	18.30	3.30	0.00	0.00	
9	22.80	9.30	72.00	80.80	98.50	354.40	281.20	58.80	15.60	4.80	0.00	0.00	
10	14.70	8.40	54.00	80.00	103.50	358.00	273.40	55.20	12.90	4.20	0.00	0.00	
11	12.60	21.30	53.20	75.20	100.00	350.80	265.00	48.40	14.10	5.10	0.00	0.00	
12	25.20	16.80	57.60	59.20	80.40	316.60	272.80	47.60	13.50	3.60	0.00	0.00	
13	43.20	24.00	58.00	50.40	74.00	280.60	277.60	42.40	13.80	3.00	0.00	0.00	
14	54.40	55.20	50.00	54.40	80.40	240.40	285.40	51.20	15.30	2.70	0.00	0.00	
15	56.00	82.00	40.80	48.00	70.00	236.20	281.80	45.20	13.80	0.90	0.00	0.00	
16	46.80	88.40	59.20	42.40	60.00	265.00	268.00	39.60	18.30	0.30	0.00	0.00	
17	31.60	74.80	64.40	38.40	54.40	262.60	270.40	55.20	20.10	0.00	0.00	0.00	
18	23.40	61.60	62.80	35.20	47.20	265.60	268.00	63.20	24.00	0.00	0.00	0.00	
19	17.40	68.00	86.80	34.40	58.80	249.40	261.40	56.40	21.60	0.00	0.00	0.00	
20	14.10	60.80	87.60	34.80	72.80	254.80	260.20	44.40	21.90	0.00	0.00	0.00	
21	9.00	46.00	83.60	42.00	68.00	268.00	260.20	36.80	20.70	0.00	1.20	0.00	
22	5.10	38.40	72.80	118.50	68.40	278.80	251.80	32.40	18.30	0.00	3.60	0.00	
23	4.20	34.40	63.60	148.00	60.80	254.80	252.40	29.40	15.60	0.00	0.00	0.00	
24	4.20	40.80	73.60	192.40	62.80	240.40	279.40	27.60	15.00	0.00	0.00	0.00	
25	3.90	66.40	89.60	184.00	54.80	269.80	300.40	24.60	18.30	0.00	0.00	0.00	
26	7.20	62.40	83.60	164.50	58.80	278.80	294.40	21.60	11.70	0.00	0.00	0.00	
27	7.20	43.20	58.80	148.00	88.00	278.80	280.60	19.80	9.00	0.00	0.00	0.00	
28	10.20	38.00	42.00	129.00	103.50	316.60	235.60	17.70	6.60	0.00	0.00	0.00	
29	18.00	55.20	37.20	119.00	101.00	369.20	193.60	16.50	5.70	0.00	0.00	0.00	
30	28.50	62.00	41.60	128.50	92.50	365.70	179.00	16.20	5.40	0.00	0.00	0.00	
31		58.00		144.00	88.00		140.50		4.20	0.00		0.00	
Total	528.10	1359.60	1954.00	2754.00	2959.30	8225.20	8740.60	1511.90	475.20	52.80	4.80	0.00	28565.50 CMSDAY
Mean	17.60	43.86	65.13	88.84	95.46	274.17	281.95	50.40	15.33	1.70	0.17	0.00	78.26 CMS
Max	56.00	88.40	106.00	192.40	194.20	369.20	395.10	118.00	24.00	5.10	3.60	0.00	395.10 CMS
Min	3.90	8.40	30.80	34.40	47.20	110.50	140.50	16.20	4.20	0.00	0.00	0.00	0.00 CMS
Runoff	45.63	117.47	168.83	237.95	255.68	710.66	755.19	130.63	41.06	4.56	0.42	0.00	2468.06 MCM
Momentary Peak	397.90 CMS, at 7.87 M (MSL), at 15.00 Hours, on Oct 2, 2009												
Runoff Yield	10.54 Liters/Second/Square KM.				Momentary Peak Yield				53.589 Liters/Second/Square KM.				

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Khao Chakan , Sa Kao (Kgt.9)

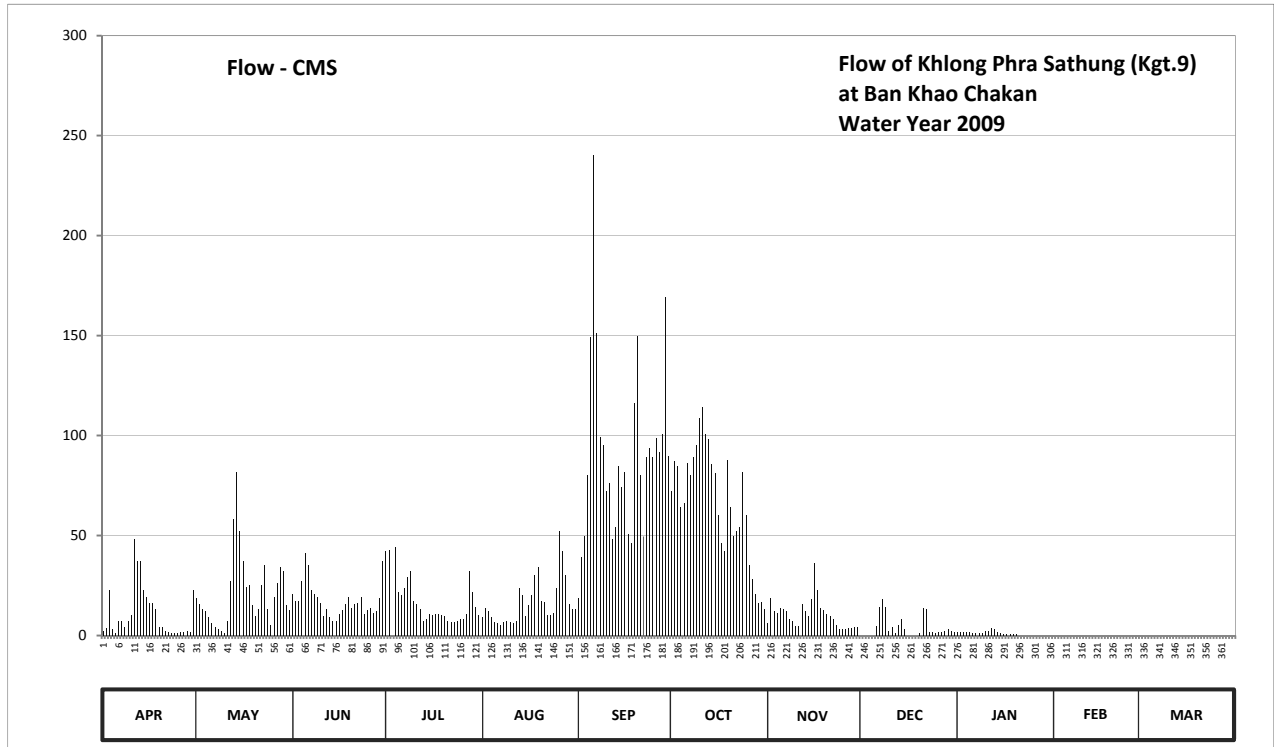
Lat 13 - 40 - 11 N Long 102 - 04 - 38 E

Location : on right bank near Wat Khao Chakan.

	Ban Khao Chakan	Amphoe Khao Chakan	Changwat Sa Kao
Drainage Area	2,264 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+39.570 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 10 meters from the automatic gage building.	Elevation	+48.586 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1972 to date		
Rating Operation			
Period of Rating	1972 - 1987 , 1989 to date		
Rated by Flot	-		
Rated by Current Meter	1972 - 1987 , 1989 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.24	43.51	43.54	43.77	43.35	43.51	43.96	43.30	43.17	43.23	43.16	42.49	
2	43.26	43.46	43.49	43.78	43.43	43.74	44.24	43.51	43.11	43.23	43.16	42.48	
3	43.57	43.42	43.49	42.88	43.40	43.83	44.15	43.40	43.10	43.23	43.16	42.48	
4	43.25	43.40	43.62	43.79	43.35	44.01	43.92	43.39	43.10	43.23	43.16	42.48	
5	43.22	43.35	43.76	43.55	43.31	45.53	43.93	43.43	43.11	43.23	43.16	42.48	
6	43.32	43.30	43.70	43.53	43.30	46.67	44.20	43.42	43.28	43.22	43.16	42.48	
7	43.32	43.27	43.57	43.58	43.29	45.56	44.01	43.40	43.44	43.22	43.16	42.48	
8	43.27	43.25	43.54	43.64	43.31	44.58	44.31	43.34	43.50	43.22	43.16	42.48	
9	43.32	43.24	43.52	43.67	43.32	44.48	44.48	43.32	43.44	43.22	43.16	42.48	
10	43.37	43.22	43.47	43.49	43.31	43.96	44.79	43.28	43.24	43.24	43.15	42.48	
11	43.82	43.32	43.36	43.46	43.30	43.98	44.90	43.28	43.27	43.24	43.15	42.48	
12	43.72	43.62	43.42	43.42	43.32	43.82	44.61	43.46	43.22	43.26	43.15	42.47	
13	43.72	43.89	43.35	43.32	43.58	43.86	44.55	43.40	43.29	43.25	43.15	42.47	
14	43.57	44.05	43.32	43.34	43.53	44.15	44.19	43.36	43.34	43.23	43.15	42.47	
15	43.52	43.85	43.32	43.38	43.36	43.97	44.04	43.50	43.25	43.22	43.15	42.47	
16	43.47	43.72	43.38	43.37	43.45	44.05	43.90	43.71	43.15	43.21	43.15	42.48	
17	43.47	43.59	43.41	43.38	43.53	43.84	43.81	43.57	43.10	43.21	43.14	42.48	
18	43.42	43.60	43.46	43.38	43.65	43.81	43.77	43.43	43.10	43.21	43.06	42.47	
19	43.27	43.45	43.52	43.37	43.69	44.94	44.26	43.41	43.10	43.21	42.96	42.47	
20	43.27	43.36	43.43	43.36	43.49	45.54	43.92	43.38	43.22	43.21	42.86	42.47	
21	43.24	43.42	43.46	43.32	43.48	44.00	43.83	43.36	43.43	43.20	42.78	42.47	
22	43.23	43.60	43.47	43.31	43.37	43.83	43.85	43.34	43.42	43.18	42.70	42.49	
23	43.22	43.70	43.52	43.31	43.37	44.30	43.86	43.29	43.23	43.17	42.63	42.49	
24	43.22	43.42	43.38	43.32	43.39	44.44	44.06	43.25	43.23	43.16	42.56	42.49	
25	43.22	43.29	43.41	43.34	43.58	44.30	43.90	43.25	43.22	43.16	42.53	42.49	
26	43.23	43.52	43.43	43.34	43.85	44.56	43.70	43.25	43.23	43.16	42.52	42.50	
27	43.23	43.61	43.39	43.38	43.77	44.39	43.63	43.26	43.23	43.16	42.53	42.50	
28	43.24	43.69	43.40	43.67	43.65	44.61	43.54	43.26	43.24	43.16	42.51	42.50	
29	43.23	43.67	43.51	43.55	43.46	45.82	43.47	43.27	43.25	43.16		42.50	
30	43.57	43.45	43.72	43.44	43.42	44.32	43.48	43.27	43.24	43.16		42.50	
31		43.41		43.37	43.42		43.42		43.23	43.16		40.55	
Mean	43.37	43.50	43.48	43.45	43.45	44.41	44.02	43.37	43.24	43.20	42.97	42.42	
Max	43.82	44.05	43.76	43.79	43.85	46.67	44.90	43.71	43.50	43.26	43.16	42.50	46.67
Min	43.22	43.22	43.32	42.88	43.29	43.51	43.42	43.25	43.10	43.16	42.51	40.55	40.55
Annual Max Momentary Gage Height	46.74		m. (MSL.) ,				at 15.00 Hours, on Sep 6, 2009						
Zero Gage at Bottom Elevation	39.57		m. (MSL.) ,			River Bed	39.53		m. (MSL)				
Left Bank Elevation	47.01		m. (MSL.) ,										
Right Bank Elevation	48.44		m. (MSL.) ,			Drainage Area	2264		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	18.70	20.80	42.00	9.00	18.70	72.00	6.00	0.00	1.80	0.00	0.00	
2	3.60	15.60	17.40	43.00	13.80	39.00	87.20	18.70	0.00	1.80	0.00	0.00	
3	22.90	13.20	17.40	0.00	12.00	49.50	84.50	12.00	0.00	1.80	0.00	0.00	
4	3.00	12.00	27.00	44.00	9.00	80.30	64.00	11.40	0.00	1.80	0.00	0.00	
5	1.20	9.00	41.00	21.50	6.60	149.10	66.00	13.80	0.00	1.80	0.00	0.00	
6	7.20	6.00	35.00	20.10	6.00	240.30	86.00	13.20	4.80	1.20	0.00	0.00	
7	7.20	4.20	22.90	23.60	5.40	151.20	80.30	12.00	14.40	1.20	0.00	0.00	
8	4.20	3.00	20.80	29.00	6.60	99.20	89.30	8.40	18.00	1.20	0.00	0.00	
9	7.20	2.40	19.40	32.00	7.20	95.20	95.20	7.20	14.40	1.20	0.00	0.00	
10	10.20	1.20	16.20	17.40	6.60	72.00	108.50	4.80	2.40	2.40	0.00	0.00	
11	48.00	7.20	9.60	15.60	6.00	76.00	114.00	4.80	4.20	2.40	0.00	0.00	
12	37.00	27.00	13.20	13.20	7.20	48.00	100.40	15.60	1.20	3.60	0.00	0.00	
13	37.00	58.50	9.00	7.20	23.60	54.00	98.00	12.00	5.40	3.00	0.00	0.00	
14	22.90	81.50	7.20	8.40	20.10	84.50	85.70	9.60	8.40	1.80	0.00	0.00	
15	19.40	52.50	7.20	10.80	9.60	74.00	81.20	18.00	3.00	1.20	0.00	0.00	
16	16.20	37.00	10.80	10.20	15.00	81.50	60.00	36.00	0.00	0.60	0.00	0.00	
17	16.20	24.30	12.60	10.80	20.10	51.00	46.50	22.90	0.00	0.60	0.00	0.00	
18	13.20	25.00	15.60	10.80	30.00	46.50	42.00	13.80	0.00	0.60	0.00	0.00	
19	4.20	15.00	19.40	10.20	34.00	116.00	87.80	12.60	0.00	0.60	0.00	0.00	
20	4.20	9.60	13.80	9.60	17.40	149.80	64.00	10.80	1.20	0.60	0.00	0.00	
21	2.40	13.20	15.60	7.20	16.80	80.00	49.50	9.60	13.80	0.00	0.00	0.00	
22	1.80	25.00	16.20	6.60	10.20	49.50	52.50	8.40	13.20	0.00	0.00	0.00	
23	1.20	35.00	19.40	6.60	10.20	89.00	54.00	5.40	1.80	0.00	0.00	0.00	
24	1.20	13.20	10.80	7.20	11.40	93.60	81.80	3.00	1.80	0.00	0.00	0.00	
25	1.20	5.40	12.60	8.40	23.60	89.00	60.00	3.00	1.20	0.00	0.00	0.00	
26	1.80	19.40	13.80	8.40	52.50	98.40	35.00	3.00	1.80	0.00	0.00	0.00	
27	1.80	26.00	11.40	10.80	42.00	91.70	28.00	3.60	1.80	0.00	0.00	0.00	
28	2.40	34.00	12.00	32.00	30.00	100.40	20.80	3.60	2.40	0.00	0.00	0.00	
29	1.80	32.00	18.70	21.50	15.60	169.40	16.20	4.20	3.00	0.00	0.00	0.00	
30	22.90	15.00	37.00	14.40	13.20	89.60	16.80	4.20	2.40	0.00	0.00	0.00	
31		12.60		10.20	13.20		13.20		1.80	0.00		0.00	
Total	325.90	653.70	523.80	512.70	503.90	2726.40	2040.40	311.60	122.40	31.20	0.00	0.00	7752.00 CMSDAY
Mean	10.86	21.09	17.46	16.54	16.25	90.88	65.82	10.39	3.95	1.01	0.00	0.00	21.24 CMS
Max	48.00	81.50	41.00	44.00	52.50	240.30	114.00	36.00	18.00	3.60	0.00	0.00	240.30 CMS
Min	1.20	1.20	7.20	0.00	5.40	18.70	13.20	3.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	28.16	56.48	45.26	44.30	43.54	235.56	176.29	26.92	10.58	2.70	0.00	0.00	669.77 MCM
Momentary Peak	246.51 CMS, at 46.74 M (MSL), at 15.00 Hours, on Sep 6, 2009												
Runoff Yield	9.38 Liters/Second/Square KM.			Momentary Peak Yield			108.883 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng , Sa Kao (Kgt.12)

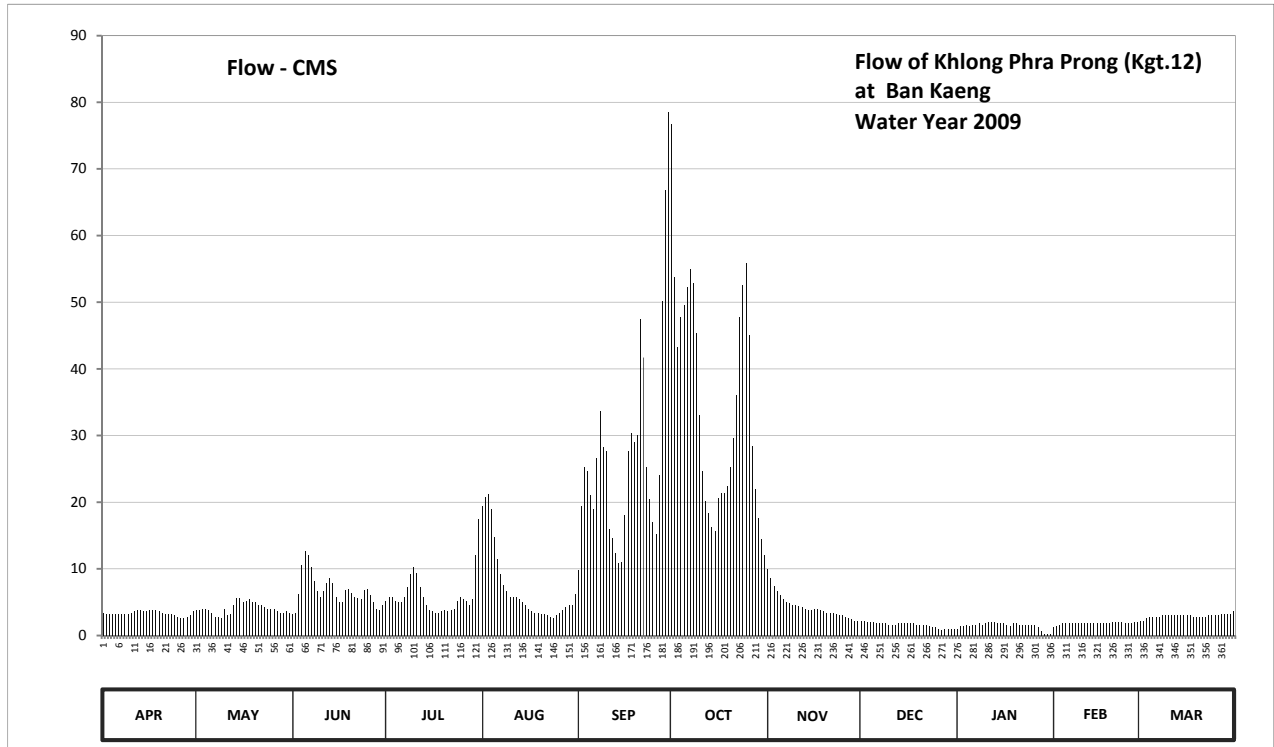
Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	Ban Kaeng	Amphoe Mueang	Changwat Sa Kao
Drainage Area	1,478 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+13.835 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank in front of the gage observer's house.	Elevation	+23.522 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1966 to date		
Rating Operation			
Period of Rating	1966 to date		
Rated by Flot	-		
Rated by Current Meter	1966 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The concrete weir situated about 7 kilometers downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.27	16.29	16.26	16.36	17.07	16.59	19.16	16.60	16.21	16.15	16.16	16.21	
2	16.26	16.29	16.27	16.39	17.14	17.07	18.39	16.53	16.21	16.17	16.17	16.21	
3	16.26	16.30	16.41	16.39	17.16	17.36	18.04	16.47	16.20	16.17	16.18	16.23	
4	16.26	16.30	16.63	16.36	17.05	17.33	18.19	16.43	16.20	16.18	16.19	16.24	
5	16.26	16.29	16.73	16.35	16.84	17.15	18.25	16.40	16.20	16.17	16.19	16.24	
6	16.26	16.27	16.70	16.35	16.67	17.05	18.34	16.37	16.19	16.18	16.19	16.24	
7	16.26	16.24	16.61	16.39	16.56	17.43	18.43	16.35	16.19	16.18	16.19	16.24	
8	16.26	16.24	16.51	16.46	16.48	17.72	18.36	16.34	16.19	16.19	16.19	16.25	
9	16.26	16.23	16.43	16.56	16.43	17.51	18.11	16.33	16.19	16.18	16.19	16.25	
10	16.27	16.30	16.39	16.61	16.39	17.48	17.70	16.33	16.18	16.19	16.19	16.25	
11	16.28	16.25	16.43	16.57	16.39	16.90	17.33	16.32	16.18	16.20	16.19	16.25	
12	16.29	16.26	16.49	16.46	16.39	16.83	17.11	16.31	16.18	16.20	16.19	16.25	
13	16.29	16.33	16.53	16.39	16.37	16.72	17.02	16.30	16.19	16.20	16.19	16.25	
14	16.28	16.38	16.49	16.33	16.35	16.64	16.91	16.29	16.19	16.19	16.19	16.25	
15	16.28	16.38	16.39	16.29	16.33	16.65	16.88	16.29	16.19	16.19	16.19	16.25	
16	16.29	16.35	16.35	16.28	16.30	17.00	17.13	16.30	16.19	16.19	16.19	16.25	
17	16.29	16.36	16.35	16.27	16.28	17.48	17.17	16.30	16.19	16.18	16.19	16.25	
18	16.29	16.37	16.44	16.27	16.27	17.61	17.17	16.29	16.19	16.17	16.19	16.24	
19	16.28	16.35	16.45	16.28	16.27	17.55	17.22	16.28	16.18	16.19	16.19	16.24	
20	16.27	16.35	16.42	16.29	16.26	17.60	17.36	16.27	16.18	16.19	16.20	16.24	
21	16.26	16.33	16.39	16.28	16.26	18.18	17.58	16.27	16.18	16.18	16.20	16.24	
22	16.26	16.33	16.38	16.29	16.25	17.99	17.80	16.27	16.18	16.18	16.20	16.24	
23	16.26	16.31	16.37	16.30	16.24	17.36	18.19	16.26	16.17	16.18	16.20	16.25	
24	16.25	16.30	16.44	16.36	16.23	17.12	18.35	16.25	16.16	16.18	16.19	16.25	
25	16.24	16.30	16.45	16.39	16.25	16.95	18.46	16.25	16.16	16.18	16.19	16.25	
26	16.23	16.30	16.40	16.37	16.27	16.86	18.10	16.24	16.15	16.18	16.19	16.25	
27	16.23	16.28	16.35	16.36	16.29	17.30	17.52	16.23	16.14	16.16	16.20	16.26	
28	16.24	16.27	16.30	16.33	16.31	18.27	17.20	16.22	16.15	16.13	16.20	16.26	
29	16.25	16.27	16.29	16.37	16.33	18.83	16.98	16.21	16.15	16.11		16.26	
30	16.28	16.28	16.33	16.70	16.33	19.22	16.82	16.21	16.15	16.11		16.26	
31		16.27		16.97	16.41		16.70		16.15	16.11		16.28	
Mean	16.27	16.30	16.43	16.40	16.46	17.39	17.68	16.32	16.18	16.17	16.19	16.25	
Max	16.29	16.38	16.73	16.97	17.16	19.22	19.16	16.60	16.21	16.20	16.20	16.28	19.22
Min	16.23	16.23	16.26	16.27	16.23	16.59	16.70	16.21	16.14	16.11	16.16	16.21	16.11
Annual Max Momentary Gage Height	19.26		m. (MSL.) ,			at 18.00 Hours, on Sep 30, 2009							
Zero Gage at Bottom Elevation	13.84		m. (MSL.) ,			River Bed	13.84	m. (MSL)					
Left Bank Elevation	23.47		m. (MSL.) ,										
Right Bank Elevation	22.11		m. (MSL.) ,			Drainage Area	1478	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.40	3.80	3.20	5.20	19.40	9.80	76.80	10.00	2.20	1.00	1.20	2.20	
2	3.20	3.80	3.40	5.80	20.80	19.40	53.70	8.60	2.20	1.40	1.40	2.20	
3	3.20	4.00	6.20	5.80	21.20	25.20	43.20	7.40	2.00	1.40	1.60	2.60	
4	3.20	4.00	10.60	5.20	19.00	24.60	47.70	6.60	2.00	1.60	1.80	2.80	
5	3.20	3.80	12.60	5.00	14.80	21.00	49.50	6.00	2.00	1.40	1.80	2.80	
6	3.20	3.40	12.00	5.00	11.40	19.00	52.20	5.40	1.80	1.60	1.80	2.80	
7	3.20	2.80	10.20	5.80	9.20	26.60	54.90	5.00	1.80	1.60	1.80	2.80	
8	3.20	2.80	8.20	7.20	7.60	33.60	52.80	4.80	1.80	1.80	1.80	3.00	
9	3.20	2.60	6.60	9.20	6.60	28.20	45.30	4.60	1.80	1.60	1.80	3.00	
10	3.40	4.00	5.80	10.20	5.80	27.60	33.00	4.60	1.60	1.80	1.80	3.00	
11	3.60	3.00	6.60	9.40	5.80	16.00	24.60	4.40	1.60	2.00	1.80	3.00	
12	3.80	3.20	7.80	7.20	5.80	14.60	20.20	4.20	1.60	2.00	1.80	3.00	
13	3.80	4.60	8.60	5.80	5.40	12.40	18.40	4.00	1.80	2.00	1.80	3.00	
14	3.60	5.60	7.80	4.60	5.00	10.80	16.20	3.80	1.80	1.80	1.80	3.00	
15	3.60	5.60	5.80	3.80	4.60	11.00	15.60	3.80	1.80	1.80	1.80	3.00	
16	3.80	5.00	5.00	3.60	4.00	18.00	20.60	4.00	1.80	1.80	1.80	3.00	
17	3.80	5.20	5.00	3.40	3.60	27.60	21.40	4.00	1.80	1.60	1.80	3.00	
18	3.80	5.40	6.80	3.40	3.40	30.30	21.40	3.80	1.80	1.40	1.80	2.80	
19	3.60	5.00	7.00	3.60	3.40	29.00	22.40	3.60	1.60	1.80	1.80	2.80	
20	3.40	5.00	6.40	3.80	3.20	30.00	25.20	3.40	1.60	1.80	2.00	2.80	
21	3.20	4.60	5.80	3.60	3.20	47.40	29.60	3.40	1.60	1.60	2.00	2.80	
22	3.20	4.60	5.60	3.80	3.00	41.70	36.00	3.40	1.60	1.60	2.00	2.80	
23	3.20	4.20	5.40	4.00	2.80	25.20	47.70	3.20	1.40	1.60	2.00	3.00	
24	3.00	4.00	6.80	5.20	2.60	20.40	52.50	3.00	1.20	1.60	1.80	3.00	
25	2.80	4.00	7.00	5.80	3.00	17.00	55.80	3.00	1.20	1.60	1.80	3.00	
26	2.60	4.00	6.00	5.40	3.40	15.20	45.00	2.80	1.00	1.60	1.80	3.00	
27	2.60	3.60	5.00	5.20	3.80	24.00	28.40	2.60	0.80	1.20	2.00	3.20	
28	2.80	3.40	4.00	4.60	4.20	50.10	22.00	2.40	1.00	0.60	2.00	3.20	
29	3.00	3.40	3.80	5.40	4.60	66.90	17.60	2.20	1.00	0.20		3.20	
30	3.60	3.60	4.60	12.00	4.60	78.60	14.40	2.20	1.00	0.20		3.20	
31	3.40			17.40	6.20		12.00		1.00	0.20		3.60	
Total	99.20	125.40	199.60	185.40	221.40	821.20	1076.10	130.20	49.20	45.20	50.40	90.60	3093.90 CMSDAY
Mean	3.31	4.05	6.65	5.98	7.14	27.37	34.71	4.34	1.59	1.46	1.80	2.92	8.48 CMS
Max	3.80	5.60	12.60	17.40	21.20	78.60	76.80	10.00	2.20	2.00	2.00	3.60	78.60 CMS
Min	2.60	2.60	3.20	3.40	2.60	9.80	12.00	2.20	0.80	0.20	1.20	2.20	0.20 CMS
Runoff	8.57	10.84	17.25	16.02	19.13	70.95	92.98	11.25	4.25	3.91	4.36	7.83	267.31 MCM
Momentary Peak	79.95 CMS, at 19.26 m. (MSL), at 18.00 Hours, on Sep 30, 2009												
Runoff Yield	5.74 Liters/Second/Square KM.			Momentary Peak Yield			54.093 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

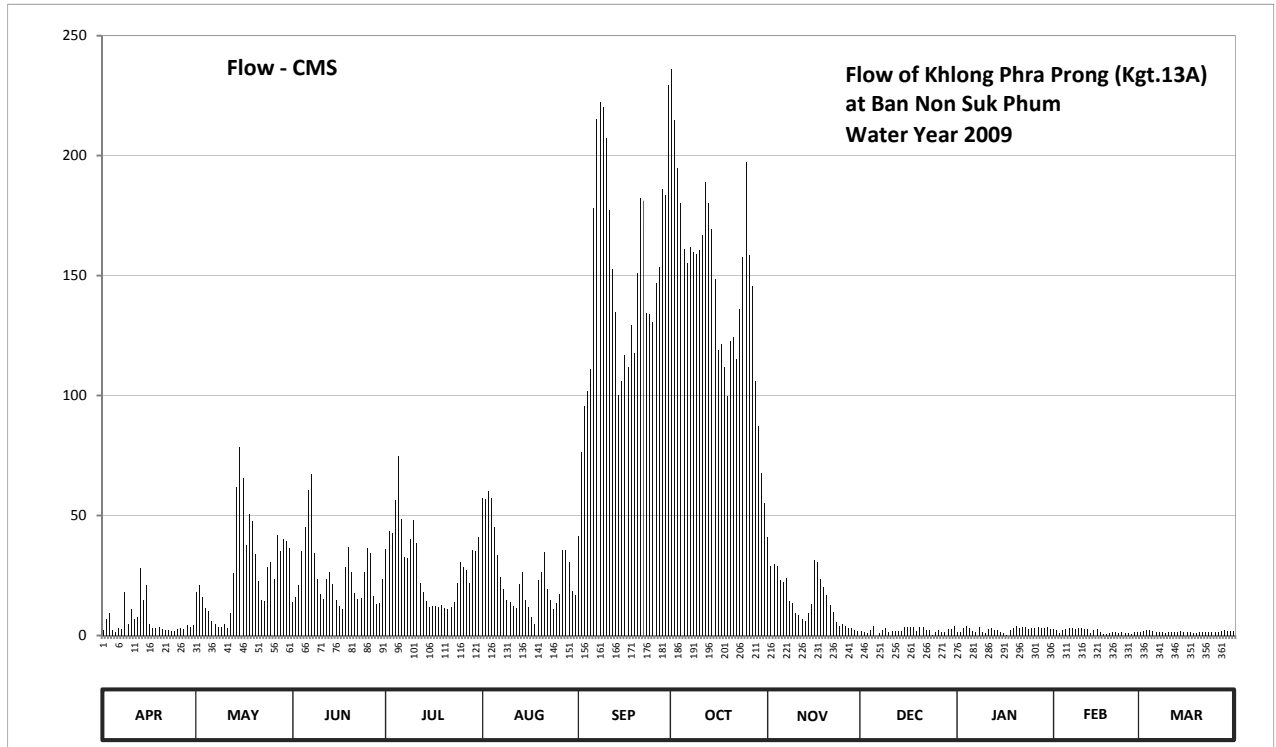
Lat 13 - 54 - 29 N Long 101 - 50 - 32 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

	Ban	Non Suk Phum	Amphoe	Kabin Buri	Changwat	Prachin Buri
Drainage Area	4,906	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+2.860	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the top staff gage.				Elevation	+18.180 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 means of 5 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.43	6.53	6.30	7.42	8.43	7.69	13.65	7.67	5.40	5.34	5.48	5.36	
2	5.82	6.68	6.43	7.80	8.42	9.19	13.12	7.07	5.34	5.34	5.44	5.37	
3	5.98	6.43	6.67	7.77	8.54	9.84	12.62	7.12	5.32	5.49	5.31	5.42	
4	5.44	6.13	7.39	8.40	8.43	10.04	12.26	7.07	5.42	5.58	5.43	5.42	
5	5.34	6.06	7.88	9.13	7.89	10.34	11.77	6.77	5.60	5.49	5.45	5.38	
6	5.49	5.77	8.57	8.06	7.30	12.20	11.60	6.74	5.20	5.39	5.51	5.35	
7	5.47	5.67	8.82	7.26	6.84	13.13	11.79	6.82	5.32	5.33	5.49	5.35	
8	6.53	5.57	7.34	7.23	6.59	13.31	11.74	6.32	5.43	5.53	5.47	5.34	
9	5.69	5.55	6.80	7.64	6.36	13.26	11.71	6.26	5.50	5.34	5.49	5.31	
10	6.10	5.69	6.49	8.03	6.29	12.93	11.76	5.99	5.36	5.32	5.49	5.34	
11	5.83	5.52	6.38	7.56	6.18	12.18	11.92	5.95	5.39	5.45	5.46	5.35	
12	5.88	5.98	6.81	6.72	6.13	11.53	12.47	5.82	5.37	5.49	5.46	5.35	
13	7.03	6.93	6.94	6.53	6.70	11.02	12.26	5.77	5.39	5.42	5.31	5.35	
14	6.35	8.61	6.70	6.32	6.94	9.99	11.99	5.99	5.39	5.41	5.42	5.37	
15	6.67	9.27	6.35	6.16	6.36	10.18	11.41	6.25	5.55	5.33	5.45	5.34	
16	5.68	8.77	6.19	6.18	6.17	10.51	10.57	7.20	5.54	5.32	5.36	5.33	
17	5.51	7.51	6.10	6.18	5.88	10.37	10.64	7.15	5.54	5.24	5.25	5.33	
18	5.52	8.16	7.05	6.17	5.69	10.87	10.37	6.81	5.57	5.44	5.28	5.30	
19	5.57	8.01	7.47	6.20	6.78	10.53	9.98	6.63	5.40	5.51	5.31	5.32	
20	5.46	7.32	6.94	6.14	6.94	11.49	10.67	6.46	5.54	5.59	5.35	5.33	
21	5.41	6.76	6.50	6.11	7.37	12.31	10.72	6.22	5.55	5.50	5.34	5.33	
22	5.42	6.34	6.37	6.16	6.59	12.28	10.46	6.02	5.41	5.55	5.32	5.33	
23	5.39	6.33	6.41	6.29	6.34	11.01	11.06	5.73	5.41	5.55	5.34	5.35	
24	5.40	7.05	6.94	6.71	6.10	11.00	11.67	5.60	5.22	5.45	5.30	5.35	
25	5.47	7.15	7.45	7.15	6.26	10.90	12.68	5.68	5.35	5.50	5.31	5.34	
26	5.49	6.80	7.35	7.06	6.48	11.37	11.70	5.59	5.42	5.52	5.28	5.35	
27	5.48	7.71	6.44	6.99	7.40	11.56	11.33	5.52	5.35	5.55	5.35	5.37	
28	5.62	7.39	6.25	6.72	7.41	12.40	10.19	5.49	5.35	5.52	5.34	5.41	
29	5.55	7.64	6.28	7.41	7.15	12.34	9.56	5.41	5.46	5.49		5.38	
30	5.65	7.59	6.80	7.39	6.55	13.48	8.84	5.37	5.47	5.54		5.38	
31	7.44			7.67	6.46		8.35		5.58	5.47		5.40	
Mean	5.72	6.91	6.88	7.05	6.87	11.31	11.32	6.28	5.42	5.45	5.39	5.35	
Max	7.03	9.27	8.82	9.13	8.54	13.48	13.65	7.67	5.60	5.59	5.51	5.42	13.65
Min	5.34	5.52	6.10	6.11	5.69	7.69	8.35	5.37	5.20	5.24	5.25	5.30	5.20
Annual Max Momentary Gage Height	13.70		m. (MSL.) ,			at 06.00 Hours, on Oct 1, 2009							
Zero Gage at Bottom Elevation	2.86		m. (MSL.) ,			River Bed 4.15	m. (MSL)						
Left Bank Elevation	17.38		m. (MSL.) ,										
Right Bank Elevation	17.87		m. (MSL.) ,			Drainage Area 4906	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.30	18.10	14.00	35.90	57.25	41.30	236.25	40.90	2.00	1.40	2.80	1.60	
2	6.80	21.10	16.10	43.50	57.00	76.25	214.80	28.90	1.40	1.40	2.40	1.70	
3	9.20	16.10	20.90	42.90	60.00	95.70	194.80	29.90	1.20	2.90	1.10	2.20	
4	2.40	11.45	35.30	56.50	57.25	101.70	180.40	28.90	2.20	3.80	2.30	2.20	
5	1.40	10.40	45.10	74.75	45.30	110.90	160.95	22.90	4.00	2.90	2.50	1.80	
6	2.90	6.05	60.75	48.70	33.50	178.00	155.00	22.30	0.00	1.90	3.10	1.50	
7	2.70	4.70	67.00	32.70	24.30	215.20	161.65	23.90	1.20	1.30	2.90	1.50	
8	18.10	3.70	34.30	32.10	19.30	222.40	159.90	14.30	2.30	3.30	2.70	1.40	
9	4.90	3.50	23.50	40.30	14.90	220.40	158.85	13.40	3.00	1.40	2.90	1.10	
10	11.00	4.90	17.30	48.10	13.85	207.20	160.60	9.35	1.60	1.20	2.90	1.40	
11	6.95	3.20	15.20	38.70	12.20	177.20	166.80	8.75	1.90	2.50	2.60	1.50	
12	7.70	9.20	23.70	21.90	11.45	152.55	188.80	6.80	1.70	2.90	2.60	1.50	
13	28.10	26.10	26.30	18.10	21.50	134.70	180.40	6.05	1.90	2.20	1.10	1.50	
14	14.75	61.75	21.50	14.30	26.30	100.20	169.60	9.35	1.90	2.10	2.20	1.70	
15	20.90	78.60	14.75	11.90	14.90	105.90	148.35	13.25	3.50	1.30	2.50	1.40	
16	4.80	65.75	12.35	12.20	12.05	116.85	118.95	31.50	3.40	1.20	1.60	1.30	
17	3.10	37.70	11.00	12.20	7.70	111.95	121.40	30.50	3.40	0.40	0.50	1.30	
18	3.20	50.70	28.50	12.05	4.90	129.45	111.95	23.70	3.70	2.40	0.80	1.00	
19	3.70	47.70	36.90	12.50	23.10	117.55	99.90	20.10	2.00	3.10	1.10	1.20	
20	2.60	33.90	26.30	11.60	26.30	151.15	122.45	16.70	3.40	3.90	1.50	1.30	
21	2.10	22.70	17.50	11.15	34.90	182.40	124.20	12.80	3.50	3.00	1.40	1.30	
22	2.20	14.60	15.05	11.90	19.30	181.20	115.10	9.80	2.10	3.50	1.20	1.30	
23	1.90	14.45	15.70	13.85	14.60	134.35	136.10	5.45	2.10	3.50	1.40	1.50	
24	2.00	28.50	26.30	21.70	11.00	134.00	157.45	4.00	0.20	2.50	1.00	1.50	
25	2.70	30.50	36.50	30.50	13.40	130.50	197.20	4.80	1.50	3.00	1.10	1.40	
26	2.90	23.50	34.50	28.70	17.10	146.95	158.50	3.90	2.20	3.20	0.80	1.50	
27	2.80	41.70	16.30	27.30	35.50	153.60	145.55	3.20	1.50	3.50	1.50	1.70	
28	4.20	35.30	13.25	21.90	35.70	186.00	106.20	2.90	1.50	3.20	1.40	2.10	
29	3.50	40.30	13.70	35.70	30.50	183.60	87.30	2.10	2.60	2.90		1.80	
30	4.50	39.30	23.50	35.30	18.50	229.20	67.50	1.70	2.70	3.40		1.80	
31		36.30		40.90	16.70		55.25		3.80	2.70		2.00	
Total	186.30	841.75	763.05	899.80	790.25	4428.35	4562.15	452.10	69.40	77.90	51.90	48.00	13170.95 CMSDAY
Mean	6.21	27.15	25.43	29.03	25.49	147.61	147.17	15.07	2.24	2.51	1.85	1.55	36.08 CMS
Max	28.10	78.60	67.00	74.75	60.00	229.20	236.25	40.90	4.00	3.90	3.10	2.20	236.25 CMS
Min	1.40	3.20	11.00	11.15	4.90	41.30	55.25	1.70	0.00	0.40	0.50	1.00	0.00 CMS
Runoff	16.10	72.73	65.93	77.74	68.28	382.61	394.17	39.06	6.00	6.73	4.48	4.15	1137.97 MCM
Momentary Peak	238.50 CMS, at 13.70 m. (MSL), at 06.00 Hours, on Oct 1, 2009												
Runoff Yield	7.36 Liters/Second/Square KM.			Momentary Peak Yield			48,614 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Huai Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

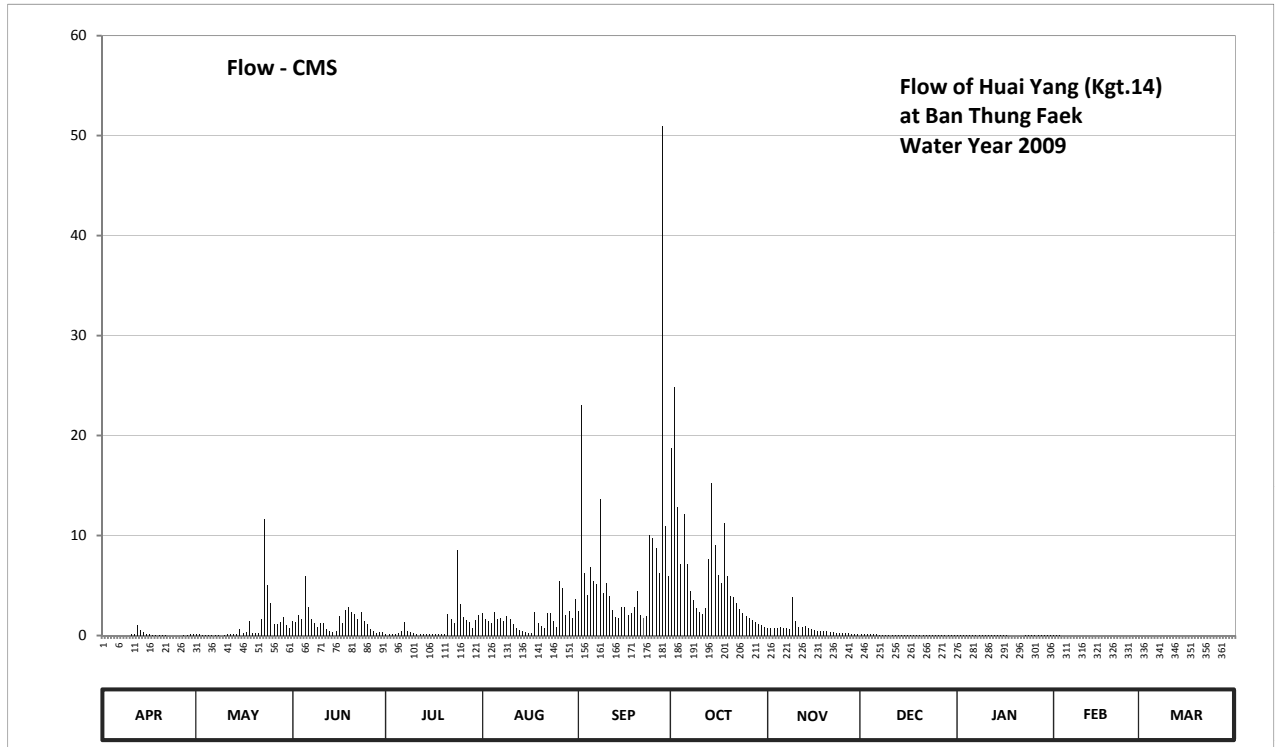
Lat 14 - 09 - 29 N Long 101 - 52 - 50 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

	Ban	Thung Faek	Amphoe	Na Di	Changwat	Prachin Buri
Drainage Area	354	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+34.600 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+42.429 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1966 to date					
Rating Operation						
Period of Rating	1966 - 1981 , 1986 to date					
Rated by Flot	-					
Rated by Current Meter	1966 - 1981 , 1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.00	35.20	35.59	35.24	35.74	35.78	36.87	35.45	35.18	35.09	35.05	34.95	
2	34.99	35.15	35.57	35.22	35.64	37.04	37.11	35.44	35.17	35.09	35.04	34.95	
3	34.99	35.11	35.70	35.20	35.59	36.18	36.59	35.44	35.17	35.08	35.03	34.94	
4	34.99	35.08	35.63	35.17	35.54	36.00	36.24	35.44	35.17	35.08	35.01	34.94	
5	35.00	35.06	36.16	35.25	35.77	36.22	36.56	35.48	35.16	35.07	35.01	34.93	
6	34.99	35.04	35.88	35.38	35.64	36.13	36.24	35.45	35.15	35.07	35.01	34.92	
7	34.99	35.03	35.64	35.57	35.65	36.11	36.05	35.44	35.14	35.07	35.00	34.91	
8	34.98	35.02	35.56	35.40	35.58	36.63	35.95	35.43	35.14	35.07	35.00	34.91	
9	35.00	35.01	35.47	35.33	35.68	36.02	35.85	35.98	35.12	35.07	34.99	34.90	
10	35.24	35.14	35.56	35.27	35.63	36.12	35.77	35.58	35.12	35.13	34.99	34.90	
11	35.20	35.18	35.55	35.23	35.53	35.99	35.73	35.48	35.12	35.12	34.99	34.90	
12	35.51	35.21	35.42	35.18	35.45	35.81	35.84	35.46	35.11	35.11	34.98	34.90	
13	35.41	35.18	35.39	35.21	35.41	35.67	36.28	35.49	35.11	35.10	34.98	34.89	
14	35.35	35.22	35.33	35.23	35.38	35.65	36.71	35.45	35.11	35.09	34.97	34.89	
15	35.23	35.43	35.38	35.23	35.32	35.88	36.37	35.43	35.11	35.06	34.97	34.88	
16	35.17	35.30	35.69	35.23	35.30	35.86	36.17	35.41	35.11	35.06	34.97	34.88	
17	35.12	35.32	35.54	35.22	35.27	35.72	36.12	35.40	35.11	35.04	34.95	34.88	
18	35.08	35.58	35.81	35.21	35.76	35.75	36.51	35.38	35.11	35.01	34.95	34.88	
19	35.06	35.29	35.86	35.22	35.55	35.88	36.16	35.37	35.11	35.01	34.95	34.88	
20	35.03	35.27	35.77	35.23	35.49	36.05	35.99	35.36	35.11	35.01	34.93	34.88	
21	35.02	35.30	35.73	35.73	35.44	35.70	35.98	35.34	35.10	35.00	34.95	34.88	
22	34.99	35.64	35.64	35.62	35.74	35.65	35.93	35.32	35.10	35.01	35.00	34.88	
23	34.98	36.53	35.77	35.54	35.75	35.68	35.82	35.30	35.10	35.06	35.00	34.88	
24	34.97	36.10	35.58	36.34	35.58	36.44	35.75	35.29	35.10	35.12	34.99	34.88	
25	34.97	35.92	35.53	35.91	35.47	36.42	35.68	35.28	35.09	35.09	34.98	34.88	
26	35.01	35.53	35.42	35.66	36.13	36.35	35.65	35.26	35.09	35.08	34.97	34.90	
27	35.05	35.52	35.36	35.61	36.07	36.18	35.61	35.25	35.09	35.07	34.96	34.93	
28	35.14	35.57	35.31	35.57	35.72	37.81	35.57	35.24	35.09	35.07	34.96	34.93	
29	35.22	35.67	35.32	35.45	35.78	36.50	35.53	35.23	35.09	35.07		34.93	
30	35.23	35.51	35.32	35.60	35.65	36.16	35.50	35.21	35.09	35.06		34.92	
31		35.45		35.70	35.96		35.47		35.09	35.05		34.91	
Mean	35.10	35.37	35.58	35.42	35.62	36.11	36.05	35.40	35.12	35.07	34.99	34.90	
Max	35.51	36.53	36.16	36.34	36.13	37.81	37.11	35.98	35.18	35.13	35.05	34.95	37.81
Min	34.97	35.01	35.31	35.17	35.27	35.65	35.47	35.21	35.09	35.00	34.93	34.88	34.88
Annual Max Momentary Gage Height		37.86		m. (MSL.) ,			at 18.00 Hours, on Sep 28, 2009						
Zero Gage at Bottom Elevation		34.60		m. (MSL.) ,		River Bed	32.78		m. (MSL)				
Left Bank Elevation		41.69		m. (MSL.) ,									
Right Bank Elevation		42.05		m. (MSL.) ,		Drainage Area	354		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.15	1.45	0.19	2.20	2.40	18.75	0.75	0.13	0.05	0.03	0.00	
2	0.00	0.10	1.35	0.17	1.70	23.00	24.80	0.70	0.12	0.05	0.02	0.00	
3	0.00	0.06	2.00	0.15	1.45	6.20	12.80	0.70	0.12	0.04	0.01	0.00	
4	0.00	0.04	1.65	0.12	1.20	4.00	7.10	0.70	0.12	0.04	0.00	0.00	
5	0.00	0.03	5.90	0.20	2.35	6.80	12.20	0.90	0.11	0.04	0.00	0.00	
6	0.00	0.02	2.90	0.45	1.70	5.45	7.10	0.75	0.10	0.04	0.00	0.00	
7	0.00	0.01	1.70	1.35	1.75	5.15	4.50	0.70	0.09	0.04	0.00	0.00	
8	0.00	0.01	1.30	0.50	1.40	13.60	3.50	0.65	0.09	0.04	0.00	0.00	
9	0.00	0.00	0.85	0.33	1.90	4.20	2.75	3.80	0.07	0.04	0.00	0.00	
10	0.19	0.09	1.30	0.22	1.65	5.30	2.35	1.40	0.07	0.08	0.00	0.00	
11	0.15	0.13	1.25	0.18	1.15	3.90	2.15	0.90	0.07	0.07	0.00	0.00	
12	1.05	0.16	0.60	0.13	0.75	2.55	2.70	0.80	0.06	0.06	0.00	0.00	
13	0.55	0.13	0.47	0.16	0.55	1.85	7.70	0.95	0.06	0.05	0.00	0.00	
14	0.37	0.17	0.33	0.18	0.45	1.75	15.20	0.75	0.06	0.05	0.00	0.00	
15	0.18	0.65	0.45	0.18	0.30	2.90	9.05	0.65	0.06	0.03	0.00	0.00	
16	0.12	0.25	1.95	0.18	0.25	2.80	6.05	0.55	0.06	0.03	0.00	0.00	
17	0.07	0.30	1.20	0.17	0.22	2.10	5.30	0.50	0.06	0.02	0.00	0.00	
18	0.04	1.40	2.55	0.16	2.30	2.25	11.20	0.45	0.06	0.00	0.00	0.00	
19	0.03	0.24	2.80	0.17	1.25	2.90	5.90	0.42	0.06	0.00	0.00	0.00	
20	0.01	0.22	2.35	0.18	0.95	4.50	3.90	0.40	0.06	0.00	0.00	0.00	
21	0.01	0.25	2.15	2.15	0.70	2.00	3.80	0.35	0.05	0.00	0.00	0.00	
22	0.00	1.70	1.70	1.60	2.20	1.75	3.30	0.30	0.05	0.00	0.00	0.00	
23	0.00	11.60	2.35	1.20	2.25	1.90	2.60	0.25	0.05	0.03	0.00	0.00	
24	0.00	5.00	1.40	8.60	1.40	10.10	2.25	0.24	0.05	0.07	0.00	0.00	
25	0.00	3.20	1.15	3.10	0.85	9.80	1.90	0.23	0.05	0.05	0.00	0.00	
26	0.00	1.15	0.60	1.80	5.45	8.75	1.75	0.21	0.05	0.04	0.00	0.00	
27	0.03	1.10	0.40	1.55	4.70	6.20	1.55	0.20	0.05	0.04	0.00	0.00	
28	0.09	1.35	0.28	1.35	2.10	50.95	1.35	0.19	0.05	0.04	0.00	0.00	
29	0.17	1.85	0.30	0.75	2.40	11.00	1.15	0.18	0.05	0.04	0.00	0.00	
30	0.18	1.05	0.30	1.50	1.75	5.90	1.00	0.16	0.05	0.03	0.00	0.00	
31		0.75		2.00	3.60		0.85		0.05	0.03		0.00	
Total	3.24	33.16	44.98	30.97	52.87	211.95	186.50	19.73	2.18	1.14	0.06	0.00	586.78 CMSDAY
Mean	0.11	1.07	1.50	1.00	1.71	7.07	6.02	0.66	0.07	0.04	0.00	0.00	1.61 CMS
Max	1.05	11.60	5.90	8.60	5.45	50.95	24.80	3.80	0.13	0.08	0.03	0.00	50.95 CMS
Min	0.00	0.00	0.28	0.12	0.22	1.75	0.85	0.16	0.05	0.00	0.00	0.00	0.00 CMS
Runoff	0.28	2.87	3.89	2.68	4.57	18.31	16.11	1.71	0.19	0.10	0.01	0.00	50.70 MCM
Momentary Peak	53.20 CMS, at 37.86 m. (MSL), at 18.00 Hours, on Sep 28, 2009												
Runoff Yield	4.54 Liters/Second/Square KM.			Momentary Peak Yield			150.282 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Huai Samong at Ban Kaeng Din So , Prachin Buri (Kgt.15A)

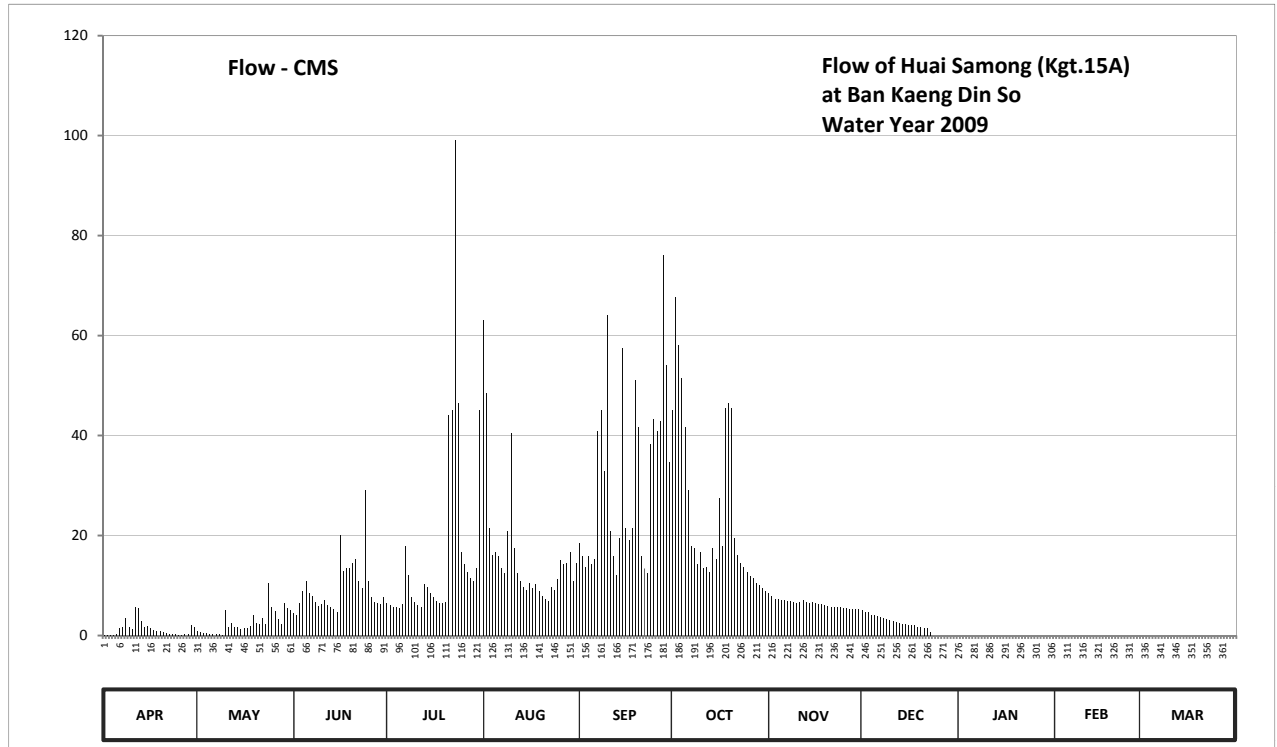
Lat 14 - 03 - 47 N Long 101 - 55 - 39 E

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
Drainage Area	548	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+12.800 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	In front of the station office and near the rain gage.				Elevation	+22.396 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1968 to date					
Rating Operation						
Period of Rating	1968 to date					
Rated by Flot	-					
Rated by Current Meter	1968 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow effected by the local weir. Stage-discharge relation defined by 20 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.03	15.14	15.43	15.56	16.58	15.93	16.22	15.65	15.47	14.88	15.05	14.78	
2	15.02	15.11	15.40	15.54	16.29	15.87	16.66	15.63	15.45	14.87	15.05	14.78	
3	15.01	15.09	15.57	15.52	15.99	15.82	16.48	15.61	15.44	14.89	15.04	14.77	
4	15.01	15.08	15.66	15.51	15.88	15.87	16.35	15.61	15.41	15.04	15.02	14.75	
5	15.04	15.07	15.73	15.50	15.89	15.83	16.14	15.60	15.40	15.09	15.01	14.74	
6	15.19	15.05	15.65	15.55	15.87	15.86	16.04	15.60	15.39	15.10	15.01	14.73	
7	15.22	15.04	15.63	15.92	15.81	16.12	15.92	15.59	15.38	15.10	15.00	14.72	
8	15.37	15.04	15.58	15.77	15.78	16.22	15.91	15.59	15.37	15.10	15.00	14.70	
9	15.23	15.03	15.53	15.62	15.98	16.06	15.83	15.58	15.36	15.11	14.99	14.69	
10	15.17	15.47	15.55	15.58	16.11	16.60	15.89	15.57	15.34	15.12	14.98	14.68	
11	15.51	15.21	15.60	15.54	15.91	15.98	15.81	15.58	15.33	15.10	14.97	14.67	
12	15.50	15.30	15.54	15.52	15.78	15.87	15.82	15.60	15.31	15.09	14.95	14.67	
13	15.33	15.22	15.52	15.71	15.73	15.77	15.79	15.58	15.30	15.07	14.95	14.68	
14	15.22	15.23	15.49	15.69	15.69	15.95	15.91	15.57	15.28	15.06	14.94	14.70	
15	15.24	15.17	15.45	15.65	15.67	16.47	15.86	15.58	15.27	15.05	14.91	14.70	
16	15.20	15.19	15.96	15.62	15.72	15.99	16.03	15.57	15.26	15.04	14.89	14.71	
17	15.16	15.20	15.80	15.59	15.68	15.94	15.92	15.55	15.26	15.04	14.86	14.71	
18	15.14	15.24	15.81	15.57	15.71	15.99	16.23	15.55	15.25	15.03	14.83	14.71	
19	15.13	15.40	15.81	15.56	15.66	16.34	16.25	15.54	15.23	15.05	14.81	14.71	
20	15.11	15.30	15.84	15.58	15.63	16.14	16.23	15.53	15.21	15.05	14.80	14.72	
21	15.09	15.27	15.86	16.20	15.61	15.87	15.95	15.52	15.20	15.07	14.80	14.72	
22	15.07	15.37	15.73	16.22	15.59	15.81	15.88	15.52	15.19	15.10	14.82	14.73	
23	15.06	15.28	15.68	17.14	15.69	15.78	15.84	15.51	15.12	15.13	14.82	14.73	
24	15.05	15.72	16.04	16.25	15.67	16.09	15.82	15.51	14.98	15.11	14.82	14.73	
25	15.03	15.52	15.73	15.89	15.74	16.18	15.79	15.50	14.95	15.11	14.82	14.73	
26	15.03	15.46	15.62	15.83	15.85	16.12	15.76	15.50	14.92	15.10	14.81	14.74	
27	15.05	15.36	15.58	15.79	15.83	16.17	15.75	15.49	14.91	15.09	14.80	14.76	
28	15.05	15.28	15.57	15.75	15.84	16.80	15.72	15.49	14.91	15.08	14.79	14.77	
29	15.26	15.57	15.55	15.73	15.89	16.40	15.70	15.49	14.91	15.07		14.79	
30	15.22	15.50	15.62	15.81	15.73	16.07	15.68	15.48	14.90	15.06		14.81	
31	15.47			16.22	15.84		15.66		14.89	15.06		14.83	
Mean	15.16	15.27	15.65	15.77	15.83	16.06	15.96	15.56	15.21	15.06	14.91	14.73	
Max	15.51	15.72	16.04	17.14	16.58	16.80	16.66	15.65	15.47	15.13	15.05	14.83	17.14
Min	15.01	15.03	15.40	15.50	15.59	15.77	15.66	15.48	14.89	14.87	14.79	14.67	14.67
Annual Max Momentary Gage Height	17.24		m. (MSL.) ,			at 12.00 Hours, on Jul 23, 2009							
Zero Gage at Bottom Elevation	12.80		m. (MSL.) ,			River Bed	12.27	m. (MSL)					
Left Bank Elevation	24.36		m. (MSL.) ,										
Right Bank Elevation	22.28		m. (MSL.) ,			Drainage Area	548	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.90	4.45	6.40	63.00	18.50	45.00	8.50	5.05	0.00	0.00	0.00	
2	0.10	0.60	4.00	6.10	48.50	15.80	67.60	7.90	4.75	0.00	0.00	0.00	
3	0.05	0.45	6.55	5.80	21.50	13.80	58.00	7.30	4.60	0.00	0.00	0.00	
4	0.05	0.40	8.80	5.65	16.20	15.80	51.50	7.30	4.15	0.00	0.00	0.00	
5	0.20	0.35	10.90	5.50	16.60	14.20	41.60	7.00	4.00	0.00	0.00	0.00	
6	1.40	0.25	8.50	6.25	15.80	15.40	29.20	7.00	3.85	0.00	0.00	0.00	
7	1.70	0.20	7.90	18.00	13.40	40.80	18.00	6.85	3.70	0.00	0.00	0.00	
8	3.55	0.20	6.70	12.10	12.40	45.00	17.50	6.85	3.55	0.00	0.00	0.00	
9	1.80	0.15	5.95	7.60	21.00	32.80	14.20	6.70	3.40	0.00	0.00	0.00	
10	1.20	5.05	6.25	6.70	40.40	64.00	16.60	6.55	3.10	0.00	0.00	0.00	
11	5.65	1.60	7.00	6.10	17.50	21.00	13.40	6.70	2.95	0.00	0.00	0.00	
12	5.50	2.50	6.10	5.80	12.40	15.80	13.80	7.00	2.65	0.00	0.00	0.00	
13	2.95	1.70	5.80	10.30	10.90	12.10	12.70	6.70	2.50	0.00	0.00	0.00	
14	1.70	1.80	5.35	9.70	9.70	19.50	17.50	6.55	2.30	0.00	0.00	0.00	
15	1.90	1.20	4.75	8.50	9.10	57.50	15.40	6.70	2.20	0.00	0.00	0.00	
16	1.50	1.40	20.00	7.60	10.60	21.50	27.40	6.55	2.10	0.00	0.00	0.00	
17	1.10	1.50	13.00	6.85	9.40	19.00	18.00	6.25	2.10	0.00	0.00	0.00	
18	0.90	1.90	13.40	6.55	10.30	21.50	45.50	6.25	2.00	0.00	0.00	0.00	
19	0.80	4.00	13.40	6.40	8.80	51.00	46.50	6.10	1.80	0.00	0.00	0.00	
20	0.60	2.50	14.60	6.70	7.90	41.60	45.50	5.95	1.60	0.00	0.00	0.00	
21	0.45	2.20	15.40	44.00	7.30	15.80	19.50	5.80	1.50	0.00	0.00	0.00	
22	0.35	3.55	10.90	45.00	6.85	13.40	16.20	5.80	1.40	0.00	0.00	0.00	
23	0.30	2.30	9.40	99.20	9.70	12.40	14.60	5.65	0.70	0.00	0.00	0.00	
24	0.25	10.60	29.20	46.50	9.10	38.20	13.80	5.65	0.00	0.00	0.00	0.00	
25	0.15	5.80	10.90	16.60	11.20	43.20	12.70	5.50	0.00	0.00	0.00	0.00	
26	0.15	4.90	7.60	14.20	15.00	40.80	11.80	5.50	0.00	0.00	0.00	0.00	
27	0.25	3.40	6.70	12.70	14.20	42.80	11.50	5.35	0.00	0.00	0.00	0.00	
28	0.25	2.30	6.55	11.50	14.60	76.00	10.60	5.35	0.00	0.00	0.00	0.00	
29	2.10	6.55	6.25	10.90	16.60	54.00	10.00	5.35	0.00	0.00	0.00	0.00	
30	1.70	5.50	7.60	13.40	10.90	34.60	9.40	5.20	0.00	0.00	0.00	0.00	
31		5.05		45.00	14.60		8.80		0.00	0.00		0.00	
Total	38.75	80.80	283.90	513.60	505.45	927.80	753.80	191.85	65.95	0.00	0.00	0.00	3361.90 CMSDAY
Mean	1.29	2.61	9.46	16.57	16.30	30.93	24.32	6.39	2.13	0.00	0.00	0.00	9.21 CMS
Max	5.65	10.60	29.20	99.20	63.00	76.00	67.60	8.50	5.05	0.00	0.00	0.00	99.20 CMS
Min	0.05	0.15	4.00	5.50	6.85	12.10	8.80	5.20	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.35	6.98	24.53	44.38	43.67	80.16	65.13	16.58	5.70	0.00	0.00	0.00	290.47 MCM
Momentary Peak	107.69 CMS, at 17.24 m. (MSL), at 12.00 Hours, on Jul 23, 2009												
Runoff Yield	16.81 Liters/Second/Square KM.			Momentary Peak Yield			196.515 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khwaeng Nam Sai at Ban Saphan Hin , Prachin Buri (Kgt.33)

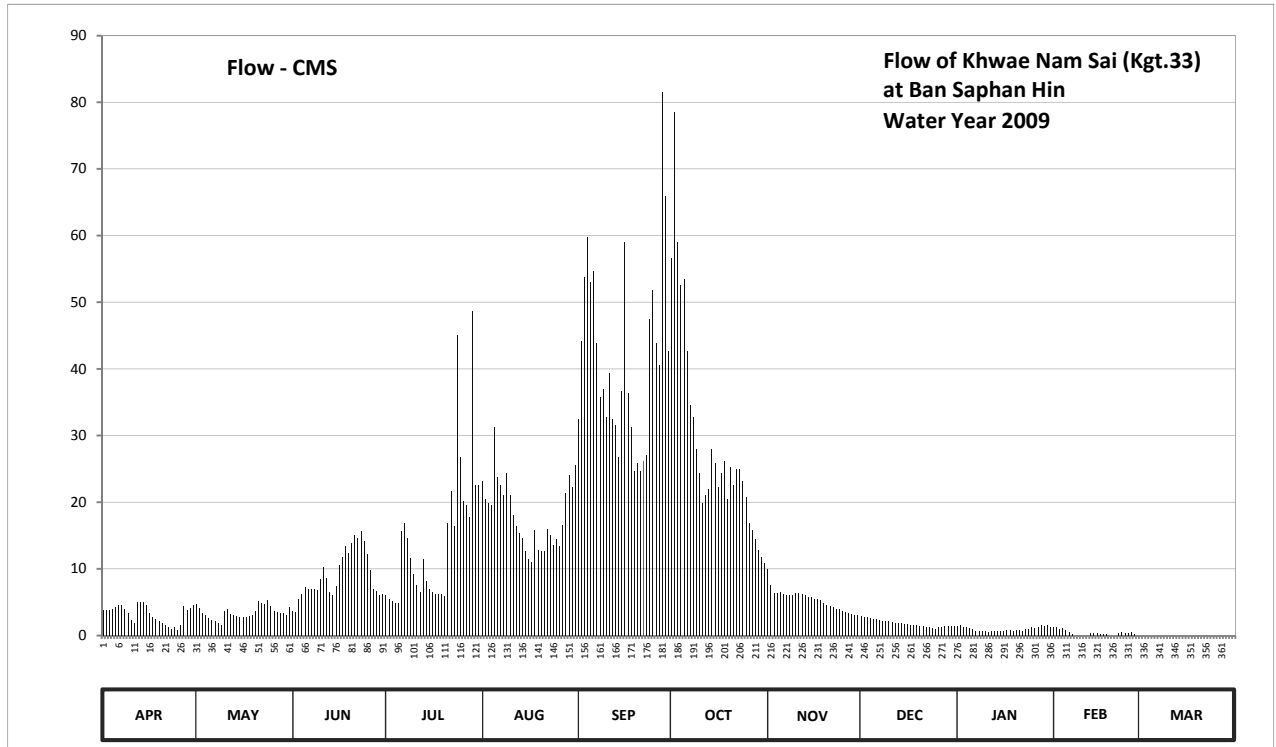
Lat 14 - 07 - 55 N Long 101 - 43 - 52 E

Location : on left bank at Ban Saphan Hin.

	Ban	Saphan Hin	Amphoe	Na Di	Changwat	Prachin Buri
Drainage Area	617	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+10.598 m. (A.D.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2009.					

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.58	1.67	1.56	1.80	2.64	2.95	3.59	2.05	1.49	1.34	1.33	1.16	
2	1.58	1.61	1.55	1.75	2.55	3.28	4.05	1.93	1.48	1.35	1.32	1.14	
3	1.58	1.53	1.74	1.71	2.53	3.52	3.65	1.83	1.47	1.32	1.30	1.09	
4	1.60	1.50	1.82	1.68	2.52	3.67	3.49	1.84	1.46	1.32	1.31	1.04	
5	1.63	1.46	1.91	1.68	2.91	3.50	3.51	1.85	1.45	1.31	1.28	1.02	
6	1.65	1.43	1.90	2.33	2.66	3.54	3.24	1.82	1.44	1.29	1.25	1.00	
7	1.65	1.41	1.90	2.39	2.62	3.27	3.02	1.80	1.43	1.26	1.22	0.96	
8	1.60	1.38	1.90	2.28	2.57	3.06	2.96	1.81	1.42	1.26	1.20	0.95	
9	1.53	1.36	1.88	2.13	2.68	3.10	2.80	1.81	1.41	1.27	1.19	0.96	
10	1.43	1.57	1.97	2.01	2.57	2.96	2.68	1.84	1.41	1.26	1.18	0.93	
11	1.39	1.60	2.06	1.93	2.45	3.16	2.53	1.83	1.40	1.25	1.17	0.91	
12	1.70	1.52	1.98	1.85	2.37	2.95	2.57	1.82	1.39	1.26	1.16	0.85	
13	1.70	1.50	1.85	2.12	2.32	2.92	2.60	1.80	1.38	1.27	1.23	0.82	
14	1.70	1.49	1.80	1.96	2.28	2.76	2.80	1.78	1.38	1.26	1.24	0.79	
15	1.65	1.48	1.92	1.90	2.18	3.09	2.73	1.77	1.37	1.26	1.23	0.77	
16	1.54	1.48	2.08	1.85	2.12	3.65	2.61	1.75	1.37	1.26	1.22	0.74	
17	1.47	1.47	2.14	1.82	2.10	3.08	2.68	1.74	1.36	1.28	1.22	0.71	
18	1.45	1.49	2.22	1.82	2.34	2.91	2.74	1.73	1.36	1.28	1.22	0.69	
19	1.41	1.51	2.17	1.82	2.19	2.69	2.55	1.68	1.35	1.27	1.20	0.69	
20	1.38	1.57	2.24	1.79	2.18	2.73	2.71	1.65	1.34	1.28	1.18	0.68	
21	1.36	1.71	2.30	2.39	2.18	2.69	2.62	1.64	1.34	1.28	1.18	0.68	
22	1.32	1.68	2.28	2.59	2.35	2.74	2.70	1.63	1.33	1.27	1.24	0.68	
23	1.30	1.67	2.33	2.37	2.30	2.77	2.70	1.60	1.32	1.29	1.25	0.68	
24	1.32	1.73	2.26	3.30	2.23	3.36	2.64	1.59	1.31	1.30	1.24	0.69	
25	1.28	1.64	2.16	2.76	2.27	3.47	2.56	1.57	1.30	1.32	1.24	0.69	
26	1.35	1.57	2.04	2.54	2.22	3.27	2.39	1.55	1.32	1.31	1.25	0.69	
27	1.64	1.55	1.90	2.52	2.38	3.19	2.34	1.53	1.33	1.33	1.22	0.70	
28	1.58	1.54	1.86	2.44	2.58	4.11	2.27	1.52	1.34	1.35	1.18	0.71	
29	1.61	1.53	1.80	3.39	2.67	3.80	2.19	1.51	1.34	1.34		0.73	
30	1.65	1.51	1.82	2.62	2.61	3.24	2.14	1.50	1.34	1.35		0.76	
31		1.62		2.62	2.72		2.09		1.34	1.33		0.76	
Mean	1.52	1.54	1.98	2.20	2.43	3.18	2.78	1.73	1.38	1.29	1.23	0.83	
Max	1.70	1.73	2.33	3.39	2.91	4.11	4.05	2.05	1.49	1.35	1.33	1.16	4.11
Min	1.28	1.36	1.55	1.68	2.10	2.69	2.09	1.50	1.30	1.25	1.16	0.68	0.68
Annual Max Momentary Gage Height	4.30		m. (A.D),				at 18.00 Hours, on Sep 4, 2009						
Zero Gage at Bottom Elevation	0.00		m. (A.D),			River Bed	-0.26	m. (A.D)					
Left Bank Elevation	10.56		m. (A.D),										
Right Bank Elevation	10.69		m. (A.D),			Drainage Area	617	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.80	4.70	3.60	6.00	23.20	32.50	56.60	10.00	2.90	1.40	1.30	0.00	
2	3.80	4.10	3.50	5.50	20.50	44.20	78.50	7.60	2.80	1.50	1.20	0.00	
3	3.80	3.30	5.40	5.10	19.90	53.80	59.00	6.30	2.70	1.20	1.00	0.00	
4	4.00	3.00	6.20	4.80	19.60	59.80	52.60	6.40	2.60	1.20	1.10	0.00	
5	4.30	2.60	7.20	4.80	31.30	53.00	53.40	6.50	2.50	1.10	0.80	0.00	
6	4.50	2.30	7.00	15.60	23.80	54.60	42.60	6.20	2.40	0.90	0.50	0.00	
7	4.50	2.10	7.00	16.80	22.60	43.80	34.60	6.00	2.30	0.60	0.20	0.00	
8	4.00	1.80	7.00	14.60	21.10	35.80	32.80	6.10	2.20	0.60	0.00	0.00	
9	3.30	1.60	6.80	11.60	24.40	37.00	28.00	6.10	2.10	0.70	0.00	0.00	
10	2.30	3.70	8.40	9.20	21.10	32.80	24.40	6.40	2.10	0.60	0.00	0.00	
11	1.90	4.00	10.20	7.60	18.00	39.40	19.90	6.30	2.00	0.50	0.00	0.00	
12	5.00	3.20	8.60	6.50	16.40	32.50	21.10	6.20	1.90	0.60	0.00	0.00	
13	5.00	3.00	6.50	11.40	15.40	31.60	22.00	6.00	1.80	0.70	0.30	0.00	
14	5.00	2.90	6.00	8.20	14.60	26.80	28.00	5.80	1.80	0.60	0.40	0.00	
15	4.50	2.80	7.40	7.00	12.60	36.70	25.90	5.70	1.70	0.60	0.30	0.00	
16	3.40	2.80	10.60	6.50	11.40	59.00	22.30	5.50	1.70	0.60	0.20	0.00	
17	2.70	2.70	11.80	6.20	11.00	36.40	24.40	5.40	1.60	0.80	0.20	0.00	
18	2.50	2.90	13.40	6.20	15.80	31.30	26.20	5.30	1.60	0.80	0.20	0.00	
19	2.10	3.10	12.40	6.20	12.80	24.70	20.50	4.80	1.50	0.70	0.00	0.00	
20	1.80	3.70	13.80	5.90	12.60	25.90	25.30	4.50	1.40	0.80	0.00	0.00	
21	1.60	5.10	15.00	16.80	12.60	24.70	22.60	4.40	1.40	0.80	0.00	0.00	
22	1.20	4.80	14.60	21.70	16.00	26.20	25.00	4.30	1.30	0.70	0.40	0.00	
23	1.00	4.70	15.60	16.40	15.00	27.10	25.00	4.00	1.20	0.90	0.50	0.00	
24	1.20	5.30	14.20	45.00	13.60	47.40	23.20	3.90	1.10	1.00	0.40	0.00	
25	0.80	4.40	12.20	26.80	14.40	51.80	20.80	3.70	1.00	1.20	0.40	0.00	
26	1.50	3.70	9.80	20.20	13.40	43.80	16.80	3.50	1.20	1.10	0.50	0.00	
27	4.40	3.50	7.00	19.60	16.60	40.60	15.80	3.30	1.30	1.30	0.20	0.00	
28	3.80	3.40	6.60	17.80	21.40	81.50	14.40	3.20	1.40	1.50	0.00	0.00	
29	4.10	3.30	6.00	48.60	24.10	66.00	12.80	3.10	1.40	1.40	0.00	0.00	
30	4.50	3.10	6.20	22.60	22.30	42.60	11.80	3.00	1.40	1.50	0.00	0.00	
31		4.20		22.60	25.60		10.80		1.40	1.30		0.00	
Total	96.30	105.80	270.00	443.80	563.10	1243.30	897.10	159.50	55.70	29.20	10.10	0.00	3873.90 CMSDAY
Mean	3.21	3.41	9.00	14.32	18.16	41.44	28.94	5.32	1.80	0.94	0.36	0.00	10.61 CMS
Max	5.00	5.30	15.60	48.60	31.30	81.50	78.50	10.00	2.90	1.50	1.30	0.00	81.50 CMS
Min	0.80	1.60	3.50	4.80	11.00	24.70	10.80	3.00	1.00	0.50	0.00	0.00	0.00 CMS
Runoff	8.32	9.14	23.33	38.34	48.65	107.42	77.51	13.78	4.81	2.52	0.87	0.00	334.71 MCM
Momentary Peak	92.00 CMS, at 4.30 m. (A.D), at 18.00 Hours, on Sep 4, 2009												
Runoff Yield	17.20 Liters/Second/Square KM.			Momentary Peak Yield			149.109 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khwae Hanuman at Ban Cha Om , Prachin Buri (Kgt.34)

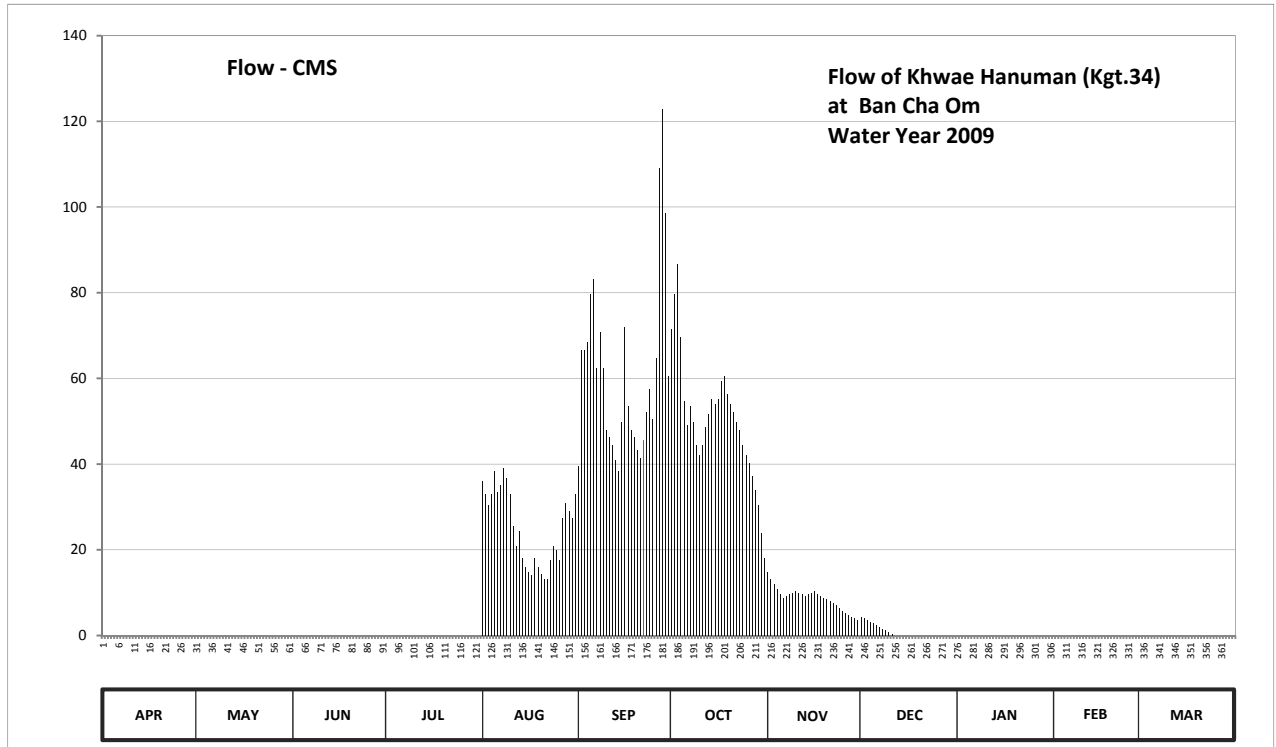
Lat 13 - 28 - 29 N Long 101 - 44 - 55 E

Location : on left bank at the bridge.

	Ban Cha Om	Amphoe Na Di	Changwat Prachin Buri
Drainage Area	1,210 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+3.560 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	Elevation	+9.822 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 means of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.96	2.05	1.97	2.05	6.20	6.26	6.79	5.77	5.51	5.30	5.28	5.15	
2	1.99	1.98	2.03	2.02	6.14	6.71	6.91	5.73	5.50	5.29	5.27	5.12	
3	2.00	1.93	2.12	1.99	6.09	6.71	7.01	5.70	5.49	5.28	5.26	5.11	
4	2.02	1.86	2.18	1.96	6.14	6.74	6.76	5.67	5.48	5.27	5.26	5.10	
5	2.03	1.83	2.19	1.97	6.24	6.91	6.51	5.64	5.47	5.26	5.25	5.10	
6	2.05	1.80	2.16	2.15	6.15	6.96	6.42	5.62	5.46	5.25	5.24	5.05	
7	2.03	1.77	2.13	2.25	6.18	6.64	6.49	5.63	5.45	5.24	5.23	5.04	
8	2.00	1.74	2.12	2.21	6.25	6.78	6.43	5.64	5.44	5.23	5.21	5.02	
9	1.97	1.74	2.17	2.18	6.21	6.64	6.34	5.65	5.43	5.22	5.20	5.00	
10	1.90	1.85	2.18	2.16	6.14	6.40	6.30	5.66	5.42	5.21	5.19	4.98	
11	1.80	1.98	2.12	2.13	5.99	6.37	6.34	5.65	5.41	5.20	5.18	4.97	
12	1.82	2.06	2.05	2.12	5.90	6.34	6.41	5.64	5.40	5.20	5.16	4.94	
13	1.84	2.06	2.02	2.25	5.97	6.28	6.46	5.63	5.39	5.21	5.16	4.88	
14	1.86	2.04	2.12	2.17	5.84	6.24	6.52	5.64	5.38	5.20	5.17	4.80	
15	1.89	2.02	2.26	2.12	5.80	6.43	6.50	5.65	5.37	5.19	5.18	4.80	
16	1.93	1.99	2.29	2.10	5.77	6.80	6.52	5.66	5.35	5.18	5.18	4.60	
17	1.96	1.97	2.29	2.08	5.75	6.49	6.59	5.64	5.34	5.18	5.19	4.50	
18	1.97	1.95	2.26	2.05	5.84	6.40	6.61	5.63	5.32	5.17	5.18	4.41	
19	1.95	1.92	2.24	2.03	5.80	6.37	6.54	5.62	5.31	5.17	5.18	4.39	
20	1.91	1.88	2.27	2.15	5.76	6.32	6.50	5.61	5.30	5.18	5.17	4.37	
21	1.87	1.83	2.31	2.42	5.73	6.29	6.47	5.60	5.29	5.18	5.16	4.27	
22	1.83	1.81	2.34	2.57	5.73	6.36	6.43	5.59	5.28	5.19	5.16	4.02	
23	1.78	1.84	2.34	2.48	5.83	6.47	6.40	5.58	5.27	5.20	5.15	4.02	
24	1.68	1.86	2.28	3.01	5.90	6.56	6.34	5.56	5.26	5.22	5.16	4.01	
25	1.70	1.87	2.23	2.65	5.88	6.44	6.30	5.54	5.27	5.24	5.17	4.01	
26	1.78	1.89	2.17	2.57	5.83	6.68	6.27	5.53	5.28	5.25	5.16	4.07	
27	1.82	1.90	2.14	2.49	6.03	7.33	6.22	5.52	5.29	5.24	5.16	4.12	
28	1.92	1.91	2.11	2.35	6.10	7.51	6.16	5.51	5.30	5.25	5.16	4.17	
29	2.00	1.93	2.08	2.57	6.06	7.18	6.09	5.50	5.31	5.26		4.24	
30	2.06	1.95	2.05	2.61	6.03	6.61	5.96	5.49	5.30	5.27		4.26	
31		1.96		2.63	6.14		5.84		5.29	5.28		4.29	
Mean	1.91	1.91	2.17	2.27	5.98	6.61	6.43	5.62	5.37	5.23	5.19	4.61	
Max	2.06	2.06	2.34	3.01	6.25	7.51	7.01	5.77	5.51	5.30	5.28	5.15	7.51
Min	1.68	1.74	1.97	1.96	5.73	6.24	5.84	5.49	5.26	5.17	5.15	4.01	1.68
Annual Max Momentary Gage Height		7.56		m. (MSL.) ,			at 06.00 Hours, on Sep 28, 2009						
Zero Gage at Bottom Elevation		3.56		m. (MSL.) ,		River Bed	1.25	m. (MSL)					
Left Bank Elevation		12.43		m. (MSL.) ,									
Right Bank Elevation		12.43		m. (MSL.) ,		Drainage Area	1210	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	36.00	39.60	71.40	14.80	4.40	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	33.00	66.60	79.70	13.20	4.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	30.50	66.60	86.70	12.00	3.60	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	33.00	68.40	69.60	10.80	3.20	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	38.40	79.70	54.60	9.60	2.80	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	33.50	83.20	49.20	8.80	2.40	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	35.00	62.40	53.40	9.20	2.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	39.00	70.80	49.80	9.60	1.60	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	36.60	62.40	44.40	10.00	1.20	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	33.00	48.00	42.00	10.40	0.80	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	25.50	46.20	44.40	10.00	0.40	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	21.00	44.40	48.60	9.60	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	24.50	40.80	51.60	9.20	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	18.00	38.40	55.20	9.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	16.00	49.80	54.00	10.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	14.80	72.00	55.20	10.40	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	14.00	53.40	59.40	9.60	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	18.00	48.00	60.60	9.20	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	16.00	46.20	56.40	8.80	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	14.40	43.20	54.00	8.40	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	13.20	41.40	52.20	8.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	13.20	45.60	49.80	7.60	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	17.50	52.20	48.00	7.20	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	21.00	57.60	44.40	6.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	20.00	50.40	42.00	5.60	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	17.50	64.80	40.20	5.20	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	27.50	109.10	37.20	4.80	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	31.00	122.80	34.00	4.40	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	29.00	98.60	30.50	4.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	27.50	60.60	24.00	3.60	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	33.00	18.00	18.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	780.60	1833.20	1560.50	260.00	26.40	0.00	0.00	0.00	4460.70 CMSDAY
Mean	0.00	0.00	0.00	0.00	25.18	61.11	50.34	8.67	0.85	0.00	0.00	0.00	12.22 CMS
Max	0.00	0.00	0.00	0.00	39.00	122.80	86.70	14.80	4.40	0.00	0.00	0.00	122.80 CMS
Min	0.00	0.00	0.00	0.00	13.20	38.40	18.00	3.60	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	67.44	158.39	134.83	22.46	2.28	0.00	0.00	0.00	385.41 MCM
Momentary Peak	126.80 CMS, at 7.56 m. (MSL), at 06.00 Hours, on Sep 28, 2009												
Runoff Yield	10.10 Liters/Second/Square KM.			Momentary Peak Yield			104.793 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Upper Khlong Phra Sathung at Ban Thung Kabin , Sa Kao (Kgt.40)

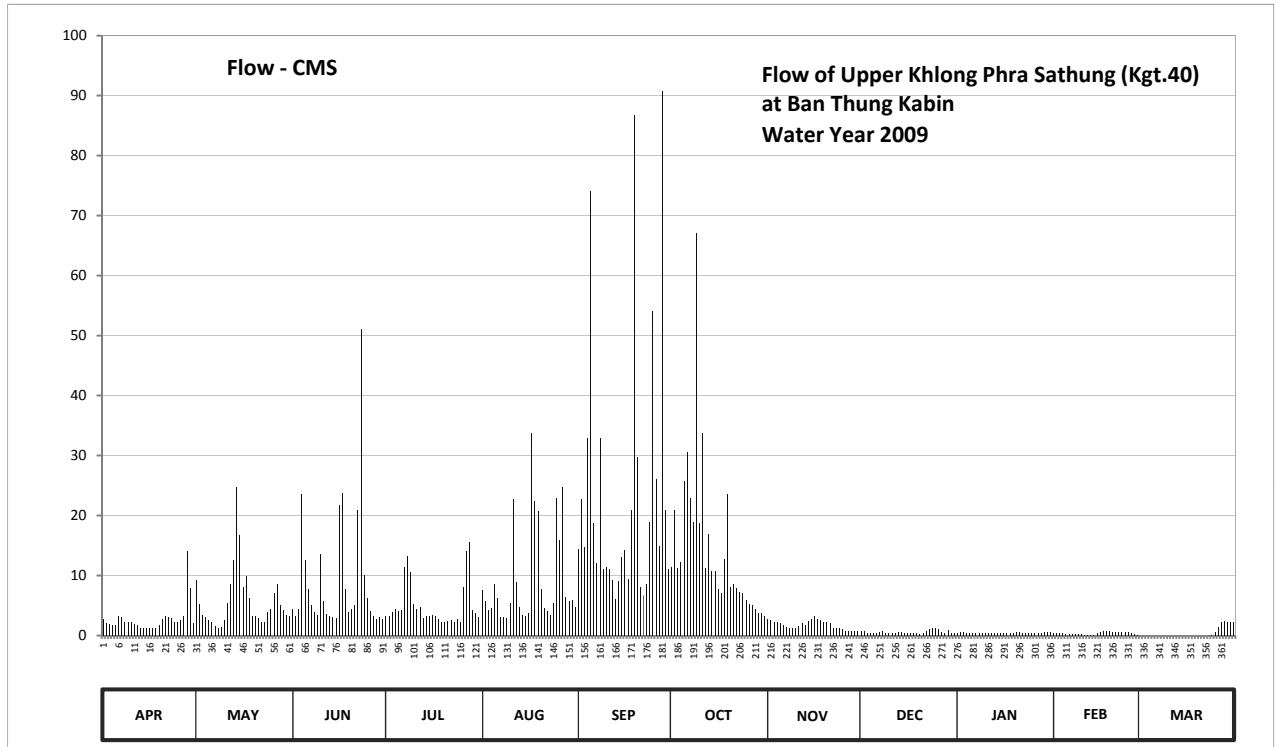
Lat 13 - 25 - 45 N Long 102 - 05 - 00 E

Location : on left bank at the bridge on highway.

	Ban Thung Kabin	Amphoe Wang Sombun	Changwat Sa Kao
Drainage Area	574 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+77.169 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	Elevation	+85.592 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 means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	77.72	78.25	77.89	77.77	78.14	78.59	78.40	77.72	77.52	77.49	77.49	77.36	
2	77.66	77.97	77.77	77.77	78.02	79.04	78.95	77.70	77.52	77.50	77.48	77.31	
3	77.64	77.80	77.89	77.84	77.87	78.62	78.38	77.67	77.47	77.50	77.47	77.28	
4	77.62	77.76	79.08	77.89	77.90	79.54	78.45	77.67	77.47	77.49	77.47	77.25	
5	77.63	77.70	78.47	77.85	78.20	80.96	79.19	77.66	77.47	77.49	77.46	77.22	
6	77.77	77.67	78.15	77.87	78.05	78.84	79.43	77.62	77.47	77.48	77.46	77.22	
7	77.76	77.61	77.95	78.40	77.76	78.44	79.05	77.60	77.51	77.48	77.45	77.22	
8	77.67	77.57	77.84	78.52	77.76	79.54	78.85	77.57	77.52	77.48	77.45	77.23	
9	77.67	77.60	77.80	78.34	77.74	78.37	80.76	77.57	77.49	77.48	77.44	77.23	
10	77.67	77.70	78.54	77.98	77.99	78.40	78.84	77.57	77.47	77.47	77.44	77.24	
11	77.64	77.99	78.02	77.89	79.04	78.37	79.59	77.61	77.47	77.47	77.43	77.24	
12	77.62	78.20	77.81	77.92	78.23	78.25	78.38	77.66	77.47	77.49	77.41	77.24	
13	77.57	78.47	77.77	77.74	77.92	78.04	78.75	77.62	77.50	77.49	77.41	77.24	
14	77.57	79.14	77.75	77.77	77.79	78.24	78.35	77.69	77.51	77.48	77.43	77.25	
15	77.57	78.74	77.74	77.77	77.77	78.50	78.35	77.73	77.48	77.47	77.47	77.26	
16	77.57	78.17	78.99	77.80	77.82	78.58	78.15	77.77	77.47	77.47	77.50	77.27	
17	77.57	78.29	79.09	77.78	79.59	78.26	78.10	77.73	77.47	77.47	77.52	77.27	
18	77.57	78.05	78.15	77.72	79.02	78.95	78.48	77.70	77.47	77.47	77.52	77.27	
19	77.63	77.77	77.84	77.68	78.94	81.32	79.08	77.67	77.47	77.47	77.52	77.29	
20	77.72	77.77	77.89	77.67	78.15	79.39	78.17	77.67	77.44	77.51	77.51	77.32	
21	77.77	77.74	77.96	77.69	77.91	78.17	78.20	77.65	77.47	77.50	77.50	77.37	
22	77.76	77.67	78.95	77.71	77.85	78.08	78.16	77.57	77.52	77.49	77.50	77.37	
23	77.74	77.67	80.25	77.67	77.80	78.20	78.12	77.57	77.56	77.49	77.51	77.38	
24	77.67	77.84	78.30	77.72	77.99	78.85	78.11	77.57	77.57	77.49	77.51	77.42	
25	77.67	77.89	78.05	77.67	79.05	80.35	78.03	77.55	77.57	77.49	77.51	77.50	
26	77.70	78.10	77.85	78.17	78.69	79.20	77.97	77.52	77.56	77.48	77.47	77.60	
27	77.77	78.20	77.77	78.57	79.14	78.63	77.96	77.52	77.51	77.48	77.45	77.67	
28	78.57	77.95	77.73	78.67	78.06	81.42	77.89	77.52	77.47	77.49	77.41	77.69	
29	78.16	77.87	77.75	77.87	78.02	78.95	77.82	77.52	77.54	77.51		77.67	
30	77.65	77.80	77.73	77.82	78.03	78.37	77.82	77.52	77.47	77.51		77.67	
31	77.77			77.75	77.92		77.77		77.49	77.50		77.67	
Mean	77.71	77.96	78.16	77.91	78.20	78.95	78.50	77.62	77.50	77.49	77.47	77.36	
Max	78.57	79.14	80.25	78.67	79.59	81.42	80.76	77.77	77.57	77.51	77.52	77.69	81.42
Min	77.57	77.57	77.73	77.67	77.74	78.04	77.77	77.52	77.44	77.47	77.41	77.22	77.22
Annual Max Momentary Gage Height	82.40		m. (MSL.) ,				at 18.00 Hours, on Sep 5, 2009						
Zero Gage at Bottom Elevation	77.17		m. (MSL.) ,			River Bed	77.16		m. (MSL)				
Left Bank Elevation	87.07		m. (MSL.) ,										
Right Bank Elevation	87.05		m. (MSL.) ,			Drainage Area	574		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	9.25	4.40	3.20	7.60	14.35	11.50	2.70	0.70	0.45	0.45	0.00	
2	2.10	5.20	3.20	3.20	5.80	22.80	21.00	2.50	0.70	0.50	0.40	0.00	
3	1.90	3.50	4.40	3.90	4.20	14.80	11.20	2.20	0.35	0.50	0.35	0.00	
4	1.70	3.10	23.60	4.40	4.50	32.80	12.25	2.20	0.35	0.45	0.35	0.00	
5	1.80	2.50	12.55	4.00	8.50	74.10	25.80	2.10	0.35	0.45	0.30	0.00	
6	3.20	2.20	7.75	4.20	6.25	18.80	30.60	1.70	0.35	0.40	0.30	0.00	
7	3.10	1.60	5.00	11.50	3.10	12.10	23.00	1.50	0.60	0.40	0.25	0.00	
8	2.20	1.20	3.90	13.30	3.10	32.80	19.00	1.20	0.70	0.40	0.25	0.00	
9	2.20	1.50	3.50	10.60	2.90	11.05	67.10	1.20	0.45	0.40	0.20	0.00	
10	2.20	2.50	13.60	5.30	5.40	11.50	18.80	1.20	0.35	0.35	0.20	0.00	
11	1.90	5.40	5.80	4.40	22.80	11.05	33.80	1.60	0.35	0.35	0.15	0.00	
12	1.70	8.50	3.60	4.70	8.95	9.25	11.20	2.10	0.35	0.45	0.05	0.00	
13	1.20	12.55	3.20	2.90	4.70	6.10	17.00	1.70	0.50	0.45	0.05	0.00	
14	1.20	24.80	3.00	3.20	3.40	9.10	10.75	2.40	0.60	0.40	0.15	0.00	
15	1.20	16.80	2.90	3.20	3.20	13.00	10.75	2.80	0.40	0.35	0.35	0.00	
16	1.20	8.05	21.80	3.50	3.70	14.20	7.75	3.20	0.35	0.35	0.50	0.00	
17	1.20	9.85	23.80	3.30	33.80	9.40	7.00	2.80	0.35	0.35	0.70	0.00	
18	1.20	6.25	7.75	2.70	22.40	21.00	12.70	2.50	0.35	0.35	0.70	0.00	
19	1.80	3.20	3.90	2.30	20.80	86.80	23.60	2.20	0.35	0.35	0.70	0.00	
20	2.70	3.20	4.40	2.20	7.75	29.80	8.05	2.20	0.20	0.60	0.60	0.00	
21	3.20	2.90	5.10	2.40	4.60	8.05	8.50	2.00	0.35	0.50	0.50	0.00	
22	3.10	2.20	21.00	2.60	4.00	6.70	7.90	1.20	0.70	0.45	0.50	0.00	
23	2.90	2.20	51.00	2.20	3.50	8.50	7.30	1.20	1.10	0.45	0.60	0.00	
24	2.20	3.90	10.00	2.70	5.40	19.00	7.15	1.20	1.20	0.45	0.60	0.10	
25	2.20	4.40	6.25	2.20	23.00	54.00	5.95	1.00	1.20	0.45	0.60	0.50	
26	2.50	7.00	4.00	8.05	15.85	26.00	5.20	0.70	1.10	0.40	0.35	1.50	
27	3.20	8.50	3.20	14.05	24.80	14.95	5.10	0.70	0.60	0.40	0.25	2.20	
28	14.05	5.00	2.80	15.55	6.40	90.80	4.40	0.70	0.35	0.45	0.05	2.40	
29	7.90	4.20	3.00	4.20	5.80	21.00	3.70	0.70	0.90	0.60		2.20	
30	2.00	3.50	2.80	3.70	5.95	11.05	3.70	0.70	0.35	0.60		2.20	
31		3.20		3.00	4.70		3.20		0.45	0.50		2.20	
Total	81.65	178.15	271.20	156.65	286.85	714.85	444.95	52.10	17.00	13.55	10.45	13.30	2240.70 CMSDAY
Mean	2.72	5.75	9.04	5.05	9.25	23.83	14.35	1.74	0.55	0.44	0.37	0.43	6.14 CMS
Max	14.05	24.80	51.00	15.55	33.80	90.80	67.10	3.20	1.20	0.60	0.70	2.40	90.80 CMS
Min	1.20	1.20	2.80	2.20	2.90	6.10	3.20	0.70	0.20	0.35	0.05	0.00	0.00 CMS
Runoff	7.06	15.39	23.43	13.54	24.78	61.76	38.44	4.50	1.47	1.17	0.90	1.15	193.60 MCM
Momentary Peak	130.46 CMS, at 82.40 m. (MSL), at 18.00 Hours, on Sep 5, 2009												
Runoff Yield	10.69 Liters/Second/Square KM.			Momentary Peak Yield			227.282 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Kuad Kong at Ban Khok Noi , Sa Kaeo (Kgt.41)

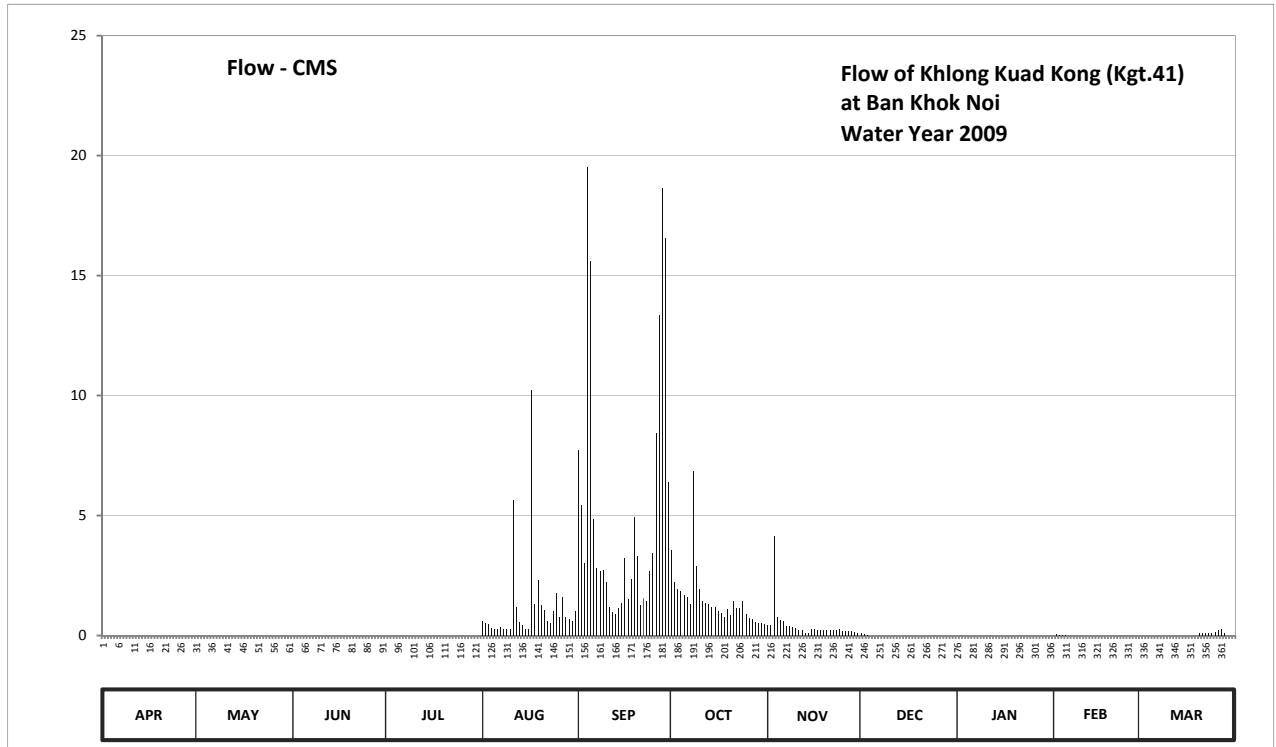
Lat 13 - 22 - 40 N Long 102 - 05 - 30 E

Location : on right bank at the bridge on highway.

	Ban	Khok Noi	Amphoe	Wang Sombun	Changwat	Sa Kaeo
Drainage Area	123	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+78.340	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+85.590 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 means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.64	1.55	0.94	0.78	79.20	80.28	79.74	79.14	79.03	78.97	78.94	78.90	
2	0.63	1.76	0.87	0.77	79.18	79.99	79.54	79.14	79.02	78.96	79.02	78.90	
3	0.62	1.72	0.98	1.40	79.16	79.66	79.49	79.82	79.01	78.96	79.01	78.90	
4	0.62	1.70	1.59	0.95	79.10	81.34	79.47	79.24	79.00	78.96	79.01	78.90	
5	0.62	1.69	1.29	0.90	79.09	81.02	79.44	79.21	79.00	78.96	79.01	78.90	
6	0.61	1.69	1.04	1.13	79.09	79.92	79.42	79.20	79.00	78.95	78.99	78.89	
7	0.61	1.68	0.95	1.75	79.12	79.63	79.36	79.13	79.00	78.95	78.97	78.89	
8	0.61	1.69	0.84	1.79	79.09	79.61	80.17	79.13	79.00	78.95	78.94	78.89	
9	0.66	1.65	0.81	1.20	79.09	79.62	79.64	79.11	79.00	78.95	78.92	78.89	
10	0.68	1.65	1.20	0.98	79.09	79.54	79.49	79.10	79.00	78.95	78.91	78.89	
11	1.45	1.60	1.00	0.85	80.02	79.34	79.39	79.08	79.00	78.95	78.90	78.88	
12	0.70	1.40	0.94	0.81	79.34	79.29	79.37	79.08	79.00	78.95	78.90	78.88	
13	0.68	1.53	0.82	0.78	79.19	79.27	79.36	79.04	79.00	78.95	78.92	78.88	
14	0.67	1.35	0.78	0.77	79.14	79.33	79.34	79.04	79.00	78.95	78.93	78.88	
15	0.67	1.10	0.78	0.86	79.09	79.37	79.34	79.09	79.00	78.95	78.94	78.88	
16	0.66	0.88	1.02	0.89	79.09	79.69	79.30	79.09	78.99	78.96	78.96	78.91	
17	0.65	0.82	1.31	0.82	80.54	79.40	79.28	79.08	78.99	78.96	78.96	78.94	
18	0.65	0.80	1.17	0.77	79.36	79.56	79.24	79.08	78.99	78.96	78.94	78.96	
19	0.66	0.88	0.95	0.73	79.55	79.93	79.32	79.08	78.98	78.96	78.94	78.99	
20	0.66	0.77	0.85	0.73	79.35	79.70	79.26	79.07	78.98	78.96	78.94	79.04	
21	0.55	0.83	1.26	0.85	79.31	79.35	79.39	79.07	78.98	78.96	78.93	79.04	
22	0.53	0.96	1.13	1.49	79.20	79.41	79.33	79.07	78.98	78.96	78.93	79.04	
23	0.52	1.00	1.56	0.94	79.17	79.39	79.33	79.08	78.98	78.96	78.92	79.04	
24	0.52	0.83	1.34	0.88	79.30	79.61	79.39	79.09	78.98	78.96	78.91	79.04	
25	0.50	0.83	0.98	0.84	79.45	79.72	79.27	79.06	78.98	78.96	78.91	79.05	
26	0.49	0.96	0.92	0.86	79.24	80.36	79.23	79.06	78.98	78.96	78.91	79.07	
27	1.30	0.94	0.77	1.50	79.42	80.84	79.22	79.06	78.98	78.96	78.91	79.09	
28	1.45	0.86	0.78	1.10	79.24	81.27	79.19	79.06	78.98	78.96	78.91	79.04	
29	1.13	0.94	0.70	0.85	79.22	81.09	79.18	79.05	78.98	78.96		78.99	
30	0.86	0.84	0.66	0.81	79.20	80.11	79.17	79.03	78.98	78.96		78.94	
31		0.81		0.77	79.30		79.16		78.98	78.96		78.94	
Mean	0.72	1.22	1.01	0.99	79.29	79.89	79.38	79.12	78.99	78.96	78.94	78.95	
Max	1.45	1.76	1.59	1.79	80.54	81.34	80.17	79.82	79.03	78.97	79.02	79.09	81.34
Min	0.49	0.77	0.66	0.73	79.09	79.27	79.16	79.03	78.98	78.95	78.90	78.88	0.49
Annual Max Momentary Gage Height	81.39		m. (MSL.) ,				at 06.00 Hours, on Sep 4, 2009						
Zero Gage at Bottom Elevation	78.34		m. (MSL.) ,			River Bed	78.70		m. (MSL)				
Left Bank Elevation	85.89		m. (MSL.) ,										
Right Bank Elevation	85.88		m. (MSL.) ,			Drainage Area	123		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.60	7.74	3.58	0.42	0.09	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.54	5.42	2.24	0.42	0.06	0.00	0.06	0.00	
3	0.00	0.00	0.00	0.00	0.48	3.02	1.95	4.14	0.03	0.00	0.03	0.00	
4	0.00	0.00	0.00	0.00	0.30	19.53	1.85	0.76	0.00	0.00	0.03	0.00	
5	0.00	0.00	0.00	0.00	0.27	15.62	1.70	0.64	0.00	0.00	0.03	0.00	
6	0.00	0.00	0.00	0.00	0.27	4.86	1.60	0.60	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.36	2.81	1.30	0.39	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.27	2.67	6.86	0.39	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.27	2.74	2.88	0.33	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.27	2.24	1.95	0.30	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	5.66	1.20	1.45	0.24	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	1.20	0.96	1.35	0.24	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.57	0.88	1.30	0.12	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.42	1.15	1.20	0.12	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.27	1.35	1.20	0.27	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.27	3.23	1.00	0.27	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	10.20	1.50	0.92	0.24	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	1.30	2.36	0.76	0.24	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	2.30	4.94	1.10	0.24	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	1.25	3.30	0.84	0.21	0.00	0.00	0.00	0.12	
21	0.00	0.00	0.00	0.00	1.05	1.25	1.45	0.21	0.00	0.00	0.00	0.12	
22	0.00	0.00	0.00	0.00	0.60	1.55	1.15	0.21	0.00	0.00	0.00	0.12	
23	0.00	0.00	0.00	0.00	0.51	1.45	1.15	0.24	0.00	0.00	0.00	0.12	
24	0.00	0.00	0.00	0.00	1.00	2.67	1.45	0.27	0.00	0.00	0.00	0.12	
25	0.00	0.00	0.00	0.00	1.75	3.44	0.88	0.18	0.00	0.00	0.00	0.15	
26	0.00	0.00	0.00	0.00	0.76	8.44	0.72	0.18	0.00	0.00	0.00	0.21	
27	0.00	0.00	0.00	0.00	1.60	13.34	0.68	0.18	0.00	0.00	0.00	0.27	
28	0.00	0.00	0.00	0.00	0.76	18.65	0.57	0.18	0.00	0.00	0.00	0.12	
29	0.00	0.00	0.00	0.00	0.68	16.56	0.54	0.15	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.60	6.38	0.51	0.09	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	1.00	0.48	0.48	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	37.38	161.25	46.61	12.47	0.18	0.00	0.15	1.35	259.39 CMSDAY
Mean	0.00	0.00	0.00	0.00	1.21	5.38	1.50	0.42	0.01	0.00	0.01	0.04	0.71 CMS
Max	0.00	0.00	0.00	0.00	10.20	19.53	6.86	4.14	0.09	0.00	0.06	0.27	19.53 CMS
Min	0.00	0.00	0.00	0.00	0.27	0.88	0.48	0.09	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	3.23	13.93	4.03	1.08	0.02	0.00	0.01	0.12	22.41 MCM
Momentary Peak	20.20 CMS, at 81.39 M (MSL), at 06.00 Hours, on Sep 4, 2009												
Runoff Yield	5.78 Liters/Second/Square KM.			Momentary Peak Yield			164.228 Liters/Second/Square KM.						

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Tharapha , Sa Kaeo (Kgt.42)

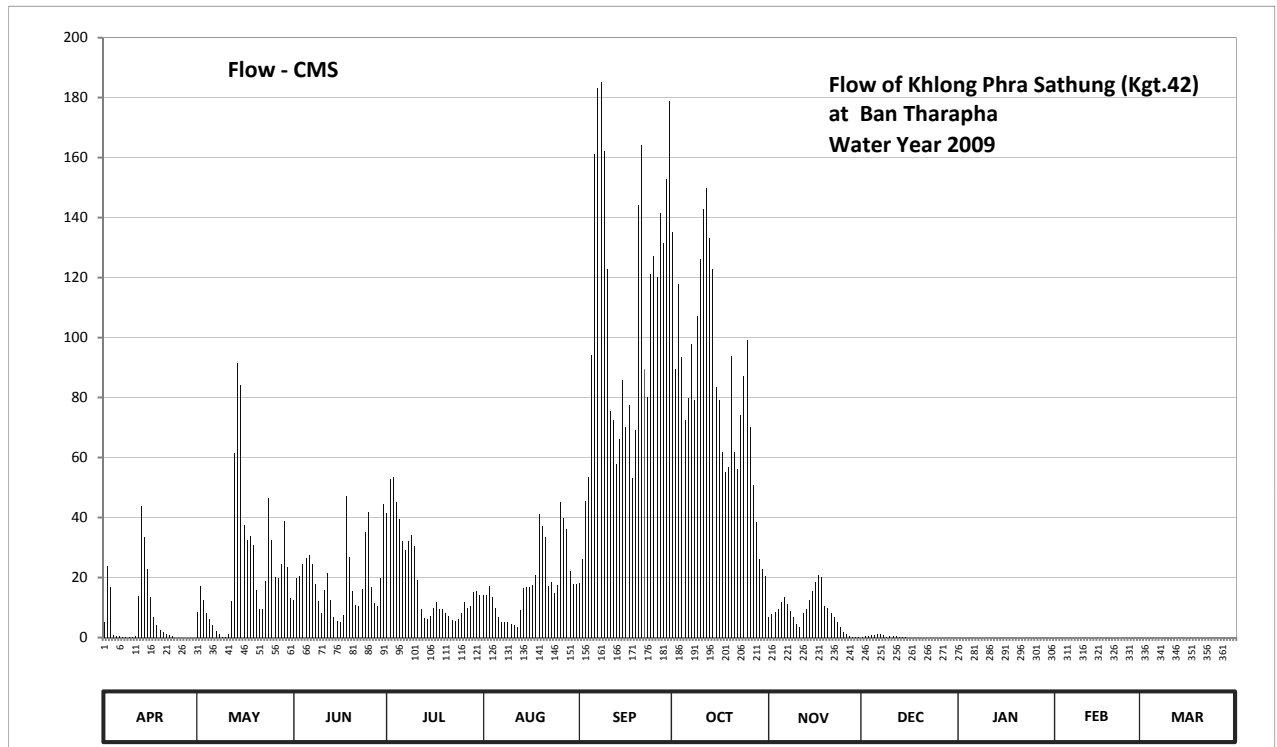
Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

	Ban Tharapha	Amphoe Mueang	Changwat Sa Kaeo
Drainage Area	2,558 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+13.860 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	Elevation	+24.312 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 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 with variable water surface slope.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.85	15.19	15.50	17.23	15.60	15.88	20.52	15.04	14.23	14.16	14.03	13.98	
2	16.25	15.81	15.98	17.73	15.62	16.41	19.13	15.12	14.27	14.15	14.03	13.98	
3	15.78	15.50	16.04	17.76	15.80	17.42	20.02	15.20	14.31	14.14	14.03	13.99	
4	14.38	15.17	16.31	17.41	15.56	17.76	19.27	15.30	14.35	14.13	14.02	14.04	
5	14.29	14.97	16.44	17.12	15.33	19.29	18.52	15.45	14.39	14.13	14.02	14.12	
6	14.27	14.76	16.51	16.75	15.04	21.26	18.81	15.57	14.43	14.13	14.02	14.08	
7	14.26	14.57	16.31	16.60	14.86	22.01	19.41	15.42	14.41	14.12	14.02	14.06	
8	14.26	14.41	15.85	16.76	14.86	22.09	18.79	15.22	14.37	14.12	14.02	14.06	
9	14.25	14.22	15.47	16.86	14.85	21.29	19.72	15.02	14.23	14.11	14.01	14.05	
10	14.23	14.21	15.15	16.67	14.81	20.17	20.26	14.81	14.30	14.11	14.01	14.04	
11	14.27	14.43	15.73	15.95	14.77	18.64	20.74	14.69	14.28	14.11	14.02	14.03	
12	15.59	15.47	16.09	15.28	14.69	18.52	20.94	15.15	14.27	14.11	14.02	14.03	
13	17.34	18.08	15.50	15.00	15.26	17.93	20.46	15.30	14.25	14.12	14.03	14.02	
14	16.82	19.20	15.05	14.96	15.76	18.26	20.17	15.50	14.24	14.12	14.03	14.01	
15	16.18	18.95	14.90	15.07	15.78	19.01	18.93	15.69	14.21	14.13	14.02	14.01	
16	15.57	17.02	14.87	15.32	15.79	18.43	18.78	15.89	14.18	14.15	14.02	14.01	
17	15.05	16.77	15.11	15.45	15.83	18.72	18.09	16.05	14.16	14.14	14.01	14.00	
18	14.75	16.84	17.50	15.29	16.05	17.74	17.83	16.00	14.15	14.13	14.01	14.00	
19	14.60	16.69	16.46	15.29	17.20	18.39	17.89	15.36	14.13	14.12	14.01	13.99	
20	14.54	15.73	15.70	15.17	17.01	20.78	19.28	15.32	14.11	14.11	14.00	13.99	
21	14.44	15.31	15.38	15.06	16.83	21.35	18.09	15.16	14.11	14.10	14.00	13.98	
22	14.36	15.31	15.36	14.94	15.81	19.13	17.87	15.04	14.12	14.09	14.00	13.98	
23	14.27	15.93	15.75	14.90	15.89	18.82	18.59	14.85	14.13	14.08	14.00	13.98	
24	14.18	17.48	16.91	14.95	15.66	20.12	19.05	14.69	14.15	14.07	13.99	13.97	
25	14.17	16.77	17.25	15.18	15.83	20.29	19.45	14.52	14.17	14.06	13.99	13.97	
26	14.16	16.01	15.78	15.45	17.40	20.09	18.43	14.40	14.17	14.05	13.99	13.97	
27	14.14	15.99	15.44	15.32	17.14	20.70	17.65	14.33	14.16	14.04	13.99	13.97	
28	14.13	16.31	15.36	15.36	16.95	20.41	17.07	14.25	14.16	14.04	13.99	13.99	
29	14.12	17.09	15.99	15.68	16.14	21.02	16.42	14.24	14.15	14.03		14.00	
30	14.11	16.23	17.38	15.70	15.86	21.83	16.18	14.23	14.15	14.03		14.01	
31		15.54		15.62	15.86		16.03		14.15	14.03		14.01	
Mean	14.79	16.00	15.90	15.87	15.80	19.46	18.79	15.09	14.22	14.10	14.01	14.01	
Max	17.34	19.20	17.50	17.76	17.40	22.09	20.94	16.05	14.43	14.16	14.03	14.12	22.09
Min	14.11	14.21	14.87	14.90	14.69	15.88	16.03	14.23	14.11	14.03	13.99	13.97	13.97
Annual Max Momentary Gage Height		22.25	m. (MSL.) ,		at 08.00 Hours, on Sep 8, 2009								
Zero Gage at Bottom Elevation		13.86	m. (MSL.) ,		River Bed	13.94	m. (MSL)						
Left Bank Elevation		24.93	m. (MSL.) ,										
Right Bank Elevation		24.84	m. (MSL.) ,		Drainage Area	2558	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.00	8.40	12.50	41.60	14.00	18.20	135.20	6.90	0.15	0.00	0.00	0.00	
2	23.75	17.15	19.70	52.75	14.30	26.15	89.40	7.70	0.35	0.00	0.00	0.00	
3	16.70	12.50	20.60	53.50	17.00	45.40	117.70	8.50	0.55	0.00	0.00	0.00	
4	0.90	8.20	24.65	45.20	13.40	53.50	93.60	9.50	0.75	0.00	0.00	0.00	
5	0.45	6.20	26.60	39.40	9.95	94.20	72.50	11.75	0.95	0.00	0.00	0.00	
6	0.35	4.10	27.65	32.00	6.90	161.10	79.80	13.55	1.15	0.00	0.00	0.00	
7	0.30	2.20	24.65	29.00	5.10	183.25	97.80	11.30	1.05	0.00	0.00	0.00	
8	0.30	1.05	17.75	32.20	5.10	185.25	79.25	8.70	0.85	0.00	0.00	0.00	
9	0.25	0.10	12.05	34.20	5.00	162.15	107.20	6.70	0.15	0.00	0.00	0.00	
10	0.15	0.05	8.00	30.40	4.60	122.95	126.10	4.60	0.50	0.00	0.00	0.00	
11	0.35	1.15	15.95	19.25	4.20	75.50	142.90	3.40	0.40	0.00	0.00	0.00	
12	13.85	12.05	21.35	9.30	3.40	72.50	149.90	8.00	0.35	0.00	0.00	0.00	
13	43.80	61.50	12.50	6.50	9.10	57.75	133.10	9.50	0.25	0.00	0.00	0.00	
14	33.40	91.50	7.00	6.10	16.40	66.00	122.95	12.50	0.20	0.00	0.00	0.00	
15	22.70	84.00	5.50	7.20	16.70	85.80	83.40	15.35	0.05	0.00	0.00	0.00	
16	13.55	37.40	5.20	9.80	16.85	70.25	79.00	18.35	0.00	0.00	0.00	0.00	
17	7.00	32.40	7.60	11.75	17.45	77.50	61.75	20.75	0.00	0.00	0.00	0.00	
18	4.00	33.80	47.00	9.40	20.75	53.00	55.25	20.00	0.00	0.00	0.00	0.00	
19	2.50	30.80	26.90	9.40	41.00	69.25	56.75	10.40	0.00	0.00	0.00	0.00	
20	1.90	15.95	15.50	8.20	37.20	144.30	93.90	9.80	0.00	0.00	0.00	0.00	
21	1.20	9.65	10.70	7.10	33.60	164.25	61.75	8.10	0.00	0.00	0.00	0.00	
22	0.80	9.65	10.40	5.90	17.15	89.40	56.25	6.90	0.00	0.00	0.00	0.00	
23	0.35	18.95	16.25	5.50	18.35	80.10	74.25	5.00	0.00	0.00	0.00	0.00	
24	0.00	46.60	35.20	6.00	14.90	121.20	87.00	3.40	0.00	0.00	0.00	0.00	
25	0.00	32.40	42.00	8.30	17.45	127.15	99.00	1.70	0.00	0.00	0.00	0.00	
26	0.00	20.15	16.70	11.75	45.00	120.15	70.25	1.00	0.00	0.00	0.00	0.00	
27	0.00	19.85	11.60	9.80	39.80	141.50	50.75	0.65	0.00	0.00	0.00	0.00	
28	0.00	24.65	10.40	10.40	36.00	131.35	38.40	0.25	0.00	0.00	0.00	0.00	
29	0.00	38.80	19.85	15.20	22.10	152.70	26.30	0.20	0.00	0.00	0.00	0.00	
30	0.00	23.45	44.60	15.50	17.90	178.75	22.70	0.15	0.00	0.00	0.00	0.00	
31		13.10		14.30	17.90		20.45		0.00	0.00		0.00	
Total	193.55	717.75	576.35	596.90	558.55	3130.55	2584.55	244.60	7.70	0.00	0.00	0.00	8610.50 CMSDAY
Mean	6.45	23.15	19.21	19.25	18.02	104.35	83.37	8.15	0.25	0.00	0.00	0.00	23.59 CMS
Max	43.80	91.50	47.00	53.50	45.00	185.25	149.90	20.75	1.15	0.00	0.00	0.00	185.25 CMS
Min	0.00	0.05	5.20	5.50	3.40	18.20	20.45	0.15	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	16.72	62.01	49.80	51.57	48.26	270.48	223.31	21.13	0.67	0.00	0.00	0.00	743.95 MCM
Momentary Peak	189.20 CMS, at 22.25 m. (MSL), at 08.00 Hours, on Sep 8, 2009												
Runoff Yield	9.22 Liters/Second/Square KM.			Momentary Peak Yield			73.964 Liters/Second/Square KM.						

WATER YEAR : 2009

NAKHON NAYOK RIVER BASIN

Nakhon Nayok River at Ban Khao Nang Buat , Nakhon Nayok (Ny.1B)

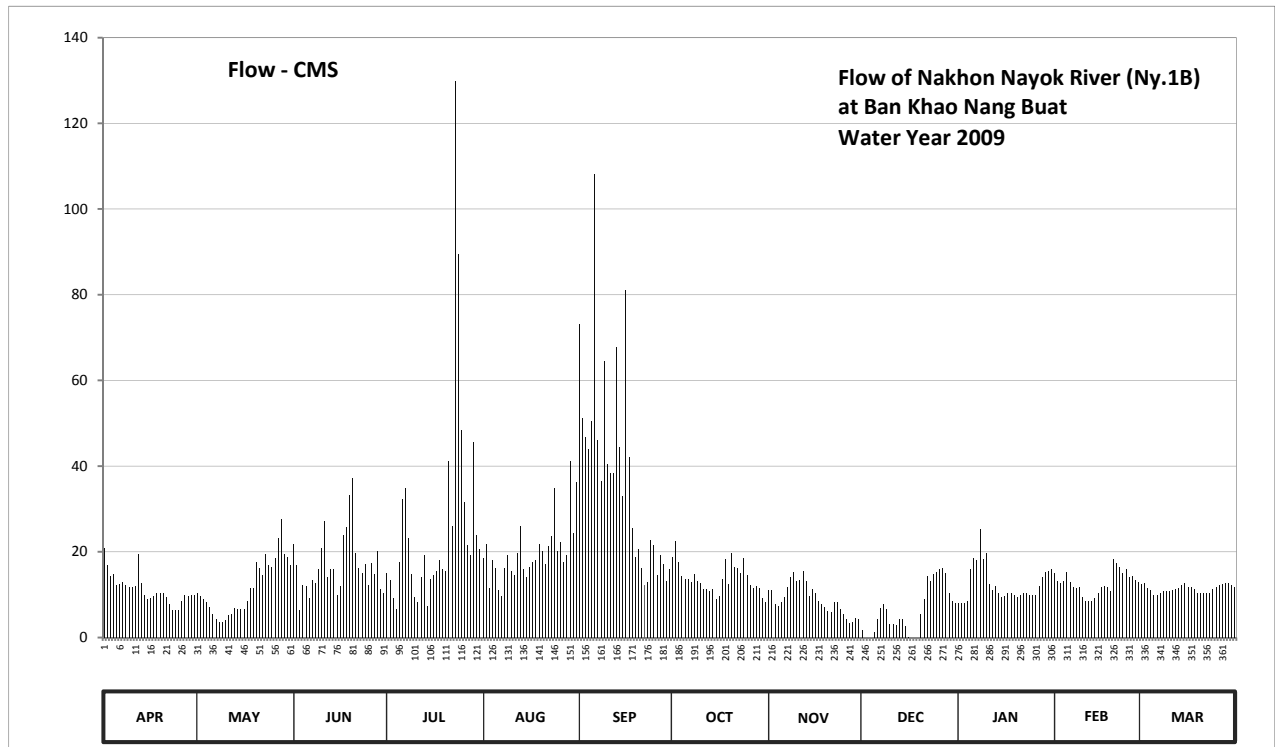
Lat 14 - 14 - 38 N Long 101 - 16 - 14 E

Location : on right bank about 700 meters upstream from Ny.1

	Ban	Khao Nang Buat	Amphoe	Mueang	Changwat	Nakhon Nayok
Drainage Area	521	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 200 meters from the staff gage.				Elevation	+8.758 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 means of 5 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1973 - 1980 , 1991 to date					
Rated by Flot	-					
Rated by Current Meter	1973 - 1980 , 1991 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.90	4.52	4.93	4.70	4.82	6.28	4.83	4.54	4.09	4.40	4.70	4.60	
2	4.76	4.48	4.76	4.64	4.93	5.78	4.95	4.54	4.00	4.40	4.63	4.61	
3	4.67	4.45	4.32	4.46	4.56	5.67	4.79	4.39	3.99	4.40	4.61	4.56	
4	4.69	4.41	4.59	4.33	4.80	5.60	4.67	4.37	3.96	4.42	4.63	4.54	
5	4.59	4.35	4.58	4.79	4.74	5.76	4.65	4.41	4.06	4.73	4.71	4.49	
6	4.60	4.27	4.46	5.28	4.54	6.97	4.65	4.47	4.22	4.82	4.62	4.50	
7	4.62	4.22	4.64	5.35	4.48	5.65	4.62	4.57	4.34	4.80	4.57	4.52	
8	4.59	4.18	4.61	4.97	4.74	5.40	4.69	4.66	4.39	5.04	4.56	4.53	
9	4.57	4.18	4.73	4.69	4.84	6.10	4.63	4.71	4.33	4.81	4.57	4.53	
10	4.57	4.20	4.90	4.47	4.72	5.51	4.61	4.63	4.16	4.86	4.47	4.53	
11	4.58	4.26	5.11	4.41	4.68	5.45	4.55	4.64	4.16	4.60	4.42	4.54	
12	4.85	4.27	4.66	4.66	4.86	5.45	4.55	4.72	4.15	4.54	4.42	4.55	
13	4.61	4.34	4.73	4.84	5.07	6.17	4.53	4.63	4.21	4.58	4.42	4.56	
14	4.49	4.33	4.73	4.37	4.73	5.61	4.55	4.48	4.22	4.52	4.46	4.59	
15	4.45	4.33	4.50	4.65	4.66	5.30	4.45	4.55	4.13	4.47	4.51	4.61	
16	4.46	4.33	4.58	4.68	4.75	6.44	4.48	4.51	4.01	4.48	4.57	4.57	
17	4.48	4.43	5.00	4.72	4.79	5.55	4.65	4.42	3.99	4.51	4.58	4.57	
18	4.51	4.56	5.06	4.80	4.80	5.05	4.81	4.39	3.97	4.52	4.57	4.55	
19	4.51	4.56	5.31	4.73	4.93	4.83	4.60	4.36	3.96	4.49	4.53	4.52	
20	4.51	4.79	5.42	4.72	4.87	4.89	4.86	4.31	4.27	4.47	4.81	4.52	
21	4.47	4.74	4.86	5.53	4.77	4.74	4.75	4.30	4.45	4.49	4.78	4.52	
22	4.39	4.68	4.74	5.07	4.91	4.59	4.74	4.41	4.67	4.52	4.75	4.51	
23	4.32	4.85	4.70	7.33	4.99	4.62	4.70	4.41	4.63	4.51	4.70	4.52	
24	4.32	4.76	4.77	6.61	5.35	4.96	4.82	4.33	4.69	4.50	4.73	4.55	
25	4.32	4.75	4.59	5.71	4.87	4.92	4.68	4.27	4.71	4.50	4.66	4.57	
26	4.43	4.82	4.78	5.25	4.94	4.68	4.59	4.21	4.73	4.50	4.67	4.59	
27	4.50	4.97	4.69	4.92	4.79	4.84	4.56	4.17	4.74	4.58	4.64	4.60	
28	4.48	5.12	4.87	4.84	4.84	4.77	4.58	4.18	4.70	4.66	4.62	4.61	
29	4.49	4.85	4.55	5.64	5.53	4.63	4.56	4.23	4.51	4.71		4.61	
30	4.50	4.83	4.52	5.00	5.01	4.73	4.46	4.21	4.43	4.72		4.59	
31		4.76		4.89	5.39		4.41		4.40	4.73		4.57	
Mean	4.54	4.54	4.76	5.00	4.86	5.36	4.64	4.43	4.30	4.59	4.60	4.56	
Max	4.90	5.12	5.42	7.33	5.53	6.97	4.95	4.72	4.74	5.04	4.81	4.61	7.33
Min	4.32	4.18	4.32	4.33	4.48	4.59	4.41	4.17	3.96	4.40	4.42	4.49	3.96
Annual Max Momentary Gage Height	8.02		m. (MSL.) ,			at 09.00 Hours , on Jul 23 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	1.81	m. (MSL)						
Left Bank Elevation	11.53		m. (MSL.) ,										
Right Bank Elevation	11.54		m. (MSL.) ,		Drainage Area	521	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.00	10.50	21.90	15.00	18.60	73.00	18.90	11.00	1.80	8.00	15.00	12.50	
2	16.80	9.60	16.80	13.50	21.90	51.20	22.50	11.00	0.00	8.00	13.25	12.75	
3	14.25	9.00	6.40	9.20	11.50	46.80	17.70	7.80	0.00	8.00	12.75	11.50	
4	14.75	8.20	12.25	6.60	18.00	44.00	14.25	7.40	0.00	8.40	13.25	11.00	
5	12.25	7.00	12.00	17.70	16.20	50.40	13.75	8.20	1.20	15.90	15.30	9.80	
6	12.50	5.40	9.20	32.40	11.00	108.20	13.75	9.40	4.40	18.60	13.00	10.00	
7	13.00	4.40	13.50	34.75	9.60	46.00	13.00	11.75	6.80	18.00	11.75	10.50	
8	12.25	3.60	12.75	23.10	16.20	36.50	14.75	14.00	7.80	25.20	11.50	10.75	
9	11.75	3.60	15.90	14.75	19.20	64.50	13.25	15.30	6.60	18.30	11.75	10.75	
10	11.75	4.00	21.00	9.40	15.60	40.40	12.75	13.25	3.20	19.80	9.40	10.75	
11	12.00	5.20	27.30	8.20	14.50	38.25	11.25	13.50	3.20	12.50	8.40	11.00	
12	19.50	5.40	14.00	14.00	19.80	38.25	11.25	15.60	3.00	11.00	8.40	11.25	
13	12.75	6.80	15.90	19.20	26.10	67.65	10.75	13.25	4.20	12.00	8.40	11.50	
14	9.80	6.60	15.90	7.40	15.90	44.40	11.25	9.60	4.40	10.50	9.20	12.25	
15	9.00	6.60	10.00	13.75	14.00	33.00	9.00	11.25	2.60	9.40	10.25	12.75	
16	9.20	6.60	12.00	14.50	16.50	81.00	9.60	10.25	0.20	9.60	11.75	11.75	
17	9.60	8.60	24.00	15.60	17.70	42.00	13.75	8.40	0.00	10.25	12.00	11.75	
18	10.25	11.50	25.80	18.00	18.00	25.50	18.30	7.80	0.00	10.50	11.75	11.25	
19	10.25	11.50	33.35	15.90	21.90	18.90	12.50	7.20	0.00	9.80	10.75	10.50	
20	10.25	17.70	37.20	15.60	20.10	20.70	19.80	6.20	5.40	9.40	18.30	10.50	
21	9.40	16.20	19.80	41.20	17.10	16.20	16.50	6.00	9.00	9.80	17.40	10.50	
22	7.80	14.50	16.20	26.10	21.30	12.25	16.20	8.20	14.25	10.50	16.50	10.25	
23	6.40	19.50	15.00	129.80	23.70	13.00	15.00	8.20	13.25	10.25	15.00	10.50	
24	6.40	16.80	17.10	89.50	34.75	22.80	18.60	6.60	14.75	10.00	15.90	11.25	
25	6.40	16.50	12.25	48.40	20.10	21.60	14.50	5.40	15.30	10.00	14.00	11.75	
26	8.60	18.60	17.40	31.50	22.20	14.50	12.25	4.20	15.90	10.00	14.25	12.25	
27	10.00	23.10	14.75	21.60	17.70	19.20	11.50	3.40	16.20	12.00	13.50	12.50	
28	9.60	27.60	20.10	19.20	19.20	17.10	12.00	3.60	15.00	14.00	13.00	12.75	
29	9.80	19.50	11.25	45.60	41.20	13.25	11.50	4.60	10.25	15.30		12.75	
30	10.00	18.90	10.50	24.00	24.30	15.90	9.20	4.20	8.60	15.60		12.25	
31		16.80		20.70	36.15		8.20		8.00	15.90		11.75	
Total	337.30	359.80	511.50	816.15	620.00	1136.45	427.50	266.55	195.30	386.50	355.70	353.30	5766.05 CMSDAY
Mean	11.24	11.61	17.05	26.33	20.00	37.88	13.79	8.89	6.30	12.47	12.70	11.40	15.80 CMS
Max	21.00	27.60	37.20	129.80	41.20	108.20	22.50	15.60	16.20	25.20	18.30	12.75	129.80 CMS
Min	6.40	3.60	6.40	6.60	9.60	12.25	8.20	3.40	0.00	8.00	8.40	9.80	0.00 CMS
Runoff	29.14	31.09	44.19	70.52	53.57	98.19	36.94	23.03	16.87	33.39	30.73	30.53	498.19 MCM
Momentary Peak	172.40 CMS. at 8.02 m. (MSL.) at 09.00 Hours , on Jul 23 , 2009												
Runoff Yield	30.29 Liters/Second/Square KM.			Momentary Peak Yield				330.604 Liters/Second/Square KM.					

WATER YEAR : 2009

NAKHON NAYOK RIVER BASIN

Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)

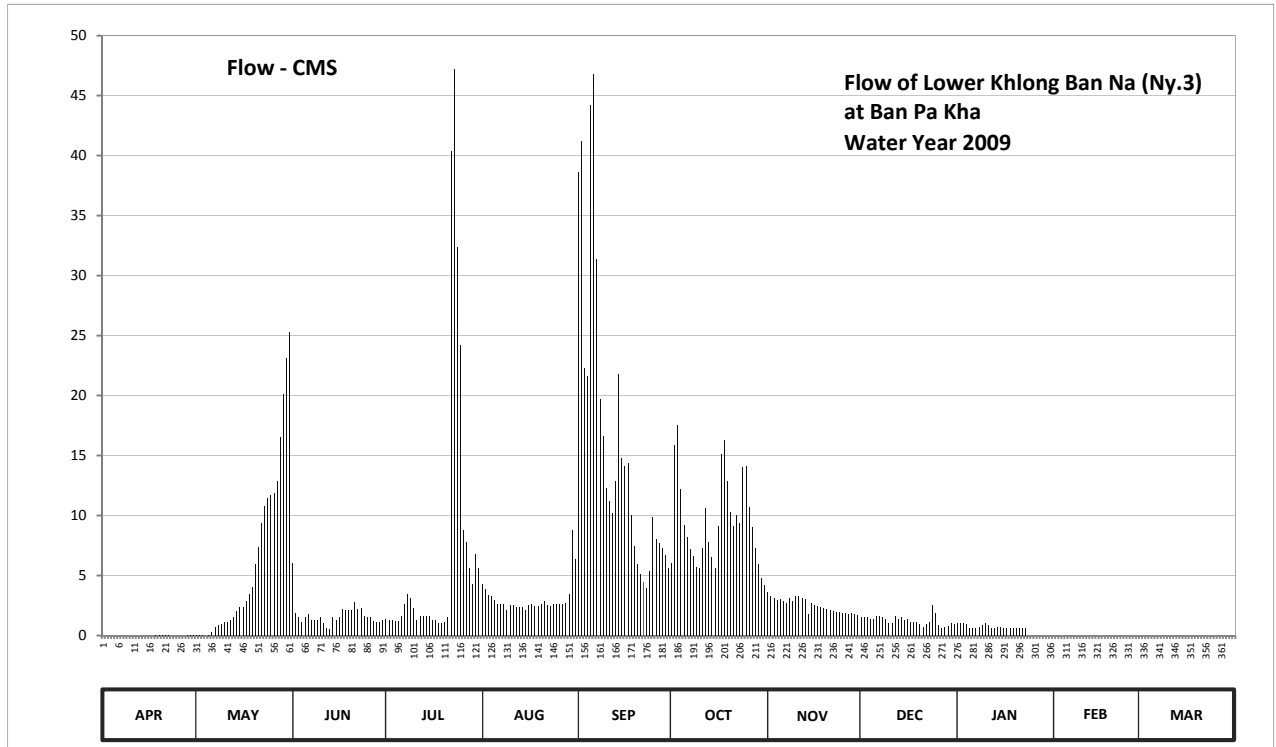
Lat 14 - 17 - 04 N Long 101 - 04 - 28 E

Location : on left bank near Wat Ban Pa Kha.

	Ban	Pa Kha	Amphoe	Ban Na	Changwat	Nakhon Nayok
Drainage Area	203	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+6.330	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 10 meters from the top staff gage.				Elevation	+12.675 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 means of 5 readings					
Period of Available Gage Records	1977 to date					
Rating Operation						
Period of Rating	1977 - 1978 , 1980, 1988 to date					
Rated by Flot	-					
Rated by Current Meter	1977 - 1978 , 1980, 1988 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow effected by the local weir. Stage-discharge relation defined by 19 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.63	6.83	9.60	9.24	7.90	10.58	8.14	7.82	7.40	7.31	8.08	8.37	
2	6.63	6.83	9.29	9.23	7.85	10.71	9.09	7.75	7.40	7.31	8.09	8.37	
3	6.63	6.81	9.25	9.23	7.78	9.55	9.22	7.72	7.40	7.31	8.11	8.38	
4	6.63	6.78	9.21	9.22	7.76	9.51	8.77	7.69	7.38	7.27	8.13	8.38	
5	6.63	6.83	9.25	9.22	7.69	10.86	8.47	7.71	7.38	7.13	8.16	8.38	
6	6.63	7.00	9.28	9.26	7.63	10.98	8.37	7.68	7.43	7.13	8.17	8.38	
7	6.63	7.19	9.23	9.36	7.63	10.16	8.27	7.65	7.42	7.15	8.19	8.38	
8	6.63	7.25	9.23	9.43	7.63	9.38	8.21	7.73	7.40	7.18	8.20	8.38	
9	6.63	7.29	9.23	9.41	7.53	9.15	8.10	7.67	7.38	7.26	8.21	8.38	
10	6.63	7.32	9.25	9.33	7.61	8.78	8.08	7.76	7.31	7.30	8.22	8.39	
11	6.63	7.33	9.20	9.23	7.60	8.67	8.28	7.75	7.30	7.24	8.23	8.38	
12	6.63	7.35	9.16	9.26	7.57	8.57	8.61	7.72	7.43	7.16	8.24	8.38	
13	6.63	7.41	9.15	9.26	7.58	8.84	8.33	7.70	7.37	7.15	8.24	8.38	
14	6.63	7.50	9.25	9.26	7.57	9.52	8.20	7.46	7.40	7.18	8.25	8.38	
15	6.74	7.57	9.23	9.26	7.52	9.00	8.08	7.64	7.36	7.18	8.26	8.38	
16	6.74	7.57	9.25	9.23	7.60	8.95	8.46	7.61	7.38	7.15	8.26	8.38	
17	6.74	7.68	9.32	9.23	7.63	8.97	9.03	7.59	7.33	7.15	8.27	8.38	
18	6.84	7.79	9.31	9.20	7.59	8.55	9.12	7.57	7.33	7.15	8.28	8.38	
19	6.84	7.87	9.31	9.20	7.59	8.30	8.84	7.56	7.33	7.15	8.28	8.38	
20	6.84	8.13	9.31	9.21	7.62	8.13	8.58	7.54	7.27	7.15	8.31	8.38	
21	6.84	8.29	9.38	9.25	7.68	8.02	8.46	7.52	7.17	7.15	8.32	8.38	
22	6.84	8.49	9.32	10.67	7.61	7.93	8.55	7.50	7.28	7.15	8.33	8.38	
23	6.78	8.63	9.33	11.00	7.59	7.86	8.49	7.49	7.33	7.15	8.34	8.38	
24	6.76	8.70	9.26	10.22	7.62	8.05	8.94	7.49	7.61	7.60	8.35	8.37	
25	6.73	8.72	9.25	9.68	7.63	8.54	8.95	7.48	7.47	7.81	8.36	8.37	
26	6.73	8.74	9.25	8.43	7.63	8.35	8.62	7.47	7.25	7.98	8.36	8.38	
27	6.73	8.84	9.22	8.33	7.63	8.32	8.45	7.46	7.13	7.99	8.36	8.39	
28	6.83	9.14	9.21	8.08	7.64	8.28	8.28	7.47	7.17	8.01	8.37	8.39	
29	6.83	9.41	9.21	7.91	7.79	8.22	8.13	7.46	7.23	8.03	8.37	8.39	
30	6.83	9.61	9.23	8.23	8.43	8.08	7.97	7.44	7.31	8.03	8.37	8.40	
31	9.75			8.08	8.18		7.89		7.28	8.03		8.40	
Mean	6.72	7.89	9.27	9.20	7.69	8.96	8.48	7.60	7.34	7.39	8.25	8.38	
Max	6.84	9.75	9.60	11.00	8.43	10.98	9.22	7.82	7.61	8.03	8.37	8.40	11.00
Min	6.63	6.78	9.15	7.91	7.52	7.86	7.89	7.44	7.13	7.13	8.08	8.37	6.63
Annual Max Momentary Gage Height	12.03		m. (MSL.) ,				at 18.00 Hours , on Jul 22 , 2009						
Zero Gage at Bottom Elevation	6.33		m. (MSL.) ,			River Bed	6.35		m. (MSL)				
Left Bank Elevation	13.61		m. (MSL.) ,										
Right Bank Elevation	13.63		m. (MSL.) ,			Drainage Area	203		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.03	6.00	1.40	4.25	38.65	6.05	3.65	1.50	1.05	0.00	0.00	
2	0.00	0.03	1.90	1.30	3.87	41.20	15.88	3.25	1.50	1.05	0.00	0.00	
3	0.00	0.01	1.50	1.30	3.40	22.25	17.50	3.10	1.50	1.05	0.00	0.00	
4	0.00	0.00	1.10	1.20	3.30	21.65	12.20	2.95	1.40	0.92	0.00	0.00	
5	0.00	0.03	1.50	1.20	2.95	44.20	9.20	3.05	1.40	0.58	0.00	0.00	
6	0.00	0.25	1.80	1.60	2.65	46.80	8.20	2.90	1.65	0.58	0.00	0.00	
7	0.00	0.72	1.30	2.60	2.65	31.40	7.20	2.75	1.60	0.63	0.00	0.00	
8	0.00	0.87	1.30	3.45	2.65	19.70	6.60	3.15	1.50	0.70	0.00	0.00	
9	0.00	0.97	1.30	3.15	2.15	16.62	5.75	2.85	1.40	0.90	0.00	0.00	
10	0.00	1.10	1.50	2.30	2.55	12.30	5.60	3.30	1.05	1.00	0.00	0.00	
11	0.00	1.15	1.00	1.30	2.50	11.20	7.30	3.25	1.00	0.85	0.00	0.00	
12	0.00	1.25	0.62	1.60	2.35	10.20	10.60	3.10	1.65	0.65	0.00	0.00	
13	0.00	1.55	0.52	1.60	2.40	12.90	7.80	3.00	1.35	0.63	0.00	0.00	
14	0.00	2.00	1.50	1.60	2.35	21.80	6.50	1.80	1.50	0.70	0.00	0.00	
15	0.00	2.35	1.30	1.60	2.10	14.75	5.60	2.70	1.30	0.70	0.00	0.00	
16	0.00	2.35	1.50	1.30	2.50	14.13	9.10	2.55	1.40	0.63	0.00	0.00	
17	0.00	2.90	2.20	1.30	2.65	14.38	15.12	2.45	1.15	0.63	0.00	0.00	
18	0.04	3.45	2.10	1.00	2.45	10.00	16.25	2.35	1.15	0.63	0.00	0.00	
19	0.04	4.02	2.10	1.00	2.45	7.50	12.90	2.30	1.15	0.63	0.00	0.00	
20	0.04	5.98	2.10	1.10	2.60	5.98	10.30	2.20	0.92	0.63	0.00	0.00	
21	0.04	7.40	2.80	1.50	2.90	5.15	9.10	2.10	0.67	0.63	0.00	0.00	
22	0.04	9.40	2.20	40.40	2.55	4.47	10.00	2.00	0.95	0.63	0.00	0.00	
23	0.00	10.80	2.30	47.25	2.45	3.95	9.40	1.95	1.15	0.63	0.00	0.00	
24	0.00	11.50	1.60	32.35	2.60	5.38	14.00	1.95	2.55	0.00	0.00	0.00	
25	0.00	11.70	1.50	24.20	2.65	9.90	14.13	1.90	1.85	0.00	0.00	0.00	
26	0.00	11.90	1.50	8.80	2.65	8.00	10.70	1.85	0.87	0.00	0.00	0.00	
27	0.00	12.90	1.20	7.80	2.65	7.70	9.00	1.80	0.58	0.00	0.00	0.00	
28	0.03	16.50	1.10	5.60	2.70	7.30	7.30	1.85	0.67	0.00	0.00	0.00	
29	0.03	20.15	1.10	4.32	3.45	6.70	5.98	1.80	0.82	0.00	0.00	0.00	
30	0.03	23.15	1.30	6.80	8.80	5.60	4.77	1.70	1.05	0.00	0.00	0.00	
31		25.25		5.60	6.35		4.17		0.95	0.00		0.00	
Total	0.29	191.66	50.74	217.52	94.52	481.76	294.20	75.55	39.18	17.03	0.00	0.00	1462.45 CMSDAY
Mean	0.01	6.18	1.69	7.02	3.05	16.06	9.49	2.52	1.26	0.55	0.00	0.00	4.01 CMS
Max	0.04	25.25	6.00	47.25	8.80	46.80	17.50	3.65	2.55	1.05	0.00	0.00	47.25 CMS
Min	0.00	0.00	0.52	1.00	2.10	3.95	4.17	1.70	0.58	0.00	0.00	0.00	0.00 CMS
Runoff	0.03	16.56	4.38	18.79	8.17	41.62	25.42	6.53	3.39	1.47	0.00	0.00	126.36 MCM
Momentary Peak	72.90 CMS. at 12.03 m. (MSL) at 18.00 Hours , on Jul 22 , 2009												
Runoff Yield	19.72 Liters/Second/Square KM.			Momentary Peak Yield			358.760 Liters/Second/Square KM.						

WATER YEAR : 2009

NAKHON NAYOK RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

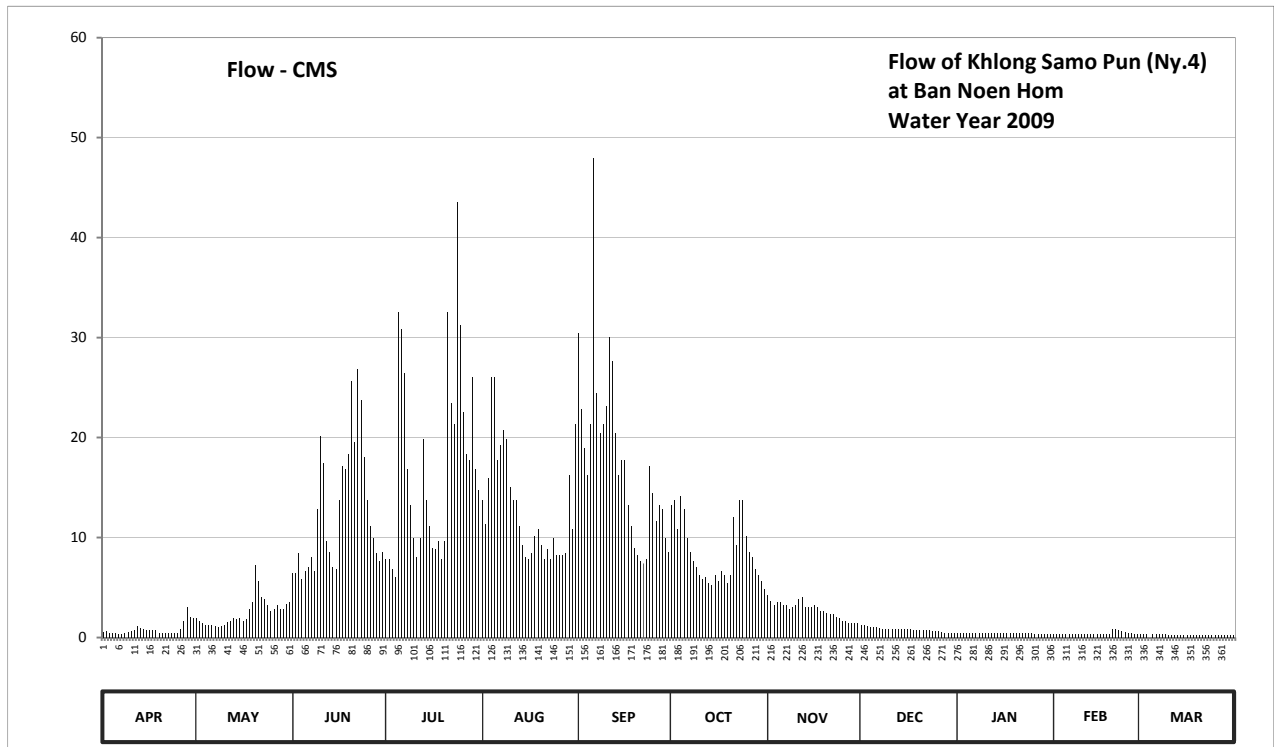
Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	Ban	Noen Hom	Amphoe	Mueang	Changwat	Prachin Buri
Drainage Area	128	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+376.100 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+382.580 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.41	376.59	376.87	376.94	377.16	377.66	377.14	376.75	376.53	376.40	376.36	376.36	
2	376.42	376.57	376.87	376.94	377.08	377.46	377.16	376.71	376.52	376.40	376.36	376.36	
3	376.40	376.54	376.97	376.89	377.23	377.33	377.06	376.68	376.51	376.40	376.36	376.36	
4	376.39	376.53	376.84	376.85	377.55	377.24	377.17	376.70	376.50	376.40	376.36	376.29	
5	376.38	376.52	376.88	377.71	377.55	377.41	377.13	376.70	376.50	376.40	376.36	376.36	
6	376.37	376.52	376.90	377.67	377.29	378.02	377.03	376.68	376.50	376.40	376.36	376.36	
7	376.37	376.51	376.95	377.56	377.34	377.51	376.98	376.68	376.49	376.40	376.36	376.36	
8	376.38	376.50	376.88	377.26	377.39	377.38	376.93	376.66	376.48	376.40	376.36	376.36	
9	376.41	376.51	377.13	377.14	377.36	377.41	376.90	376.67	376.48	376.39	376.36	376.36	
10	376.42	376.52	377.37	377.03	377.20	377.47	376.86	376.68	376.48	376.38	376.36	376.34	
11	376.45	376.55	377.28	376.95	377.16	377.65	376.84	376.72	376.48	376.38	376.36	376.34	
12	376.51	376.57	377.02	377.03	377.16	377.59	376.85	376.74	376.48	376.38	376.36	376.34	
13	376.49	376.59	376.98	377.36	377.07	377.38	376.82	376.67	376.48	376.38	376.36	376.34	
14	376.46	376.58	376.90	377.16	377.01	377.24	376.81	376.67	376.46	376.38	376.36	376.34	
15	376.44	376.59	376.89	377.07	376.95	377.29	376.86	376.67	376.46	376.38	376.36	376.34	
16	376.44	376.56	377.16	377.00	376.94	377.29	376.83	376.68	376.46	376.38	376.36	376.34	
17	376.44	376.58	377.27	376.99	376.97	377.14	376.88	376.67	376.46	376.38	376.36	376.34	
18	376.44	376.66	377.26	377.02	377.04	377.07	376.86	376.64	376.44	376.38	376.36	376.34	
19	376.40	376.70	377.31	376.94	377.06	377.00	376.82	376.64	376.44	376.38	376.36	376.34	
20	376.40	376.91	377.54	377.02	377.01	376.96	376.86	376.63	376.44	376.38	376.47	376.34	
21	376.40	376.83	377.35	377.71	376.94	376.93	377.10	376.62	376.44	376.38	376.46	376.34	
22	376.40	376.74	377.57	377.48	376.99	376.92	377.01	376.62	376.44	376.40	376.45	376.34	
23	376.40	376.72	377.49	377.41	376.94	376.94	377.16	376.60	376.44	376.39	376.43	376.34	
24	376.40	376.68	377.30	377.93	377.03	377.27	377.16	376.59	376.43	376.38	376.41	376.34	
25	376.40	376.64	377.16	377.68	376.96	377.18	377.04	376.57	376.42	376.38	376.39	376.34	
26	376.46	376.66	377.07	377.45	376.96	377.09	376.98	376.56	376.42	376.37	376.38	376.34	
27	376.57	376.68	377.03	377.31	376.96	377.14	376.95	376.54	376.41	376.36	376.37	376.34	
28	376.67	376.66	376.97	377.29	376.97	377.13	376.89	376.54	376.40	376.36	376.36	376.34	
29	376.60	376.66	376.93	377.55	377.24	377.03	376.86	376.54	376.40	376.36		376.34	
30	376.59	376.69	376.98	377.26	377.06	376.98	376.83	376.54	376.40	376.36		376.34	
31		376.70		377.19	377.41		376.79		376.40	376.36		376.34	
Mean	376.44	376.62	377.10	377.25	377.13	377.27	376.95	376.65	376.46	376.38	376.38	376.34	
Max	376.67	376.91	377.57	377.93	377.55	378.02	377.17	376.75	376.53	376.40	376.47	376.36	378.02
Min	376.37	376.50	376.84	376.85	376.94	376.92	376.79	376.54	376.40	376.36	376.36	376.29	376.29
Annual Max Momentary Gage Height	379.26		m. (MSL.) ,			at 23.00 Hours , on Sep 5 , 2009							
Zero Gage at Bottom Elevation	376.10		m. (MSL.) ,			River Bed	375.06	m. (MSL)					
Left Bank Elevation		382.58		m. (MSL.) ,									
Right Bank Elevation		383.58		m. (MSL.) ,		Drainage Area	128	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	1.90	6.40	7.80	13.80	30.40	13.20	4.25	1.30	0.50	0.30	0.30	
2	0.60	1.70	6.40	7.80	11.40	22.80	13.80	3.65	1.20	0.50	0.30	0.30	
3	0.50	1.40	8.40	6.80	15.90	18.90	10.80	3.20	1.10	0.50	0.30	0.30	
4	0.45	1.30	5.80	6.00	26.00	16.20	14.10	3.50	1.00	0.50	0.30	0.00	
5	0.40	1.20	6.60	32.50	26.00	21.30	12.90	3.50	1.00	0.50	0.30	0.30	
6	0.35	1.20	7.00	30.80	17.70	48.00	9.90	3.20	1.00	0.50	0.30	0.30	
7	0.35	1.10	8.00	26.40	19.20	24.40	8.60	3.20	0.95	0.50	0.30	0.30	
8	0.40	1.00	6.60	16.80	20.70	20.40	7.60	2.90	0.90	0.50	0.30	0.30	
9	0.55	1.10	12.90	13.20	19.80	21.30	7.00	3.05	0.90	0.45	0.30	0.30	
10	0.60	1.20	20.10	9.90	15.00	23.10	6.20	3.20	0.90	0.40	0.30	0.20	
11	0.75	1.50	17.40	8.00	13.80	30.00	5.80	3.80	0.90	0.40	0.30	0.20	
12	1.10	1.70	9.60	9.90	13.80	27.60	6.00	4.10	0.90	0.40	0.30	0.20	
13	0.95	1.90	8.60	19.80	11.10	20.40	5.40	3.05	0.90	0.40	0.30	0.20	
14	0.80	1.80	7.00	13.80	9.30	16.20	5.20	3.05	0.80	0.40	0.30	0.20	
15	0.70	1.90	6.80	11.10	8.00	17.70	6.20	3.05	0.80	0.40	0.30	0.20	
16	0.70	1.60	13.80	9.00	7.80	17.70	5.60	3.20	0.80	0.40	0.30	0.20	
17	0.70	1.80	17.10	8.80	8.40	13.20	6.60	3.05	0.80	0.40	0.30	0.20	
18	0.70	2.90	16.80	9.60	10.20	11.10	6.20	2.60	0.70	0.40	0.30	0.20	
19	0.50	3.50	18.30	7.80	10.80	9.00	5.40	2.60	0.70	0.40	0.30	0.20	
20	0.50	7.20	25.60	9.60	9.30	8.20	6.20	2.45	0.70	0.40	0.85	0.20	
21	0.50	5.60	19.50	32.50	7.80	7.60	12.00	2.30	0.70	0.40	0.80	0.20	
22	0.50	4.10	26.80	23.40	8.80	7.40	9.30	2.30	0.70	0.50	0.75	0.20	
23	0.50	3.80	23.70	21.30	7.80	7.80	13.80	2.00	0.70	0.45	0.65	0.20	
24	0.50	3.20	18.00	43.50	9.90	17.10	13.80	1.90	0.65	0.40	0.55	0.20	
25	0.50	2.60	13.80	31.20	8.20	14.40	10.20	1.70	0.60	0.40	0.45	0.20	
26	0.80	2.90	11.10	22.50	8.20	11.70	8.60	1.60	0.60	0.35	0.40	0.20	
27	1.70	3.20	9.90	18.30	8.20	13.20	8.00	1.40	0.55	0.30	0.35	0.20	
28	3.05	2.90	8.40	17.70	8.40	12.90	6.80	1.40	0.50	0.30	0.30	0.20	
29	2.00	2.90	7.60	26.00	16.20	9.90	6.20	1.40	0.50	0.30		0.20	
30	1.90	3.35	8.60	16.80	10.80	8.60	5.60	1.40	0.50	0.30		0.20	
31		3.50		14.70	21.30		4.85		0.50	0.30		0.20	
Total	24.10	76.95	376.60	533.30	403.60	528.50	261.85	82.00	24.75	12.85	10.80	6.80	2342.10 CMSDAY
Mean	0.80	2.48	12.55	17.20	13.02	17.62	8.45	2.73	0.80	0.41	0.39	0.22	6.42 CMS
Max	3.05	7.20	26.80	43.50	26.00	48.00	14.10	4.25	1.30	0.50	0.85	0.30	48.00 CMS
Min	0.35	1.00	5.80	6.00	7.80	7.40	4.85	1.40	0.50	0.30	0.30	0.00	0.00 CMS
Runoff	2.08	6.65	32.54	46.08	34.87	45.66	22.62	7.09	2.14	1.11	0.93	0.59	202.36 MCM
Momentary Peak	155.20 CMS. at 379.26 m. (MSL.) at 23.00 Hours , on Sep 5 , 2009												
Runoff Yield	50.06 Liters/Second/Square KM.			Momentary Peak Yield			1210.703 Liters/Second/Square KM.						

WATER YEAR : 2009

NAKHON NAYOK RIVER BASIN

Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)

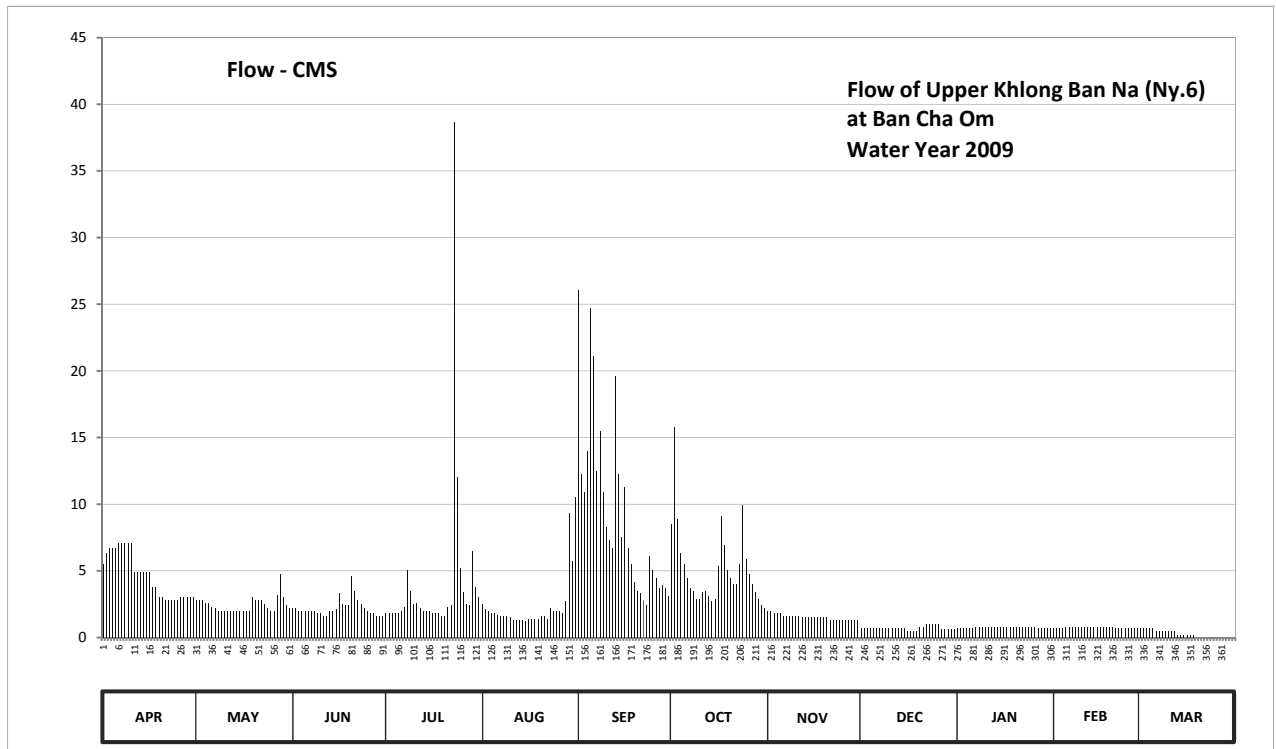
Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

	Ban	Cha Om	Amphoe	Kaeng Khoi	Changwat	Saraburi
Drainage Area	126	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+29.600	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 50 meters from the top staff gage.				Elevation	+34.960 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 means of 5 readings					
Period of Available Gage Records	1988 to date					
Rating Operation						
Period of Rating	1988 to date					
Rated by Flot	-					
Rated by Current Meter	1988 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.40	31.18	31.12	31.08	31.15	32.23	31.55	31.10	30.97	30.97	30.97	30.97	
2	31.44	31.18	31.12	31.08	31.11	31.73	31.87	31.10	30.97	30.97	30.97	30.97	
3	31.46	31.18	31.10	31.08	31.10	31.67	31.57	31.08	30.97	30.97	30.97	30.97	
4	31.46	31.16	31.10	31.08	31.08	31.80	31.44	31.08	30.97	30.97	30.97	30.97	
5	31.46	31.16	31.10	31.08	31.08	32.19	31.40	31.08	30.97	30.97	30.98	30.97	
6	31.48	31.13	31.10	31.10	31.07	32.07	31.33	31.06	30.97	30.97	30.98	30.95	
7	31.48	31.12	31.10	31.13	31.06	31.74	31.27	31.06	30.97	30.98	30.98	30.95	
8	31.48	31.10	31.10	31.37	31.06	31.86	31.25	31.06	30.97	30.98	30.98	30.95	
9	31.48	31.10	31.08	31.25	31.06	31.67	31.19	31.06	30.97	30.98	30.98	30.95	
10	31.48	31.10	31.08	31.15	31.05	31.54	31.19	31.06	30.97	30.98	30.98	30.95	
11	31.36	31.10	31.06	31.16	31.03	31.49	31.24	31.06	30.97	30.98	30.98	30.95	
12	31.36	31.10	31.06	31.12	31.03	31.46	31.25	31.05	30.97	30.98	30.98	30.95	
13	31.36	31.10	31.10	31.10	31.03	32.02	31.21	31.05	30.97	30.98	30.98	30.92	
14	31.36	31.10	31.10	31.10	31.03	31.73	31.17	31.05	30.97	30.98	30.98	30.92	
15	31.36	31.10	31.11	31.10	31.02	31.50	31.19	31.05	30.97	30.98	30.98	30.92	
16	31.36	31.10	31.23	31.08	31.04	31.69	31.39	31.05	30.95	30.98	30.98	30.92	
17	31.28	31.10	31.15	31.08	31.04	31.46	31.58	31.05	30.95	30.98	30.98	30.92	
18	31.28	31.10	31.14	31.08	31.04	31.40	31.47	31.05	30.95	30.98	30.98	30.92	
19	31.20	31.20	31.14	31.06	31.04	31.31	31.37	31.05	30.95	30.98	30.98	30.90	
20	31.20	31.18	31.34	31.06	31.06	31.25	31.33	31.05	30.98	30.98	30.98	30.90	
21	31.18	31.18	31.25	31.13	31.06	31.23	31.30	31.03	30.98	30.98	30.97	30.90	
22	31.18	31.18	31.18	31.14	31.04	31.18	31.30	31.03	31.00	30.98	30.97	30.90	
23	31.18	31.15	31.15	32.58	31.12	31.14	31.40	31.03	31.00	30.98	30.97	30.90	
24	31.18	31.12	31.12	31.72	31.10	31.43	31.62	31.03	31.00	30.98	30.97	30.90	
25	31.18	31.10	31.10	31.38	31.10	31.37	31.42	31.03	31.00	30.98	30.97	30.88	
26	31.20	31.10	31.08	31.24	31.10	31.33	31.35	31.03	31.00	30.98	30.97	30.88	
27	31.20	31.22	31.08	31.15	31.08	31.27	31.30	31.03	30.96	30.97	30.97	30.88	
28	31.20	31.35	31.06	31.14	31.17	31.29	31.24	31.03	30.96	30.97	30.97	30.88	
29	31.20	31.20	31.06	31.45	31.59	31.27	31.19	31.03	30.96	30.97		30.88	
30	31.20	31.14	31.06	31.28	31.41	31.21	31.14	31.03	30.96	30.97		30.88	
31		31.12		31.20	31.65		31.12		30.96	30.97		30.88	
Mean	31.32	31.14	31.12	31.22	31.12	31.55	31.34	31.05	30.97	30.98	30.98	30.92	
Max	31.48	31.35	31.34	32.58	31.65	32.23	31.87	31.10	31.00	30.98	30.98	30.97	32.58
Min	31.18	31.10	31.06	31.06	31.02	31.14	31.12	31.03	30.95	30.97	30.97	30.88	30.88
Annual Max Momentary Gage Height	33.48		m. (MSL.) ,			at 06.00 Hours , on Jul 23 , 2009							
Zero Gage at Bottom Elevation	29.60		m. (MSL.) ,			River Bed	30.25	m. (MSL)					
Left Bank Elevation		34.81		m. (MSL.) ,									
Right Bank Elevation		34.80		m. (MSL.) ,		Drainage Area	126	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.50	2.80	2.20	1.80	2.50	26.05	8.50	2.00	0.70	0.70	0.70	0.70	
2	6.30	2.80	2.20	1.80	2.10	12.25	15.75	2.00	0.70	0.70	0.70	0.70	
3	6.70	2.80	2.00	1.80	2.00	10.90	8.90	1.80	0.70	0.70	0.70	0.70	
4	6.70	2.60	2.00	1.80	1.80	14.00	6.30	1.80	0.70	0.70	0.70	0.70	
5	6.70	2.60	2.00	1.80	1.80	24.70	5.50	1.80	0.70	0.70	0.80	0.70	
6	7.10	2.30	2.00	2.00	1.70	21.10	4.45	1.60	0.70	0.70	0.80	0.50	
7	7.10	2.20	2.00	2.30	1.60	12.50	3.70	1.60	0.70	0.80	0.80	0.50	
8	7.10	2.00	2.00	5.05	1.60	15.50	3.50	1.60	0.70	0.80	0.80	0.50	
9	7.10	2.00	1.80	3.50	1.60	10.90	2.90	1.60	0.70	0.80	0.80	0.50	
10	7.10	2.00	1.80	2.50	1.50	8.30	2.90	1.60	0.70	0.80	0.80	0.50	
11	4.90	2.00	1.60	2.60	1.30	7.30	3.40	1.60	0.70	0.80	0.80	0.50	
12	4.90	2.00	1.60	2.20	1.30	6.70	3.50	1.50	0.70	0.80	0.80	0.50	
13	4.90	2.00	2.00	2.00	1.30	19.60	3.10	1.50	0.70	0.80	0.80	0.20	
14	4.90	2.00	2.00	2.00	1.30	12.25	2.70	1.50	0.70	0.80	0.80	0.20	
15	4.90	2.00	2.10	2.00	1.20	7.50	2.90	1.50	0.70	0.80	0.80	0.20	
16	4.90	2.00	3.30	1.80	1.40	11.30	5.35	1.50	0.50	0.80	0.80	0.20	
17	3.80	2.00	2.50	1.80	1.40	6.70	9.10	1.50	0.50	0.80	0.80	0.20	
18	3.80	2.00	2.40	1.80	1.40	5.50	6.90	1.50	0.50	0.80	0.80	0.20	
19	3.00	3.00	2.40	1.60	1.40	4.15	5.05	1.50	0.50	0.80	0.80	0.00	
20	3.00	2.80	4.60	1.60	1.60	3.50	4.45	1.50	0.80	0.80	0.80	0.00	
21	2.80	2.80	3.50	2.30	1.60	3.30	4.00	1.30	0.80	0.80	0.70	0.00	
22	2.80	2.80	2.80	2.40	1.40	2.80	4.00	1.30	1.00	0.80	0.70	0.00	
23	2.80	2.50	2.50	38.70	2.20	2.40	5.50	1.30	1.00	0.80	0.70	0.00	
24	2.80	2.20	2.20	12.00	2.00	6.10	9.90	1.30	1.00	0.80	0.70	0.00	
25	2.80	2.00	2.00	5.20	2.00	5.05	5.90	1.30	1.00	0.80	0.70	0.00	
26	3.00	2.00	1.80	3.40	2.00	4.45	4.75	1.30	1.00	0.80	0.70	0.00	
27	3.00	3.20	1.80	2.50	1.80	3.70	4.00	1.30	0.60	0.70	0.70	0.00	
28	3.00	4.75	1.60	2.40	2.70	3.90	3.40	1.30	0.60	0.70	0.70	0.00	
29	3.00	3.00	1.60	6.50	9.30	3.70	2.90	1.30	0.60	0.70		0.00	
30	3.00	2.40	1.60	3.80	5.70	3.10	2.40	1.30	0.60	0.70		0.00	
31		2.20		3.00	10.50		2.20		0.60	0.70		0.00	
Total	139.40	75.75	65.90	125.95	73.00	279.20	157.80	45.50	22.10	23.70	21.20	8.20	1037.70 CMSDAY
Mean	4.65	2.44	2.20	4.06	2.35	9.31	5.09	1.52	0.71	0.76	0.76	0.26	2.84 CMS
Max	7.10	4.75	4.60	38.70	10.50	26.05	15.75	2.00	1.00	0.80	0.80	0.70	38.70 CMS
Min	2.80	2.00	1.60	1.60	1.20	2.40	2.20	1.30	0.50	0.70	0.70	0.00	0.00 CMS
Runoff	12.04	6.55	5.69	10.88	6.31	24.12	13.63	3.93	1.91	2.05	1.83	0.71	89.66 MCM
Momentary Peak	77.10 CMS. at 33.48 m. (MSL) at 06.00 Hours , on Jul 23 , 2009												
Runoff Yield	22.52 Liters/Second/Square KM.			Momentary Peak Yield			610.790 Liters/Second/Square KM.						

WATER YEAR : 2009

TONLE SAP BASIN

Khlong Phra Phut at Ban Pang Ngon , Chanthaburi (TL.3)

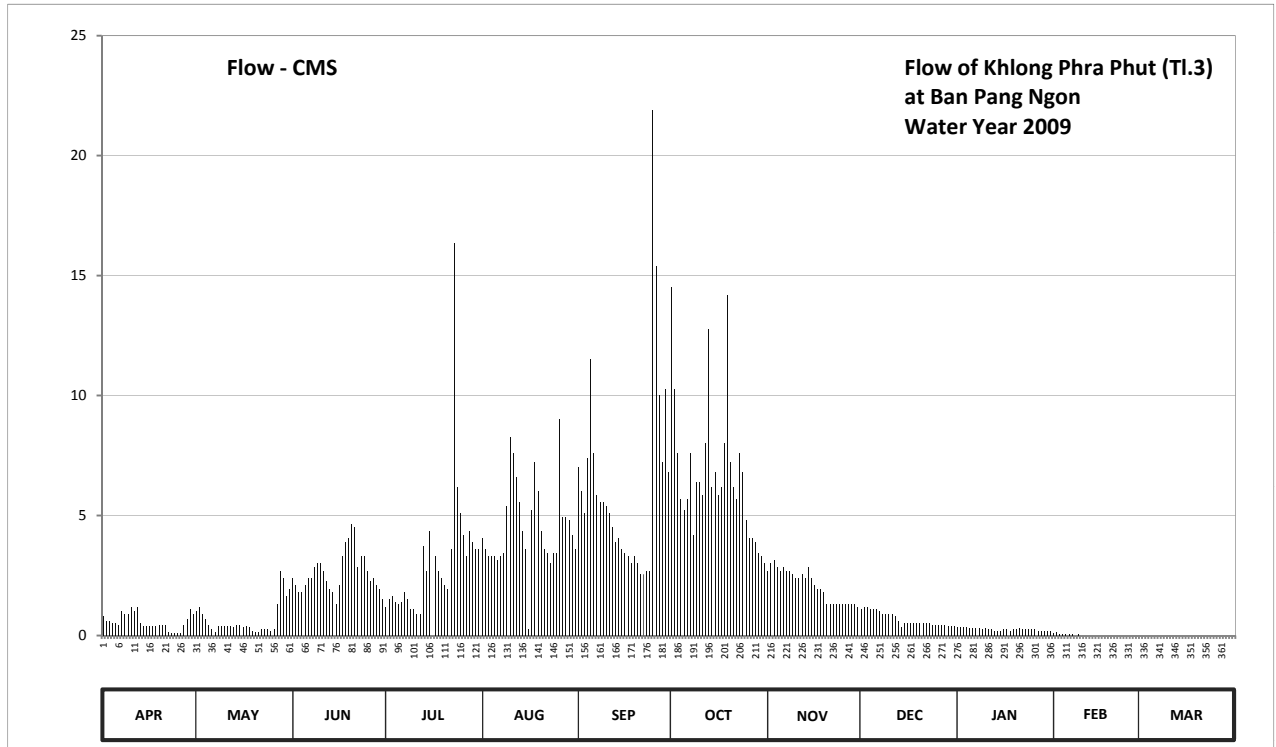
Lat 12 - 58 - 12 N Long 102 - 17 - 20 E

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
Drainage Area	71 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+190.675 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 6 meters from the top staff gage.	Elevation	+195.973 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 means of 5 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1986 to date		
Rated by Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Flow effected by the local weir. Stage-discharge relation defined by 23 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.03	191.05	191.16	191.07	191.27	191.45	191.75	191.18	191.06	190.97	190.92	191.13	
2	191.01	191.07	191.14	191.10	191.24	191.40	191.59	191.20	191.07	190.97	190.93	191.12	
3	191.01	191.04	191.12	191.11	191.22	191.34	191.48	191.21	191.07	190.97	190.91	191.12	
4	191.00	191.02	191.12	191.09	191.22	191.47	191.38	191.19	191.06	190.97	190.91	191.12	
5	191.00	190.99	191.14	191.08	191.22	191.64	191.35	191.18	191.06	190.96	190.91	191.10	
6	190.99	190.95	191.16	191.09	191.21	191.48	191.38	191.19	191.06	190.96	190.91	190.99	
7	191.05	190.93	191.16	191.12	191.22	191.39	191.48	191.18	191.05	190.96	190.91	190.88	
8	191.04	190.98	191.19	191.10	191.23	191.37	191.28	191.18	191.04	190.96	190.90	190.81	
9	191.04	190.98	191.20	191.06	191.36	191.37	191.42	191.17	191.04	190.95	190.91	190.74	
10	191.07	190.98	191.20	191.06	191.51	191.36	191.42	191.16	191.04	190.96	190.90	190.80	
11	191.05	190.98	191.18	191.04	191.48	191.34	191.39	191.16	191.04	190.95	190.90	190.74	
12	191.07	190.98	191.15	191.04	191.43	191.30	191.50	191.17	191.03	190.95	190.90	190.75	
13	191.00	190.97	191.13	191.25	191.37	191.26	191.69	191.16	191.01	190.94	190.90	190.72	
14	190.98	190.99	191.12	191.18	191.29	191.27	191.41	191.19	190.97	190.94	190.90	190.72	
15	190.98	190.99	191.08	191.29	191.24	191.24	191.44	191.16	191.00	190.94	190.90	190.71	
16	190.98	190.97	191.14	191.25	191.59	191.23	191.39	191.14	191.00	190.95	190.89	190.71	
17	190.98	190.98	191.22	191.22	191.35	191.22	191.41	191.13	191.00	190.95	190.85	190.71	
18	190.98	190.97	191.26	191.18	191.46	191.20	191.50	191.13	191.00	190.94	190.86	190.71	
19	190.99	190.94	191.27	191.16	191.40	191.22	191.74	191.12	191.00	190.95	191.14	190.71	
20	190.99	190.93	191.31	191.14	191.29	191.20	191.46	191.08	191.00	190.95	191.04	190.70	
21	190.99	190.93	191.30	191.13	191.24	191.17	191.41	191.08	191.00	190.96	191.16	190.69	
22	190.93	190.95	191.19	191.24	191.23	191.17	191.38	191.08	191.00	190.95	191.21	190.69	
23	190.92	190.95	191.22	191.81	191.20	191.18	191.48	191.08	191.00	190.95	191.21	190.72	
24	190.92	190.95	191.22	191.41	191.23	191.18	191.44	191.08	190.99	190.95	191.17	190.71	
25	190.92	190.94	191.18	191.34	191.23	191.96	191.32	191.08	190.99	190.95	191.15	190.69	
26	190.92	190.95	191.15	191.28	191.54	191.78	191.27	191.08	190.99	190.95	191.14	191.04	
27	190.99	191.08	191.16	191.22	191.33	191.58	191.27	191.08	190.99	190.94	191.11	191.12	
28	191.02	191.18	191.14	191.29	191.33	191.46	191.26	191.08	190.99	190.94	191.10	191.10	
29	191.06	191.16	191.13	191.26	191.32	191.59	191.23	191.08	190.98	190.94		191.10	
30	191.04	191.11	191.10	191.24	191.28	191.44	191.22	191.07	190.98	190.94		191.10	
31		191.13		191.24	191.24		191.20		190.98	190.94		191.14	
Mean	191.00	191.00	191.17	191.20	191.32	191.38	191.42	191.14	191.02	190.95	190.99	190.87	
Max	191.07	191.18	191.31	191.81	191.59	191.96	191.75	191.21	191.07	190.97	191.21	191.14	191.96
Min	190.92	190.93	191.08	191.04	191.20	191.17	191.20	191.07	190.97	190.94	190.85	190.69	190.69
Annual Max Momentary Gage Height		192.28		m. (MSL.) ,									at 06.00 Hours , on Jul 23 , 2009
Zero Gage at Bottom Elevation		190.68		m. (MSL.) ,		River Bed	190.600		m. (MSL)				
Left Bank Elevation			196.61		m. (MSL.) ,								
Right Bank Elevation		196.68			m. (MSL.) ,	Drainage Area	71		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	1.00	2.40	1.20	4.05	7.00	14.50	2.70	1.10	0.35	0.10	0.00	
2	0.60	1.20	2.10	1.50	3.60	6.00	10.25	3.00	1.20	0.35	0.15	0.00	
3	0.60	0.90	1.80	1.65	3.30	5.10	7.60	3.15	1.20	0.35	0.05	0.00	
4	0.50	0.70	1.80	1.40	3.30	7.40	5.70	2.85	1.10	0.35	0.05	0.00	
5	0.50	0.45	2.10	1.30	3.30	11.50	5.25	2.70	1.10	0.30	0.05	0.00	
6	0.45	0.25	2.40	1.40	3.15	7.60	5.70	2.85	1.10	0.30	0.05	0.00	
7	1.00	0.15	2.40	1.80	3.30	5.85	7.60	2.70	1.00	0.30	0.05	0.00	
8	0.90	0.40	2.85	1.50	3.45	5.55	4.20	2.70	0.90	0.30	0.00	0.00	
9	0.90	0.40	3.00	1.10	5.40	5.55	6.40	2.55	0.90	0.25	0.05	0.00	
10	1.20	0.40	3.00	1.10	8.25	5.40	6.40	2.40	0.90	0.30	0.00	0.00	
11	1.00	0.40	2.70	0.90	7.60	5.10	5.85	2.40	0.90	0.25	0.00	0.00	
12	1.20	0.40	2.25	0.90	6.60	4.50	8.00	2.55	0.80	0.25	0.00	0.00	
13	0.50	0.35	1.95	3.75	5.55	3.90	12.75	2.40	0.60	0.20	0.00	0.00	
14	0.40	0.45	1.80	2.70	4.35	4.05	6.20	2.85	0.35	0.20	0.00	0.00	
15	0.40	0.45	1.30	4.35	3.60	3.60	6.80	2.40	0.50	0.20	0.00	0.00	
16	0.40	0.35	2.10 3.75 1		0.25	3.45	5.85	2.10	0.50	0.25	0.00	0.00	
17	0.40	0.40	3.30	3.30	5.25	3.30	6.20	1.95	0.50	0.25	0.00	0.00	
18	0.40	0.35	3.90	2.70	7.20	3.00	8.00	1.95	0.50	0.20	0.00	0.00	
19	0.45	0.20	4.05	2.40	6.00	3.30	14.20	1.80	0.50	0.25	0.00	0.00	
20	0.45	0.15	4.65	2.10	4.35	3.00	7.20	1.30	0.50	0.25	0.00	0.00	
21	0.45	0.15	4.50	1.95	3.60	2.55	6.20	1.30	0.50	0.30	0.00	0.00	
22	0.15	0.25	2.85	3.60	3.45	2.55	5.70	1.30	0.50	0.25	0.00	0.00	
23	0.10	0.25	3.30	16.35	3.00	2.70	7.60	1.30	0.50	0.25	0.00	0.00	
24	0.10	0.25	3.30	6.20	3.45	2.70	6.80	1.30	0.45	0.25	0.00	0.00	
25	0.10	0.20	2.70	5.10	3.45	21.90	4.80	1.30	0.45	0.25	0.00	0.00	
26	0.10	0.25	2.25	4.20	9.00	15.40	4.05	1.30	0.45	0.25	0.00	0.00	
27	0.45	1.30	2.40	3.30	4.95	10.00	4.05	1.30	0.45	0.20	0.00	0.00	
28	0.70	2.70	2.10	4.35	4.95	7.20	3.90	1.30	0.45	0.20	0.00	0.00	
29	1.10	2.40	1.95	3.90	4.80	10.25	3.45	1.30	0.40	0.20		0.00	
30	0.90	1.65	1.50	3.60	4.20	6.80	3.30	1.20	0.40	0.20		0.00	
31		1.95		3.60	3.60		3.00		0.40	0.20			0.00
Total	17.20	20.70	78.70	96.95	150.30	186.20	207.50	62.20	21.10	8.00	0.55	0.00	849.40 CMSDAY
Mean	0.57	0.67	2.62	3.13	4.85	6.21	6.69	2.07	0.68	0.26	0.02	0.00	2.33 CMS
Max	1.20	2.70	4.65	16.35	10.25	21.90	14.50	3.15	1.20	0.35	0.15	0.00	21.90 CMS
Min	0.10	0.15	1.30	0.90	3.00	2.55	3.00	1.20	0.35	0.20	0.00	0.00	0.00 CMS
Runoff	1.49	1.79	6.80	8.38	12.99	16.09	17.93	5.37	1.82	0.69	0.05	0.00	73.39 MCM
Momentary Peak	35.50 CMS. at 192.28 m. (MSL.) at 06.00 Hours , on Jul 23 , 2009												
Runoff Yield	32.78 Liters/Second/Square KM.			Momentary Peak Yield			500.000 Liters/Second/Square KM.						

WATER YEAR : 2009

TONLE SAP BASIN

Khlong Ta Khlong at Ban Khlong Ta Khong , Chanthaburi (TI.4)

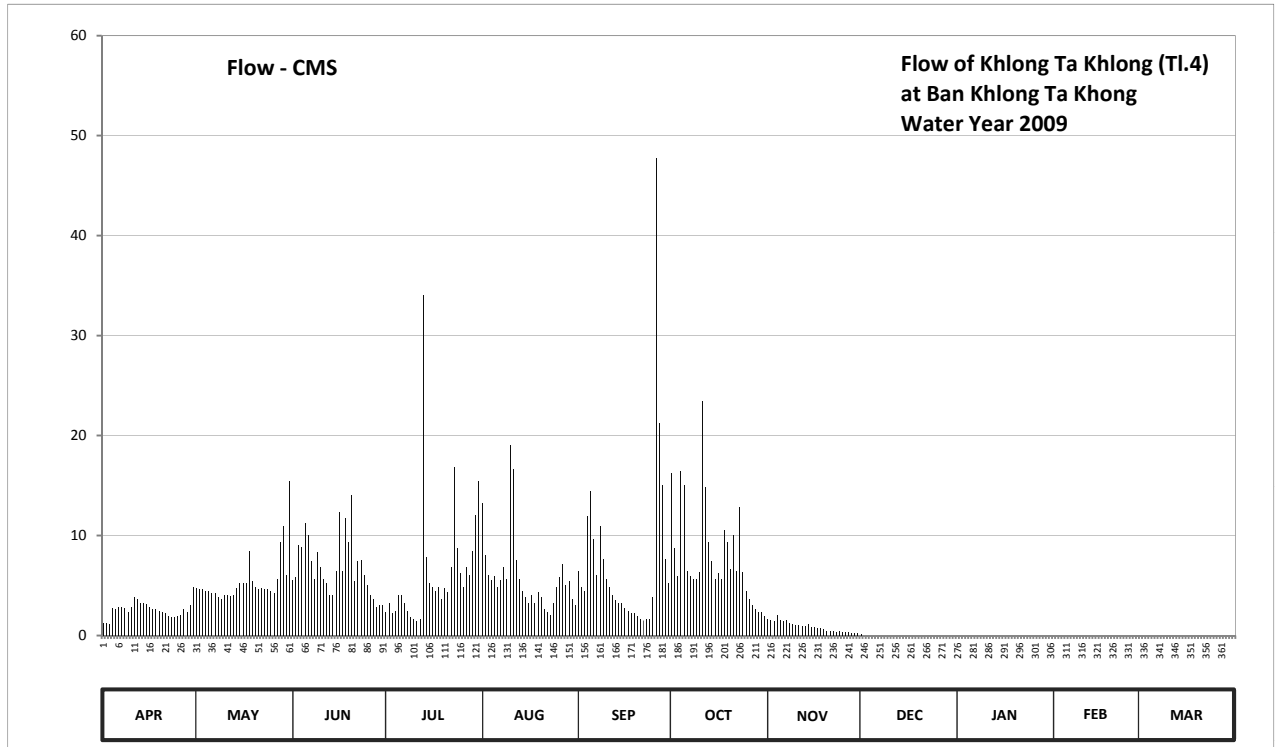
Lat 12 - 55 - 02 N Long 102 - 19 - 30 E

Location : on left bank downstream from the bridge of Amphoe Pong Nam Ron - Ban Pong Nam Ron.

	Ban	Khlong Ta Khong	Amphoe	Pong Nam Ron	Changwat	Chanthaburi
Drainage Area	86	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+176.800 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 30 meters from the top staff gage.				Elevation	+186.762 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Flow effected by the local weir. Stage-discharge relation defined by 22 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.85	178.22	178.30	177.98	178.85	178.39	179.01	177.92	177.63	177.44	177.74	177.51	
2	177.84	178.21	178.33	178.07	178.50	178.24	178.55	177.90	177.60	177.44	177.74	177.48	
3	177.83	178.21	178.57	177.97	178.36	178.20	178.34	177.88	177.60	177.44	178.04	177.47	
4	178.02	178.19	178.56	178.00	178.30	178.76	179.02	177.95	177.60	177.44	178.05	177.45	
5	178.01	178.19	178.72	178.16	178.34	178.92	178.95	177.90	177.60	177.43	177.97	177.43	
6	178.04	178.17	178.64	178.15	178.24	178.61	178.39	177.88	177.60	177.44	177.91	177.41	
7	178.03	178.17	178.46	178.07	178.30	178.35	178.34	177.90	177.60	177.44	177.90	177.38	
8	178.02	178.13	178.32	177.99	178.42	178.70	178.31	177.85	177.60	177.45	177.89	177.35	
9	177.98	178.12	178.52	177.93	178.31	178.48	178.32	177.83	177.60	177.46	177.88	177.33	
10	178.03	178.15	178.42	177.91	179.15	178.31	178.38	177.81	177.59	177.46	177.86	177.30	
11	178.13	178.15	178.31	177.88	179.03	178.23	179.37	177.80	177.58	177.46	177.85	177.28	
12	178.11	178.14	178.27	177.92	178.47	178.16	178.94	177.79	177.57	177.40	177.79	177.27	
13	178.08	178.16	178.15	179.80	178.31	178.10	178.59	177.79	177.56	177.35	177.76	177.26	
14	178.08	178.22	178.15	178.49	178.20	178.08	178.46	177.82	177.55	177.29	177.76	177.25	
15	178.06	178.27	178.39	178.27	178.13	178.07	178.32	177.76	177.55	177.27	177.76	177.24	
16	178.04	178.27	178.79	178.24	178.08	178.02	178.37	177.77	177.55	177.27	177.73	177.23	
17	178.01	178.28	178.40	178.20	178.15	178.00	178.32	177.75	177.55	177.27	177.72	177.22	
18	178.01	178.53	178.75	178.23	178.07	177.97	178.67	177.74	177.56	177.27	177.71	177.21	
19	178.00	178.29	178.59	178.11	178.18	177.97	178.59	177.72	177.56	177.24	177.70	177.21	
20	177.98	178.23	178.90	178.22	178.13	177.94	178.41	177.70	177.56	177.24	177.69	177.20	
21	177.97	178.21	178.29	178.18	178.01	177.91	178.64	177.69	177.56	177.27	177.66	177.20	
22	177.94	178.22	178.46	178.42	177.98	177.90	178.40	177.69	177.56	177.29	177.65	177.19	
23	177.93	178.21	178.47	179.04	177.95	177.91	178.82	177.67	177.56	177.30	177.63	177.19	
24	177.93	178.21	178.36	178.55	178.08	177.91	178.38	177.68	177.56	177.31	177.60	177.19	
25	177.94	178.20	178.25	178.37	178.23	178.13	178.20	177.67	177.56	177.31	177.58	177.18	
26	177.95	178.17	178.15	178.23	178.33	180.31	178.11	177.66	177.56	177.35	177.58	177.18	
27	178.01	178.31	178.11	178.42	178.44	179.26	178.05	177.66	177.56	177.35	177.55	177.22	
28	177.98	178.59	178.03	178.36	178.25	178.95	178.01	177.65	177.55	177.35	177.54	177.21	
29	178.05	178.70	178.05	178.53	178.29	178.48	177.98	177.65	177.50	177.34		177.21	
30	178.23	178.36	178.05	178.77	178.11	178.28	177.98	177.64	177.50	177.45		177.20	
31		178.97		178.97	178.05		177.94		177.50	177.60		177.18	
Mean	178.00	178.27	178.39	178.30	178.30	178.35	178.46	177.77	177.57	177.37	177.76	177.28	
Max	178.23	178.97	178.90	179.80	179.15	180.31	179.37	177.95	177.63	177.60	178.05	177.51	180.31
Min	177.83	178.12	178.03	177.88	177.95	177.90	177.94	177.64	177.50	177.24	177.54	177.18	177.18
Annual Max Momentary Gage Height	182.14		m. (MSL.) ,				at 05.00 Hours , on Sep 26 , 2009						
Zero Gage at Bottom Elevation	176.80		m. (MSL.) ,			River Bed	176.49		m. (MSL)				
Left Bank Elevation		186.10		m. (MSL.) ,									
Right Bank Elevation		186.00		m. (MSL.) ,		Drainage Area	86		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	4.70	5.50	2.30	13.25	6.40	16.20	1.70	0.15	0.00	0.00	0.00	
2	1.20	4.60	5.80	3.20	8.00	4.90	8.75	1.50	0.00	0.00	0.00	0.00	
3	1.15	4.60	9.05	2.20	6.10	4.50	5.90	1.40	0.00	0.00	0.00	0.00	
4	2.70	4.40	8.90	2.50	5.50	11.90	16.40	2.00	0.00	0.00	0.00	0.00	
5	2.60	4.40	11.30	4.10	5.90	14.40	15.00	1.50	0.00	0.00	0.00	0.00	
6	2.90	4.20	10.10	4.00	4.90	9.65	6.40	1.40	0.00	0.00	0.00	0.00	
7	2.80	4.20	7.40	3.20	5.50	6.00	5.90	1.50	0.00	0.00	0.00	0.00	
8	2.70	3.80	5.70	2.40	6.80	11.00	5.60	1.25	0.00	0.00	0.00	0.00	
9	2.30	3.70	8.30	1.80	5.60	7.70	5.70	1.15	0.00	0.00	0.00	0.00	
10	2.80	4.00	6.80	1.60	19.00	5.60	6.30	1.05	0.00	0.00	0.00	0.00	
11	3.80	4.00	5.60	1.40	16.60	4.80	23.40	1.00	0.00	0.00	0.00	0.00	
12	3.60	3.90	5.20	1.70	7.55	4.10	14.80	0.95	0.00	0.00	0.00	0.00	
13	3.30	4.10	4.00	34.00	5.60	3.50	9.35	0.95	0.00	0.00	0.00	0.00	
14	3.30	4.70	4.00	7.85	4.50	3.30	7.40	1.10	0.00	0.00	0.00	0.00	
15	3.10	5.20	6.40	5.20	3.80	3.20	5.70	0.80	0.00	0.00	0.00	0.00	
16	2.90	5.20	12.35	4.90	3.30	2.70	6.20	0.85	0.00	0.00	0.00	0.00	
17	2.60	5.30	6.50	4.50	4.00	2.50	5.70	0.75	0.00	0.00	0.00	0.00	
18	2.60	8.45	11.75	4.80	3.20	2.20	10.55	0.70	0.00	0.00	0.00	0.00	
19	2.50	5.40	9.35	3.60	4.30	2.20	9.35	0.60	0.00	0.00	0.00	0.00	
20	2.30	4.80	14.00	4.70	3.80	1.90	6.65	0.50	0.00	0.00	0.00	0.00	
21	2.20	4.60	5.40	4.30	2.60	1.60	10.10	0.45	0.00	0.00	0.00	0.00	
22	1.90	4.70	7.40	6.80	2.30	1.50	6.50	0.45	0.00	0.00	0.00	0.00	
23	1.80	4.60	7.55	16.80	2.00	1.60	12.80	0.35	0.00	0.00	0.00	0.00	
24	1.80	4.60	6.10	8.75	3.30	1.60	6.30	0.40	0.00	0.00	0.00	0.00	
25	1.90	4.50	5.00	6.20	4.80	3.80	4.50	0.35	0.00	0.00	0.00	0.00	
26	2.00	4.20	4.00	4.80	5.80	47.80	3.60	0.30	0.00	0.00	0.00	0.00	
27	2.60	5.60	3.60	6.80	7.10	21.20	3.00	0.30	0.00	0.00	0.00	0.00	
28	2.30	9.35	2.80	6.10	5.00	15.00	2.60	0.25	0.00	0.00	0.00	0.00	
29	3.00	11.00	3.00	8.45	5.40	7.70	2.30	0.25	0.00	0.00	0.00	0.00	
30	4.80	6.10	3.00	12.05	3.60	5.30	2.30	0.20	0.00	0.00	0.00	0.00	
31		15.40		15.40	3.00		1.90		0.00	0.00		0.00	
Total	76.70	168.30	205.85	196.40	182.10	219.55	247.15	25.95	0.15	0.00	0.00	0.00	1322.15 CMSDAY
Mean	2.56	5.43	6.86	6.34	5.87	7.32	7.97	0.87	0.00	0.00	0.00	0.00	3.62 CMS
Max	4.80	15.40	14.00	34.00	19.00	47.80	23.40	2.00	0.15	0.00	0.00	0.00	47.80 CMS
Min	1.15	3.70	2.80	1.40	2.00	1.50	1.90	0.20	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	6.63	14.54	17.79	16.97	15.73	18.97	21.35	2.24	0.01	0.00	0.00	0.00	114.23 MCM
Momentary Peak	115.30 CMS. at 182.14 m. (MSL.) at 05.00 Hours , on Sep 26 , 2009												
Runoff Yield	42.12 Liters/Second/Square KM.			Momentary Peak Yield				1340,698 Liters/Second/Square KM.					

WATER YEAR : 2009

TONLE SAP BASIN

Khlong Thung Krang at Ban Thung Krang , Chanthaburi (Tl.6)

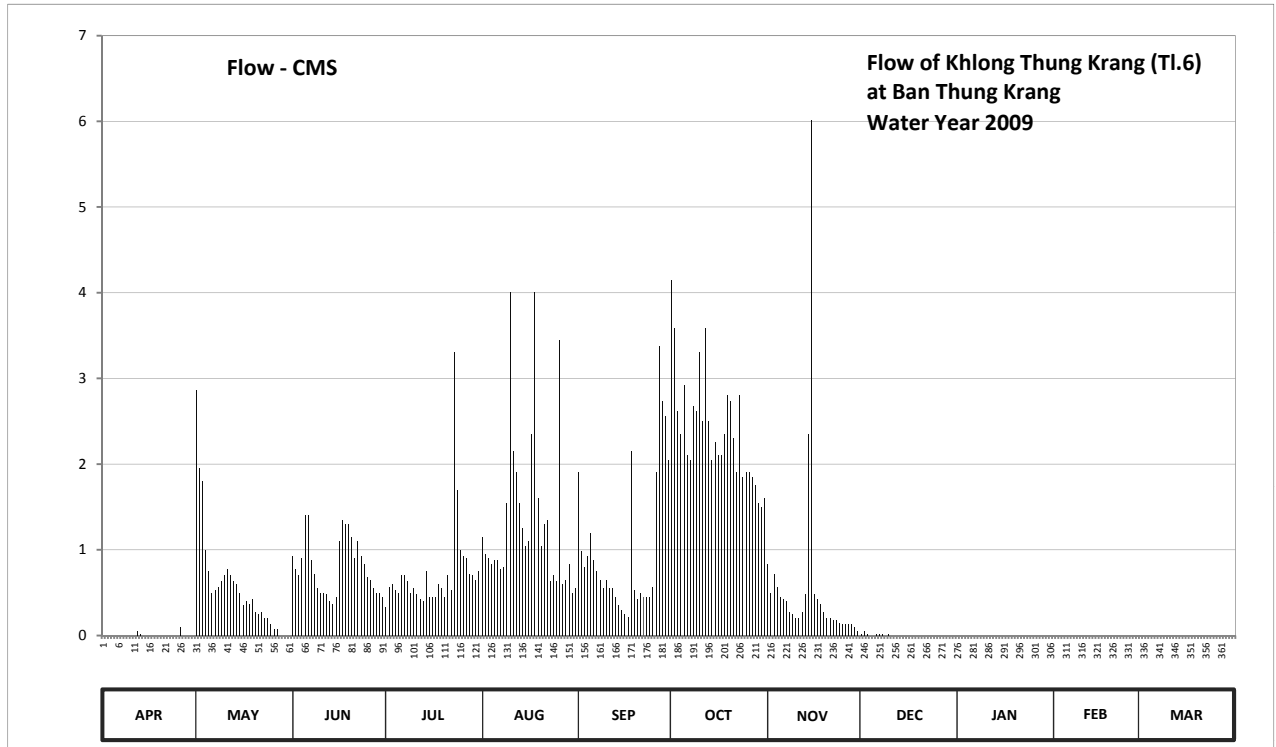
Lat 13 - 01 - 36 N Long 102 - 16 - 21 E

Location : on right bank at the bridge of Chanthaburi - Sa Kaeo Highway.

	Ban Thung Krang	Amphoe Pong Nam Ron	Changwat Chanthaburi
Drainage Area	42 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+183.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 20 meters from the top staff gage.	Elevation	+187.655 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 means of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.41	184.26	183.87	183.63	183.93	184.08	184.45	183.83	183.51	183.44	183.40	183.35	
2	183.41	184.09	183.81	183.73	183.88	183.89	184.37	183.70	183.52	183.43	183.40	183.34	
3	183.40	184.06	183.78	183.74	183.86	183.82	184.22	183.79	183.51	183.43	183.39	183.35	
4	183.39	183.90	183.86	183.71	183.83	183.87	184.17	183.73	183.50	183.42	183.38	183.34	
5	183.43	183.80	183.98	183.70	183.85	183.94	184.27	183.68	183.50	183.42	183.42	183.34	
6	183.45	183.70	183.98	183.78	183.85	183.85	184.12	183.67	183.51	183.42	183.41	183.35	
7	183.43	183.71	183.85	183.78	183.81	183.80	184.11	183.66	183.51	183.41	183.40	183.34	
8	183.44	183.73	183.79	183.75	183.82	183.76	184.23	183.61	183.51	183.42	183.40	183.33	
9	183.41	183.75	183.72	183.70	184.01	183.72	184.22	183.60	183.50	183.42	183.40	183.33	
10	183.49	183.78	183.70	183.72	184.43	183.76	184.33	183.58	183.51	183.41	183.39	183.32	
11	183.50	183.81	183.70	183.69	184.13	183.72	184.20	183.58	183.50	183.41	183.39	183.32	
12	183.52	183.78	183.69	183.67	184.08	183.72	184.37	183.61	183.50	183.41	183.38	183.31	
13	183.51	183.75	183.66	183.66	184.01	183.68	184.20	183.69	183.50	183.40	183.38	183.31	
14	183.50	183.74	183.65	183.80	183.95	183.64	184.11	184.17	183.49	183.40	183.39	183.30	
15	183.49	183.70	183.68	183.68	183.91	183.62	184.15	184.69	183.50	183.40	183.42	183.30	
16	183.48	183.64	183.92	183.68	183.92	183.60	184.12	183.69	183.49	183.39	183.42	183.30	
17	183.46	183.66	183.97	183.68	184.17	183.59	184.12	183.67	183.49	183.39	183.41	183.30	
18	183.45	183.65	183.96	183.74	184.43	184.13	184.17	183.65	183.49	183.39	183.41	183.29	
19	183.44	183.67	183.96	183.72	184.02	183.71	184.25	183.61	183.48	183.39	183.40	183.29	
20	183.42	183.61	183.93	183.68	183.91	183.67	184.24	183.58	183.48	183.38	183.40	183.29	
21	183.40	183.60	183.86	183.78	183.96	183.70	184.16	183.58	183.48	183.39	183.40	183.29	
22	183.41	183.61	183.92	183.71	183.97	183.68	184.08	183.57	183.48	183.40	183.40	183.29	
23	183.40	183.58	183.87	184.33	183.75	183.68	184.25	183.57	183.48	183.41	183.40	183.28	
24	183.46	183.58	183.83	184.04	183.78	183.68	184.07	183.56	183.48	183.41	183.40	183.28	
25	183.50	183.55	183.77	183.90	183.75	183.73	184.08	183.55	183.47	183.40	183.40	183.28	
26	183.54	183.53	183.76	183.87	184.35	184.08	184.08	183.55	183.47	183.43	183.40	183.40	
27	183.50	183.53	183.72	183.86	183.74	184.34	184.07	183.55	183.47	183.39	183.40	183.46	
28	183.49	183.50	183.70	183.79	183.76	184.24	184.05	183.55	183.46	183.40	183.40	183.46	
29	183.48	183.50	183.70	183.78	183.83	184.21	184.01	183.54	183.45	183.41		183.46	
30	183.46	183.50	183.68	183.76	183.70	184.11	184.00	183.52	183.45	183.41		183.46	
31		183.50		183.80	183.72		184.02		183.45	183.40		183.46	
Mean	183.46	183.70	183.81	183.77	183.94	183.83	184.17	183.68	183.49	183.41	183.40	183.34	
Max	183.54	184.26	183.98	184.33	184.43	184.34	184.45	184.69	183.52	183.44	183.42	183.46	184.69
Min	183.39	183.50	183.65	183.63	183.70	183.59	184.00	183.52	183.45	183.38	183.38	183.28	183.28
Annual Max Momentary Gage Height	185.20		m. (MSL.) ,				at 18.00 Hours , on Aug 26 , 2009						
Zero Gage at Bottom Elevation	183.10		m. (MSL.) ,			River Bed	182.67	m. (MSL)					
Left Bank Elevation		187.42		m. (MSL.) ,									
Right Bank Elevation		187.40		m. (MSL.) ,		Drainage Area	42	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.86	0.93	0.33	1.15	1.90	4.15	0.83	0.02	0.00	0.00	0.00	
2	0.00	1.95	0.78	0.57	0.95	0.98	3.59	0.50	0.05	0.00	0.00	0.00	
3	0.00	1.80	0.70	0.60	0.90	0.80	2.62	0.72	0.02	0.00	0.00	0.00	
4	0.00	1.00	0.90	0.53	0.83	0.93	2.35	0.57	0.00	0.00	0.00	0.00	
5	0.00	0.75	1.40	0.50	0.88	1.20	2.92	0.45	0.00	0.00	0.00	0.00	
6	0.00	0.50	1.40	0.70	0.88	0.88	2.10	0.42	0.02	0.00	0.00	0.00	
7	0.00	0.53	0.88	0.70	0.78	0.75	2.05	0.40	0.02	0.00	0.00	0.00	
8	0.00	0.57	0.72	0.63	0.80	0.65	2.68	0.27	0.02	0.00	0.00	0.00	
9	0.00	0.63	0.55	0.50	1.55	0.55	2.62	0.25	0.00	0.00	0.00	0.00	
10	0.00	0.70	0.50	0.55	4.01	0.65	3.31	0.20	0.02	0.00	0.00	0.00	
11	0.00	0.78	0.50	0.48	2.15	0.55	2.50	0.20	0.00	0.00	0.00	0.00	
12	0.05	0.70	0.48	0.42	1.90	0.55	3.59	0.27	0.00	0.00	0.00	0.00	
13	0.02	0.63	0.40	0.40	1.55	0.45	2.50	0.48	0.00	0.00	0.00	0.00	
14	0.00	0.60	0.37	0.75	1.25	0.35	2.05	2.35	0.00	0.00	0.00	0.00	
15	0.00	0.50	0.45	0.45	1.05	0.30	2.25	6.02	0.00	0.00	0.00	0.00	
16	0.00	0.35	1.10	0.45	1.10	0.25	2.10	0.48	0.00	0.00	0.00	0.00	
17	0.00	0.40	1.35	0.45	2.35	0.22	2.10	0.42	0.00	0.00	0.00	0.00	
18	0.00	0.37	1.30	0.60	4.01	2.15	2.35	0.37	0.00	0.00	0.00	0.00	
19	0.00	0.42	1.30	0.55	1.60	0.53	2.80	0.27	0.00	0.00	0.00	0.00	
20	0.00	0.27	1.15	0.45	1.05	0.42	2.74	0.20	0.00	0.00	0.00	0.00	
21	0.00	0.25	0.90	0.70	1.30	0.50	2.30	0.20	0.00	0.00	0.00	0.00	
22	0.00	0.27	1.10	0.53	1.35	0.45	1.90	0.18	0.00	0.00	0.00	0.00	
23	0.00	0.20	0.93	3.31	0.63	0.45	2.80	0.18	0.00	0.00	0.00	0.00	
24	0.00	0.20	0.83	1.70	0.70	0.45	1.85	0.15	0.00	0.00	0.00	0.00	
25	0.00	0.13	0.68	1.00	0.63	0.57	1.90	0.13	0.00	0.00	0.00	0.00	
26	0.10	0.07	0.65	0.93	3.45	1.90	1.90	0.13	0.00	0.00	0.00	0.00	
27	0.00	0.07	0.55	0.90	0.60	3.38	1.85	0.13	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.50	0.72	0.65	2.74	1.75	0.13	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.50	0.70	0.83	2.56	1.55	0.10	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.45	0.65	0.50	2.05	1.50	0.05	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.75	0.55	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.17	17.50	24.25	22.50	41.90	30.11	74.27	17.05	0.17	0.00	0.00	0.00	227.95 CMSDAY
Mean	0.01	0.56	0.81	0.73	1.35	1.00	2.40	0.57	0.01	0.00	0.00	0.00	0.62 CMS
Max	0.10	2.86	1.40	3.31	4.01	3.38	4.15	6.02	0.05	0.00	0.00	0.00	6.02 CMS
Min	0.00	0.00	0.37	0.33	0.50	0.22	1.50	0.05	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.02	1.51	2.10	1.94	3.62	2.60	6.42	1.47	0.02	0.00	0.00	0.00	19.70 MCM
Momentary Peak	10.60 CMS. at 185.20 m. (MSL.) at 18.00 Hours , on Aug 26 , 2009												
Runoff Yield	14.87 Liters/Second/Square KM.			Momentary Peak Yield			252.381 Liters/Second/Square KM.						

WATER YEAR : 2009

EAST COAST - GULF BASIN

Khlong Yai at Ban Si Bua Thong , Trat (Z.10)

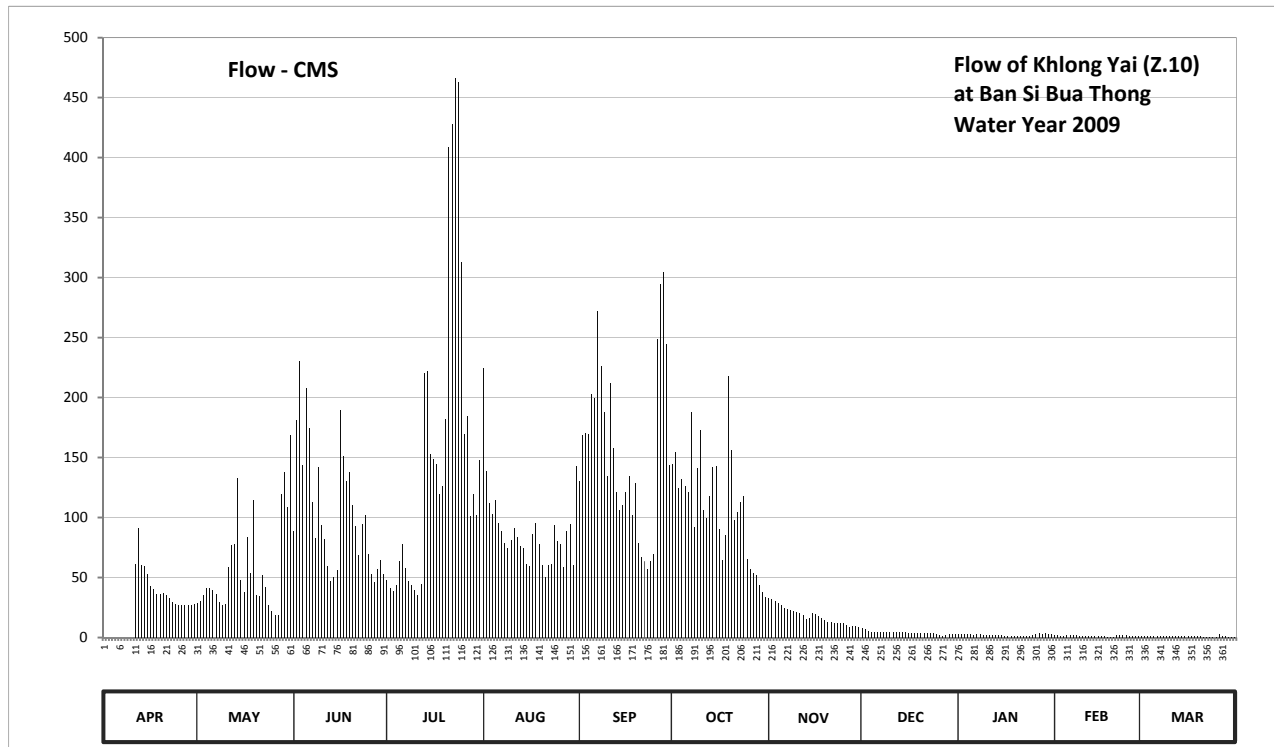
Lat 12 - 28 - 24 N Long 102 - 28 - 49 E

Location : on left bank at Ban Si Bua Thong

	Ban Si Bua Thong	Amphoe Khao Saming	Changwat Trat
Drainage Area	779 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+1.901 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near automatic gage building.	Elevation	+13.181 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 means of 5 readings		
Period of Available Gage Records	1970 to date		
Rating Operation			
Period of Rating	1973 - 1978 , 1999 to date		
Rated by Flot	-		
Rated by Current Meter	1973 - 1978 , 1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records fair. Stage-discharge relation defined by 54 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.81	4.62	6.34	5.25	9.10	7.26	7.57	4.77	3.83	3.52	3.42	3.26	
2	4.77	4.67	8.31	5.03	7.45	8.08	7.79	4.74	3.80	3.51	3.34	3.24	
3	4.68	4.85	9.21	4.95	6.86	8.10	7.14	4.68	3.70	3.51	3.31	3.25	
4	4.62	5.05	7.56	5.11	6.65	8.09	7.30	4.63	3.63	3.48	3.30	3.25	
5	4.92	5.05	8.80	5.70	6.91	8.70	7.16	4.56	3.62	3.45	3.36	3.24	
6	4.89	4.99	8.18	6.07	6.48	8.65	7.06	4.48	3.67	3.44	3.38	3.23	
7	4.88	4.88	6.87	5.53	6.34	10.29	8.43	4.44	3.66	3.47	3.34	3.23	
8	4.94	4.65	6.20	5.21	6.09	9.13	6.42	4.42	3.65	3.45	3.33	3.22	
9	4.89	4.56	7.53	5.11	5.99	8.43	7.51	4.38	3.66	3.43	3.31	3.22	
10	4.89	4.60	6.46	4.99	6.15	7.35	8.16	4.34	3.66	3.40	3.28	3.22	
11	5.63	5.55	6.17	4.85	6.39	8.88	6.72	4.32	3.66	3.39	3.26	3.21	
12	6.39	6.06	5.57	5.14	6.23	7.85	6.58	4.24	3.65	3.38	3.24	3.20	
13	5.60	6.08	5.21	9.02	6.03	7.06	6.98	4.13	3.65	3.35	3.22	3.19	
14	5.57	7.31	5.30	9.06	6.00	6.72	7.52	4.15	3.64	3.35	3.21	3.19	
15	5.38	5.25	5.47	7.75	5.62	6.83	7.54	4.30	3.63	3.33	3.22	3.19	
16	5.10	4.93	8.46	7.67	5.57	7.06	6.38	4.29	3.60	3.31	3.20	3.18	
17	5.02	6.23	7.72	7.57	6.29	7.35	5.71	4.23	3.59	3.30	3.17	3.18	
18	4.88	5.41	7.26	7.02	6.49	6.64	6.27	4.16	3.57	3.28	3.12	3.18	
19	4.88	6.92	7.43	7.16	6.07	7.23	8.98	4.07	3.55	3.27	3.11	3.17	
20	4.89	4.85	6.83	8.32	5.61	6.09	7.82	4.01	3.55	3.29	3.11	3.17	
21	4.84	4.81	6.43	12.00	5.31	5.80	6.55	4.00	3.55	3.31	3.36	3.16	
22	4.75	5.37	5.84	12.28	5.60	5.69	6.70	3.99	3.55	3.32	3.36	3.16	
23	4.65	5.08	6.47	12.83	5.63	5.51	6.88	3.98	3.54	3.30	3.34	3.15	
24	4.59	4.58	6.64	12.78	6.45	5.68	6.98	3.99	3.54	3.28	3.34	3.16	
25	4.58	4.39	5.86	11.04	6.14	5.86	5.73	3.97	3.52	3.33	3.30	3.16	
26	4.57	4.26	5.39	8.09	6.07	9.68	5.50	3.93	3.38	3.51	3.28	3.47	
27	4.57	4.25	5.20	8.38	5.56	10.86	5.41	3.86	3.26	3.55	3.27	3.32	
28	4.56	7.03	5.51	6.62	6.33	10.97	5.35	3.87	3.37	3.52	3.27	3.23	
29	4.57	7.42	5.71	7.02	6.47	9.57	5.11	3.87	3.45	3.54		3.16	
30	4.60	6.79	5.38	6.64	5.59	7.56	4.94	3.85	3.47	3.49		3.11	
31		8.08		7.66	7.54		4.80		3.46	3.47		3.06	
Mean	4.93	5.44	6.64	7.48	6.29	7.77	6.74	4.22	3.58	3.40	3.28	3.21	
Max	6.39	8.08	9.21	12.83	9.10	10.97	8.98	4.77	3.83	3.55	3.42	3.47	12.83
Min	4.56	4.25	5.20	4.85	5.31	5.51	4.80	3.85	3.26	3.27	3.11	3.06	3.06
Annual Max Momentary Gage Height	12.97		m. (MSL.) ,				at 18.00 Hours, on Jul 23, 2009						
Zero Gage at Bottom Elevation	1.90		m. (MSL.) ,			River Bed	2.05	m. (MSL)					
Left Bank Elevation	15.93		m. (MSL.) ,										
Right Bank Elevation	15.94		m. (MSL.) ,			Drainage Area	779	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	28.60	88.80	48.25	224.50	130.20	144.15	33.10	8.25	3.20	2.20	1.30	
2	0.00	30.10	181.05	40.90	138.75	169.00	154.50	32.20	7.50	3.10	1.70	1.20	
3	0.00	35.50	230.39	38.50	112.20	170.00	124.80	30.40	5.00	3.10	1.55	1.25	
4	0.00	41.50	143.70	43.35	102.75	169.50	132.00	28.90	4.30	2.80	1.50	1.25	
5	0.00	41.50	208.00	64.00	114.45	202.50	125.70	26.80	4.20	2.50	1.80	1.20	
6	0.00	39.70	174.00	77.80	95.10	199.75	121.20	24.50	4.70	2.40	1.90	1.15	
7	0.00	36.40	112.65	58.05	88.80	272.32	187.65	23.50	4.60	2.70	1.70	1.15	
8	0.00	29.50	83.00	46.85	78.60	226.15	92.40	23.00	4.50	2.50	1.65	1.10	
9	0.00	26.80	142.35	43.35	74.60	187.65	141.45	22.00	4.60	2.30	1.55	1.10	
10	0.00	28.00	94.20	39.70	81.00	134.25	173.00	21.00	4.60	2.00	1.40	1.10	
11	61.55	58.75	81.80	35.50	91.05	212.40	105.90	20.50	4.60	1.95	1.30	1.05	
12	91.05	77.40	59.45	44.40	84.20	157.50	99.60	18.50	4.50	1.90	1.20	1.00	
13	60.50	78.20	46.85	220.10	76.20	121.20	117.60	15.75	4.50	1.75	1.10	0.95	
14	59.45	132.45	50.00	222.30	75.00	105.90	141.90	16.25	4.40	1.75	1.05	0.95	
15	52.80	48.25	55.95	152.50	61.20	110.85	142.80	20.00	4.30	1.65	1.10	0.95	
16	43.00	37.90	189.30	148.65	59.45	121.20	90.60	19.75	4.00	1.55	1.00	0.90	
17	40.60	84.20	151.00	144.15	86.60	134.25	64.35	18.25	3.90	1.50	0.85	0.90	
18	36.40	53.85	130.20	119.40	95.55	102.30	85.80	16.50	3.70	1.40	0.60	0.90	
19	36.40	114.90	137.85	125.70	77.80	128.85	217.90	14.25	3.50	1.35	0.55	0.85	
20	36.70	35.50	110.85	181.60	60.85	78.60	156.00	12.75	3.50	1.45	0.55	0.85	
21	35.20	34.30	92.85	408.50	50.35	67.50	98.25	12.50	3.50	1.55	1.80	0.80	
22	32.50	52.45	68.90	428.10	60.50	63.65	105.00	12.25	3.50	1.60	1.80	0.80	
23	29.50	42.40	94.65	466.60	61.55	57.35	113.10	12.00	3.40	1.50	1.70	0.75	
24	27.70	27.40	102.30	463.10	93.75	63.30	117.60	12.25	3.40	1.40	1.70	0.80	
25	27.40	22.25	69.60	312.90	80.60	69.60	65.05	11.75	3.20	1.65	1.50	0.80	
26	27.10	19.00	53.15	169.50	77.80	248.64	57.00	10.75	1.90	3.10	1.40	2.70	
27	27.10	18.75	46.50	184.90	59.10	294.45	53.85	9.00	1.30	3.50	1.35	1.60	
28	26.80	119.85	57.35	101.40	88.35	304.45	51.75	9.25	1.85	3.20	1.35	1.15	
29	27.10	137.40	64.35	119.40	94.65	244.36	43.35	9.25	2.50	3.40		0.80	
30	28.00	109.05	52.80	102.30	60.15	143.70	38.20	8.75	2.70	2.90		0.55	
31		169.00		148.20	142.80		34.00		2.60	2.70		0.30	
Total	806.85	1810.85	3173.84	4799.95	2748.25	4691.37	3396.45	545.65	123.00	69.35	38.85	32.15	22236.56 CMSDAY
Mean	26.89	58.41	105.79	154.84	88.65	156.38	109.56	18.19	3.97	2.24	1.39	1.04	60.92 CMS
Max	91.05	169.00	230.39	466.60	224.50	304.45	217.90	33.10	8.25	3.50	2.20	2.70	466.60 CMS
Min	0.00	18.75	46.50	35.50	50.35	57.35	34.00	8.75	1.30	1.35	0.55	0.30	0.00 CMS
Runoff	69.71	156.46	274.22	414.72	237.45	405.33	293.45	47.14	10.63	5.99	3.36	2.78	1921.24 MCM
Momentary Peak	476.40 CMS, at 12.97 m. (MSL), at 18.00 Hours, on Jul 23, 2009												
Runoff Yield	78.21 Liters/Second/Square KM.			Momentary Peak Yield			611.553 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Prasae at Ban Chak Khrok , Rayong (Z.11)

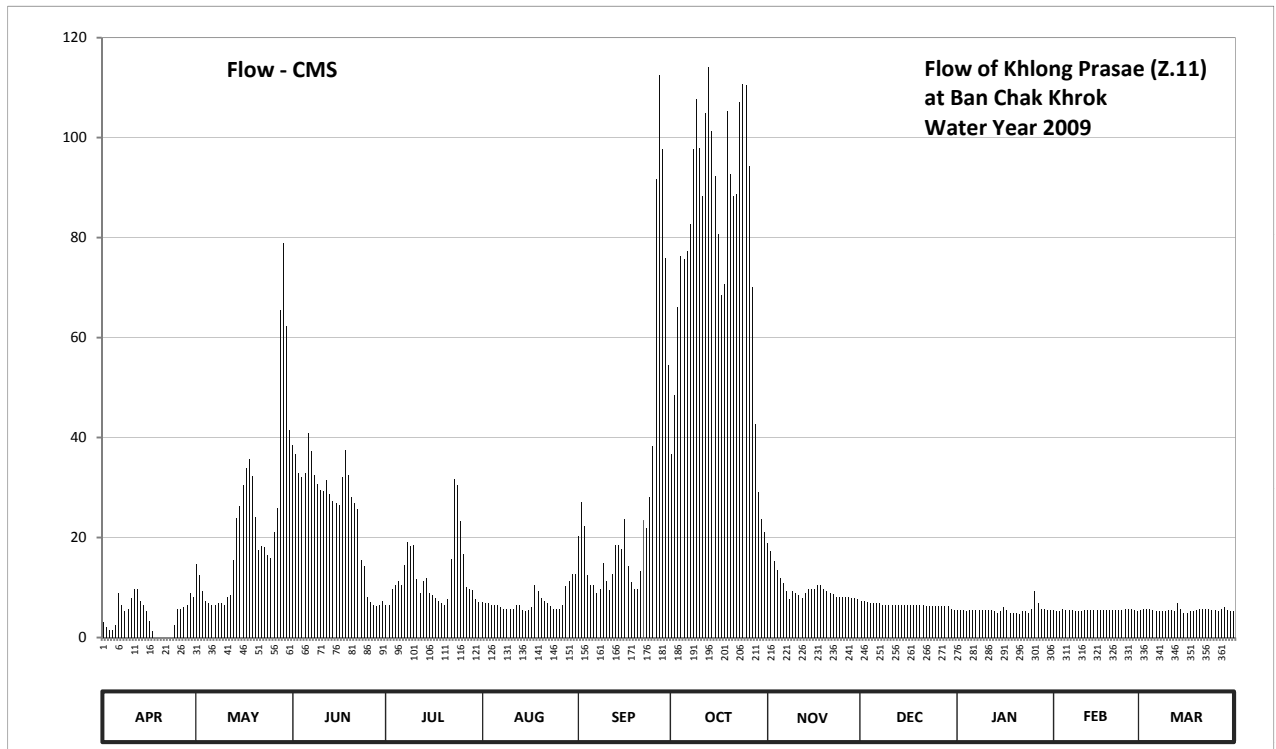
Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

	Ban	Chak Khrok	Amphoe	Klaeng	Changwat	Rayong
Drainage Area	1,236	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+2.630	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the Meteorological Station.				Elevation	+13.420 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1965 - 1974 , 1989 to date					
Rating Operation						
Period of Rating	1989 to date					
Rated by Flot	-					
Rated by Current Meter	1989 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow					
General Description	Records fair. Flow effectedn by the concrete weir about 7 kilometers downstream and 5 kilometers above gage site. Stage-discharge relation defined by 54 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.55	5.12	6.12	4.73	4.75	5.38	6.05	5.31	4.77	4.67	4.67	4.67	
2	4.50	5.02	6.05	4.73	4.74	5.67	6.49	5.24	4.77	4.67	4.66	4.68	
3	4.47	4.86	5.90	4.88	4.74	5.47	7.09	5.15	4.75	4.67	4.66	4.68	
4	4.47	4.77	5.87	4.92	4.73	5.02	7.42	5.07	4.74	4.66	4.69	4.68	
5	4.52	4.74	5.90	4.97	4.73	4.92	7.40	4.99	4.74	4.67	4.67	4.67	
6	4.84	4.72	6.21	4.93	4.72	4.93	7.45	4.94	4.74	4.67	4.67	4.66	
7	4.72	4.72	6.07	5.11	4.70	4.85	7.62	4.86	4.74	4.67	4.67	4.66	
8	4.66	4.74	5.89	5.32	4.69	4.89	8.08	4.78	4.73	4.67	4.66	4.66	
9	4.69	4.74	5.82	5.29	4.68	5.13	8.38	4.86	4.73	4.67	4.66	4.66	
10	4.79	4.73	5.77	5.30	4.68	4.96	8.09	4.84	4.73	4.67	4.66	4.67	
11	4.89	4.81	5.76	4.98	4.69	4.87	7.80	4.82	4.73	4.67	4.67	4.67	
12	4.88	4.82	5.85	4.85	4.73	5.03	8.30	4.79	4.73	4.67	4.67	4.66	
13	4.77	5.16	5.74	4.96	4.72	5.30	8.57	4.84	4.72	4.66	4.67	4.74	
14	4.72	5.54	5.68	4.99	4.67	5.30	8.19	4.88	4.72	4.65	4.67	4.68	
15	4.66	5.64	5.66	4.84	4.66	5.26	7.92	4.89	4.72	4.66	4.67	4.65	
16	4.57	5.81	5.65	4.82	4.67	5.53	7.56	4.89	4.72	4.70	4.67	4.65	
17	4.46	5.94	5.87	4.79	4.70	5.10	7.17	4.93	4.72	4.67	4.67	4.66	
18	4.33	6.01	6.08	4.76	4.93	4.95	7.24	4.92	4.72	4.65	4.67	4.66	
19	4.22	5.88	5.89	4.74	4.86	4.89	8.31	4.89	4.72	4.65	4.67	4.67	
20	4.12	5.55	5.71	4.73	4.79	4.88	7.93	4.86	4.72	4.64	4.67	4.68	
21	4.05	5.25	5.66	4.78	4.77	5.06	7.80	4.84	4.72	4.63	4.67	4.68	
22	4.08	5.29	5.61	5.17	4.74	5.52	7.81	4.83	4.71	4.66	4.67	4.68	
23	4.15	5.28	5.16	5.86	4.71	5.45	8.36	4.81	4.71	4.66	4.67	4.68	
24	4.52	5.20	5.10	5.81	4.69	5.71	8.47	4.80	4.71	4.65	4.68	4.67	
25	4.69	5.18	4.81	5.51	4.69	6.11	8.46	4.81	4.71	4.68	4.68	4.67	
26	4.69	5.41	4.75	5.21	4.69	7.90	7.98	4.80	4.71	4.86	4.68	4.66	
27	4.70	5.62	4.73	4.90	4.73	8.52	7.22	4.80	4.71	4.74	4.67	4.69	
28	4.73	7.07	4.71	4.88	4.91	8.08	6.28	4.79	4.71	4.69	4.66	4.70	
29	4.84	7.50	4.73	4.87	4.97	7.41	5.75	4.79	4.71	4.68		4.67	
30	4.81	6.96	4.76	4.78	5.03	6.70	5.53	4.78	4.69	4.67		4.66	
31		6.23		4.75	5.03		5.41		4.67	4.67		4.66	
Mean	4.57	5.43	5.58	5.01	4.76	5.63	7.49	4.89	4.72	4.67	4.67	4.67	
Max	4.89	7.50	6.21	5.86	5.03	8.52	8.57	5.31	4.77	4.86	4.69	4.74	8.57
Min	4.05	4.72	4.71	4.73	4.66	4.85	5.41	4.78	4.67	4.63	4.66	4.65	4.05
Annual Max Momentary Gage Height	8.61		m. (MSL.) ,				at 06.00 Hours, on Oct 13, 2009						
Zero Gage at Bottom Elevation	2.63		m. (MSL.) ,			River Bed	3.46		m. (MSL)				
Left Bank Elevation	10.81		m. (MSL.) ,										
Right Bank Elevation	10.66		m. (MSL.) ,			Drainage Area	1236		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	14.64	38.52	6.60	7.00	20.36	36.70	18.82	7.40	5.40	5.40	5.40	
2	2.00	12.44	36.70	6.60	6.80	27.08	48.52	17.28	7.40	5.40	5.20	5.60	
3	1.40	9.20	32.80	9.60	6.80	22.34	66.10	15.30	7.00	5.40	5.20	5.60	
4	1.40	7.40	32.02	10.40	6.60	12.44	76.24	13.54	6.80	5.20	5.80	5.60	
5	2.40	6.80	32.80	11.40	6.60	10.40	75.60	11.80	6.80	5.40	5.40	5.40	
6	8.80	6.40	40.86	10.60	6.40	10.60	77.20	10.80	6.80	5.40	5.40	5.20	
7	6.40	6.40	37.22	14.42	6.00	9.00	82.64	9.20	6.80	5.40	5.40	5.20	
8	5.20	6.80	32.54	19.04	5.80	9.80	97.64	7.60	6.60	5.40	5.20	5.20	
9	5.80	6.80	30.72	18.38	5.60	14.86	107.72	9.20	6.60	5.40	5.20	5.20	
10	7.80	6.60	29.48	18.60	5.60	11.20	97.97	8.80	6.60	5.40	5.20	5.40	
11	9.80	8.20	29.24	11.60	5.80	9.40	88.40	8.40	6.60	5.40	5.40	5.40	
12	9.60	8.40	31.50	9.00	6.60	12.66	105.00	7.80	6.60	5.40	5.40	5.20	
13	7.40	15.52	28.76	11.20	6.40	18.60	114.18	8.80	6.40	5.20	5.40	6.80	
14	6.40	23.96	27.32	11.80	5.40	18.60	101.27	9.60	6.40	5.00	5.40	5.60	
15	5.20	26.36	26.84	8.80	5.20	17.72	92.36	9.80	6.40	5.20	5.40	5.00	
16	3.40	30.46	26.60	8.40	5.40	23.72	80.72	9.80	6.40	6.00	5.40	5.00	
17	1.20	33.84	32.02	7.80	6.00	14.20	68.50	10.60	6.40	5.40	5.40	5.20	
18	0.00	35.66	37.48	7.20	10.60	11.00	70.60	10.40	6.40	5.00	5.40	5.20	
19	0.00	32.28	32.54	6.80	9.20	9.80	105.34	9.80	6.40	5.00	5.40	5.40	
20	0.00	24.20	28.04	6.60	7.80	9.60	92.69	9.20	6.40	4.80	5.40	5.60	
21	0.00	17.50	26.84	7.60	7.40	13.32	88.40	8.80	6.40	4.60	5.40	5.60	
22	0.00	18.38	25.64	15.74	6.80	23.48	88.73	8.60	6.20	5.20	5.40	5.60	
23	0.00	18.16	15.52	31.76	6.20	21.90	107.04	8.20	6.20	5.20	5.40	5.60	
24	2.40	16.40	14.20	30.46	5.80	28.04	110.78	8.00	6.20	5.00	5.60	5.40	
25	5.80	15.96	8.20	23.24	5.80	38.26	110.44	8.20	6.20	5.60	5.60	5.40	
26	5.80	21.02	7.00	16.62	5.80	91.70	94.34	8.00	6.20	9.20	5.60	5.20	
27	6.00	25.88	6.60	10.00	6.60	112.48	70.00	8.00	6.20	6.80	5.40	5.80	
28	6.60	65.50	6.20	9.60	10.20	97.64	42.68	7.80	6.20	5.80	5.20	6.00	
29	8.80	78.80	6.60	9.40	11.40	75.92	29.00	7.80	6.20	5.60		5.40	
30	8.20	62.20	7.20	7.60	12.66	54.40	23.72	7.60	5.80	5.40		5.20	
31		41.38		7.00	12.66		21.02		5.40	5.40		5.20	
Total	130.80	703.54	768.00	383.86	222.92	850.52	2471.54	297.54	200.40	170.00	151.00	168.60	6518.72 CMSDAY
Mean	4.36	22.69	25.60	12.38	7.19	28.35	79.73	9.92	6.46	5.48	5.39	5.44	17.86 CMS
Max	9.80	78.80	40.86	31.76	12.66	112.48	114.18	18.82	7.40	9.20	5.80	6.80	114.18 CMS
Min	0.00	6.40	6.20	6.60	5.20	9.00	21.02	7.60	5.40	4.60	5.20	5.00	0.00 CMS
Runoff	11.30	60.79	66.36	33.17	19.26	73.49	213.54	25.71	17.32	14.69	13.05	14.57	563.22 MCM
Momentary Peak	115.54 CMS, at 8.61 m. (MSL), at 06.00 Hours, on Oct 13, 2009												
Runoff Yield	14.45 Liters/Second/Square KM.			Momentary Peak Yield			93.479 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Chanthaburi River at Ban Puk , Chanthaburi (Z.13)

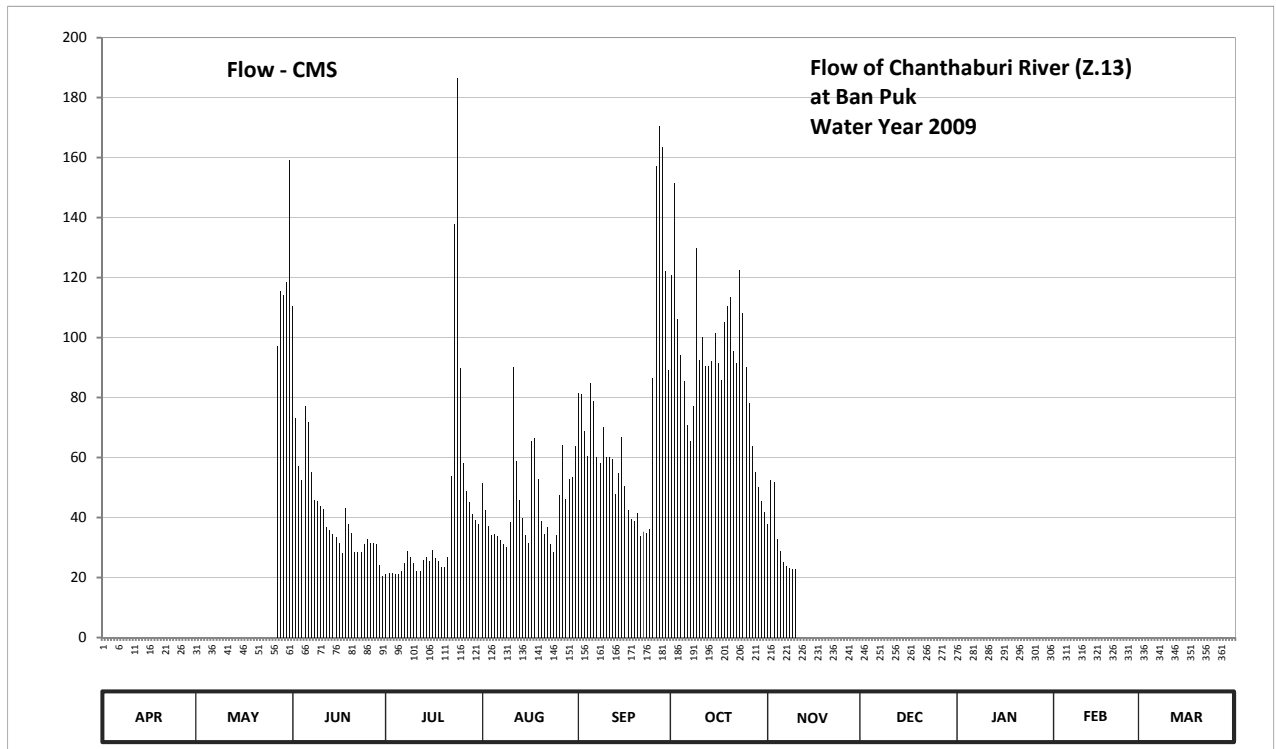
Lat 12 - 45 - 38 N Long 102 - 08 - 33 E

Location : on left bank at Ban Puk

	Ban Puk	Amphoe Makham	Changwat Chanthaburi
Drainage Area	647 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+6.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+14.374 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 means of 5 readings		
Period of Available Gage Records	1968 to date		
Rating Operation			
Period of Rating	1969 to date		
Rated by Flot	-		
Rated by Current Meter	1969 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.63	8.90	9.53	7.02	8.01	8.83	9.76	7.60	8.55	8.57	8.50	8.48	
2	8.63	8.90	8.63	7.03	7.74	8.82	10.42	8.04	8.30	8.57	8.50	8.42	
3	8.63	8.92	8.18	7.04	7.58	8.51	9.42	8.02	8.48	8.56	8.50	8.23	
4	8.63	8.90	8.04	7.02	7.49	8.28	9.14	7.44	8.48	8.55	8.51	8.20	
5	8.63	8.86	8.73	7.02	7.50	8.91	8.93	7.31	8.34	8.55	8.50	8.17	
6	8.63	8.80	8.59	7.06	7.47	8.77	8.56	7.17	7.96	8.57	8.51	8.16	
7	8.71	8.78	8.12	7.16	7.43	8.27	8.42	7.12	7.92	8.59	8.50	8.18	
8	8.71	8.75	7.84	7.31	7.39	8.21	8.73	7.10	7.80	8.57	8.50	8.27	
9	8.72	7.55	7.83	7.24	7.35	8.55	9.96	7.09	7.80	8.58	8.50	8.44	
10	8.75	8.58	7.78	7.16	7.62	8.27	9.10	7.09	7.87	8.59	8.49	8.46	
11	8.77	8.86	7.75	7.06	9.04	8.27	9.28	7.08	8.61	8.58	8.47	8.44	
12	8.77	8.70	7.57	7.06	8.23	8.25	9.05	8.06	8.60	8.57	8.49	8.44	
13	8.77	6.95	7.54	7.20	7.84	7.90	9.05	8.75	8.60	8.54	8.49	8.47	
14	8.81	8.78	7.50	7.24	7.66	8.11	9.09	8.80	8.61	8.55	8.49	8.47	
15	8.81	8.87	7.46	7.18	7.49	8.46	9.31	8.98	8.62	8.54	8.49	8.48	
16	8.81	8.86	7.40	7.32	7.40	7.98	9.07	8.87	8.62	8.52	8.49	8.47	
17	8.81	8.86	7.28	7.22	8.42	7.74	8.94	8.83	8.61	8.52	8.48	8.46	
18	8.80	8.84	7.76	7.18	8.45	7.65	9.40	8.79	8.60	8.52	8.48	8.45	
19	8.77	8.84	7.60	7.11	8.05	7.63	9.53	8.77	8.60	8.51	8.48	8.43	
20	8.77	8.84	7.51	7.11	7.63	7.71	9.60	8.75	8.60	8.51	8.48	8.42	
21	8.77	8.97	7.30	7.24	7.50	7.48	9.17	8.72	8.59	8.54	8.47	8.42	
22	8.77	8.96	7.30	8.08	7.57	7.52	9.07	8.70	8.58	8.56	8.47	8.42	
23	8.75	8.90	7.30	10.14	7.39	7.51	9.80	8.68	8.57	8.57	8.47	8.40	
24	8.72	8.90	7.39	11.15	7.30	7.55	9.47	8.66	8.57	8.57	8.45	8.39	
25	8.64	8.92	7.44	9.03	7.49	8.95	9.04	8.65	8.56	8.57	8.49	8.38	
26	8.82	8.92	7.40	8.21	7.89	10.54	8.75	8.63	8.56	8.60	8.49	8.51	
27	9.06	9.21	7.40	7.93	8.38	10.82	8.37	8.62	8.56	8.56	8.49	8.51	
28	8.94	9.64	7.39	7.82	7.85	10.67	8.12	8.60	8.56	8.53	8.48	8.50	
29	8.95	9.61	7.13	7.70	8.05	9.79	7.97	8.57	8.56	8.52		8.49	
30	8.90	9.71	7.00	7.64	8.07	9.02	7.83	8.57	8.57	8.52		8.48	
31		10.58		7.60	8.37		7.72		8.57	8.51		8.47	
Mean	8.76	8.89	7.72	7.59	7.80	8.50	9.03	8.20	8.45	8.55	8.49	8.40	
Max	9.06	10.58	9.53	11.15	9.04	10.82	10.42	8.98	8.62	8.60	8.51	8.51	11.15
Min	8.63	6.95	7.00	7.02	7.30	7.48	7.72	7.08	7.80	8.51	8.45	8.16	6.95
Annual Max Momentary Gage Height	11.26		m. (MSL.) ,				at 06.00 Hours, on Jul 24, 2009						
Zero Gage at Bottom Elevation	6.30		m. (MSL.) ,			River Bed	5.22		m. (MSL)				
Left Bank Elevation	14.81		m. (MSL.) ,										
Right Bank Elevation	14.85		m. (MSL.) ,			Drainage Area	647		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	110.57	21.04	51.43	81.39	120.70	37.90	0.00	0.00	0.00	0.00	
2	0.01	0.01	73.27	21.31	42.52	80.98	151.36	52.42	0.00	0.00	0.00	0.00	
3	0.01	0.01	57.04	21.58	37.24	68.77	105.98	51.76	0.00	0.00	0.00	0.00	
4	0.01	0.01	52.42	21.04	34.30	60.50	94.27	32.80	0.00	0.00	0.00	0.00	
5	0.01	0.01	77.24	21.04	34.60	84.71	85.55	28.90	0.00	0.00	0.00	0.00	
6	0.01	0.01	71.73	22.12	33.70	78.91	70.62	25.09	0.00	0.00	0.00	0.00	
7	0.01	0.01	55.06	24.82	32.50	60.15	65.44	23.74	0.00	0.00	0.00	0.00	
8	0.01	0.01	45.82	28.90	31.30	58.05	77.24	23.20	0.00	0.00	0.00	0.00	
9	0.01	0.00	45.49	26.98	30.10	70.25	129.70	22.93	0.00	0.00	0.00	0.00	
10	0.01	0.00	43.84	24.82	38.56	60.15	92.60	22.93	0.00	0.00	0.00	0.00	
11	0.01	0.01	42.85	22.12	90.11	60.15	100.12	0.00	0.01	0.00	0.00	0.00	
12	0.01	0.01	36.91	22.12	58.75	59.45	90.52	0.00	0.01	0.00	0.00	0.00	
13	0.01	0.00	35.92	25.90	45.82	47.80	90.52	0.01	0.01	0.00	0.00	0.00	
14	0.01	0.01	34.60	26.98	39.88	54.73	92.18	0.01	0.01	0.00	0.00	0.00	
15	0.01	0.01	33.40	25.36	34.30	66.92	101.38	0.01	0.01	0.00	0.00	0.00	
16	0.01	0.01	31.60	29.20	31.60	50.44	91.35	0.01	0.01	0.00	0.00	0.00	
17	0.01	0.01	28.06	26.44	65.44	42.52	85.96	0.01	0.01	0.00	0.00	0.00	
18	0.01	0.01	43.18	25.36	66.55	39.55	105.14	0.01	0.01	0.00	0.00	0.00	
19	0.01	0.01	37.90	23.47	52.75	38.89	110.57	0.01	0.01	0.00	0.00	0.00	
20	0.01	0.01	34.93	23.47	38.89	41.53	113.50	0.01	0.01	0.00	0.00	0.00	
21	0.01	0.01	28.60	26.98	34.60	34.00	95.53	0.01	0.00	0.00	0.00	0.00	
22	0.01	0.01	28.60	53.74	36.91	35.26	91.35	0.01	0.00	0.00	0.00	0.00	
23	0.01	0.01	28.60	137.92	31.30	34.93	122.50	0.01	0.00	0.00	0.00	0.00	
24	0.01	0.01	31.30	186.50	28.60	36.25	108.07	0.01	0.00	0.00	0.00	0.00	
25	0.01	0.01	32.80	89.69	34.30	86.37	90.11	0.01	0.00	0.00	0.00	0.00	
26	0.01	0.01	31.60	58.05	47.47	157.12	78.08	0.01	0.00	0.01	0.00	0.00	
27	0.01	97.20	31.60	48.79	64.00	170.56	63.65	0.01	0.00	0.00	0.00	0.00	
28	0.01	115.30	31.30	45.16	46.15	163.36	55.06	0.01	0.00	0.00	0.00	0.00	
29	0.01	113.95	24.01	41.20	52.75	122.05	50.11	0.00	0.00	0.00	0.00	0.00	
30	0.01	118.45	20.50	39.22	53.41	89.28	45.49	0.00	0.00	0.00	0.00	0.00	
31		159.04		37.90	63.65		41.86		0.00	0.00		0.00	
Total	0.30	604.17	1280.74	1249.22	1383.48	2135.02	2816.51	321.83	0.10	0.01	0.00	0.00	9791.38 CMSDAY
Mean	0.01	19.49	42.69	40.30	44.63	71.17	90.86	10.73	0.00	0.00	0.00	0.00	26.83 CMS
Max	0.01	159.04	110.57	186.50	90.11	170.56	151.36	52.42	0.01	0.01	0.00	0.00	186.50 CMS
Min	0.01	0.00	20.50	21.04	28.60	34.00	41.86	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.03	52.20	110.66	107.93	119.53	184.47	243.35	27.81	0.01	0.00	0.00	0.00	845.98 MCM
Momentary Peak	192.00 CMS, at 11.26 m. (MSL), at 06.00 Hours, on Jul 24, 2009												
Runoff Yield	41.46 Liters/Second/Square KM.			Momentary Peak Yield			296.754 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)

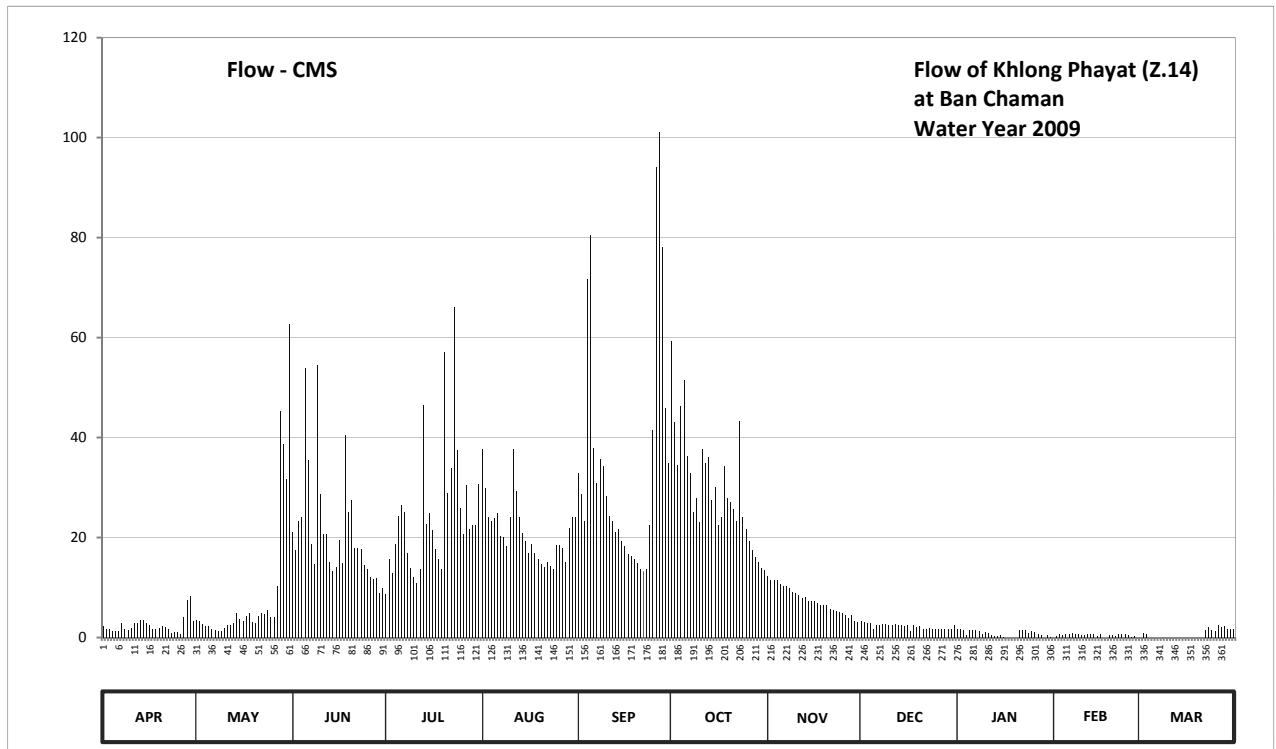
Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	Ban	Chaman	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	229	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+5.400	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 30 meters from the top staff gage.				Elevation	+13.690 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 means of 5 readings					
Period of Available Gage Records	1968 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.45	6.53	7.49	6.82	8.27	8.05	9.20	7.02	6.52	6.42	6.30	6.18	
2	6.42	6.52	7.30	7.21	7.91	7.86	8.51	6.97	6.50	6.41	6.32	6.36	
3	6.41	6.48	7.60	7.05	7.64	7.60	8.12	6.97	6.49	6.40	6.34	6.35	
4	6.39	6.45	7.63	7.37	7.60	9.69	8.66	6.97	6.49	6.33	6.33	6.30	
5	6.38	6.45	8.98	7.65	7.62	10.03	8.88	6.93	6.42	6.40	6.35	6.28	
6	6.39	6.41	8.17	7.75	7.67	8.28	8.20	6.90	6.47	6.40	6.35	6.28	
7	6.49	6.40	7.37	7.69	7.45	7.96	8.05	6.91	6.47	6.40	6.36	6.25	
8	6.42	6.38	7.15	7.27	7.44	8.18	7.69	6.88	6.48	6.39	6.35	6.28	
9	6.40	6.38	9.00	7.11	7.34	8.11	7.82	6.84	6.48	6.35	6.34	6.30	
10	6.43	6.43	7.86	7.01	7.63	7.84	7.58	6.83	6.47	6.37	6.33	6.28	
11	6.49	6.46	7.46	6.94	8.27	7.65	8.27	6.80	6.47	6.36	6.33	6.29	
12	6.49	6.46	7.46	7.09	7.89	7.59	8.14	6.77	6.48	6.33	6.35	6.29	
13	6.53	6.49	7.17	8.67	7.64	7.49	8.19	6.78	6.47	6.32	6.34	6.29	
14	6.53	6.60	7.07	7.57	7.48	7.51	7.80	6.74	6.47	6.32	6.34	6.28	
15	6.49	6.54	7.12	7.67	7.40	7.92	6.74	6.45	6.33	6.32	6.32	6.30	
16	6.47	6.51	7.41	7.50	7.27	7.34	7.56	6.74	6.47	6.31	6.35	6.30	
17	6.42	6.57	7.16	7.32	7.37	7.26	7.64	6.72	6.38	6.29	6.30	6.28	
18	6.41	6.60	8.39	7.20	7.27	7.24	8.11	6.70	6.47	6.30	6.29	6.29	
19	6.43	6.50	7.69	7.10	7.20	7.20	7.82	6.70	6.44	6.30	6.33	6.26	
20	6.45	6.49	7.80	9.11	7.15	7.16	7.78	6.69	6.45	6.30	6.33	6.27	
21	6.44	6.57	7.33	7.87	7.12	7.10	7.72	6.65	6.42	6.40	6.32	6.24	
22	6.41	6.61	7.33	8.09	7.17	7.07	7.60	6.64	6.42	6.40	6.34	6.40	
23	6.36	6.59	7.31	9.47	7.13	7.10	8.52	6.63	6.43	6.40	6.34	6.44	
24	6.37	6.64	7.14	8.26	7.10	7.55	7.64	6.62	6.41	6.36	6.34	6.40	
25	6.37	6.56	7.10	7.73	7.35	8.44	7.52	6.60	6.41	6.38	6.33	6.39	
26	6.35	6.56	7.01	7.46	7.35	10.55	7.40	6.58	6.41	6.37	6.31	6.46	
27	6.56	6.91	6.98	7.94	7.33	10.82	7.30	6.55	6.41	6.35	6.32	6.44	
28	6.75	8.61	6.99	7.51	7.17	9.93	7.23	6.58	6.42	6.33	6.27	6.45	
29	6.79	8.31	6.83	7.55	7.53	8.64	7.17	6.52	6.41	6.30		6.42	
30	6.51	7.99	6.88	7.56	7.64	8.14	7.11	6.50	6.42	6.33		6.42	
31		9.34		7.95	7.64		7.08		6.46	6.31		6.42	
Mean	6.46	6.79	7.47	7.63	7.49	8.09	7.88	6.75	6.45	6.35	6.33	6.33	
Max	6.79	9.34	9.00	9.47	8.27	10.82	9.20	7.02	6.52	6.42	6.36	6.46	10.82
Min	6.35	6.38	6.83	6.82	7.10	7.07	7.08	6.50	6.38	6.29	6.27	6.18	6.18
Annual Max Momentary Gage Height	11.60		m. (MSL.) ,				at 09.00 Hours, on Sep 27, 2009						
Zero Gage at Bottom Elevation	5.40		m. (MSL.) ,			River Bed	5.66		m. (MSL)				
Left Bank Elevation	13.42		m. (MSL.) ,										
Right Bank Elevation	13.36		m. (MSL.) ,			Drainage Area	229		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.25	3.54	21.20	8.76	37.74	32.90	59.20	12.36	3.36	1.80	0.00	0.00		
2	1.80	3.36	17.40	15.78	29.82	28.72	43.02	11.46	3.00	1.65	0.30	0.90		
3	1.65	2.70	23.40	12.90	24.20	23.40	34.44	11.46	2.85	1.50	0.60	0.75		
4	1.35	2.25	24.00	18.80	23.40	71.74	46.32	11.46	2.85	0.45	0.45	0.00		
5	1.20	2.25	53.92	24.40	23.80	80.58	51.52	10.74	1.80	1.50	0.75	0.00		
6	1.35	1.65	35.54	26.40	24.80	37.96	36.20	10.20	2.55	1.50	0.75	0.00		
7	2.85	1.50	18.80	25.20	20.40	30.92	32.90	10.38	2.55	1.50	0.90	0.00		
8	1.80	1.20	14.70	16.86	20.20	35.76	25.20	9.84	2.70	1.35	0.75	0.00		
9	1.50	1.20	54.40	13.98	18.20	34.22	27.84	9.12	2.70	0.75	0.60	0.00		
10	1.95	1.95	28.72	12.18	24.00	28.28	23.00	8.94	2.55	1.05	0.45	0.00		
11	2.85	2.40	20.60	10.92	37.74	24.40	37.74	8.40	2.55	0.90	0.45	0.00		
12	2.85	2.40	20.60	13.62	29.38	23.20	34.88	7.86	2.70	0.45	0.75	0.00		
13	3.54	2.85	15.06	46.54	24.20	21.20	35.98	8.04	2.55	0.30	0.60	0.00		
14	3.54	4.80	13.26	22.80	21.00	21.60	27.40	7.32	2.55	0.30	0.60	0.00		
15	2.85	3.72	14.16	24.80	19.40	19.40	30.04	7.32	2.25	0.45	0.30	0.00		
16	2.55	3.18	19.60	21.40	16.86	18.20	22.60	7.32	2.55	0.15	0.75	0.00		
17	1.80	4.26	14.88	17.80	18.80	16.68	24.20	6.96	1.20	0.00	0.00	0.00		
18	1.65	4.80	40.38	15.60	16.86	16.32	34.22	6.60	2.55	0.00	0.00	0.00		
19	1.95	3.00	25.20	13.80	15.60	15.60	27.84	6.60	2.10	0.00	0.45	0.00		
20	2.25	2.85	27.40	57.04	14.70	14.88	27.00	6.42	2.25	0.00	0.45	0.00		
21	2.10	4.26	18.00	28.94	14.16	13.80	25.80	5.70	1.80	1.50	0.30	0.00		
22	1.65	4.98	18.00	33.78	15.06	13.26	23.40	5.52	1.80	1.50	0.60	1.50		
23	0.90	4.62	17.60	66.02	14.34	13.80	43.24	5.34	1.95	1.50	0.60	2.10		
24	1.05	5.52	14.52	37.52	13.80	22.40	24.20	5.16	1.65	0.90	0.60	1.50		
25	1.05	4.08	13.80	26.00	18.40	41.48	21.80	4.80	1.65	1.20	0.45	1.35		
26	0.75	4.08	12.18	20.60	18.40	94.10	19.40	4.44	1.65	1.05	0.15	2.40		
27	4.08	10.38	11.64	30.48	18.00	101.12	17.40	3.90	1.65	0.75	0.30	2.10		
28	7.50	45.22	11.82	21.60	15.06	77.98	16.14	4.44	1.80	0.45	0.00	2.25		
29	8.22	38.62	8.94	22.40	22.00	45.88	15.06	3.36	1.65	0.00		1.80		
30	3.18	31.58	9.84	22.60	24.20	34.88	13.98	3.00	1.80	0.45		1.80		
31		62.64		30.70	24.20		13.44		2.40	0.15		1.80		
Total	74.01	271.84	639.56	760.22	658.72	1054.66	915.40	224.46	69.96	25.05	12.90	20.25	4727.03	CMSDAY
Mean	2.47	8.77	21.32	24.52	21.25	35.16	29.53	7.48	2.26	0.81	0.46	0.65	12.95	CMS
Max	8.22	62.64	54.40	66.02	37.74	101.12	59.20	12.36	3.36	1.80	0.90	2.40	101.12	CMS
Min	0.75	1.20	8.94	8.76	13.80	13.26	13.44	3.00	1.20	0.00	0.00	0.00	0.00	CMS
Runoff	6.39	23.49	55.26	65.68	56.91	91.12	79.09	19.39	6.05	2.16	1.12	1.75	408.42	MCM
Momentary Peak	122.40 CMS, at 11.60 m. (MSL), at 09.00 Hours, on Sep 27, 2009													
Runoff Yield	56.55 Liters/Second/Square KM.			Momentary Peak Yield			534,498 Liters/Second/Square KM.							

WATER YEAR : 2009

EAST COAST - GULF BASIN

Khlung Phlo at Ban Chamkho , Rayong (Z.18)

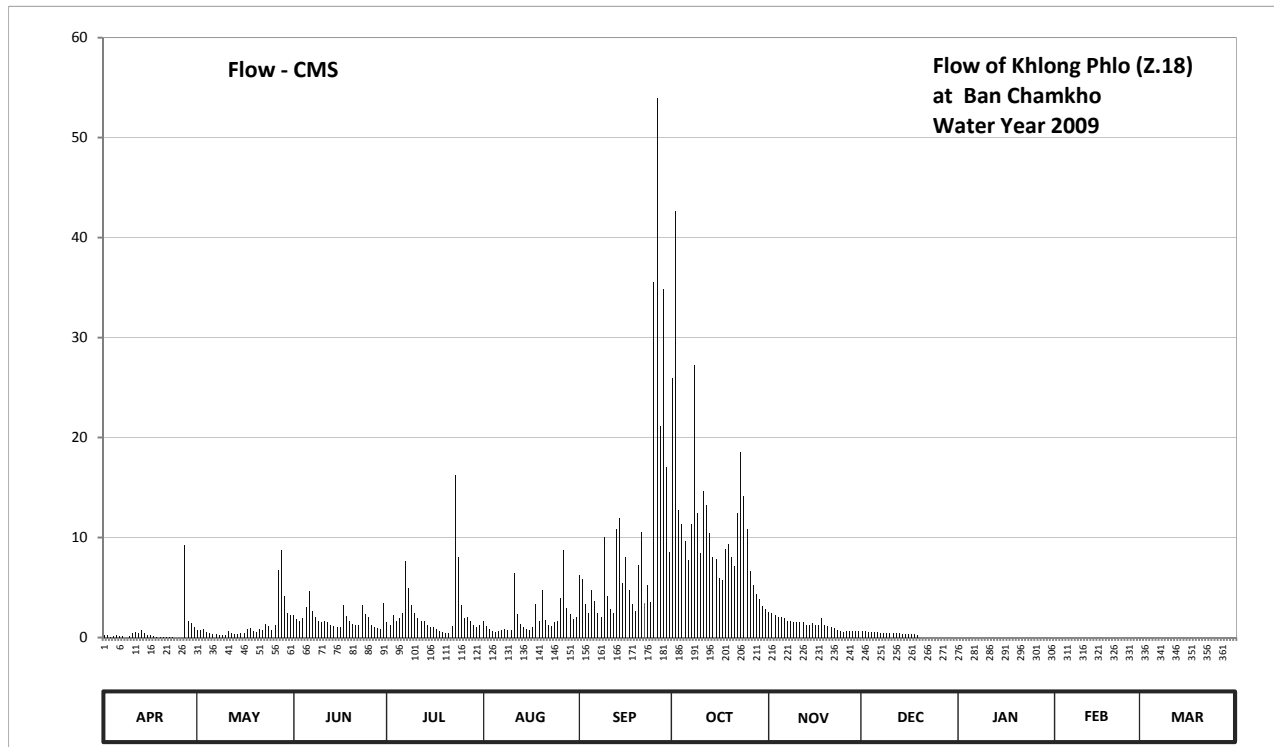
Lat 12 - 57 - 18 N Long 101 - 40 - 32 E

Location : on right bank at the bridge on road.

	Ban	Chamkho	Amphoe	Klaeng	Changwat	Rayong
Drainage Area	201	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+28.146 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+35.314 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 means of 5 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
Rated by Current Meter	1983 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow regulated by the concrete weir about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.19	29.40	29.70	29.55	29.58	30.26	31.91	29.76	29.34	30.51	31.11	30.49	
2	29.21	29.39	29.61	29.50	29.48	30.21	32.87	29.73	29.34	30.55	31.11	30.43	
3	29.13	29.42	29.57	29.69	29.41	29.88	30.96	29.70	29.33	30.63	31.11	30.40	
4	29.15	29.32	29.63	29.57	29.35	29.75	30.84	29.67	29.32	30.69	31.11	30.35	
5	29.18	29.28	29.84	29.63	29.33	30.07	30.66	29.65	29.31	30.73	31.11	30.31	
6	29.15	29.25	30.05	29.73	29.35	29.92	30.47	29.63	29.31	30.76	31.10	30.27	
7	29.15	29.22	29.78	30.45	29.39	29.74	30.84	29.59	29.30	30.79	31.07	30.22	
8	29.07	29.19	29.66	30.09	29.41	29.67	32.00	29.57	29.29	30.80	30.96	30.14	
9	29.17	29.18	29.58	29.86	29.40	30.71	30.94	29.55	29.29	30.80	30.94	30.11	
10	29.30	29.20	29.56	29.74	29.40	29.99	30.55	29.55	29.29	30.80	30.91	30.08	
11	29.31	29.34	29.59	29.64	30.29	29.82	31.11	29.55	29.29	30.80	30.91	30.01	
12	29.30	29.27	29.56	29.58	29.71	29.73	31.00	29.55	29.28	30.80	30.90	29.96	
13	29.38	29.25	29.51	29.58	29.52	30.79	30.74	29.51	29.26	30.82	30.89	29.92	
14	29.29	29.25	29.48	29.50	29.46	30.89	30.51	29.50	29.25	30.83	30.88	29.86	
15	29.21	29.29	29.46	29.45	29.42	30.16	30.48	29.53	29.25	30.81	30.86	29.82	
16	29.18	29.28	29.46	29.45	29.40	30.50	30.22	29.49	29.24	30.80	30.85	29.77	
17	29.16	29.42	29.86	29.42	29.46	30.07	30.20	29.49	29.23	30.80	30.84	29.72	
18	29.13	29.44	29.68	29.35	29.88	29.88	30.59	29.64	29.22	30.79	30.82	29.70	
19	29.13	29.37	29.57	29.33	29.57	29.78	30.64	29.50	29.21	30.71	30.80	29.66	
20	29.13	29.32	29.52	29.30	30.07	30.40	30.50	29.47	29.27	30.63	30.79	29.61	
21	29.12	29.41	29.49	29.29	29.60	30.76	30.38	29.46	29.50	30.60	30.78	29.58	
22	29.12	29.40	29.49	29.48	29.50	29.89	30.94	29.44	29.64	30.59	30.76	29.53	
23	29.11	29.52	29.86	31.24	29.48	30.13	31.42	29.40	29.79	30.68	30.71	29.46	
24	29.10	29.48	29.72	30.51	29.56	29.91	31.07	29.36	29.87	30.75	30.66	29.44	
25	29.09	29.40	29.65	29.86	29.59	32.50	30.78	29.32	29.86	30.75	30.63	29.62	
26	29.10	29.51	29.49	29.64	29.96	33.38	30.32	29.36	30.04	31.02	30.60	30.12	
27	30.63	30.33	29.45	29.67	30.57	31.59	30.14	29.37	30.15	31.01	30.56	30.12	
28	29.58	30.57	29.44	29.58	29.83	32.46	30.01	29.36	30.26	31.04	30.54	30.09	
29	29.53	29.99	29.43	29.50	29.71	31.30	29.94	29.36	30.32	31.10		29.66	
30	29.45	29.73	29.89	29.46	29.61	30.56	29.85	29.35	30.40	31.12		29.21	
31		29.69	29.49	29.65	29.65		29.81		30.43	31.13		29.18	
Mean	29.26	29.46	29.62	29.68	29.61	30.49	30.73	29.51	29.54	30.79	30.87	29.90	
Max	30.63	30.57	30.05	31.24	30.57	33.38	32.87	29.76	30.43	31.13	31.11	30.49	33.38
Min	29.07	29.18	29.43	29.29	29.33	29.67	29.81	29.32	29.21	30.51	30.54	29.18	29.07
Annual Max Momentary Gage Height	33.50		m. (MSL.) ,			at 06.00 Hours, on Sep 26, 2009							
Zero Gage at Bottom Elevation	28.15		m. (MSL.) ,			River Bed	28.45	M (MSL)					
Left Bank Elevation	34.55		m. (MSL.) ,										
Right Bank Elevation	34.73		m. (MSL.) ,			Drainage Area	201	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	0.75	2.25	1.50	1.65	6.20	25.90	2.55	0.60	0.00	0.00	0.00	
2	0.27	0.72	1.80	1.25	1.15	5.82	42.65	2.40	0.60	0.00	0.00	0.00	
3	0.07	0.85	1.60	2.20	0.80	3.35	12.75	2.25	0.58	0.00	0.00	0.00	
4	0.12	0.55	1.90	1.60	0.63	2.50	11.40	2.10	0.55	0.00	0.00	0.00	
5	0.20	0.45	3.05	1.90	0.58	4.78	9.60	2.00	0.52	0.00	0.00	0.00	
6	0.12	0.38	4.62	2.40	0.63	3.65	7.77	1.90	0.52	0.00	0.00	0.00	
7	0.12	0.30	2.65	7.63	0.72	2.45	11.40	1.70	0.50	0.00	0.00	0.00	
8	0.00	0.23	2.05	4.93	0.80	2.10	27.25	1.60	0.48	0.00	0.00	0.00	
9	0.17	0.20	1.65	3.20	0.75	10.10	12.50	1.50	0.48	0.00	0.00	0.00	
10	0.50	0.25	1.55	2.45	0.75	4.18	8.50	1.50	0.48	0.00	0.00	0.00	
11	0.52	0.60	1.70	1.95	6.43	2.90	14.63	1.50	0.48	0.00	0.00	0.00	
12	0.50	0.43	1.55	1.65	2.30	2.40	13.25	1.50	0.45	0.00	0.00	0.00	
13	0.70	0.38	1.30	1.65	1.35	10.90	10.40	1.30	0.40	0.00	0.00	0.00	
14	0.48	0.38	1.15	1.25	1.05	11.90	8.10	1.25	0.38	0.00	0.00	0.00	
15	0.27	0.48	1.05	1.00	0.85	5.45	7.85	1.40	0.38	0.00	0.00	0.00	
16	0.20	0.45	1.05	1.00	0.75	8.00	5.90	1.20	0.35	0.00	0.00	0.00	
17	0.15	0.85	3.20	0.85	1.05	4.78	5.75	1.20	0.32	0.00	0.00	0.00	
18	0.07	0.95	2.15	0.63	3.35	3.35	8.90	1.95	0.30	0.00	0.00	0.00	
19	0.07	0.68	1.60	0.58	1.60	2.65	9.40	1.25	0.27	0.00	0.00	0.00	
20	0.07	0.55	1.35	0.50	4.78	7.25	8.00	1.10	0.00	0.00	0.00	0.00	
21	0.05	0.80	1.20	0.48	1.75	10.60	7.10	1.05	0.00	0.00	0.00	0.00	
22	0.05	0.75	1.20	1.15	1.25	3.43	12.50	0.95	0.00	0.00	0.00	0.00	
23	0.03	1.35	3.20	16.25	1.15	5.22	18.55	0.75	0.00	0.00	0.00	0.00	
24	0.00	1.15	2.35	8.10	1.55	3.58	14.13	0.65	0.00	0.00	0.00	0.00	
25	0.00	0.75	2.00	3.20	1.70	35.50	10.80	0.55	0.00	0.00	0.00	0.00	
26	0.00	1.30	1.20	1.95	3.95	54.00	6.65	0.65	0.00	0.00	0.00	0.00	
27	9.30	6.73	1.00	2.10	8.70	21.10	5.30	0.68	0.00	0.00	0.00	0.00	
28	1.65	8.70	0.95	1.65	2.98	34.80	4.33	0.65	0.00	0.00	0.00	0.00	
29	1.40	4.18	0.90	1.25	2.30	17.00	3.80	0.65	0.00	0.00	0.00	0.00	
30	1.00	2.40	3.43	1.05	1.80	8.60	3.13	0.63	0.00	0.00	0.00	0.00	
31		2.20		1.20	2.00		2.83		0.00	0.00		0.00	
Total	18.31	40.74	56.65	78.50	61.10	298.54	351.02	40.36	8.64	0.00	0.00	0.00	953.86 CMSDAY
Mean	0.61	1.31	1.89	2.53	1.97	9.95	11.32	1.35	0.28	0.00	0.00	0.00	2.61 CMS
Max	9.30	8.70	4.62	16.25	8.70	54.00	42.65	2.55	0.60	0.00	0.00	0.00	54.00 CMS
Min	0.00	0.20	0.90	0.48	0.58	2.10	2.83	0.55	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.58	3.52	4.90	6.78	5.28	25.79	30.33	3.49	0.75	0.00	0.00	0.00	82.41 MCM
Momentary Peak	57.00 CMS, at 33.50 m. (MSL), at 06.00 Hours, on Sep 26, 2009												
Runoff Yield	13.00 Liters/Second/Square KM.			Momentary Peak Yield			283.582 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Hin Dat at Ban Pong Rong Sen , Chanthaburi (Z.21)

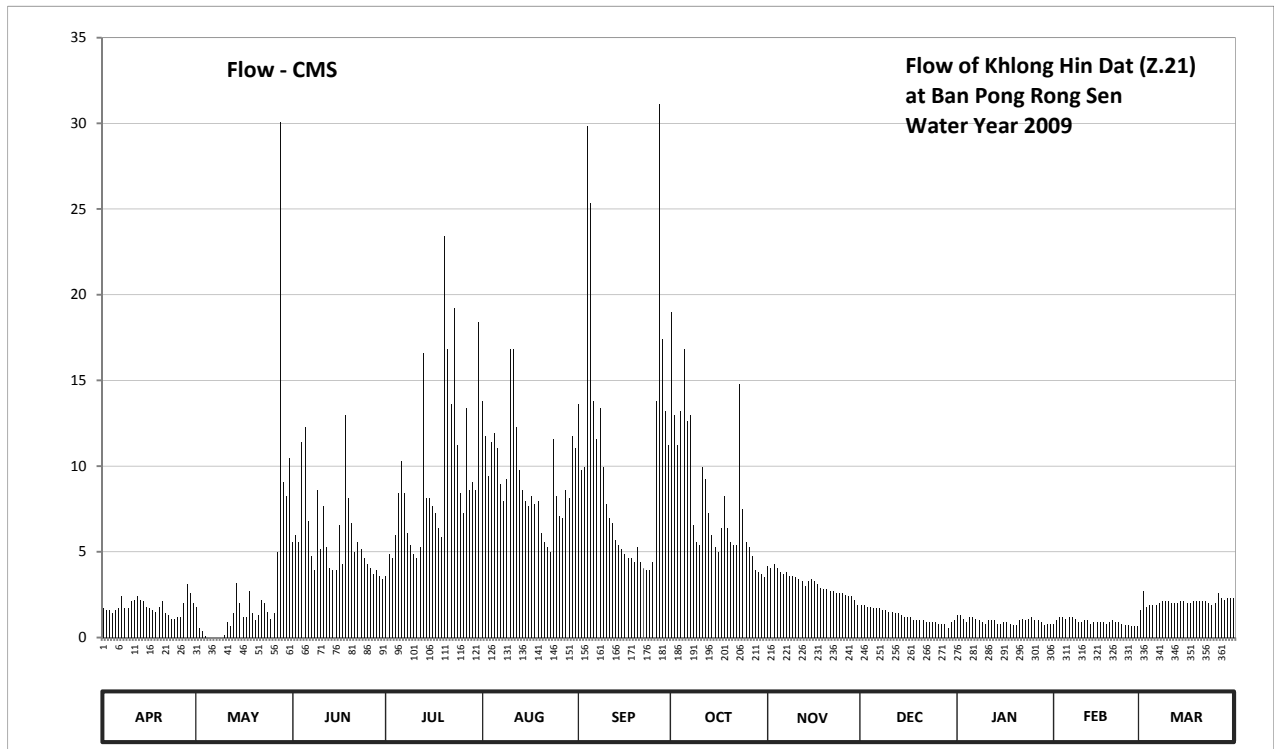
Lat 12 - 47 - 15 N Long 102 - 15 - 33 E

Location : on left bank at the bridge on highway.

	Ban	Pong Rong Sen	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	78	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+21.200 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 40 meters from the top staff gage.				Elevation	+27.671 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.89	21.90	22.24	22.08	22.74	22.73	23.00	22.13	21.91	21.85	21.80	21.88	
2	21.88	21.77	22.27	22.19	22.63	22.52	22.70	22.12	21.91	21.85	21.82	21.99	
3	21.88	21.75	22.24	22.17	22.50	22.53	22.60	22.14	21.90	21.83	21.84	21.90	
4	21.86	21.71	22.61	22.27	22.61	23.47	22.71	22.12	21.90	21.81	21.84	21.91	
5	21.88	21.68	22.66	22.44	22.64	23.29	22.89	22.10	21.89	21.84	21.83	21.91	
6	21.89	21.67	22.33	22.55	22.59	22.74	22.68	22.09	21.89	21.84	21.84	21.91	
7	21.96	21.65	22.18	22.44	22.47	22.62	22.70	22.10	21.89	21.83	21.84	21.92	
8	21.89	21.65	22.11	22.28	22.41	22.72	22.31	22.08	21.88	21.82	21.83	21.93	
9	21.89	21.65	22.45	22.23	22.49	22.53	22.24	22.08	21.88	21.81	21.81	21.93	
10	21.93	21.72	22.21	22.19	22.89	22.40	22.23	22.07	21.87	21.80	21.81	21.93	
11	21.94	21.81	22.39	22.17	22.89	22.34	22.53	22.06	21.87	21.82	21.82	21.92	
12	21.96	21.78	22.22	22.22	22.66	22.32	22.49	22.05	21.86	21.82	21.82	21.92	
13	21.94	21.86	22.12	22.88	22.52	22.25	22.36	22.02	21.86	21.82	21.80	21.92	
14	21.93	22.04	22.11	22.42	22.45	22.23	22.27	22.05	21.85	21.80	21.81	21.93	
15	21.90	21.92	22.11	22.42	22.41	22.21	22.22	22.06	21.84	21.80	21.81	21.93	
16	21.89	21.84	22.31	22.39	22.39	22.19	22.20	22.05	21.84	21.81	21.81	21.92	
17	21.88	21.84	22.14	22.36	22.43	22.17	22.30	22.03	21.84	21.81	21.81	21.92	
18	21.87	21.99	22.70	22.30	22.40	22.17	22.43	22.01	21.82	21.80	21.80	21.93	
19	21.90	21.86	22.42	22.26	22.41	22.15	22.30	22.00	21.82	21.79	21.81	21.93	
20	21.93	21.82	22.32	23.21	22.28	22.22	22.24	22.00	21.82	21.79	21.82	21.93	
21	21.86	21.85	22.20	22.89	22.24	22.15	22.23	21.99	21.82	21.82	21.81	21.93	
22	21.85	21.94	22.24	22.73	22.22	22.12	22.23	21.99	21.81	21.83	21.81	21.93	
23	21.83	21.92	22.21	23.01	22.20	22.11	22.79	21.98	21.81	21.82	21.80	21.92	
24	21.83	21.87	22.17	22.60	22.62	22.11	22.38	21.98	21.81	21.83	21.79	21.91	
25	21.84	21.83	22.14	22.44	22.43	22.15	22.24	21.98	21.81	21.84	21.79	21.92	
26	21.84	21.86	22.12	22.36	22.35	22.74	22.22	21.97	21.80	21.82	21.78	21.98	
27	21.92	22.20	22.09	22.72	22.34	23.52	22.18	21.96	21.80	21.82	21.78	21.95	
28	22.03	23.48	22.11	22.45	22.45	22.92	22.11	21.96	21.80	21.81	21.78	21.94	
29	21.98	22.48	22.08	22.48	22.42	22.71	22.10	21.94	21.77	21.79		21.95	
30	21.92	22.43	22.06	22.45	22.63	22.60	22.09	21.91	21.81	21.80		21.95	
31		22.56		22.97	22.59		22.07		21.82	21.80		21.95	
Mean	21.90	21.95	22.25	22.47	22.49	22.50	22.39	22.03	21.85	21.82	21.81	21.93	
Max	22.03	23.48	22.70	23.21	22.89	23.52	23.00	22.14	21.91	21.85	21.84	21.99	23.52
Min	21.83	21.65	22.06	22.08	22.20	22.11	22.07	21.91	21.77	21.79	21.78	21.88	21.65
Annual Max Momentary Gage Height	25.35		m. (MSL.) ,				at 02.00 Hours, on Sep 4, 2009						
Zero Gage at Bottom Elevation	21.20		m. (MSL.) ,			River Bed	21.15	m. (MSL)					
Left Bank Elevation	29.69		m. (MSL.) ,										
Right Bank Elevation	29.67		m. (MSL.) ,			Drainage Area	78	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.70	1.80	5.56	3.60	13.80	13.60	19.00	4.16	1.90	1.30	0.80	1.60		
2	1.60	0.56	5.98	4.88	11.74	9.76	13.00	4.04	1.90	1.30	1.00	2.70		
3	1.60	0.40	5.56	4.64	9.40	9.94	11.20	4.28	1.80	1.10	1.20	1.80		
4	1.40	0.08	11.38	5.98	11.38	29.82	13.20	4.04	1.80	0.90	1.20	1.90		
5	1.60	0.00	12.28	8.44	11.92	25.36	16.80	3.80	1.70	1.20	1.10	1.90		
6	1.70	0.00	6.82	10.30	11.02	13.80	12.64	3.70	1.70	1.20	1.20	1.90		
7	2.40	0.00	4.76	8.44	8.92	11.56	13.00	3.80	1.70	1.10	1.20	2.00		
8	1.70	0.00	3.92	6.12	7.96	13.40	6.54	3.60	1.60	1.00	1.10	2.10		
9	1.70	0.00	8.60	5.42	9.24	9.94	5.56	3.60	1.60	0.90	0.90	2.10		
10	2.10	0.16	5.14	4.88	16.80	7.80	5.42	3.50	1.50	0.80	0.90	2.10		
11	2.20	0.90	7.66	4.64	16.80	6.96	9.94	3.40	1.50	1.00	1.00	2.00		
12	2.40	0.64	5.28	5.28	12.28	6.68	9.24	3.30	1.40	1.00	1.00	2.00		
13	2.20	1.40	4.04	16.60	9.76	5.70	7.24	3.00	1.40	1.00	0.80	2.00		
14	2.10	3.20	3.92	8.12	8.60	5.42	5.98	3.30	1.30	0.80	0.90	2.10		
15	1.80	2.00	3.92	8.12	7.96	5.14	5.28	3.40	1.20	0.80	0.90	2.10		
16	1.70	1.20	6.54	7.66	7.66	4.88	5.00	3.30	1.20	0.90	0.90	2.00		
17	1.60	1.20	4.28	7.24	8.28	4.64	6.40	3.10	1.20	0.90	0.90	2.00		
18	1.50	2.70	13.00	6.40	7.80	4.64	8.28	2.90	1.00	0.80	0.80	2.10		
19	1.80	1.40	8.12	5.84	7.96	4.40	6.40	2.80	1.00	0.72	0.90	2.10		
20	2.10	1.00	6.68	23.44	6.12	5.28	5.56	2.80	1.00	0.72	1.00	2.10		
21	1.40	1.30	5.00	16.80	5.56	4.40	5.42	2.70	1.00	1.00	0.90	2.10		
22	1.30	2.20	5.56	13.60	5.28	4.04	5.42	2.70	0.90	1.10	0.90	2.10		
23	1.10	2.00	5.14	19.20	5.00	3.92	14.80	2.60	0.90	1.00	0.80	2.00		
24	1.10	1.50	4.64	11.20	11.56	3.92	7.52	2.60	0.90	1.10	0.72	1.90		
25	1.20	1.10	4.28	8.44	8.28	4.40	5.56	2.60	0.90	1.20	0.72	2.00		
26	1.20	1.40	4.04	7.24	7.10	13.80	5.28	2.50	0.80	1.00	0.64	2.60		
27	2.00	5.00	3.70	13.40	6.96	31.12	4.76	2.40	0.80	1.00	0.64	2.30		
28	3.10	30.08	3.92	8.60	8.60	17.40	3.92	2.40	0.80	0.90	0.64	2.20		
29	2.60	9.08	3.60	9.08	8.12	13.20	3.80	2.20	0.56	0.72		2.30		
30	2.00	8.28	3.40	8.60	11.74	11.20	3.70	1.90	0.90	0.80		2.30		
31		10.48		18.40	11.02		3.50		1.00	0.80		2.30		
Total	53.90	91.06	176.72	290.60	294.62	306.12	249.36	94.42	38.86	30.06	25.66	64.70	1716.08	CMSDAY
Mean	1.80	2.94	5.89	9.37	9.50	10.20	8.04	3.15	1.25	0.97	0.92	2.09	4.70	CMS
Max	3.10	30.08	13.00	23.44	16.80	31.12	19.00	4.28	1.90	1.30	1.20	2.70	31.12	CMS
Min	1.10	0.00	3.40	3.60	5.00	3.92	3.50	1.90	0.56	0.72	0.64	1.60	0.00	CMS
Runoff	4.66	7.87	15.27	25.11	25.46	26.45	21.55	8.16	3.36	2.60	2.22	5.59	148.27	MCM
Momentary Peak	94.05 CMS, at 25.35 m. (MSL), at 02.00 Hours, on Sep 4, 2009													
Runoff Yield	60.28 Liters/Second/Square KM.			Momentary Peak Yield			1205,769 Liters/Second/Square KM.							

WATER YEAR : 2009
EAST COAST - GULF BASIN

Upper Khlong Tanot at Ban Khun Song , Chanthaburi (Z.28)

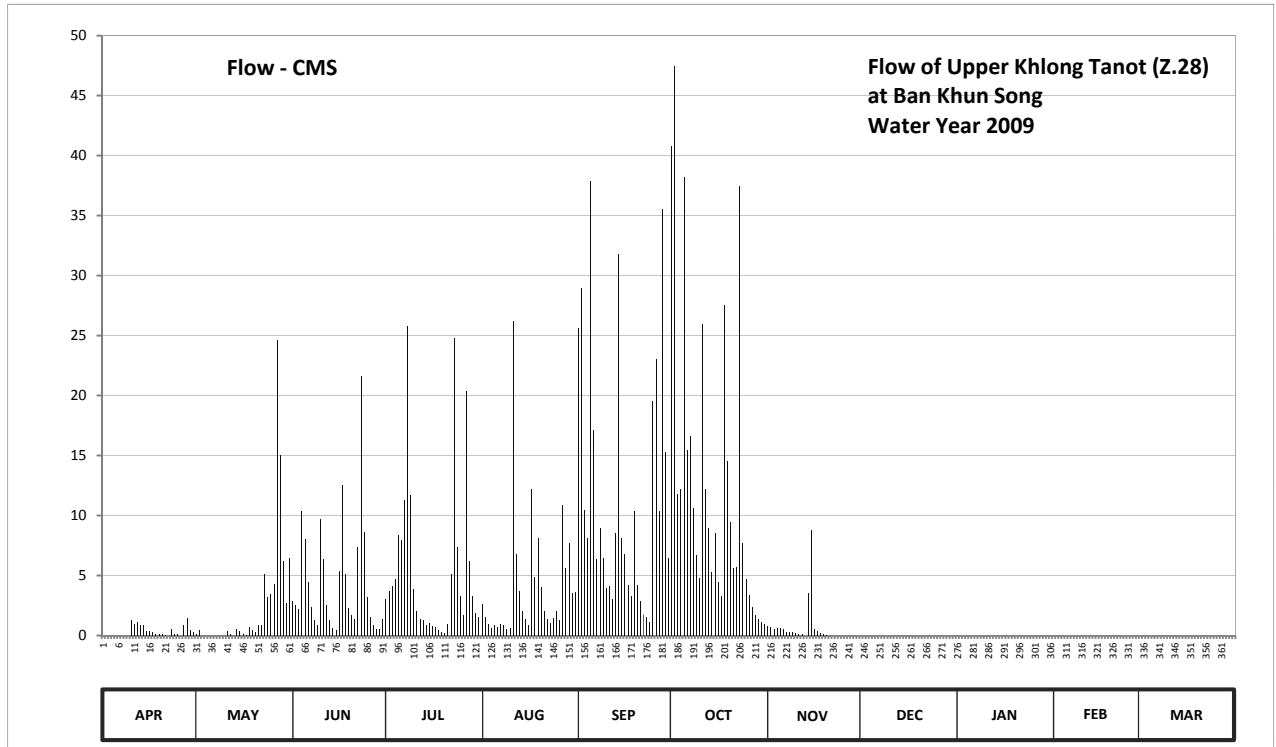
Lat 13 - 04 - 31 N Long 101 - 56 - 55 E

Location : on right bank near Wat Khun Song.

	Ban	Khun Song	Amphoe	Kaeng Hang Maeo	Changwat	Chanthaburi
Drainage Area	280	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+32.600 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 10 meters from the top staff gage.				Elevation	+40.318 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.11	33.22	33.74	33.78	33.70	35.75	36.62	33.36	33.14	33.80	34.24	33.68	
2	33.11	33.29	33.69	33.89	33.51	35.96	36.94	33.34	33.11	33.84	34.24	33.66	
3	33.11	33.19	33.63	33.94	33.39	34.58	34.71	33.30	33.09	33.84	34.24	33.64	
4	33.11	33.17	34.57	34.01	33.33	34.36	34.75	33.32	33.02	34.10	34.23	33.64	
5	33.11	33.14	34.35	34.38	33.37	36.47	36.49	33.32	33.01	34.28	34.23	33.63	
6	33.11	33.12	33.98	34.34	33.35	35.17	35.04	33.30	33.50	34.30	34.23	33.61	
7	33.11	33.10	33.66	34.66	33.39	34.19	35.13	33.26	33.50	34.30	34.23	33.60	
8	33.10	33.07	33.46	35.76	33.37	34.44	34.60	33.25	33.50	34.30	34.23	33.58	
9	33.09	33.07	33.37	34.70	33.31	34.20	34.22	33.25	33.50	34.30	34.23	33.56	
10	33.46	33.07	34.51	33.91	33.33	33.92	34.02	33.24	33.49	34.30	34.23	33.55	
11	33.39	33.28	34.19	33.61	35.79	33.94	35.77	33.23	33.47	34.30	34.23	33.55	
12	33.42	33.23	33.69	33.48	34.23	33.78	34.75	33.23	33.46	34.30	34.25	33.55	
13	33.38	33.16	33.45	33.45	33.88	34.40	34.44	33.11	33.46	34.30	34.25	33.55	
14	33.38	33.31	33.33	33.37	33.60	36.13	34.09	33.85	33.45	34.30	34.25	33.43	
15	33.28	33.28	33.29	33.40	33.47	34.36	34.40	34.42	33.45	34.28	34.25	33.43	
16	33.27	33.22	34.10	33.36	33.37	34.23	33.98	33.30	33.45	34.27	34.23	33.43	
17	33.25	33.21	34.79	33.34	34.75	33.95	33.82	33.28	33.45	34.27	34.23	33.43	
18	33.23	33.35	34.07	33.29	34.03	33.81	35.87	33.24	33.45	34.27	34.20	33.43	
19	33.23	33.29	33.65	33.26	34.36	34.57	34.97	33.23	33.45	34.27	34.06	33.41	
20	33.22	33.25	33.54	33.24	33.93	33.95	34.49	33.21	33.45	34.27	33.84	33.40	
21	33.21	33.38	33.47	33.39	33.61	33.75	34.12	33.18	33.48	34.30	33.82	33.38	
22	33.20	33.38	34.29	34.07	33.48	33.55	34.13	33.15	33.71	34.30	33.72	33.36	
23	33.31	34.07	35.50	35.70	33.40	33.50	36.45	33.15	33.92	34.29	33.70	33.34	
24	33.23	33.80	34.41	34.29	33.49	33.43	34.32	33.15	33.47	34.29	33.70	33.33	
25	33.22	33.84	33.80	33.82	33.60	35.35	34.01	33.15	33.55	34.27	33.70	33.33	
26	33.20	33.96	33.50	33.54	33.45	35.59	33.83	33.15	33.55	34.25	33.70	33.30	
27	33.37	35.69	33.38	35.41	34.62	34.57	33.66	33.15	33.55	34.25	33.70	33.30	
28	33.49	35.01	33.31	34.18	34.12	36.34	33.55	33.15	33.63	34.25	33.69	33.30	
29	33.29	34.18	33.30	33.82	34.32	35.03	33.48	33.14	33.74	34.25		33.34	
30	33.26	33.71	33.48	33.58	33.86	34.20	33.42	33.14	33.73	34.25		33.30	
31		34.20		33.51	33.87		33.39		33.72	34.25		33.29	
Mean	33.24	33.52	33.85	33.95	33.78	34.58	34.63	33.29	33.47	34.23	34.07	33.46	
Max	33.49	35.69	35.50	35.76	35.79	36.47	36.94	34.42	33.92	34.30	34.25	33.68	36.94
Min	33.09	33.07	33.29	33.24	33.31	33.43	33.39	33.11	33.01	33.80	33.69	33.29	33.01
Annual Max Momentary Gage Height	37.28		m. (MSL.) ,				at 09.00 Hours, on Oct 2, 2009						
Zero Gage at Bottom Elevation	32.60		m. (MSL.) ,			River Bed	32.33		m. (MSL)				
Left Bank Elevation	41.05		m. (MSL.) ,										
Right Bank Elevation	41.05		m. (MSL.) ,			Drainage Area	280		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.10	2.84	3.08	2.60	25.60	40.80	0.80	0.00	0.00	0.00	0.00	
2	0.00	0.45	2.54	3.74	1.55	28.96	47.48	0.70	0.00	0.00	0.00	0.00	
3	0.00	0.00	2.18	4.12	0.95	10.44	11.79	0.50	0.00	0.00	0.00	0.00	
4	0.00	0.00	10.33	4.68	0.65	8.13	12.17	0.60	0.00	0.00	0.00	0.00	
5	0.00	0.00	8.02	8.34	0.85	37.86	38.22	0.60	0.00	0.00	0.00	0.00	
6	0.00	0.00	4.44	7.92	0.75	17.11	15.42	0.50	0.00	0.00	0.00	0.00	
7	0.00	0.00	2.36	11.28	0.95	6.34	16.59	0.30	0.00	0.00	0.00	0.00	
8	0.00	0.00	1.30	25.76	0.85	8.97	10.65	0.25	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.85	11.70	0.55	6.45	6.66	0.25	0.00	0.00	0.00	0.00	
10	1.30	0.00	9.70	3.88	0.65	3.96	4.76	0.20	0.00	0.00	0.00	0.00	
11	0.95	0.40	6.34	2.06	26.24	4.12	25.92	0.15	0.00	0.00	0.00	0.00	
12	1.10	0.15	2.54	1.40	6.77	3.08	12.17	0.15	0.00	0.00	0.00	0.00	
13	0.90	0.00	1.25	1.25	3.68	8.55	8.97	0.00	0.00	0.00	0.00	0.00	
14	0.90	0.55	0.65	0.85	2.00	31.74	5.32	3.50	0.00	0.00	0.00	0.00	
15	0.40	0.40	0.45	1.00	1.35	8.13	8.55	8.76	0.00	0.00	0.00	0.00	
16	0.35	0.10	5.40	0.80	0.85	6.77	4.44	0.50	0.00	0.00	0.00	0.00	
17	0.25	0.05	12.55	0.70	12.17	4.20	3.32	0.40	0.00	0.00	0.00	0.00	
18	0.15	0.75	5.16	0.45	4.84	3.26	27.52	0.20	0.00	0.00	0.00	0.00	
19	0.15	0.45	2.30	0.30	8.13	10.33	14.51	0.15	0.00	0.00	0.00	0.00	
20	0.10	0.25	1.70	0.20	4.04	4.20	9.50	0.05	0.00	0.00	0.00	0.00	
21	0.05	0.90	1.35	0.95	2.06	2.90	5.61	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.90	7.40	5.16	1.40	1.75	5.72	0.00	0.00	0.00	0.00	0.00	
23	0.55	5.16	21.60	24.80	1.00	1.50	37.50	0.00	0.00	0.00	0.00	0.00	
24	0.15	3.20	8.66	7.40	1.45	1.15	7.71	0.00	0.00	0.00	0.00	0.00	
25	0.10	3.44	3.20	3.32	2.00	19.50	4.68	0.00	0.00	0.00	0.00	0.00	
26	0.00	4.28	1.50	1.70	1.25	23.04	3.38	0.00	0.00	0.00	0.00	0.00	
27	0.85	24.64	0.90	20.34	10.86	10.33	2.36	0.00	0.00	0.00	0.00	0.00	
28	1.45	15.03	0.55	6.24	5.61	35.52	1.75	0.00	0.00	0.00	0.00	0.00	
29	0.45	6.24	0.50	3.32	7.71	15.29	1.40	0.00	0.00	0.00	0.00	0.00	
30	0.30	2.66	1.40	1.90	3.56	6.45	1.10	0.00	0.00	0.00	0.00	0.00	
31		6.45		1.55	3.62		0.95		0.00	0.00		0.00	
Total	10.45	76.55	129.96	170.19	120.94	355.63	396.92	18.56	0.00	0.00	0.00	0.00	1279.20 CMSDAY
Mean	0.35	2.47	4.33	5.49	3.90	11.85	12.80	0.62	0.00	0.00	0.00	0.00	3.50 CMS
Max	1.45	24.64	21.60	25.76	26.24	37.86	47.48	8.76	0.00	0.00	0.00	0.00	47.48 CMS
Min	0.00	0.00	0.45	0.20	0.55	1.15	0.95	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.90	6.61	11.23	14.70	10.45	30.73	34.29	1.60	0.00	0.00	0.00	0.00	110.52 MCM
Momentary Peak	54.96 CMS, at 37.28 m. (MSL), at 09.00 Hours, on Oct 2, 2009												
Runoff Yield	12.52 Liters/Second/Square KM.			Momentary Peak Yield			196.286 Liters/Second/Square KM.						

WATER YEAR : 2009

EAST COAST - GULF BASIN

Khlong Sato at Ban Nong Bua , Trat (Z.30)

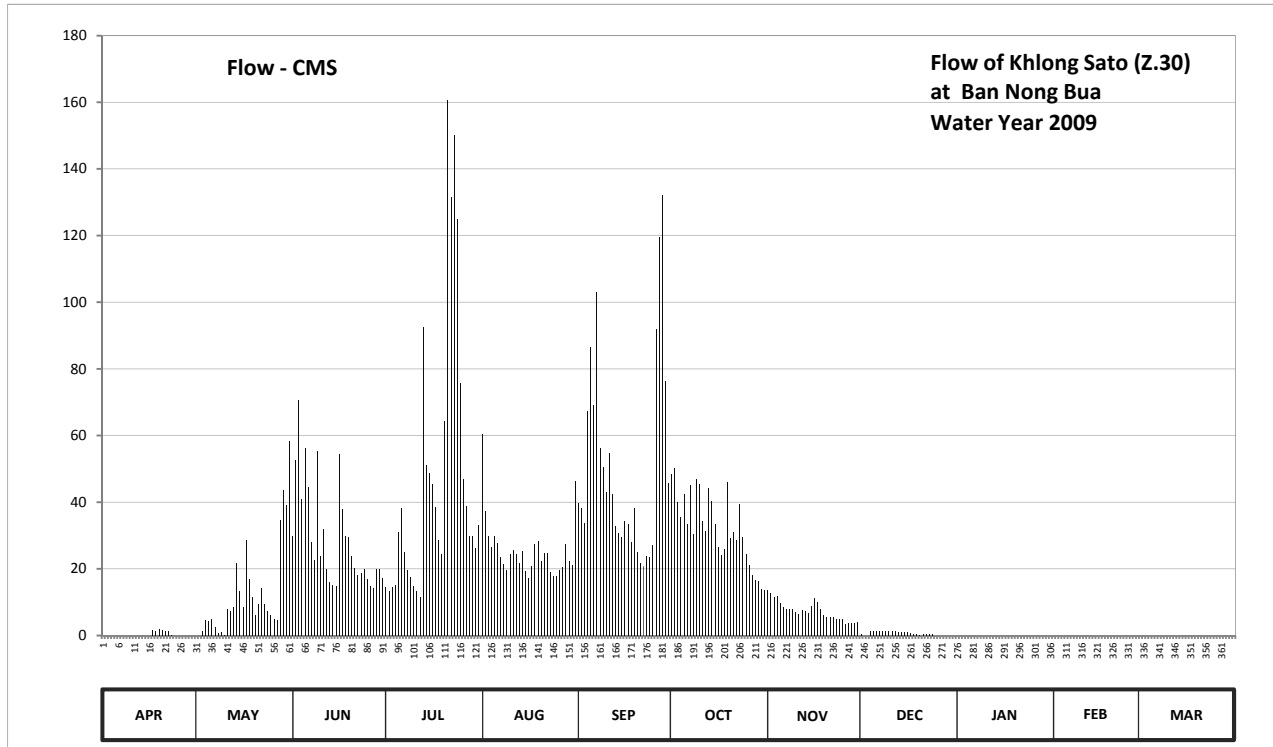
Lat 12 - 32 - 22 N Long 102 - 26 - 58 E

Location : on right bank at Ban Nong Bua.

	Ban	Nong Bua	Amphoe	Khao Saming	Changwat	Trat
Drainage Area	316	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+9.200	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank next tall pole for electric cable near dwelling.				Elevation	+18.683 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 means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.46	10.18	12.73	11.70	14.26	13.23	13.67	11.65	10.44	12.90	12.61	12.37	
2	13.39	10.32	13.88	11.63	13.12	13.16	13.76	11.59	10.37	12.88	12.58	12.36	
3	13.19	10.54	14.67	11.70	12.72	12.94	13.26	11.50	10.27	12.86	12.59	12.34	
4	13.04	10.85	13.30	11.74	12.51	14.53	13.03	11.52	10.52	12.84	12.57	12.35	
5	13.15	10.84	14.06	12.80	12.72	15.30	13.38	11.36	10.52	12.84	12.64	12.35	
6	13.31	10.89	13.47	13.16	12.59	14.61	12.92	11.25	10.53	12.88	12.73	12.35	
7	13.45	10.67	12.60	12.40	12.30	15.96	13.50	11.20	10.52	12.87	12.67	12.35	
8	13.65	10.46	12.25	12.05	12.17	14.06	12.76	11.20	10.53	12.86	12.62	12.35	
9	13.62	10.50	14.02	11.90	12.05	13.78	13.60	11.20	10.53	12.84	12.60	12.35	
10	13.70	10.42	12.33	11.72	12.37	13.40	13.52	11.10	10.54	12.81	12.57	12.40	
11	13.58	11.18	12.85	11.63	12.45	13.98	12.97	11.05	10.53	12.77	12.55	12.42	
12	11.72	11.15	12.07	11.51	12.37	13.38	12.81	11.16	10.52	12.75	12.52	12.41	
13	11.29	11.25	11.81	15.54	12.18	12.90	13.46	11.14	10.51	12.75	12.50	12.44	
14	11.13	12.18	11.74	13.80	12.43	12.78	13.27	11.08	10.50	12.74	12.48	12.44	
15	10.58	11.62	11.72	13.68	12.02	12.71	12.92	11.28	10.50	12.74	12.46	12.44	
16	10.55	11.25	13.97	13.52	11.89	12.97	12.50	11.48	10.50	12.74	12.44	12.39	
17	10.57	12.64	13.15	13.17	12.13	12.92	12.35	11.41	10.47	12.73	12.41	12.34	
18	10.55	11.87	12.72	12.65	12.57	12.60	12.46	11.19	10.44	12.71	12.40	12.35	
19	10.59	11.51	12.70	12.36	12.62	13.16	13.55	11.00	10.43	12.70	12.39	12.32	
20	10.57	11.03	12.32	14.41	12.23	12.40	12.68	10.95	10.42	12.68	12.40	12.30	
21	10.55	11.34	12.08	17.92	12.39	12.18	12.80	10.95	10.44	12.53	12.42	12.30	
22	10.54	11.69	11.95	16.95	12.39	12.12	12.65	10.94	10.44	12.46	12.49	12.28	
23	10.42	11.34	11.98	17.57	12.00	12.33	13.22	10.90	10.44	12.56	12.50	12.21	
24	10.34	11.14	12.07	16.73	11.93	12.31	12.71	10.90	10.44	12.65	12.48	12.19	
25	10.31	11.02	11.86	14.87	11.92	12.54	12.36	10.88	11.19	12.81	12.44	12.19	
26	10.34	10.91	11.72	13.60	12.04	15.52	12.15	10.75	12.03	12.90	12.42	12.11	
27	10.35	10.87	11.68	13.20	12.10	16.55	11.95	10.76	12.62	12.82	12.40	12.32	
28	10.34	12.98	12.07	12.73	12.56	16.97	11.84	10.78	12.70	12.76	12.39	12.38	
29	10.38	13.43	12.06	12.72	12.23	14.89	11.82	10.78	12.69	12.66		12.41	
30	10.40	13.21	11.88	12.49	12.14	13.54	11.67	10.80	12.70	12.64		12.43	
31		14.16		12.91	13.57		11.65		12.70	12.63		12.42	
Mean	11.64	11.40	12.59	13.38	12.42	13.66	12.81	11.13	10.90	12.75	12.51	12.34	
Max	13.70	14.16	14.67	17.92	14.26	16.97	13.76	11.65	12.70	12.90	12.73	12.44	17.92
Min	10.31	10.18	11.68	11.51	11.89	12.12	11.65	10.75	10.27	12.46	12.39	12.11	10.18
Annual Max Momentary Gage Height	18.11		m. (MSL.) ,				at 06.00 Hours, on Jul 21, 2009						
Zero Gage at Bottom Elevation	9.20		m. (MSL.) ,			River Bed	8.65	m. (MSL)					
Left Bank Elevation	20.42		m. (MSL.) ,										
Right Bank Elevation	19.54		m. (MSL.) ,			Drainage Area	316	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	29.95	14.50	60.50	39.60	48.40	13.75	0.40	0.00	0.00	0.00	
2	0.00	0.00	52.60	13.45	37.40	38.20	50.20	12.85	0.00	0.00	0.00	0.00	
3	0.00	1.40	70.75	14.50	29.80	33.80	40.20	11.50	0.00	0.00	0.00	0.00	
4	0.00	4.50	41.00	15.10	26.65	67.25	35.60	11.80	1.20	0.00	0.00	0.00	
5	0.00	4.40	56.20	31.00	29.80	86.50	42.60	9.60	1.20	0.00	0.00	0.00	
6	0.00	4.90	44.40	38.20	27.85	69.25	33.40	8.50	1.30	0.00	0.00	0.00	
7	0.00	2.70	28.00	25.00	23.50	103.00	45.00	8.00	1.20	0.00	0.00	0.00	
8	0.00	0.60	22.75	19.75	21.55	56.20	30.40	8.00	1.30	0.00	0.00	0.00	
9	0.00	1.00	55.40	17.50	19.75	50.60	47.00	8.00	1.30	0.00	0.00	0.00	
10	0.00	0.20	23.95	14.80	24.55	43.00	45.40	7.00	1.40	0.00	0.00	0.00	
11	0.00	7.80	32.00	13.45	25.75	54.60	34.40	6.50	1.30	0.00	0.00	0.00	
12	0.00	7.50	20.05	11.65	24.55	42.60	31.20	7.60	1.20	0.00	0.00	0.00	
13	0.00	8.50	16.15	92.50	21.70	33.00	44.20	7.40	1.10	0.00	0.00	0.00	
14	0.00	21.70	15.10	51.00	25.45	30.70	40.40	6.80	1.00	0.00	0.00	0.00	
15	0.00	13.30	14.80	48.60	19.30	29.65	33.40	8.80	1.00	0.00	0.00	0.00	
16	0.00	8.50	54.40	45.40	17.35	34.40	26.50	11.20	1.00	0.00	0.00	0.00	
17	1.70	28.60	38.00	38.40	20.95	33.40	24.25	10.15	0.70	0.00	0.00	0.00	
18	1.50	17.05	29.80	28.75	27.55	28.00	25.90	7.90	0.40	0.00	0.00	0.00	
19	1.90	11.65	29.50	24.40	28.30	38.20	46.00	6.00	0.30	0.00	0.00	0.00	
20	1.70	6.30	23.80	64.25	22.45	25.00	29.20	5.50	0.20	0.00	0.00	0.00	
21	1.50	9.40	20.20	160.60	24.85	21.70	31.00	5.50	0.40	0.00	0.00	0.00	
22	1.40	14.35	18.25	131.50	24.85	20.80	28.75	5.40	0.40	0.00	0.00	0.00	
23	0.20	9.40	18.70	150.10	19.00	23.95	39.40	5.00	0.40	0.00	0.00	0.00	
24	0.00	7.40	20.05	124.90	17.95	23.65	29.65	5.00	0.40	0.00	0.00	0.00	
25	0.00	6.20	16.90	75.75	17.80	27.10	24.40	4.80	0.00	0.00	0.00	0.00	
26	0.00	5.10	14.80	47.00	19.60	92.00	21.25	3.50	0.00	0.00	0.00	0.00	
27	0.00	4.70	14.20	39.00	20.50	119.50	18.25	3.60	0.00	0.00	0.00	0.00	
28	0.00	34.60	20.05	29.95	27.40	132.10	16.60	3.80	0.00	0.00	0.00	0.00	
29	0.00	43.60	19.90	29.80	22.45	76.25	16.30	3.80	0.00	0.00	0.00	0.00	
30	0.00	39.20	17.20	26.35	21.10	45.80	14.05	4.00	0.00	0.00	0.00	0.00	
31	0.00	58.20	0.00	33.20	46.40	0.00	13.75	0.00	0.00	0.00	0.00	0.00	
Total	9.90	382.75	878.85	1470.35	796.60	1519.80	1007.05	221.25	19.10	0.00	0.00	0.00	6305.65 CMSDAY
Mean	0.33	12.35	29.30	47.43	25.70	50.66	32.49	7.38	0.62	0.00	0.00	0.00	17.28 CMS
Max	1.90	58.20	70.75	160.60	60.50	132.10	50.20	13.75	1.40	0.00	0.00	0.00	160.60 CMS
Min	0.00	0.00	14.20	11.65	17.35	20.80	13.75	3.50	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.86	33.07	75.93	127.04	68.83	131.31	87.01	19.12	1.65	0.00	0.00	0.00	544.81 MCM
Momentary Peak	166.30 CMS, at 18.11 m. (MSL), at 06.00 Hours, on Jul 21, 2009												
Runoff Yield	54.67 Liters/Second/Square KM.			Momentary Peak Yield			526.266 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Phrawa at Ban Phrawa Yai , Chanthaburi (Z.39A)

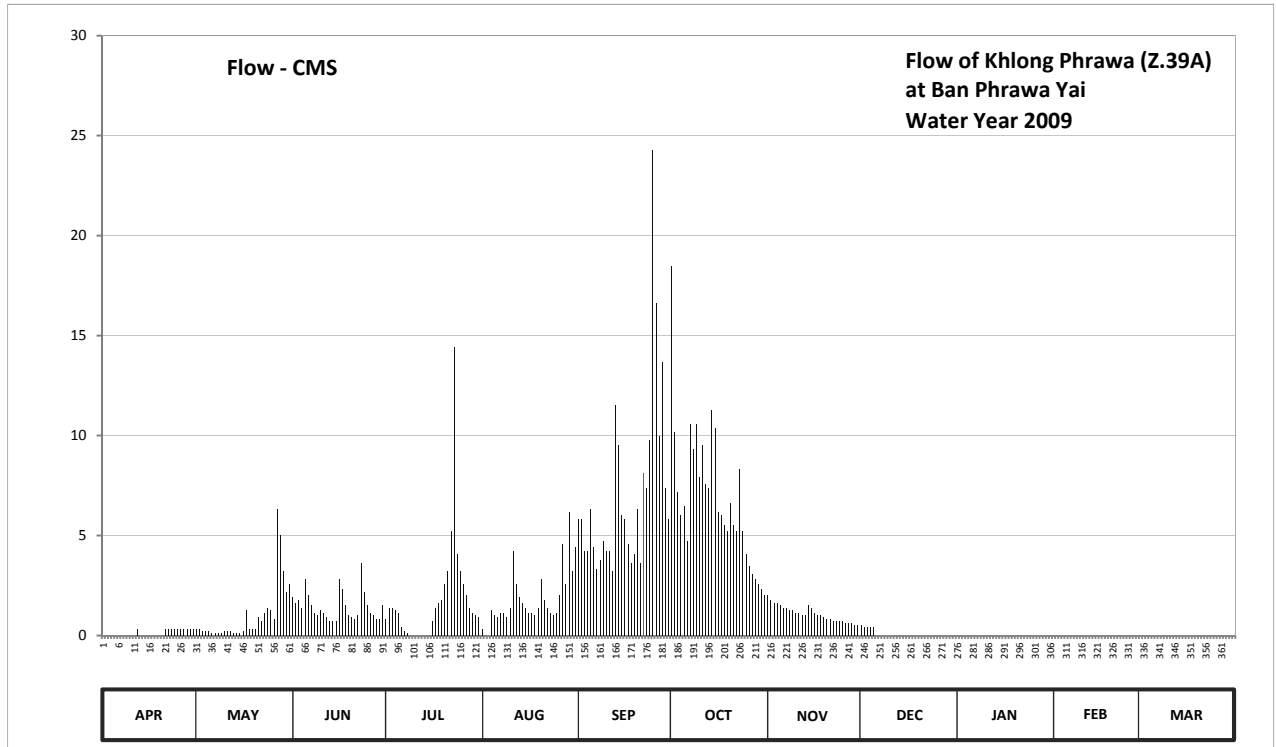
Lat 13 - 00 - 01 N Long 101 - 47 - 55 E

Location : on left bank at Ban Phrawa Yai.

	Ban Phrawa Yai	Amphoe Kaeng Hang Maeo	Changwat Chanthaburi
Drainage Area	80	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+52.027	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank next tall pole for electric cable near dwelling.	Elevation	+55.047 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 means of 5 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.60	52.63	52.77	52.68	52.63	53.04	53.61	52.78	52.65	52.74	52.78	52.51	
2	52.60	52.63	52.75	52.73	52.59	53.04	53.27	52.76	52.64	52.74	52.78	52.48	
3	52.60	52.62	52.76	52.73	52.57	52.94	53.12	52.75	52.64	52.74	52.78	52.45	
4	52.60	52.62	52.73	52.72	52.72	52.94	53.05	52.75	52.64	52.73	52.78	52.43	
5	52.60	52.62	52.84	52.71	52.70	53.07	53.08	52.74	52.64	52.75	52.79	52.43	
6	52.60	52.61	52.78	52.64	52.69	52.95	52.97	52.73	52.70	52.77	52.79	52.41	
7	52.60	52.61	52.74	52.62	52.71	52.88	53.29	52.73	52.81	52.81	52.79	52.39	
8	52.60	52.61	52.71	52.61	52.71	52.91	53.23	52.72	52.81	52.90	52.79	52.37	
9	52.60	52.61	52.70	52.57	52.69	52.97	53.29	52.72	52.80	52.89	52.78	52.34	
10	52.60	52.62	52.72	52.57	52.73	52.94	53.16	52.71	52.80	52.74	52.77	52.34	
11	52.40	52.62	52.71	52.56	52.94	52.94	53.24	52.71	52.80	52.89	52.77	52.34	
12	52.63	52.62	52.69	52.55	52.82	52.87	53.14	52.70	52.80	52.89	52.76	52.34	
13	52.60	52.61	52.67	52.54	52.77	53.33	53.13	52.70	52.80	52.89	52.78	52.34	
14	52.60	52.61	52.67	52.57	52.75	53.24	53.32	52.74	52.80	52.86	52.77	52.34	
15	52.60	52.61	52.67	52.58	52.73	53.05	53.28	52.73	52.80	52.88	52.76	52.34	
16	52.60	52.62	52.84	52.67	52.71	53.04	53.06	52.71	52.80	52.88	52.76	52.34	
17	52.60	52.72	52.80	52.73	52.71	52.96	53.05	52.70	52.80	52.86	52.75	52.34	
18	52.60	52.63	52.74	52.75	52.70	52.90	53.02	52.70	52.80	52.82	52.70	52.34	
19	52.60	52.63	52.70	52.76	52.73	52.93	53.00	52.69	52.80	52.80	52.63	52.34	
20	52.60	52.63	52.69	52.82	52.84	53.07	53.09	52.68	52.78	52.80	52.62	52.34	
21	52.63	52.69	52.68	52.87	52.76	52.90	53.02	52.68	52.78	52.80	52.61	52.34	
22	52.63	52.67	52.70	53.00	52.73	53.17	53.00	52.67	52.79	52.90	52.60	52.34	
23	52.63	52.71	52.90	53.45	52.71	53.13	53.18	52.67	52.79	52.84	52.59	52.34	
24	52.63	52.73	52.79	52.93	52.70	53.25	53.00	52.67	52.79	52.77	52.58	52.34	
25	52.63	52.72	52.74	52.87	52.71	53.81	52.93	52.67	52.77	52.79	52.57	52.34	
26	52.63	52.68	52.71	52.82	52.78	53.54	52.89	52.66	52.75	52.76	52.56	52.34	
27	52.63	53.07	52.70	52.78	52.96	53.26	52.86	52.66	52.74	52.74	52.54	52.34	
28	52.63	52.99	52.68	52.73	52.82	53.42	52.84	52.66	52.73	52.73	52.52	52.34	
29	52.63	52.87	52.68	52.71	53.06	53.13	52.82	52.65	52.74	52.71		52.34	
30	52.63	52.79	52.74	52.70	52.87	53.04	52.80	52.65	52.74	52.71		52.34	
31	52.63	52.82		52.69	52.95		52.78		52.75	52.74		52.34	
Mean	52.60	52.68	52.73	52.73	52.76	53.09	53.08	52.70	52.76	52.80	52.70	52.36	
Max	52.63	53.07	52.90	53.45	53.06	53.81	53.61	52.78	52.81	52.90	52.79	52.51	53.81
Min	52.40	52.61	52.67	52.54	52.57	52.87	52.78	52.65	52.64	52.71	52.52	52.34	52.34
Annual Max Momentary Gage Height	54.50		m. (MSL.) ,				at 24.00 Hours, on Sep 24, 2009						
Zero Gage at Bottom Elevation	52.03		m. (MSL.) ,			River Bed	51.83	m. (MSL)					
Left Bank Elevation	56.88		m. (MSL.) ,										
Right Bank Elevation	56.88		m. (MSL.) ,			Drainage Area	80	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.30	1.91	0.80	0.30	5.84	18.48	2.04	0.50	0.00	0.00	0.00	
2	0.00	0.30	1.65	1.39	0.00	5.84	10.17	1.78	0.40	0.00	0.00	0.00	
3	0.00	0.20	1.78	1.39	0.00	4.24	7.18	1.65	0.40	0.00	0.00	0.00	
4	0.00	0.20	1.39	1.26	1.26	4.24	6.00	1.65	0.40	0.00	0.00	0.00	
5	0.00	0.20	2.82	1.13	1.00	6.32	6.48	1.52	0.40	0.00	0.00	0.00	
6	0.00	0.10	2.04	0.40	0.90	4.40	4.72	1.39	0.00	0.00	0.00	0.00	
7	0.00	0.10	1.52	0.20	1.13	3.34	10.59	1.39	0.00	0.00	0.00	0.00	
8	0.00	0.10	1.13	0.10	1.13	3.76	9.33	1.26	0.00	0.00	0.00	0.00	
9	0.00	0.10	1.00	0.00	0.90	4.72	10.59	1.26	0.00	0.00	0.00	0.00	
10	0.00	0.20	1.26	0.00	1.39	4.24	7.94	1.13	0.00	0.00	0.00	0.00	
11	0.00	0.20	1.13	0.00	4.24	4.24	9.54	1.13	0.00	0.00	0.00	0.00	
12	0.30	0.20	0.90	0.00	2.56	3.21	7.56	1.00	0.00	0.00	0.00	0.00	
13	0.00	0.10	0.70	0.00	1.91	11.52	7.37	1.00	0.00	0.00	0.00	0.00	
14	0.00	0.10	0.70	0.00	1.65	9.54	11.28	1.52	0.00	0.00	0.00	0.00	
15	0.00	0.10	0.70	0.00	1.39	6.00	10.38	1.39	0.00	0.00	0.00	0.00	
16	0.00	0.20	2.82	0.70	1.13	5.84	6.16	1.13	0.00	0.00	0.00	0.00	
17	0.00	1.26	2.30	1.39	1.13	4.56	6.00	1.00	0.00	0.00	0.00	0.00	
18	0.00	0.30	1.52	1.65	1.00	3.60	5.52	1.00	0.00	0.00	0.00	0.00	
19	0.00	0.30	1.00	1.78	1.39	4.08	5.20	0.90	0.00	0.00	0.00	0.00	
20	0.00	0.30	0.90	2.56	2.82	6.32	6.64	0.80	0.00	0.00	0.00	0.00	
21	0.30	0.90	0.80	3.21	1.78	3.60	5.52	0.80	0.00	0.00	0.00	0.00	
22	0.30	0.70	1.00	5.20	1.39	8.13	5.20	0.70	0.00	0.00	0.00	0.00	
23	0.30	1.13	3.60	14.40	1.13	7.37	8.32	0.70	0.00	0.00	0.00	0.00	
24	0.30	1.39	2.17	4.08	1.00	9.75	5.20	0.70	0.00	0.00	0.00	0.00	
25	0.30	1.26	1.52	3.21	1.13	24.30	4.08	0.70	0.00	0.00	0.00	0.00	
26	0.30	0.80	1.13	2.56	2.04	16.64	3.47	0.60	0.00	0.00	0.00	0.00	
27	0.30	6.32	1.00	2.04	4.56	9.96	3.08	0.60	0.00	0.00	0.00	0.00	
28	0.30	5.04	0.80	1.39	2.56	13.68	2.82	0.60	0.00	0.00	0.00	0.00	
29	0.30	3.21	0.80	1.13	6.16	7.37	2.56	0.50	0.00	0.00	0.00	0.00	
30	0.30	2.17	1.52	1.00	3.21	5.84	2.30	0.50	0.00	0.00	0.00	0.00	
31		2.56		0.90	4.40		2.04		0.00	0.00		0.00	
Total	3.30	30.34	43.51	53.87	56.59	212.49	211.72	32.34	2.10	0.00	0.00	0.00	646.26 CMSDAY
Mean	0.11	0.98	1.45	1.74	1.83	7.08	6.83	1.08	0.07	0.00	0.00	0.00	1.77 CMS
Max	0.30	6.32	3.60	14.40	6.16	24.30	18.48	2.04	0.50	0.00	0.00	0.00	24.30 CMS
Min	0.00	0.10	0.70	0.00	0.00	3.21	2.04	0.50	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.29	2.62	3.76	4.65	4.89	18.36	18.29	2.79	0.18	0.00	0.00	0.00	55.84 MCM
Momentary Peak	49.60 CMS, at 54.50 m. (MSL), at 24.00 Hours, on Sep 24, 2009												
Runoff Yield	22.13 Liters/Second/Square KM.			Momentary Peak Yield			620.000 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Prakaet at Ban Prakaet , Chanthaburi (Z.42)

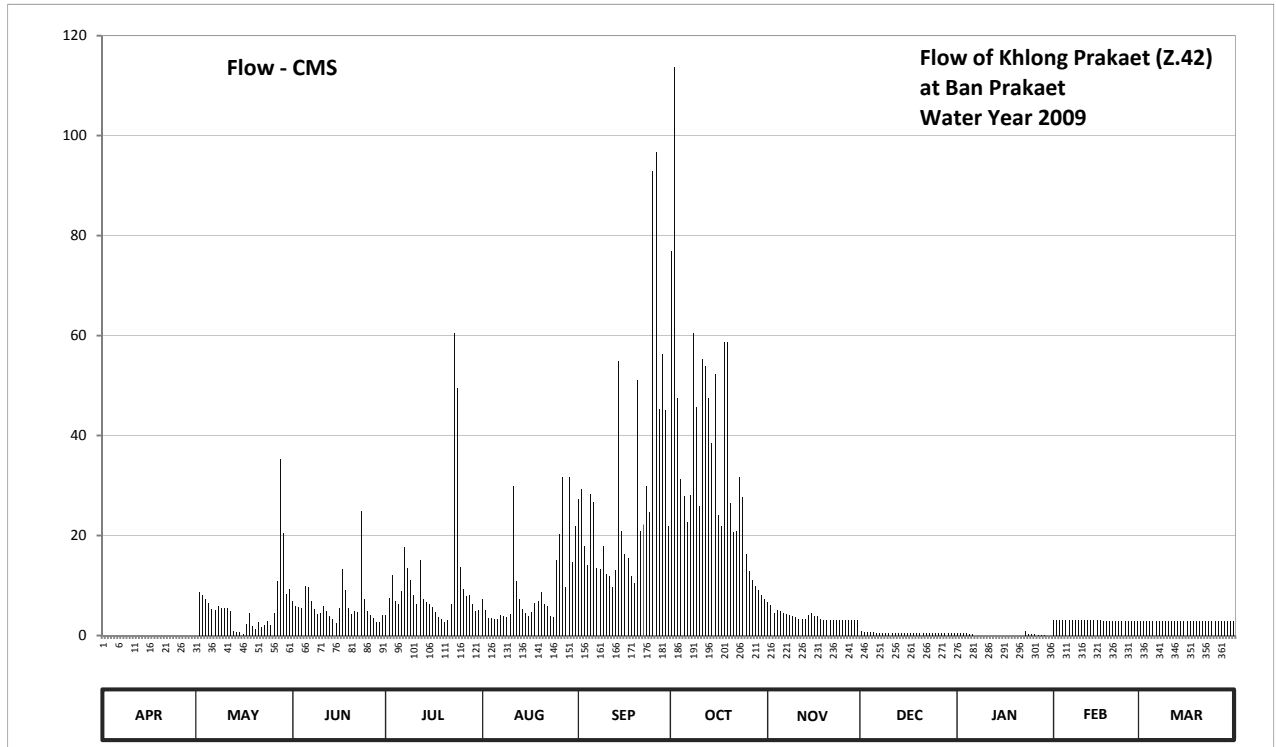
Lat 12 - 57 - 32 N Long 101 - 51 - 57 E

Location : on left bank at Ban Prakaet, Tambon Sam Phinong.

	Ban	Prakaet	Amphoe	Kaeng Hang Maeo	Changwat	Chanthaburi
Drainage Area	451	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+17.754	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 200 meters from the gage observer's house.				Elevation	+24.921 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 means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.89	17.88	18.53	18.34	18.55	19.54	21.44	18.51	18.09	18.05	18.27	18.26	
2	17.88	18.64	18.46	18.57	18.41	19.63	22.64	18.47	18.07	18.05	18.27	18.26	
3	17.87	18.61	18.45	18.83	18.30	19.11	20.37	18.37	18.07	18.05	18.27	18.26	
4	17.87	18.56	18.43	18.52	18.30	18.93	19.71	18.41	18.06	18.05	18.27	18.26	
5	17.90	18.50	18.71	18.48	18.29	19.59	19.57	18.40	18.06	18.03	18.27	18.26	
6	17.89	18.42	18.70	18.65	18.29	19.51	19.33	18.37	18.05	18.03	18.27	18.26	
7	17.89	18.41	18.52	19.10	18.34	18.90	19.58	18.35	18.05	17.84	18.27	18.26	
8	17.89	18.46	18.42	18.90	18.33	18.89	20.85	18.34	18.05	17.84	18.27	18.26	
9	17.89	18.43	18.35	18.77	18.31	19.11	20.30	18.33	18.05	17.84	18.27	18.26	
10	17.89	18.43	18.36	18.60	18.35	18.84	19.48	18.31	18.05	17.84	18.27	18.26	
11	17.89	18.43	18.46	18.48	19.65	18.82	20.67	18.29	18.05	17.84	18.27	18.26	
12	17.90	18.39	18.40	18.98	18.76	18.70	20.62	18.28	18.05	17.84	18.27	18.26	
13	17.90	18.09	18.33	18.55	18.55	18.88	20.37	18.28	18.05	17.84	18.27	18.26	
14	17.89	18.06	18.28	18.51	18.42	20.65	20.01	18.34	18.05	17.83	18.27	18.26	
15	17.89	18.06	18.23	18.48	18.36	19.25	20.56	18.36	18.05	17.83	18.27	18.26	
16	17.89	18.02	18.43	18.44	18.33	19.04	19.40	18.33	18.05	17.83	18.27	18.26	
17	17.89	18.22	18.89	18.38	18.38	19.00	19.30	18.32	18.05	17.83	18.26	18.26	
18	17.88	18.37	18.66	18.31	18.50	18.82	20.79	18.29	18.05	17.83	18.26	18.26	
19	17.88	18.19	18.43	18.28	18.52	18.74	20.79	18.27	18.05	17.83	18.26	18.26	
20	17.88	18.13	18.35	18.25	18.64	20.51	19.50	18.27	18.05	17.83	18.26	18.26	
21	17.87	18.25	18.40	18.27	18.49	19.25	19.24	18.27	18.05	17.83	18.26	18.26	
22	17.86	18.18	18.38	18.49	18.46	19.31	19.25	18.27	18.05	17.83	18.26	18.26	
23	17.85	18.20	19.43	20.85	18.33	19.65	19.73	18.27	18.05	18.08	18.26	18.26	
24	17.83	18.26	18.55	20.45	18.31	19.42	19.56	18.27	18.05	18.03	18.26	18.26	
25	17.82	18.21	18.40	18.91	18.98	21.99	19.04	18.27	18.05	18.03	18.26	18.26	
26	17.82	18.37	18.34	18.67	19.22	22.11	18.87	18.27	18.05	18.03	18.26	18.26	
27	17.87	18.76	18.30	18.59	19.73	20.29	18.77	18.27	18.05	18.01	18.26	18.26	
28	17.87	19.88	18.25	18.60	18.69	20.70	18.71	18.27	18.05	18.01	18.26	18.26	
29	17.87	19.23	18.25	18.49	19.73	20.28	18.66	18.27	18.05	18.01	18.26	18.26	
30	17.88	18.62	18.34	18.40	18.96	19.30	18.61	18.27	18.05	17.95	18.26	18.26	
31		18.67		18.41	19.30		18.56		18.05	17.95	18.26	18.26	
Mean	17.88	18.42	18.47	18.70	18.64	19.56	19.82	18.32	18.05	17.93	18.27	18.26	
Max	17.90	19.88	19.43	20.85	19.73	22.11	22.64	18.51	18.09	18.08	18.27	18.26	22.64
Min	17.82	17.88	18.23	18.25	18.29	18.70	18.56	18.27	18.05	17.83	18.26	18.26	17.82
Annual Max Momentary Gage Height		22.82		m. (MSL.) ,				at 06.00 Hours, on Oct 2, 2009					
Zero Gage at Bottom Elevation		17.75		m. (MSL.) ,		River Bed	17.75		m. (MSL)				
Left Bank Elevation		24.93		m. (MSL.) ,									
Right Bank Elevation		24.88		m. (MSL.) ,		Drainage Area	451		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	6.95	4.10	7.25	27.28	76.92	6.65	0.90	0.50	3.05	2.90		
2	0.00	8.72	5.90	7.55	5.15	29.32	113.68	6.05	0.70	0.50	3.05	2.90		
3	0.00	8.18	5.75	12.14	3.50	17.82	47.42	4.55	0.70	0.50	3.05	2.90		
4	0.00	7.40	5.45	6.80	3.50	14.03	31.24	5.15	0.60	0.50	3.05	2.90		
5	0.00	6.50	9.98	6.20	3.35	28.38	27.94	5.00	0.60	0.30	3.05	2.90		
6	0.00	5.30	9.80	8.90	3.35	26.62	22.66	4.55	0.50	0.30	3.05	2.90		
7	0.00	5.15	6.80	17.60	4.10	13.40	28.16	4.25	0.50	0.00	3.05	2.90		
8	0.00	5.90	5.30	13.40	3.95	13.22	60.40	4.10	0.50	0.00	3.05	2.90		
9	0.00	5.45	4.25	11.06	3.65	17.82	45.60	3.95	0.50	0.00	3.05	2.90		
10	0.00	5.45	4.40	8.00	4.25	12.32	25.96	3.65	0.50	0.00	3.05	2.90		
11	0.00	5.45	5.90	6.20	29.80	11.96	55.36	3.35	0.50	0.00	3.05	2.90		
12	0.00	4.85	5.00	15.08	10.88	9.80	53.96	3.20	0.50	0.00	3.05	2.90		
13	0.00	0.90	3.95	7.25	7.25	13.04	47.42	3.20	0.50	0.00	3.05	2.90		
14	0.00	0.60	3.20	6.65	5.30	54.80	38.44	4.10	0.50	0.00	3.05	2.90		
15	0.00	0.60	2.45	6.20	4.40	20.90	52.36	4.40	0.50	0.00	3.05	2.90		
16	0.00	0.20	5.45	5.60	3.95	16.34	24.20	3.95	0.50	0.00	3.05	2.90		
17	0.00	2.30	13.22	4.70	4.70	15.50	22.00	3.80	0.50	0.00	2.90	2.90		
18	0.00	4.55	9.08	3.65	6.50	11.96	58.72	3.35	0.50	0.00	2.90	2.90		
19	0.00	1.90	5.45	3.20	6.80	10.52	58.72	3.05	0.50	0.00	2.90	2.90		
20	0.00	1.30	4.25	2.75	8.72	51.06	26.40	3.05	0.50	0.00	2.90	2.90		
21	0.00	2.75	5.00	3.05	6.35	20.90	20.68	3.05	0.50	0.00	2.90	2.90		
22	0.00	1.80	4.70	6.35	5.90	22.22	20.90	3.05	0.50	0.00	2.90	2.90		
23	0.00	2.00	24.86	60.40	3.95	29.80	31.72	3.05	0.50	0.80	2.90	2.90		
24	0.00	2.90	7.25	49.50	3.65	24.64	27.72	3.05	0.50	0.30	2.90	2.90		
25	0.00	2.15	5.00	13.61	15.08	92.90	16.34	3.05	0.50	0.30	2.90	2.90		
26	0.00	4.55	4.10	9.26	20.24	96.72	12.86	3.05	0.50	0.30	2.90	2.90		
27	0.00	10.88	3.50	7.85	31.72	45.34	11.06	3.05	0.50	0.10	2.90	2.90		
28	0.00	35.32	2.75	8.00	9.62	56.20	9.98	3.05	0.50	0.10	2.90	2.90		
29	0.00	20.46	2.75	6.35	31.72	45.08	9.08	3.05	0.50	0.10	2.90	2.90		
30	0.00	8.36	4.10	5.00	14.66	22.00	8.18	3.05	0.50	0.00	2.90	2.90		
31	0.00	9.26	5.15	22.00	7.40	7.40	7.40	0.50	0.00	0.00	2.90	2.90		
Total	0.00	181.13	186.54	331.55	295.24	871.89	1093.48	113.85	16.50	4.60	83.60	89.90	3268.28	CMSDAY
Mean	0.00	5.84	6.22	10.70	9.52	29.06	35.27	3.80	0.53	0.15	2.99	2.90	8.95	CMS
Max	0.00	35.32	24.86	60.40	31.72	96.72	113.68	6.65	0.90	0.80	3.05	2.90	113.68	CMS
Min	0.00	0.00	2.45	2.75	3.35	9.80	7.40	3.05	0.50	0.00	2.90	2.90	0.00	CMS
Runoff	0.00	15.65	16.12	28.65	25.51	75.33	94.48	9.84	1.43	0.40	7.22	7.77	282.38	MCM
Momentary Peak	119.44 CMS, at 22.82 m. (MSL), at 06.00 Hours, on Oct 2, 2009													
Runoff Yield	19.85 Liters/Second/Square KM.			Momentary Peak Yield			264.834 Liters/Second/Square KM.							

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Hin Phloeng at Ban Hin Phloeng , Chanthaburi (Z.43)

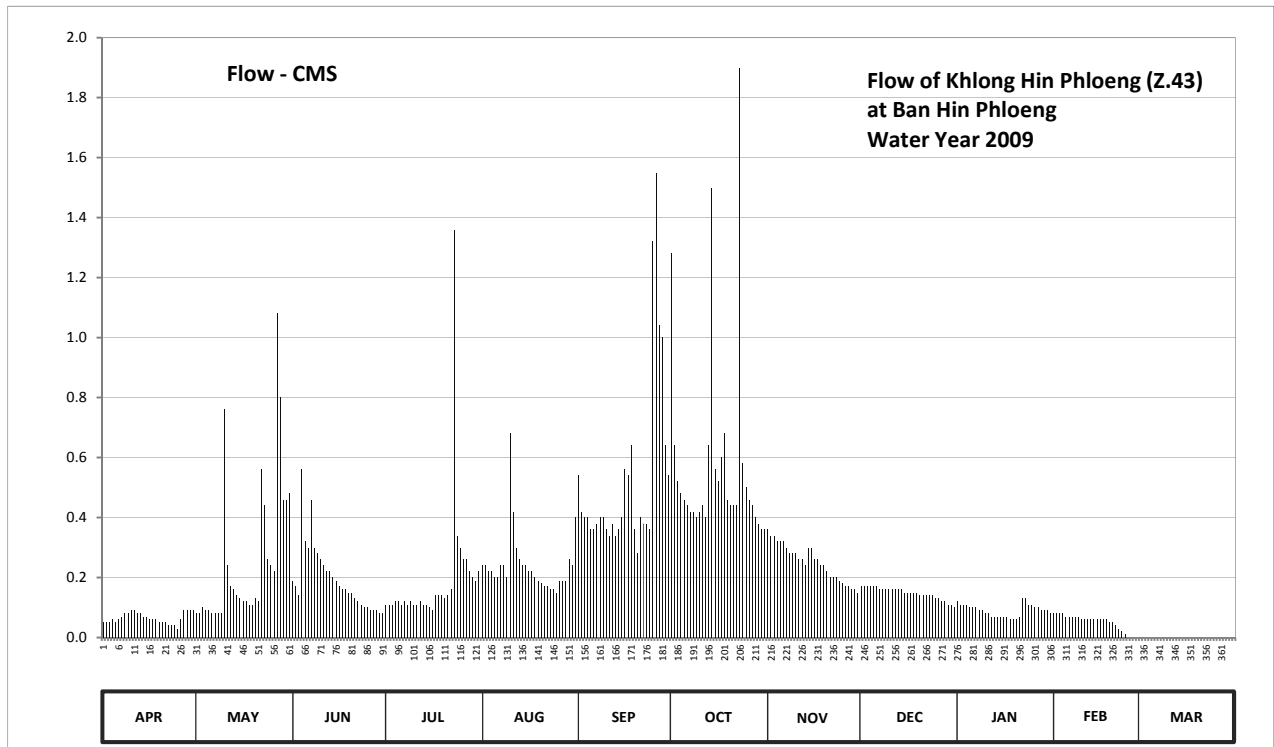
Lat 12 - 57 - 04 N Long 101 - 47 - 59 E

Location : on right bank at the bridge on highway.

	Ban Hin Phloeng	Amphoe Kaeng Hang Maeo	Changwat Chanthaburi
Drainage Area	4 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+45.094 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 20 meters from the top staff gage.		Elevation +48.611 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 means of 5 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable with variable water surface slope.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.45	45.48	45.59	45.51	45.62	45.77	45.97	45.68	45.57	45.52	45.48	45.37	
2	45.45	45.48	45.57	45.51	45.62	45.71	45.81	45.67	45.57	45.51	45.48	45.37	
3	45.45	45.50	45.54	45.51	45.61	45.70	45.76	45.67	45.57	45.51	45.48	45.37	
4	45.46	45.49	45.78	45.52	45.61	45.70	45.74	45.66	45.57	45.51	45.48	45.37	
5	45.45	45.49	45.66	45.52	45.60	45.68	45.73	45.66	45.57	45.50	45.47	45.37	
6	45.46	45.48	45.65	45.51	45.60	45.68	45.72	45.66	45.57	45.50	45.47	45.37	
7	45.47	45.48	45.73	45.52	45.62	45.69	45.71	45.65	45.56	45.50	45.47	45.37	
8	45.48	45.48	45.65	45.51	45.62	45.70	45.71	45.64	45.56	45.49	45.47	45.37	
9	45.48	45.48	45.64	45.52	45.60	45.70	45.70	45.64	45.56	45.49	45.47	45.36	
10	45.49	45.84	45.63	45.51	45.82	45.68	45.71	45.64	45.56	45.48	45.46	45.36	
11	45.49	45.62	45.62	45.51	45.71	45.67	45.72	45.63	45.56	45.48	45.46	45.36	
12	45.48	45.57	45.61	45.52	45.65	45.69	45.70	45.63	45.56	45.47	45.46	45.36	
13	45.48	45.56	45.61	45.51	45.63	45.67	45.81	45.62	45.56	45.47	45.46	45.36	
14	45.47	45.54	45.60	45.51	45.62	45.68	46.02	45.65	45.56	45.47	45.46	45.36	
15	45.47	45.53	45.59	45.50	45.62	45.70	45.78	45.65	45.55	45.47	45.46	45.36	
16	45.46	45.52	45.57	45.49	45.61	45.78	45.76	45.63	45.55	45.47	45.46	45.35	
17	45.46	45.52	45.56	45.54	45.61	45.77	45.80	45.63	45.55	45.47	45.46	45.35	
18	45.46	45.51	45.56	45.54	45.60	45.81	45.82	45.62	45.55	45.46	45.46	45.35	
19	45.45	45.51	45.55	45.54	45.59	45.68	45.73	45.62	45.55	45.46	45.45	45.34	
20	45.45	45.53	45.55	45.53	45.58	45.64	45.72	45.61	45.54	45.46	45.45	45.33	
21	45.45	45.52	45.53	45.54	45.57	45.70	45.72	45.60	45.54	45.47	45.44	45.32	
22	45.44	45.78	45.52	45.56	45.57	45.69	45.72	45.60	45.54	45.53	45.43	45.31	
23	45.44	45.72	45.51	45.99	45.56	45.69	46.10	45.60	45.54	45.53	45.42	45.30	
24	45.44	45.63	45.50	45.67	45.56	45.68	45.79	45.59	45.54	45.51	45.41	45.29	
25	45.43	45.62	45.50	45.65	45.55	45.98	45.75	45.58	45.53	45.51	45.40	45.28	
26	45.46	45.61	45.49	45.63	45.59	46.03	45.73	45.57	45.53	45.50	45.39	45.28	
27	45.49	45.92	45.49	45.63	45.59	45.91	45.72	45.57	45.52	45.50	45.38	45.33	
28	45.49	45.85	45.49	45.61	45.59	45.90	45.70	45.56	45.52	45.49	45.37	45.32	
29	45.49	45.73	45.48	45.60	45.63	45.81	45.69	45.56	45.51	45.49		45.31	
30	45.49	45.73	45.48	45.59	45.62	45.77	45.68	45.55	45.51	45.49		45.30	
31		45.74		45.61	45.70		45.68		45.50	45.48		45.28	
Mean	45.46	45.60	45.58	45.56	45.62	45.74	45.76	45.62	45.55	45.49	45.45	45.34	
Max	45.49	45.92	45.78	45.99	45.82	46.03	46.10	45.68	45.57	45.53	45.48	45.37	46.10
Min	45.43	45.48	45.48	45.49	45.55	45.64	45.68	45.55	45.50	45.46	45.37	45.28	45.28
Annual Max Momentary Gage Height	47.39		m. (MSL.) ,				at 14.00 Hours, on May 27, 2009						
Zero Gage at Bottom Elevation	45.09		m. (MSL.) ,			River Bed	45.19	m. (MSL)					
Left Bank Elevation		49.85		m. (MSL.) ,									
Right Bank Elevation		49.85		m. (MSL.) ,		Drainage Area	4	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.08	0.19	0.11	0.24	0.54	1.28	0.36	0.17	0.12	0.08	0.00	
2	0.05	0.08	0.17	0.11	0.24	0.42	0.64	0.34	0.17	0.11	0.08	0.00	
3	0.05	0.10	0.14	0.11	0.22	0.40	0.52	0.34	0.17	0.11	0.08	0.00	
4	0.06	0.09	0.56	0.12	0.22	0.40	0.48	0.32	0.17	0.11	0.08	0.00	
5	0.05	0.09	0.32	0.12	0.20	0.36	0.46	0.32	0.17	0.10	0.07	0.00	
6	0.06	0.08	0.30	0.11	0.20	0.36	0.44	0.32	0.17	0.10	0.07	0.00	
7	0.07	0.08	0.46	0.12	0.24	0.38	0.42	0.30	0.16	0.10	0.07	0.00	
8	0.08	0.08	0.30	0.11	0.24	0.40	0.42	0.28	0.16	0.09	0.07	0.00	
9	0.08	0.08	0.28	0.12	0.20	0.40	0.40	0.28	0.16	0.09	0.07	0.00	
10	0.09	0.76	0.26	0.11	0.68	0.36	0.42	0.28	0.16	0.08	0.06	0.00	
11	0.09	0.24	0.24	0.11	0.42	0.34	0.44	0.26	0.16	0.08	0.06	0.00	
12	0.08	0.17	0.22	0.12	0.30	0.38	0.40	0.26	0.16	0.07	0.06	0.00	
13	0.08	0.16	0.22	0.11	0.26	0.34	0.64	0.24	0.16	0.07	0.06	0.00	
14	0.07	0.14	0.20	0.11	0.24	0.36	1.50	0.30	0.16	0.07	0.06	0.00	
15	0.07	0.13	0.19	0.10	0.24	0.40	0.56	0.30	0.15	0.07	0.06	0.00	
16	0.06	0.12	0.17	0.09	0.22	0.56	0.52	0.26	0.15	0.07	0.06	0.00	
17	0.06	0.12	0.16	0.14	0.22	0.54	0.60	0.26	0.15	0.07	0.06	0.00	
18	0.06	0.11	0.16	0.14	0.20	0.64	0.68	0.24	0.15	0.06	0.06	0.00	
19	0.05	0.11	0.15	0.14	0.19	0.36	0.46	0.24	0.15	0.06	0.05	0.00	
20	0.05	0.13	0.15	0.13	0.18	0.28	0.44	0.22	0.14	0.06	0.05	0.00	
21	0.05	0.12	0.13	0.14	0.17	0.40	0.44	0.20	0.14	0.07	0.04	0.00	
22	0.04	0.56	0.12	0.16	0.17	0.38	0.44	0.20	0.14	0.13	0.03	0.00	
23	0.04	0.44	0.11	1.36	0.16	0.38	1.90	0.20	0.14	0.13	0.02	0.00	
24	0.04	0.26	0.10	0.34	0.16	0.36	0.58	0.19	0.14	0.11	0.01	0.00	
25	0.03	0.24	0.10	0.30	0.15	1.32	0.50	0.18	0.13	0.11	0.00	0.00	
26	0.06	0.22	0.09	0.26	0.19	1.55	0.46	0.17	0.13	0.10	0.00	0.00	
27	0.09	1.08	0.09	0.26	0.19	1.04	0.44	0.17	0.12	0.10	0.00	0.00	
28	0.09	0.80	0.09	0.22	0.19	1.00	0.40	0.16	0.12	0.09	0.00	0.00	
29	0.09	0.46	0.08	0.20	0.26	0.64	0.38	0.16	0.11	0.09	0.00	0.00	
30	0.09	0.46	0.08	0.19	0.24	0.54	0.36	0.15	0.11	0.09	0.00	0.00	
31		0.48		0.22	0.40		0.36		0.10	0.08		0.00	
Total	1.93	8.07	5.83	5.98	7.43	15.83	17.98	7.50	4.57	2.79	1.41	0.00	79.32 CMSDAY
Mean	0.06	0.26	0.19	0.19	0.24	0.53	0.58	0.25	0.15	0.09	0.05	0.00	0.22 CMS
Max	0.09	1.08	0.56	1.36	0.68	1.55	1.90	0.36	0.17	0.13	0.08	0.00	1.90 CMS
Min	0.03	0.08	0.08	0.09	0.15	0.28	0.36	0.15	0.10	0.06	0.00	0.00	0.00 CMS
Runoff	0.17	0.70	0.50	0.52	0.64	1.37	1.55	0.65	0.40	0.24	0.12	0.00	6.85 MCM
Momentary Peak	14.76 CMS, at 47.39 m. (MSL), at 14.00 Hours, on May 27, 2009												
Runoff Yield	54.33 Liters/Second/Square KM.						Momentary Peak Yield						3690.000 Liters/Second/Square KM.

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Ko Lae at Ban Nong Bon , Trat (Z.45)

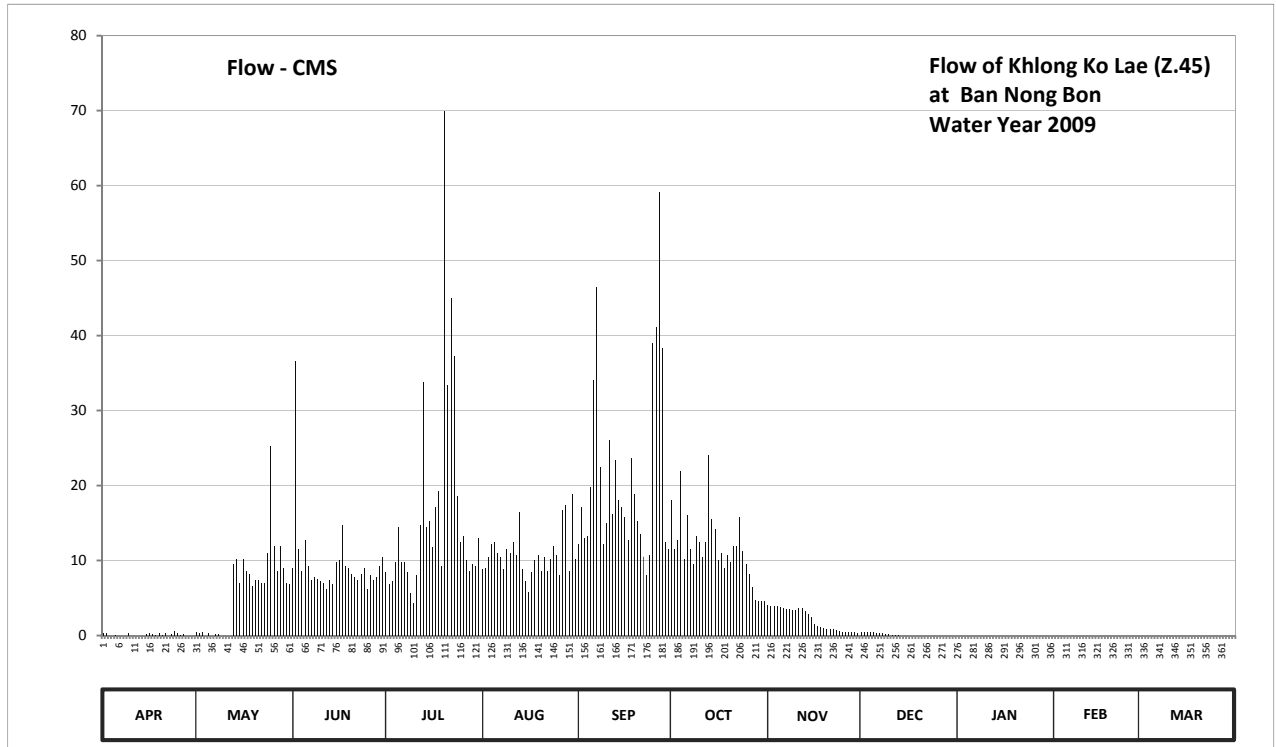
Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

	Ban	Nong Bon	Amphoe	Bo Rai	Changwat	Trat
Drainage Area	58	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+31.250	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 15 meters from the top staff gage.				Elevation	+36.356 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 means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.03	31.05	31.60	31.57	31.59	31.73	31.95	31.34	31.05	30.97	30.92	30.88	
2	31.03	31.03	32.53	31.49	31.60	31.92	31.70	31.33	31.05	30.97	30.90	30.72	
3	31.00	31.05	31.70	31.51	31.66	31.76	31.75	31.33	31.04	30.97	30.90	30.79	
4	31.00	31.00	31.58	31.63	31.73	31.77	32.08	31.33	31.04	30.97	30.88	30.72	
5	31.01	31.03	31.75	31.82	31.74	32.01	31.65	31.32	31.04	30.96	30.87	30.78	
6	30.99	31.00	31.61	31.63	31.68	32.46	31.88	31.31	31.03	30.96	30.86	30.75	
7	31.00	31.02	31.52	31.63	31.66	32.81	31.70	31.30	31.03	30.95	30.84	30.73	
8	31.00	31.02	31.54	31.57	31.59	32.10	31.62	31.30	31.03	30.95	30.83	30.73	
9	31.03	31.00	31.53	31.43	31.70	31.73	31.77	31.29	31.02	30.95	30.81	30.73	
10	30.98	30.95	31.51	31.36	31.68	31.84	31.74	31.29	31.02	30.94	30.80	30.78	
11	30.93	30.92	31.50	31.55	31.74	32.22	31.66	31.31	31.01	30.94	30.79	30.80	
12	30.93	30.97	31.46	31.83	31.67	31.89	31.74	31.31	31.01	30.94	30.79	30.76	
13	30.97	31.62	31.52	32.45	31.90	32.13	32.15	31.28	31.01	30.94	30.79	30.81	
14	31.00	31.65	31.49	31.82	31.59	31.95	31.86	31.26	31.00	30.93	30.79	30.80	
15	31.02	31.50	31.63	31.85	31.51	31.92	31.81	31.23	31.00	30.93	30.78	30.85	
16	31.03	31.65	31.64	31.71	31.44	31.87	31.64	31.15	31.00	30.93	30.78	30.76	
17	31.02	31.58	31.83	31.92	31.57	31.75	31.68	31.13	31.00	30.94	30.77	30.85	
18	31.01	31.56	31.61	31.99	31.64	32.14	31.60	31.11	30.99	30.94	30.77	30.68	
19	31.03	31.48	31.60	31.61	31.67	31.98	31.67	31.10	30.98	30.94	30.77	30.79	
20	31.01	31.52	31.56	33.40	31.58	31.85	31.63	31.09	30.98	30.94	30.78	30.69	
21	31.03	31.52	31.54	32.44	31.66	31.78	31.72	31.09	30.98	30.94	30.77	30.69	
22	31.00	31.50	31.52	32.77	31.58	31.66	31.72	31.08	30.99	30.95	30.77	30.69	
23	31.02	31.50	31.56	32.55	31.65	31.55	31.87	31.07	30.99	30.95	30.76	30.73	
24	31.06	31.68	31.60	31.97	31.72	31.67	31.69	31.06	30.99	30.95	30.76	30.74	
25	31.03	32.19	31.46	31.74	31.67	32.60	31.62	31.05	30.98	30.95	30.75	30.75	
26	31.01	31.72	31.55	31.77	31.55	32.66	31.56	31.04	30.97	30.95	30.75	30.87	
27	31.02	31.58	31.52	31.64	31.91	33.13	31.47	31.05	30.97	30.95	30.75	30.79	
28	31.00	31.72	31.54	31.58	31.93	32.58	31.38	31.05	30.97	30.95	30.76	30.72	
29	30.99	31.60	31.61	31.62	31.58	31.74	31.37	31.04	30.97	30.94		30.72	
30	31.00	31.50	31.66	31.61	31.98	31.70	31.37	31.03	30.98	30.94		30.76	
31		31.49		31.76	31.65		31.37		30.98	30.94		30.69	
Mean	31.01	31.37	31.61	31.85	31.67	32.03	31.69	31.19	31.00	30.95	30.80	30.76	
Max	31.06	32.19	32.53	33.40	31.98	33.13	32.15	31.34	31.05	30.97	30.92	30.88	33.40
Min	30.93	30.92	31.46	31.36	31.44	31.55	31.37	31.03	30.97	30.93	30.75	30.68	30.68
Annual Max Momentary Gage Height	35.19		m. (MSL.) ,			at 12.00 Hours, on Jul 20, 2009							
Zero Gage at Bottom Elevation	31.25		m. (MSL.) ,			River Bed	30.36		m. (MSL)				
Left Bank Elevation	35.31		m. (MSL.) ,										
Right Bank Elevation	35.32		m. (MSL.) ,			Drainage Area	58		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.50	9.00	8.40	8.80	12.25	18.00	4.10	0.50	0.00	0.00	0.00	
2	0.30	0.30	36.55	6.80	9.00	17.10	11.50	3.95	0.50	0.00	0.00	0.00	
3	0.00	0.50	11.50	7.20	10.50	13.00	12.75	3.95	0.40	0.00	0.00	0.00	
4	0.00	0.00	8.60	9.75	12.25	13.25	21.90	3.95	0.40	0.00	0.00	0.00	
5	0.10	0.30	12.75	14.50	12.50	19.80	10.25	3.80	0.40	0.00	0.00	0.00	
6	0.00	0.00	9.25	9.75	11.00	34.10	16.00	3.65	0.30	0.00	0.00	0.00	
7	0.00	0.20	7.40	9.75	10.50	46.40	11.50	3.50	0.30	0.00	0.00	0.00	
8	0.00	0.20	7.80	8.40	8.80	22.50	9.50	3.50	0.30	0.00	0.00	0.00	
9	0.30	0.00	7.60	5.60	11.50	12.25	13.25	3.35	0.20	0.00	0.00	0.00	
10	0.00	0.00	7.20	4.40	11.00	15.00	12.50	3.35	0.20	0.00	0.00	0.00	
11	0.00	0.00	7.00	8.00	12.50	26.10	10.50	3.65	0.10	0.00	0.00	0.00	
12	0.00	0.00	6.20	14.75	10.75	16.25	12.50	3.65	0.10	0.00	0.00	0.00	
13	0.00	9.50	7.40	33.75	16.50	23.40	24.00	3.20	0.10	0.00	0.00	0.00	
14	0.00	10.25	6.80	14.50	8.80	18.00	15.50	2.90	0.00	0.00	0.00	0.00	
15	0.20	7.00	9.75	15.25	7.20	17.10	14.25	2.45	0.00	0.00	0.00	0.00	
16	0.30	10.25	10.00	11.75	5.80	15.75	10.00	1.50	0.00	0.00	0.00	0.00	
17	0.20	8.60	14.75	17.10	8.40	12.75	11.00	1.30	0.00	0.00	0.00	0.00	
18	0.10	8.20	9.25	19.20	10.00	23.70	9.00	1.10	0.00	0.00	0.00	0.00	
19	0.30	6.60	9.00	9.25	10.75	18.90	10.75	1.00	0.00	0.00	0.00	0.00	
20	0.10	7.40	8.20	70.00	8.60	15.25	9.75	0.90	0.00	0.00	0.00	0.00	
21	0.30	7.40	7.80	33.40	10.50	13.50	12.00	0.90	0.00	0.00	0.00	0.00	
22	0.00	7.00	7.40	44.95	8.60	10.50	12.00	0.80	0.00	0.00	0.00	0.00	
23	0.20	7.00	8.20	37.25	10.25	8.00	15.75	0.70	0.00	0.00	0.00	0.00	
24	0.60	11.00	9.00	18.60	12.00	10.75	11.25	0.60	0.00	0.00	0.00	0.00	
25	0.30	25.20	6.20	12.50	10.75	39.00	9.50	0.50	0.00	0.00	0.00	0.00	
26	0.10	12.00	8.00	13.25	8.00	41.10	8.20	0.40	0.00	0.00	0.00	0.00	
27	0.20	8.60	7.40	10.00	16.80	59.20	6.40	0.50	0.00	0.00	0.00	0.00	
28	0.00	12.00	7.80	8.60	17.40	38.30	4.70	0.50	0.00	0.00	0.00	0.00	
29	0.00	9.00	9.25	9.50	8.60	12.50	4.55	0.40	0.00	0.00	0.00	0.00	
30	0.00	7.00	10.50	9.25	18.90	11.50	4.55	0.30	0.00	0.00	0.00	0.00	
31		6.80		13.00	10.25		4.55		0.00	0.00		0.00	
Total	3.90	182.80	287.55	508.40	337.20	637.20	357.85	64.35	3.80	0.00	0.00	0.00	2383.05 CMSDAY
Mean	0.13	5.90	9.59	16.40	10.88	21.24	11.54	2.15	0.12	0.00	0.00	0.00	6.53 CMS
Max	0.60	25.20	36.55	70.00	18.90	59.20	24.00	4.10	0.50	0.00	0.00	0.00	70.00 CMS
Min	0.00	0.00	6.20	4.40	5.80	8.00	4.55	0.30	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.34	15.79	24.84	43.93	29.13	55.05	30.92	5.56	0.33	0.00	0.00	0.00	205.90 MCM
Momentary Peak	154.50 CMS, at 35.19 m. (MSL), at 12.00 Hours, on Jul 20, 2009												
Runoff Yield	112.57 Liters/Second/Square KM.			Momentary Peak Yield			2663.793 Liters/Second/Square KM.						

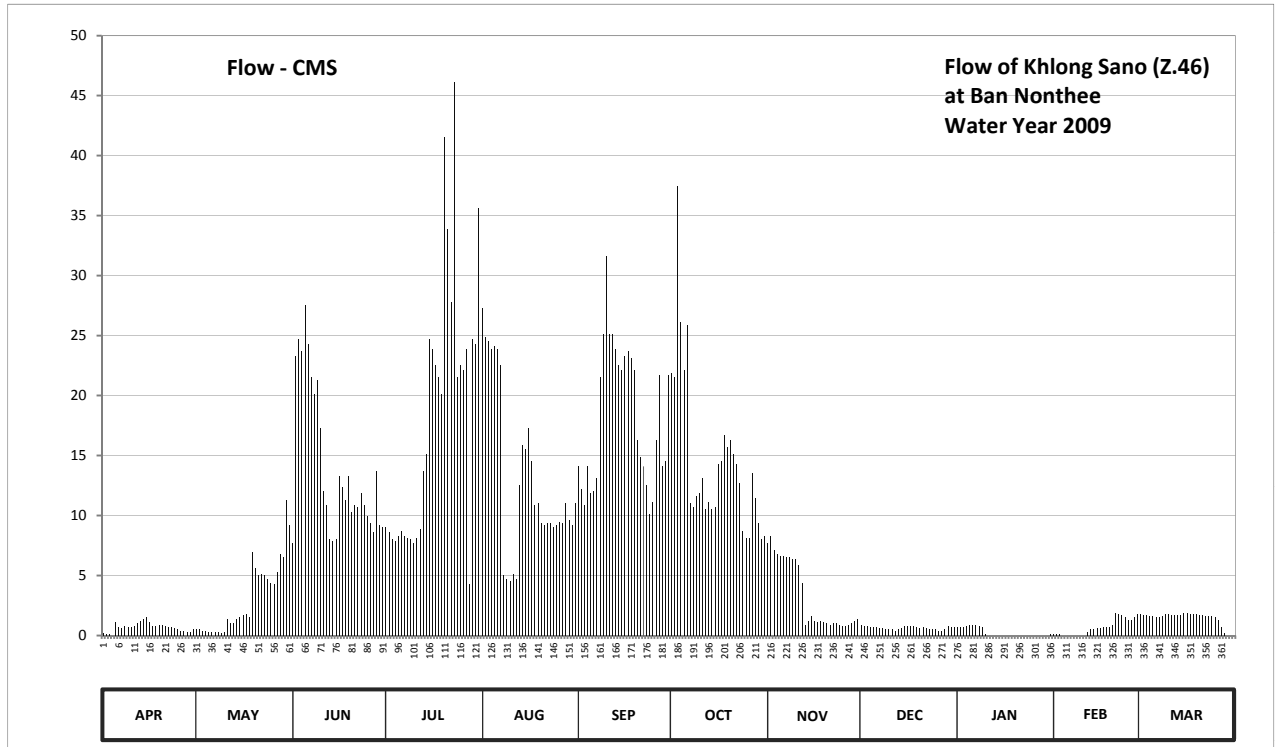
WATER YEAR : 2009
EAST COAST - GULF BASIN
Khlong Sano at Ban Nonthee , Trat (Z.46)
 Lat 12 - 31 - 05 N Long 102 - 35 - 00 E

Location : on right bank at Ban Nonthee.

	Ban	Nonthee	Amphoe	Bo Rai	Changwat	Trat
Drainage Area	92	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+20.130	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 50 meters from the top staff gage.				Elevation	+27.928 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 means of 5 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.82	19.85	20.38	20.47	21.43	20.78	21.17	20.38	19.89	19.87	19.81	19.98	
2	19.81	19.85	21.24	20.44	21.32	20.68	21.15	20.42	19.88	19.87	19.81	19.97	
3	19.81	19.84	21.31	20.40	21.30	20.59	21.83	20.34	19.88	19.87	19.81	19.97	
4	19.80	19.84	21.26	20.39	21.27	20.78	21.38	20.32	19.87	19.88	19.80	19.96	
5	19.91	19.83	21.44	20.42	21.28	20.66	21.18	20.31	19.87	19.89	19.80	19.96	
6	19.87	19.83	21.29	20.45	21.27	20.67	21.37	20.31	19.87	19.89	19.79	19.95	
7	19.86	19.83	21.15	20.42	21.20	20.73	20.60	20.30	19.86	19.89	19.79	19.95	
8	19.88	19.83	21.08	20.41	20.20	21.15	20.58	20.30	19.86	19.88	19.79	19.96	
9	19.87	19.82	21.14	20.40	20.18	21.33	20.64	20.29	19.85	19.87	19.78	19.98	
10	19.87	19.83	20.94	20.38	20.17	21.60	20.66	20.29	19.85	19.81	19.79	19.98	
11	19.88	19.94	20.67	20.41	20.21	21.33	20.73	20.26	19.85	19.71	19.80	19.97	
12	19.90	19.90	20.59	20.46	20.18	21.33	20.57	20.16	19.84	19.71	19.83	19.97	
13	19.92	19.90	20.40	20.76	20.70	21.27	20.61	19.89	19.85	19.71	19.85	19.97	
14	19.94	19.94	20.39	20.83	20.87	21.20	20.57	19.92	19.86	19.72	19.85	19.97	
15	19.95	19.95	20.40	21.31	20.85	21.18	20.58	19.96	19.88	19.71	19.86	19.99	
16	19.91	19.97	20.74	21.27	20.94	21.24	20.79	19.92	19.88	19.70	19.86	19.99	
17	19.88	19.98	20.69	21.20	20.80	21.26	20.80	19.91	19.88	19.69	19.87	19.98	
18	19.88	19.95	20.62	21.15	20.59	21.23	20.91	19.92	19.88	19.69	19.87	19.98	
19	19.89	20.33	20.74	21.08	20.60	21.18	20.86	19.91	19.87	19.73	19.87	19.98	
20	19.89	20.24	20.55	21.99	20.49	20.89	20.89	19.90	19.86	19.75	19.89	19.97	
21	19.88	20.20	20.59	21.69	20.48	20.82	20.83	19.89	19.87	19.76	19.99	19.97	
22	19.87	20.21	20.58	21.45	20.49	20.78	20.79	19.90	19.86	19.76	19.98	19.96	
23	19.87	20.20	20.66	22.17	20.49	20.70	20.71	19.90	19.85	19.77	19.97	19.96	
24	19.86	20.18	20.59	21.15	20.47	20.54	20.45	19.89	19.85	19.77	19.95	19.96	
25	19.85	20.16	20.53	21.20	20.48	20.61	20.41	19.88	19.85	19.78	19.93	19.95	
26	19.84	20.15	20.49	21.18	20.50	20.89	20.41	19.88	19.84	19.78	19.93	19.93	
27	19.84	20.22	20.44	21.27	20.49	21.16	20.75	19.89	19.84	19.79	19.95	19.87	
28	19.83	20.32	20.76	20.15	20.60	20.78	20.63	19.90	19.85	19.79	19.98	19.82	
29	19.83	20.30	20.48	21.31	20.51	20.80	20.49	19.92	19.88	19.80		19.68	
30	19.85	20.62	20.47	21.29	20.48	21.16	20.40	19.94	19.87	19.80		19.65	
31		20.48		21.76	20.60		20.42		19.87	19.81		19.63	
Mean	19.87	20.05	20.75	20.94	20.69	20.98	20.78	20.07	19.86	19.79	19.86	19.93	
Max	19.95	20.62	21.44	22.17	21.43	21.60	21.83	20.42	19.89	19.89	19.99	19.99	22.17
Min	19.80	19.82	20.38	20.15	20.17	20.54	20.40	19.88	19.84	19.69	19.78	19.63	19.63
Annual Max Momentary Gage Height	24.00		m. (MSL.) ,			at 06.00 Hours, on Jul 23, 2009							
Zero Gage at Bottom Elevation	20.13		m. (MSL.) ,			River Bed	19.13	m. (MSL)					
Left Bank Elevation	28.10		m. (MSL.) ,										
Right Bank Elevation	27.85		m. (MSL.) ,			Drainage Area	92	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.50	7.70	9.05	27.26	14.10	21.90	7.70	0.90	0.70	0.10	1.80	
2	0.10	0.50	23.30	8.60	24.90	12.20	21.50	8.30	0.80	0.70	0.10	1.70	
3	0.10	0.40	24.70	8.00	24.50	10.85	37.45	7.10	0.80	0.70	0.10	1.70	
4	0.00	0.40	23.70	7.85	23.90	14.10	26.10	6.80	0.70	0.80	0.00	1.60	
5	1.10	0.30	27.52	8.30	24.10	11.90	22.10	6.65	0.70	0.90	0.00	1.60	
6	0.70	0.30	24.30	8.75	23.90	12.05	25.90	6.65	0.70	0.90	0.00	1.50	
7	0.60	0.30	21.50	8.30	22.50	13.10	11.00	6.50	0.60	0.90	0.00	1.50	
8	0.80	0.30	20.10	8.15	5.00	21.50	10.70	6.50	0.60	0.80	0.00	1.60	
9	0.70	0.20	21.30	8.00	4.70	25.10	11.60	6.35	0.50	0.70	0.00	1.80	
10	0.70	0.30	17.30	7.70	4.55	31.59	11.90	6.35	0.50	0.10	0.00	1.80	
11	0.80	1.40	12.05	8.15	5.15	25.10	13.10	5.90	0.50	0.00	0.00	1.70	
12	1.00	1.00	10.85	8.90	4.70	25.10	10.55	4.40	0.40	0.00	0.30	1.70	
13	1.20	1.00	8.00	13.70	12.50	23.90	11.15	0.90	0.50	0.00	0.50	1.70	
14	1.40	1.40	7.85	15.10	15.90	22.50	10.55	1.20	0.60	0.00	0.50	1.70	
15	1.50	1.50	8.00	24.70	15.50	22.10	10.70	1.60	0.80	0.00	0.60	1.90	
16	1.10	1.70	13.30	23.90	17.30	23.30	14.30	1.20	0.80	0.00	0.60	1.90	
17	0.80	1.80	12.35	22.50	14.50	23.70	14.50	1.10	0.80	0.00	0.70	1.80	
18	0.80	1.50	11.30	21.50	10.85	23.10	16.70	1.20	0.80	0.00	0.70	1.80	
19	0.90	6.95	13.30	20.10	11.00	22.10	15.70	1.10	0.70	0.00	0.70	1.80	
20	0.90	5.60	10.25	41.52	9.35	16.30	16.30	1.00	0.60	0.00	0.90	1.70	
21	0.80	5.00	10.85	33.88	9.20	14.90	15.10	0.90	0.70	0.00	1.90	1.70	
22	0.70	5.15	10.70	27.77	9.35	14.10	14.30	1.00	0.60	0.00	1.80	1.60	
23	0.70	5.00	11.90	46.10	9.35	12.50	12.70	1.00	0.50	0.00	1.70	1.60	
24	0.60	4.70	10.85	21.50	9.05	10.10	8.75	0.90	0.50	0.00	1.50	1.60	
25	0.50	4.40	9.95	22.50	9.20	11.15	8.15	0.80	0.50	0.00	1.30	1.50	
26	0.40	4.25	9.35	22.10	9.50	16.30	8.15	0.80	0.40	0.00	1.30	1.30	
27	0.40	5.30	8.60	23.90	9.35	21.70	13.50	0.90	0.40	0.00	1.50	0.70	
28	0.30	6.80	13.70	4.25	11.00	14.10	11.45	1.00	0.50	0.00	1.80	0.20	
29	0.30	6.50	9.20	24.70	9.65	14.50	9.35	1.20	0.80	0.00	0.00	0.00	
30	0.50	11.30	9.05	24.30	9.20	21.70	8.00	1.40	0.70	0.00	0.00	0.00	
31		9.20		35.66	11.00		8.30		0.70	0.10		0.00	
Total	20.60	94.95	422.82	569.43	407.91	544.74	451.45	98.40	19.60	7.30	18.60	44.50	2700.30 CMSDAY
Mean	0.69	3.06	14.09	18.37	13.16	18.16	14.56	3.28	0.63	0.24	0.66	1.44	7.40 CMS
Max	1.50	11.30	27.52	46.10	27.26	31.59	37.45	8.30	0.90	0.90	1.90	1.90	46.10 CMS
Min	0.00	0.20	7.70	4.25	4.55	10.10	8.00	0.80	0.40	0.00	0.00	0.00	0.00 CMS
Runoff	1.78	8.20	36.53	49.20	35.24	47.07	39.01	8.50	1.69	0.63	1.61	3.85	233.31 MCM
Momentary Peak	105.50 CMS, at 24.00 m. (MSL), at 06.00 Hours, on Jul 23, 2009												
Runoff Yield	80.14 Liters/Second/Square KM.			Momentary Peak Yield			1142.888 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Chanthi at Ban Khlong Khwang , Trat (Z.47)

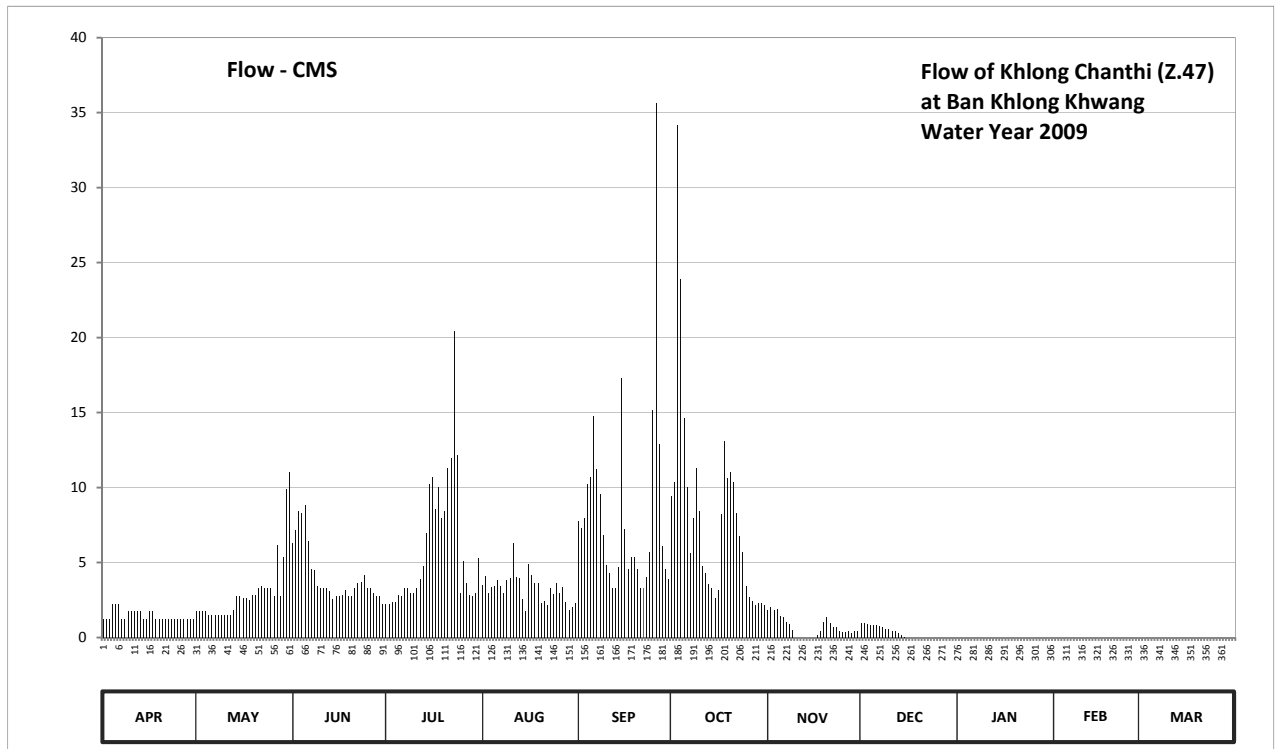
Lat 12 - 20 - 00 N Long 102 - 38 - 37 E

Location : on left bank at Ban Khlong Khwang, Tambon Tha Kum.

	Ban	Khlong Khwang	Amphoe	Mueang	Changwat	Trat
Drainage Area	27	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+7.850	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 20 meters from the top staff gage.				Elevation	+12.782 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 means of 5 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.85	8.95	9.66	9.05	9.28	9.85	10.05	8.96	8.79	8.25	8.25	8.89	
2	8.85	8.95	9.77	9.05	9.38	9.79	10.17	9.01	8.79	8.25	8.25	8.86	
3	8.85	8.95	9.93	9.07	9.19	9.87	12.09	8.97	8.78	8.25	8.27	8.82	
4	9.05	8.95	9.91	9.07	9.26	10.15	11.39	8.98	8.77	8.24	8.29	8.78	
5	9.05	8.90	9.98	9.17	9.27	10.21	10.62	8.89	8.77	8.24	8.34	8.76	
6	9.05	8.90	9.68	9.15	9.34	10.63	10.13	8.88	8.76	8.23	8.37	8.72	
7	8.85	8.90	9.45	9.25	9.27	10.27	9.58	8.81	8.75	8.22	8.44	8.66	
8	8.85	8.90	9.44	9.25	9.19	10.07	9.87	8.78	8.74	8.21	8.49	8.62	
9	8.95	8.90	9.27	9.20	9.34	9.73	10.28	8.70	8.72	8.20	8.54	8.60	
10	8.95	8.90	9.25	9.20	9.36	9.48	9.93	8.60	8.71	8.19	8.58	8.59	
11	8.95	8.90	9.25	9.25	9.66	9.41	9.47	8.49	8.69	8.17	8.61	8.57	
12	8.95	8.90	9.25	9.35	9.37	9.25	9.41	8.54	8.68	8.15	8.64	8.57	
13	8.95	8.97	9.22	9.47	9.36	9.25	9.29	8.58	8.66	8.15	8.64	8.57	
14	8.85	9.15	9.11	9.75	9.11	9.46	9.25	8.55	8.63	8.15	8.65	8.57	
15	8.85	9.15	9.15	10.15	8.95	10.86	9.12	8.48	8.61	8.15	8.65	8.57	
16	8.95	9.13	9.15	10.21	9.49	9.78	9.23	8.54	8.59	8.15	8.68	8.57	
17	8.95	9.13	9.17	9.95	9.39	9.45	9.90	8.63	8.57	8.15	8.69	8.57	
18	8.85	9.10	9.23	10.13	9.30	9.55	10.47	8.68	8.53	8.15	8.73	8.56	
19	8.85	9.17	9.15	9.87	9.31	9.55	10.20	8.80	8.51	8.15	8.75	8.56	
20	8.85	9.17	9.15	9.93	9.06	9.45	10.25	8.88	8.47	8.15	8.77	8.55	
21	8.85	9.25	9.25	10.28	9.08	9.25	10.17	8.79	8.42	8.15	8.79	8.55	
22	8.85	9.27	9.31	10.35	9.03	9.25	9.91	8.74	8.39	8.15	8.82	8.55	
23	8.85	9.25	9.32	11.13	9.25	9.37	9.72	8.74	8.36	8.15	8.83	8.55	
24	8.85	9.25	9.39	10.37	9.18	9.59	9.59	8.68	8.34	8.15	8.84	8.55	
25	8.85	9.25	9.25	9.19	9.30	10.67	9.27	8.67	8.32	8.15	8.87	8.55	
26	8.85	9.15	9.25	9.51	9.19	12.19	9.14	8.67	8.30	8.15	8.91	8.98	
27	8.85	9.65	9.20	9.30	9.26	10.45	9.08	8.68	8.28	8.14	8.94	8.86	
28	8.85	9.15	9.15	9.17	9.07	9.64	9.03	8.66	8.28	8.14	8.95	8.83	
29	8.85	9.55	9.15	9.15	8.97	9.45	9.06	8.68	8.26	8.13		8.81	
30	8.85	10.11	9.05	9.19	9.01	9.35	9.06	8.69	8.24	8.12		8.79	
31		10.25		9.54	9.06		9.03		8.22	8.11		8.76	
Mean	8.89	9.16	9.35	9.57	9.23	9.84	9.80	8.73	8.55	8.17	8.63	8.67	
Max	9.05	10.25	9.98	11.13	9.66	12.19	12.09	9.01	8.79	8.25	8.95	8.98	12.19
Min	8.85	8.90	9.05	9.05	8.95	9.25	9.03	8.48	8.22	8.11	8.25	8.55	8.11
Annual Max Momentary Gage Height	12.45		m. (MSL.) ,				at 06.00 Hours, on Oct 3, 2009						
Zero Gage at Bottom Elevation	7.85		m. (MSL.) ,			River Bed	8.16		m. (MSL)				
Left Bank Elevation	12.81		m. (MSL.) ,										
Right Bank Elevation	12.76		m. (MSL.) ,			Drainage Area	27		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	1.75	6.28	2.25	3.48	7.80	9.40	1.80	0.95	0.00	0.00	0.00	
2	1.25	1.75	7.16	2.25	4.08	7.32	10.36	2.05	0.95	0.00	0.00	0.00	
3	1.25	1.75	8.44	2.35	2.95	7.96	34.15	1.85	0.90	0.00	0.00	0.00	
4	2.25	1.75	8.28	2.35	3.36	10.20	23.86	1.90	0.85	0.00	0.00	0.00	
5	2.25	1.50	8.84	2.85	3.42	10.69	14.62	1.45	0.85	0.00	0.00	0.00	
6	2.25	1.50	6.44	2.75	3.84	14.73	10.04	1.40	0.80	0.00	0.00	0.00	
7	1.25	1.50	4.60	3.30	3.42	11.23	5.64	1.05	0.75	0.00	0.00	0.00	
8	1.25	1.50	4.52	3.30	2.95	9.56	7.96	0.90	0.70	0.00	0.00	0.00	
9	1.75	1.50	3.42	3.00	3.84	6.84	11.32	0.50	0.60	0.00	0.00	0.00	
10	1.75	1.50	3.30	3.00	3.96	4.84	8.44	0.00	0.55	0.00	0.00	0.00	
11	1.75	1.50	3.30	3.30	6.28	4.28	4.76	0.00	0.45	0.00	0.00	0.00	
12	1.75	1.50	3.30	3.90	4.02	3.30	4.28	0.00	0.40	0.00	0.00	0.00	
13	1.75	1.85	3.12	4.76	3.96	3.30	3.54	0.00	0.30	0.00	0.00	0.00	
14	1.25	2.75	2.55	7.00	2.55	4.68	3.30	0.00	0.15	0.00	0.00	0.00	
15	1.25	2.75	2.75	10.20	1.75	17.26	2.60	0.00	0.05	0.00	0.00	0.00	
16	1.75	2.65	2.75	10.69	4.92	7.24	3.18	0.00	0.00	0.00	0.00	0.00	
17	1.75	2.65	2.85	8.60	4.14	4.60	8.20	0.15	0.00	0.00	0.00	0.00	
18	1.25	2.50	3.18	10.04	3.60	5.40	13.10	0.40	0.00	0.00	0.00	0.00	
19	1.25	2.85	2.75	7.96	3.66	5.40	10.60	1.00	0.00	0.00	0.00	0.00	
20	1.25	2.85	2.75	8.44	2.30	4.60	11.05	1.40	0.00	0.00	0.00	0.00	
21	1.25	3.30	3.30	11.32	2.40	3.30	10.36	0.95	0.00	0.00	0.00	0.00	
22	1.25	3.42	3.66	11.95	2.15	3.30	8.28	0.70	0.00	0.00	0.00	0.00	
23	1.25	3.30	3.72	20.46	3.30	4.02	6.76	0.70	0.00	0.00	0.00	0.00	
24	1.25	3.30	4.14	12.13	2.90	5.72	5.72	0.40	0.00	0.00	0.00	0.00	
25	1.25	3.30	3.30	2.95	3.60	15.17	3.42	0.35	0.00	0.00	0.00	0.00	
26	1.25	2.75	3.30	5.08	2.95	35.65	2.70	0.35	0.00	0.00	0.00	0.00	
27	1.25	6.20	3.00	3.60	3.36	12.90	2.40	0.40	0.00	0.00	0.00	0.00	
28	1.25	2.75	2.75	2.85	2.35	6.12	2.15	0.30	0.00	0.00	0.00	0.00	
29	1.25	5.40	2.75	2.75	1.85	4.60	2.30	0.40	0.00	0.00	0.00	0.00	
30	1.25	9.88	2.25	2.95	2.05	3.90	2.30	0.45	0.00	0.00	0.00	0.00	
31		11.05		5.32	2.30		2.15		0.00	0.00		0.00	
Total	44.00	94.50	122.75	183.65	101.69	245.91	248.94	20.85	9.25	0.00	0.00	0.00	1071.54 CMSDAY
Mean	1.47	3.05	4.09	5.92	3.28	8.20	8.03	0.69	0.30	0.00	0.00	0.00	2.94 CMS
Max	2.25	11.05	8.84	20.46	6.28	35.65	34.15	2.05	0.95	0.00	0.00	0.00	35.65 CMS
Min	1.25	1.50	2.25	2.25	1.75	3.30	2.15	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.80	8.17	10.61	15.87	8.79	21.25	21.51	1.80	0.80	0.00	0.00	0.00	92.58 MCM
Momentary Peak	39.60 CMS, at 12.45 m. (MSL), at 06.00 Hours, on Oct 3, 2009												
Runoff Yield	108.73 Liters/Second/Square KM.			Momentary Peak Yield			1466.667 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Pran Bun at Ban Khlong Yai Tai , Trat (Z.52)

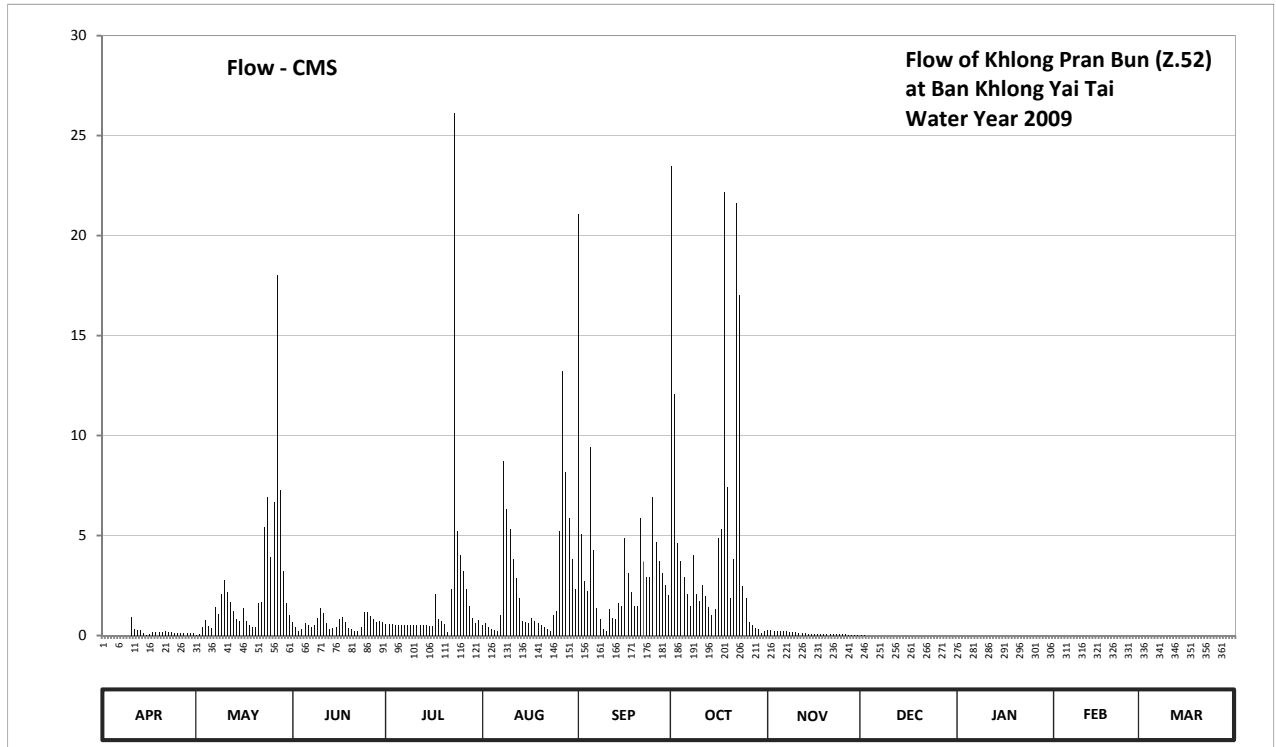
Lat 13 - 05 - 10 N Long 101 - 56 - 25 E

Location : on left bank at Ban Khlong Yai Tai.

	Ban Khlong Yai Tai	Amphoe Kaeng Hang Maeo	Changwat Chanthaburi
Drainage Area	60 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+37.741 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	Elevation	+42.415 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 means of 5 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.93	38.52	38.82	38.79	38.77	40.50	40.63	38.68	38.52	38.41	38.24	38.21	
2	37.93	38.56	38.75	38.79	38.80	39.40	39.94	38.68	38.52	38.41	38.24	38.21	
3	37.93	38.74	38.67	38.79	38.74	39.15	39.35	38.67	38.50	38.41	38.24	38.21	
4	37.93	38.84	38.71	38.78	38.71	39.09	39.26	38.66	38.50	38.41	38.24	38.21	
5	37.93	38.76	38.80	38.78	38.69	39.75	39.18	38.65	38.50	38.40	38.24	38.21	
6	37.93	38.73	38.77	38.78	38.66	39.32	39.07	38.65	38.50	38.40	38.24	38.21	
7	37.93	38.97	38.75	38.78	38.90	38.96	38.98	38.65	38.49	38.39	38.24	38.21	
8	37.93	38.91	38.77	38.78	39.70	38.86	39.29	38.64	38.49	38.38	38.24	38.21	
9	38.17	39.07	38.87	38.78	39.51	38.70	39.07	38.63	38.49	38.38	38.24	38.21	
10	38.88	39.16	38.96	38.78	39.42	38.67	39.02	38.63	38.49	38.36	38.24	38.21	
11	38.70	39.08	38.92	38.77	39.27	38.95	39.13	38.62	38.48	38.35	38.23	38.21	
12	38.69	39.01	38.80	38.77	39.17	38.87	39.05	38.60	38.48	38.33	38.23	38.21	
13	38.69	38.94	38.71	38.77	39.04	38.85	38.97	38.60	38.48	38.32	38.23	38.21	
14	38.62	38.86	38.73	38.77	38.83	39.00	38.90	38.59	38.48	38.31	38.23	38.21	
15	38.54	38.83	38.75	38.76	38.82	38.98	38.95	38.59	38.47	38.30	38.23	38.21	
16	38.56	38.96	38.86	38.76	38.80	39.38	39.38	38.59	38.47	38.29	38.23	38.21	
17	38.63	38.83	38.88	39.07	38.87	39.20	39.42	38.59	38.47	38.29	38.23	38.21	
18	38.63	38.78	38.82	38.85	38.83	39.08	40.56	38.58	38.47	38.27	38.22	38.21	
19	38.63	38.75	38.73	38.83	38.80	38.98	39.60	38.58	38.47	38.27	38.22	38.21	
20	38.63	38.75	38.71	38.79	38.77	38.98	39.04	38.57	38.47	38.27	38.22	38.21	
21	38.65	39.00	38.67	38.64	38.74	39.47	39.27	38.57	38.47	38.26	38.22	38.21	
22	38.64	39.01	38.66	39.10	38.71	39.26	40.53	38.56	38.47	38.26	38.22	38.21	
23	38.63	39.43	38.75	40.77	38.67	39.18	40.26	38.56	38.47	38.25	38.22	38.21	
24	38.62	39.56	38.93	39.41	38.90	39.18	39.12	38.55	38.47	38.25	38.22	38.21	
25	38.62	39.28	38.93	39.29	38.94	39.56	39.04	38.55	38.47	38.25	38.22	38.21	
26	38.62	39.54	38.89	39.21	39.41	39.36	38.82	38.55	38.47	38.24	38.22	38.21	
27	38.62	40.32	38.86	39.10	40.02	39.26	38.77	38.54	38.46	38.24	38.22	38.21	
28	38.62	39.59	38.82	38.98	39.66	39.20	38.73	38.53	38.46	38.24	38.21	38.21	
29	38.62	39.21	38.83	38.87	39.47	39.13	38.71	38.53	38.46	38.24	38.21	38.21	
30	38.62	39.00	38.82	38.81	39.27	39.06	38.61	38.52	38.45	38.24	38.21	38.21	
31		38.90		38.84	39.10		38.67		38.45	38.24	38.21	38.21	
Mean	38.44	39.03	38.80	38.94	39.03	39.18	39.27	38.60	38.48	38.31	38.23	38.21	
Max	38.88	40.32	38.96	40.77	40.02	40.50	40.63	38.68	38.52	38.41	38.24	38.21	40.77
Min	37.93	38.52	38.66	38.64	38.66	38.67	38.61	38.52	38.45	38.24	38.21	38.21	37.93
Annual Max Momentary Gage Height		40.96		m. (MSL.) ,				at 09.00 Hours, on Jul 23, 2009					
Zero Gage at Bottom Elevation		37.74		m. (MSL.) ,		River Bed	38.46	m. (MSL)					
Left Bank Elevation		43.12		m. (MSL.) ,									
Right Bank Elevation		43.18		m. (MSL.) ,		Drainage Area	60	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.02	0.68	0.57	0.51	21.10	23.47	0.26	0.02	0.00	0.00	0.00	
2	0.00	0.06	0.45	0.57	0.60	5.10	12.06	0.26	0.02	0.00	0.00	0.00	
3	0.00	0.42	0.24	0.57	0.42	2.70	4.60	0.24	0.00	0.00	0.00	0.00	
4	0.00	0.76	0.33	0.54	0.33	2.23	3.70	0.22	0.00	0.00	0.00	0.00	
5	0.00	0.48	0.60	0.54	0.28	9.40	2.94	0.20	0.00	0.00	0.00	0.00	
6	0.00	0.39	0.51	0.54	0.22	4.30	2.09	0.20	0.00	0.00	0.00	0.00	
7	0.00	1.42	0.45	0.54	1.00	1.36	1.48	0.20	0.00	0.00	0.00	0.00	
8	0.00	1.06	0.51	0.54	8.70	0.84	4.00	0.18	0.00	0.00	0.00	0.00	
9	0.00	2.09	0.88	0.54	6.32	0.30	2.09	0.16	0.00	0.00	0.00	0.00	
10	0.92	2.78	1.36	0.54	5.32	0.24	1.74	0.16	0.00	0.00	0.00	0.00	
11	0.30	2.16	1.12	0.51	3.80	1.30	2.54	0.14	0.00	0.00	0.00	0.00	
12	0.28	1.67	0.60	0.51	2.86	0.88	1.95	0.10	0.00	0.00	0.00	0.00	
13	0.28	1.24	0.33	0.51	1.88	0.80	1.42	0.10	0.00	0.00	0.00	0.00	
14	0.14	0.84	0.39	0.51	0.72	1.60	1.00	0.09	0.00	0.00	0.00	0.00	
15	0.04	0.72	0.45	0.48	0.68	1.48	1.30	0.09	0.00	0.00	0.00	0.00	
16	0.06	1.36	0.84	0.48	0.60	4.90	4.90	0.09	0.00	0.00	0.00	0.00	
17	0.16	0.72	0.92	2.09	0.88	3.10	5.32	0.09	0.00	0.00	0.00	0.00	
18	0.16	0.54	0.68	0.80	0.72	2.16	22.18	0.08	0.00	0.00	0.00	0.00	
19	0.16	0.45	0.39	0.72	0.60	1.48	7.40	0.08	0.00	0.00	0.00	0.00	
20	0.16	0.45	0.33	0.57	0.51	1.48	1.88	0.07	0.00	0.00	0.00	0.00	
21	0.20	1.60	0.24	0.18	0.42	5.87	3.80	0.07	0.00	0.00	0.00	0.00	
22	0.18	1.67	0.22	2.30	0.33	3.70	21.64	0.06	0.00	0.00	0.00	0.00	
23	0.16	5.43	0.45	26.13	0.24	2.94	17.02	0.06	0.00	0.00	0.00	0.00	
24	0.14	6.92	1.18	5.21	1.00	2.94	2.46	0.05	0.00	0.00	0.00	0.00	
25	0.14	3.90	1.18	4.00	1.24	6.92	1.88	0.05	0.00	0.00	0.00	0.00	
26	0.14	6.68	0.96	3.20	5.21	4.70	0.68	0.05	0.00	0.00	0.00	0.00	
27	0.14	18.04	0.84	2.30	13.20	3.70	0.51	0.04	0.00	0.00	0.00	0.00	
28	0.14	7.28	0.68	1.48	8.18	3.10	0.39	0.03	0.00	0.00	0.00	0.00	
29	0.14	3.20	0.72	0.88	5.87	2.54	0.33	0.03	0.00	0.00	0.00	0.00	
30	0.14	1.60	0.68	0.64	3.80	2.02	0.12	0.02	0.00	0.00	0.00	0.00	
31	1.00			0.76	2.30		0.24		0.00	0.00		0.00	
Total	4.18	76.95	19.21	59.75	78.74	105.18	157.13	3.47	0.04	0.00	0.00	0.00	504.65 CMSDAY
Mean	0.14	2.48	0.64	1.93	2.54	3.51	5.07	0.12	0.00	0.00	0.00	0.00	1.38 CMS
Max	0.92	18.04	1.36	26.13	13.20	21.10	23.47	0.26	0.02	0.00	0.00	0.00	26.13 CMS
Min	0.00	0.02	0.22	0.18	0.22	0.24	0.12	0.02	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.36	6.65	1.66	5.16	6.80	9.09	13.58	0.30	0.00	0.00	0.00	0.00	43.60 MCM
Momentary Peak	29.80 CMS, at 40.96 m. (MSL), at 09.00 Hours, on Jul 23, 2009												
Runoff Yield	23.04 Liters/Second/Square KM.			Momentary Peak Yield			496.667 Liters/Second/Square KM.						

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Thung Ta In at Ban Thung Ta In , Chanthaburi (Z.53)

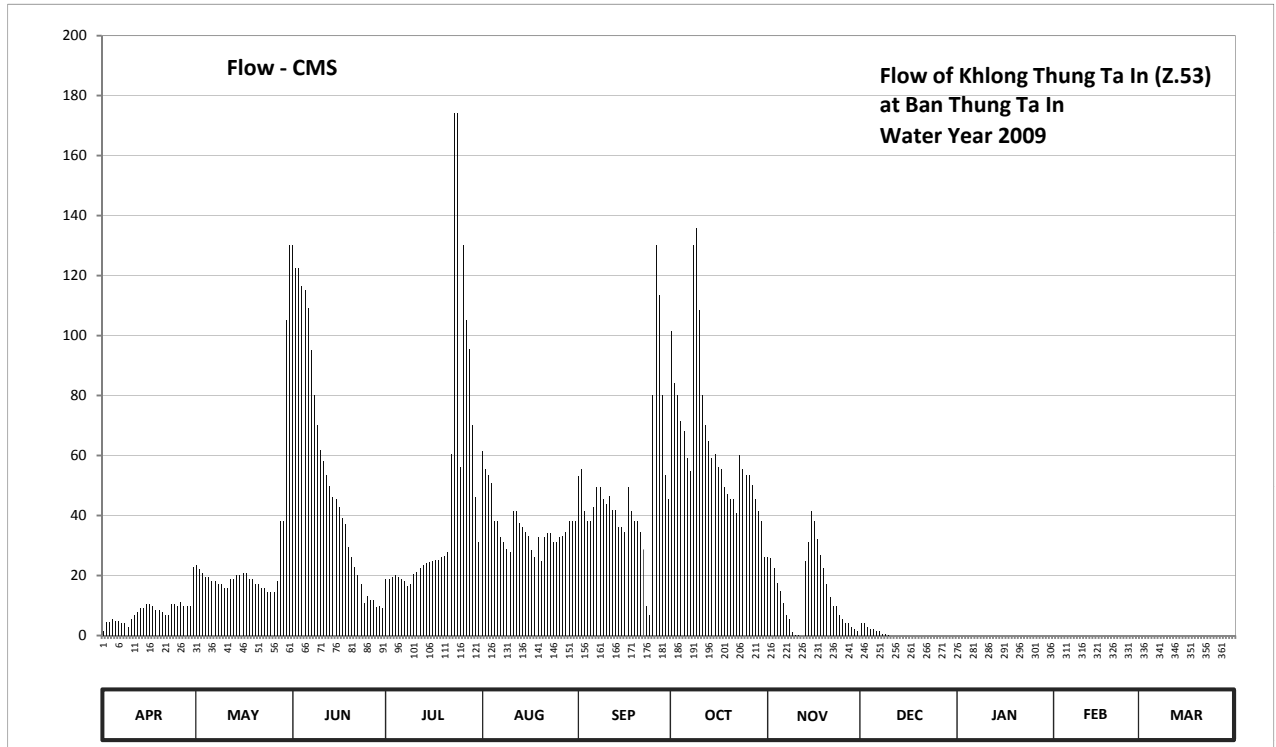
Lat 12 - 50 - 23 N Long 102 - 05 - 04 E

Location : on left bank at the bridge on highway.

	Ban	Thung Ta In	Amphoe	Khao Kitchakut	Changwat	Chanthaburi
Drainage Area	-	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+14.260 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+21.404 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 means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.06	15.82	18.26	15.66	16.86	16.65	17.69	15.91	15.16	14.90	14.96	14.91	
2	15.18	15.77	18.11	15.66	16.71	16.71	17.34	15.89	15.16	14.90	14.96	14.91	
3	15.18	15.73	18.11	15.68	16.66	16.36	17.26	15.78	15.12	14.86	14.96	14.91	
4	15.21	15.68	17.99	15.70	16.59	16.26	17.09	15.62	15.09	14.86	14.96	14.91	
5	15.19	15.68	17.96	15.68	16.26	16.26	17.01	15.53	15.09	14.86	14.96	14.89	
6	15.19	15.64	17.84	15.66	16.26	16.40	16.80	15.39	15.06	15.26	14.96	14.89	
7	15.16	15.64	17.56	15.64	16.11	16.56	16.69	15.26	15.06	15.26	14.96	14.89	
8	15.16	15.61	17.26	15.58	16.06	16.56	18.26	15.21	15.02	15.20	14.91	14.89	
9	15.12	15.61	17.06	15.61	15.99	16.46	18.36	15.04	15.02	15.20	14.91	14.89	
10	15.21	15.56	16.87	15.72	15.96	16.42	17.83	15.01	15.01	15.16	14.91	14.89	
11	15.26	15.56	16.78	15.74	16.36	16.49	17.26	15.01	14.99	15.16	14.91	14.89	
12	15.29	15.66	16.66	15.78	16.36	16.37	17.06	14.96	14.99	15.16	14.91	14.86	
13	15.34	15.66	16.57	15.82	16.24	16.37	16.94	15.86	14.96	15.12	14.91	14.86	
14	15.34	15.71	16.48	15.84	16.20	16.21	16.80	16.06	14.96	15.12	14.91	14.86	
15	15.38	15.71	16.46	15.85	16.16	16.21	16.84	16.36	14.96	15.10	14.91	14.86	
16	15.38	15.73	16.40	15.86	16.12	16.16	16.73	16.26	14.96	15.10	14.86	14.86	
17	15.36	15.73	16.29	15.87	15.98	16.56	16.71	16.09	14.95	15.07	14.86	14.86	
18	15.32	15.66	16.23	15.87	15.90	16.36	16.56	15.93	14.95	15.07	14.86	14.86	
19	15.32	15.66	16.01	15.91	16.11	16.26	16.50	15.78	14.95	15.07	14.86	14.86	
20	15.29	15.61	15.91	15.92	15.86	16.26	16.46	15.60	14.91	15.04	14.86	14.86	
21	15.26	15.61	15.80	15.96	16.11	16.16	16.46	15.46	14.91	15.04	14.86	14.86	
22	15.26	15.56	15.70	16.84	16.15	15.99	16.34	15.36	14.91	15.02	14.86	14.90	
23	15.38	15.56	15.60	19.06	16.15	15.36	16.83	15.36	14.91	15.02	14.86	14.90	
24	15.38	15.52	15.40	19.06	16.06	15.26	16.71	15.26	14.94	15.01	14.86	14.98	
25	15.36	15.52	15.47	16.73	16.06	17.26	16.66	15.21	14.94	15.01	14.84	14.91	
26	15.41	15.52	15.43	18.26	16.11	18.26	16.66	15.16	14.94	15.00	14.84	14.91	
27	15.36	15.64	15.43	17.76	16.12	17.93	16.58	15.16	14.91	15.00	14.84	14.91	
28	15.36	16.26	15.35	17.57	16.16	17.26	16.46	15.11	14.91	14.99	14.96	14.91	
29	15.36	16.26	15.36	17.06	16.26	16.66	16.36	15.09	14.91	14.99	14.91	14.91	
30	15.80	17.76	15.34	16.48	16.26	16.46	16.26	15.06	14.91	14.98	14.91	14.91	
31		18.26		16.06	16.26		15.91		14.91	14.98	14.91	14.91	
Mean	15.30	15.84	16.52	16.32	16.21	16.48	16.88	15.49	14.98	15.05	14.90	14.89	
Max	15.80	18.26	18.26	19.06	16.86	18.26	18.36	16.36	15.16	15.26	14.96	14.98	19.06
Min	15.06	15.52	15.34	15.58	15.86	15.26	15.91	14.96	14.91	14.86	14.84	14.86	14.84
Annual Max Momentary Gage Height	19.06		m. (MSL.) ,				at 06.00 Hours, on Jul 23, 2009						
Zero Gage at Bottom Elevation	14.26		m. (MSL.) ,			River Bed	13.39	m. (MSL)					
Left Bank Elevation		21.62		m. (MSL.) ,									
Right Bank Elevation		21.53		m. (MSL.) ,		Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	23.60	130.30	18.80	61.40	53.00	101.50	26.30	4.00	0.00	0.00	0.00	
2	4.50	22.10	122.50	18.80	55.40	55.40	84.00	25.70	4.00	0.00	0.00	0.00	
3	4.50	20.90	122.50	19.40	53.40	41.60	80.00	22.40	3.00	0.00	0.00	0.00	
4	5.30	19.40	116.50	20.00	50.60	38.10	71.55	17.60	2.25	0.00	0.00	0.00	
5	4.75	19.40	115.00	19.40	38.10	38.10	67.95	14.90	2.25	0.00	0.00	0.00	
6	4.75	18.20	109.00	18.80	38.10	43.00	59.00	10.70	1.50	0.00	0.00	0.00	
7	4.00	18.20	95.00	18.20	32.85	49.40	54.60	6.80	1.50	0.00	0.00	0.00	
8	4.00	17.30	80.00	16.40	31.10	49.40	130.30	5.30	0.50	0.00	0.00	0.00	
9	3.00	17.30	70.20	17.30	28.70	45.40	135.80	1.00	0.50	0.00	0.00	0.00	
10	5.30	15.80	61.80	20.60	27.80	43.80	108.50	0.25	0.25	0.00	0.00	0.00	
11	6.80	15.80	58.20	21.20	41.60	46.60	80.00	0.25	0.00	0.00	0.00	0.00	
12	7.70	18.80	53.40	22.40	41.60	41.95	70.20	0.00	0.00	0.00	0.00	0.00	
13	9.20	18.80	49.80	23.60	37.40	41.95	64.80	24.80	0.00	0.00	0.00	0.00	
14	9.20	20.30	46.20	24.20	36.00	36.35	59.00	31.10	0.00	0.00	0.00	0.00	
15	10.40	20.30	45.40	24.50	34.60	36.35	60.60	41.60	0.00	0.00	0.00	0.00	
16	10.40	20.90	43.00	24.80	33.20	34.60	56.20	38.10	0.00	0.00	0.00	0.00	
17	9.80	20.90	39.15	25.10	28.40	49.40	55.40	32.15	0.00	0.00	0.00	0.00	
18	8.60	18.80	37.05	25.10	26.00	41.60	49.40	26.90	0.00	0.00	0.00	0.00	
19	8.60	18.80	29.35	26.30	32.85	38.10	47.00	22.40	0.00	0.00	0.00	0.00	
20	7.70	17.30	26.30	26.60	24.80	38.10	45.40	17.00	0.00	0.00	0.00	0.00	
21	6.80	17.30	23.00	27.80	32.85	34.60	45.40	12.80	0.00	0.00	0.00	0.00	
22	6.80	15.80	20.00	60.60	34.25	28.70	40.90	9.80	0.00	0.00	0.00	0.00	
23	10.40	15.80	17.00	174.30	34.25	9.80	60.20	9.80	0.00	0.00	0.00	0.00	
24	10.40	14.60	11.00	174.30	31.10	6.80	55.40	6.80	0.00	0.00	0.00	0.00	
25	9.80	14.60	13.10	56.20	31.10	80.00	53.40	5.30	0.00	0.00	0.00	0.00	
26	11.30	14.60	11.90	130.30	32.85	130.30	53.40	4.00	0.00	0.00	0.00	0.00	
27	9.80	18.20	11.90	105.00	33.20	113.50	50.20	4.00	0.00	0.00	0.00	0.00	
28	9.80	38.10	9.50	95.50	34.60	80.00	45.40	2.75	0.00	0.00	0.00	0.00	
29	9.80	38.10	9.80	70.20	38.10	53.40	41.60	2.25	0.00	0.00	0.00	0.00	
30	23.00	105.00	9.20	46.20	38.10	45.40	38.10	1.50	0.00	0.00	0.00	0.00	
31		130.30		31.10	38.10		26.30		0.00	0.00		0.00	
Total	237.90	805.30	1587.05	1403.00	1132.40	1444.70	1991.50	424.25	19.75	0.00	0.00	0.00	9045.85 CMSDAY
Mean	7.93	25.98	52.90	45.26	36.53	48.16	64.24	14.14	0.64	0.00	0.00	0.00	24.78 CMS
Max	23.00	130.30	130.30	174.30	61.40	130.30	135.80	41.60	4.00	0.00	0.00	0.00	174.30 CMS
Min	1.50	14.60	9.20	16.40	24.80	6.80	26.30	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	20.56	69.58	137.12	121.22	97.84	124.82	172.07	36.66	1.71	0.00	0.00	0.00	781.56 MCM
Momentary Peak	174.30 CMS, at 19.06 m. (MSL), at 06.00 Hours, on Jul 23, 2009												
Runoff Yield	***** Liters/Second/Square KM.			Momentary Peak Yield				***** Liters/Second/Square KM.					

WATER YEAR : 2009
EAST COAST - GULF BASIN

Chanthaburi River at Ban Bang Cha Ai , Chanthaburi (Z.55)

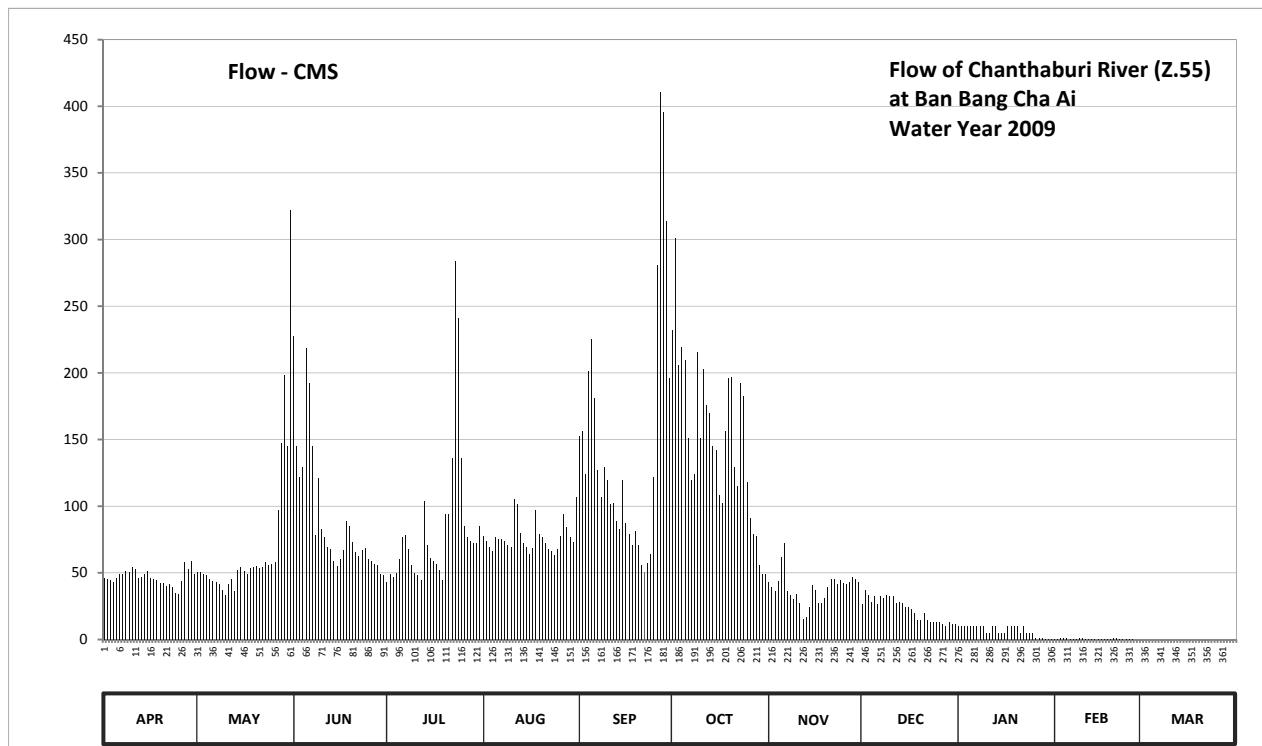
Lat 12 - 42 - 26 N Long 102 - 10 - 53 E

Location : on left bank at the bridge on highway.

	Ban	Bang Cha Ai	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	1,100	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+1.739	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+8.680 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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.28	3.33	5.36	3.24	3.67	4.53	5.41	3.24	3.06	2.89	2.71	3.04	
2	3.27	3.33	4.44	3.31	3.62	4.57	6.11	3.19	3.17	2.89	2.72	3.04	
3	3.26	3.31	4.19	3.29	3.57	4.21	5.12	3.16	3.13	2.89	2.74	3.04	
4	3.24	3.30	4.27	3.32	3.53	5.07	5.27	3.25	3.08	2.89	2.74	3.04	
5	3.28	3.27	5.26	3.45	3.66	5.34	5.16	3.47	3.12	2.89	2.74	3.04	
6	3.31	3.25	4.97	3.66	3.64	4.84	4.51	3.60	3.06	2.89	2.71	3.04	
7	3.31	3.24	4.44	3.68	3.64	4.24	4.16	3.16	3.12	2.89	2.72	3.04	
8	3.34	3.22	3.68	3.55	3.62	4.02	4.21	3.13	3.11	2.89	2.70	3.04	
9	3.33	3.17	4.18	3.40	3.59	4.27	5.23	3.10	3.13	2.89	2.74	3.04	
10	3.38	3.13	3.74	3.32	3.57	4.16	4.51	3.14	3.12	2.84	2.74	3.04	
11	3.36	3.22	3.66	3.30	4.00	3.96	5.09	3.07	3.12	2.84	2.69	3.04	
12	3.28	3.27	3.57	3.26	3.96	3.97	4.79	2.95	3.07	2.89	2.69	3.01	
13	3.29	3.16	3.55	3.99	3.70	3.81	4.72	2.96	3.08	2.89	2.69	3.02	
14	3.31	3.35	3.44	3.59	3.60	3.74	4.44	3.04	3.07	2.84	2.71	3.02	
15	3.34	3.38	3.39	3.46	3.57	4.16	4.41	3.21	3.04	2.84	2.69	3.02	
16	3.28	3.34	3.45	3.44	3.50	3.79	4.04	3.17	3.04	2.84	2.67	3.04	
17	3.27	3.31	3.54	3.41	3.56	3.69	3.97	3.07	3.02	2.89	2.66	3.04	
18	3.26	3.37	3.81	3.35	3.91	3.59	4.57	3.07	2.99	2.89	2.64	3.04	
19	3.23	3.38	3.76	3.26	3.69	3.72	5.01	3.11	2.94	2.89	2.72	3.04	
20	3.23	3.39	3.61	3.88	3.66	3.59	5.02	3.19	2.94	2.89	2.74	3.04	
21	3.20	3.37	3.52	3.88	3.60	3.40	4.27	3.27	2.99	2.84	2.74	3.04	
22	3.22	3.38	3.48	4.34	3.55	3.33	4.11	3.27	2.94	2.89	2.71	3.02	
23	3.19	3.43	3.54	5.94	3.53	3.42	4.97	3.22	2.92	2.84	2.71	3.04	
24	3.15	3.40	3.56	5.51	3.49	3.50	4.86	3.26	2.92	2.84	2.70	2.94	
25	3.14	3.41	3.45	4.34	3.55	4.19	4.14	3.23	2.92	2.84	2.69	2.94	
26	3.25	3.43	3.44	3.76	3.67	5.91	3.84	3.22	2.92	2.79	2.68	2.89	
27	3.43	3.91	3.41	3.66	3.88	7.21	3.69	3.24	2.91	2.74	2.74	3.01	
28	3.36	4.47	3.40	3.62	3.75	7.06	3.67	3.29	2.89	2.74	3.04	2.97	
29	3.44	5.04	3.31	3.60	3.66	6.24	3.40	3.27	2.92	2.72		3.04	
30	3.31	4.44	3.30	3.60	3.61	5.01	3.31	3.24	2.91	2.72		3.02	
31		6.32		3.76	4.02		3.31		2.91	2.72		3.01	
Mean	3.28	3.56	3.82	3.72	3.66	4.42	4.49	3.19	3.02	2.85	2.72	3.02	
Max	3.44	6.32	5.36	5.94	4.02	7.21	6.11	3.60	3.17	2.89	3.04	3.04	7.21
Min	3.14	3.13	3.30	3.24	3.49	3.33	3.31	2.95	2.89	2.72	2.64	2.89	2.64
Annual Max Momentary Gage Height	7.40		m. (MSL.) ,				at 12.00 Hours, on Sep 27, 2009						
Zero Gage at Bottom Elevation	1.74		m. (MSL.) ,			River Bed	-0.25	m. (MSL)					
Left Bank Elevation	9.48		m. (MSL.) ,										
Right Bank Elevation	10.16		m. (MSL.) ,			Drainage Area	1100	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	46.40	50.40	227.40	43.20	77.60	152.70	231.90	43.20	26.42	9.93	0.66	0.00	
2	45.60	50.40	144.60	48.80	73.60	156.30	301.00	39.03	37.09	9.93	0.72	0.00	
3	44.80	48.80	122.10	47.20	69.60	123.90	205.80	36.12	33.21	9.93	0.84	0.00	
4	43.20	48.00	129.30	49.60	66.40	201.30	219.30	44.00	28.36	9.93	0.84	0.00	
5	46.40	45.60	218.40	60.00	76.80	225.60	209.40	61.60	32.24	9.93	0.84	0.00	
6	48.80	44.00	192.30	76.80	75.20	180.60	150.90	72.00	26.42	9.93	0.66	0.00	
7	48.80	43.20	144.60	78.40	75.20	126.60	119.40	36.12	32.24	9.93	0.72	0.00	
8	51.20	41.60	78.40	68.00	73.60	106.80	123.90	33.21	31.27	9.93	0.60	0.00	
9	50.40	37.09	121.20	56.00	71.20	129.30	215.70	30.30	33.21	9.93	0.84	0.00	
10	54.40	33.21	83.20	49.60	69.60	119.40	150.90	34.18	32.24	5.08	0.84	0.00	
11	52.80	41.60	76.80	48.00	105.00	101.40	203.10	27.39	32.24	5.08	0.54	0.00	
12	46.40	45.60	69.60	44.80	101.40	102.30	176.10	15.75	27.39	9.93	0.54	0.00	
13	47.20	36.12	68.00	104.10	80.00	88.80	169.80	16.72	28.36	9.93	0.54	0.00	
14	48.80	52.00	59.20	71.20	72.00	83.20	144.60	24.48	27.39	5.08	0.66	0.00	
15	51.20	54.40	55.20	60.80	69.60	119.40	141.90	40.80	24.48	5.08	0.54	0.00	
16	46.40	51.20	60.00	59.20	64.00	87.20	108.60	37.09	24.48	5.08	0.42	0.00	
17	45.60	48.80	67.20	56.80	68.80	79.20	102.30	27.39	22.54	9.93	0.36	0.00	
18	44.80	53.60	88.80	52.00	96.90	71.20	156.30	27.39	19.63	9.93	0.24	0.00	
19	42.40	54.40	84.80	44.80	79.20	81.60	195.90	31.27	14.78	9.93	0.72	0.00	
20	42.40	55.20	72.80	94.40	76.80	71.20	196.80	39.03	14.78	9.93	0.84	0.00	
21	40.00	53.60	65.60	94.40	72.00	56.00	129.30	45.60	19.63	5.08	0.84	0.00	
22	41.60	54.40	62.40	135.60	68.00	50.40	114.90	45.60	14.78	9.93	0.66	0.00	
23	39.03	58.40	67.20	284.00	66.40	57.60	192.30	41.60	12.84	5.08	0.66	0.00	
24	35.15	56.00	68.80	241.00	63.20	64.00	182.40	44.80	12.84	5.08	0.60	0.00	
25	34.18	56.80	60.00	135.60	68.00	122.10	117.60	42.40	12.84	5.08	0.54	0.00	
26	44.00	58.40	59.20	84.80	77.60	281.00	91.20	41.60	12.84	1.14	0.48	0.00	
27	58.40	96.90	56.80	76.80	94.40	411.00	79.20	43.20	11.87	0.84	0.00	0.00	
28	52.80	147.30	56.00	73.60	84.00	396.00	77.60	47.20	9.93	0.84	0.00	0.00	
29	59.20	198.60	48.80	72.00	76.80	314.00	56.00	45.60	12.84	0.72	0.00	0.00	
30	48.80	144.60	48.00	72.00	72.80	195.90	48.80	43.20	11.87	0.72	0.00	0.00	
31		322.00		84.80	106.80		48.80		11.87	0.72		0.00	
Total	1401.16	2182.22	2756.70	2568.3	0.2392.5	0.4356.0	0.4661.7	0.1157.8	7.692.9	2.209.58	16.74	0.00	22395.69 CMSDAY
Mean	46.71	70.39	91.89	82.85	77.18	145.20	150.38	38.60	22.35	6.76	0.60	0.00	61.36 CMS
Max	59.20	322.00	227.40	284.00	106.80	411.00	301.00	72.00	37.09	9.93	0.84	0.00	411.00 CMS
Min	34.18	33.21	48.00	43.20	63.20	50.40	48.80	15.75	9.93	0.72	0.00	0.00	0.00 CMS
Runoff	121.06	188.54	238.18	221.90	206.71	376.36	402.77	100.04	59.87	18.11	1.45	0.00	1934.99 MCM
Momentary Peak	429.90 CMS, at 7.40 m. (MSL), at 12.00 Hours, on Sep 27, 2009												
Runoff Yield	55.78 Liters/Second/Square KM.			Momentary Peak Yield				390.818 Liters/Second/Square KM.					

WATER YEAR : 2009
EAST COAST - GULF BASIN

Khlong Thung Plae at Ban Ta Bok Tia , Chanthaburi (Z.56)

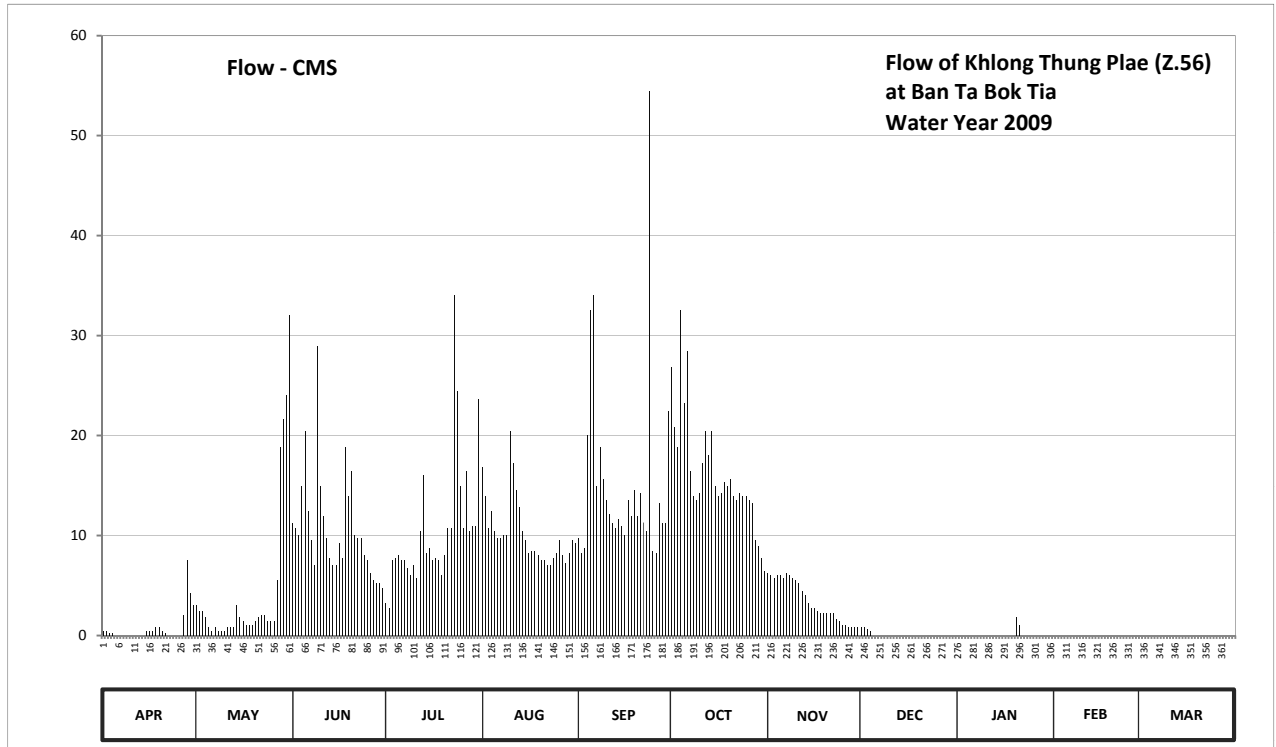
Lat 12 - 49 - 09 N Long 102 - 14 - 20 E

Location : on left bank at the bridge on highway.

	Ban	Ta Bok Tia	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	- sq.km.					
Type of Gage	Staff gage					
Zero Gage at Bottom	+24.743 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+31.739 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 means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.22	25.34	25.66	25.35	25.82	25.61	26.07	25.47	25.24	25.14	25.04	24.84	
2	25.22	25.32	25.64	25.33	25.74	25.55	25.92	25.46	25.24	25.14	25.04	24.87	
3	25.21	25.32	25.62	25.52	25.64	25.57	25.87	25.45	25.23	25.13	25.03	24.92	
4	25.21	25.29	25.77	25.53	25.70	25.90	26.20	25.46	25.22	25.13	25.04	24.94	
5	25.20	25.24	25.91	25.54	25.63	26.20	25.98	25.46	25.20	25.13	25.04	24.93	
6	25.19	25.22	25.70	25.52	25.61	26.23	26.11	25.45	25.17	25.13	25.04	24.90	
7	25.19	25.24	25.60	25.52	25.61	25.77	25.81	25.47	25.17	25.13	25.04	24.86	
8	25.19	25.22	25.50	25.49	25.62	25.87	25.74	25.46	25.16	25.13	25.04	24.85	
9	25.18	25.22	26.12	25.46	25.62	25.79	25.73	25.45	25.16	25.14	25.03	24.84	
10	25.17	25.22	25.77	25.50	25.91	25.73	25.75	25.44	25.17	25.13	25.02	24.81	
11	25.17	25.24	25.68	25.45	25.83	25.69	25.83	25.43	25.16	25.10	24.99	24.74	
12	25.16	25.24	25.61	25.63	25.76	25.66	25.91	25.40	25.16	25.08	24.89	24.74	
13	25.16	25.24	25.53	25.80	25.71	25.64	25.85	25.38	25.16	25.06	24.94	24.74	
14	25.16	25.34	25.50	25.55	25.63	25.67	25.91	25.35	25.15	25.06	24.99	24.74	
15	25.22	25.29	25.50	25.57	25.60	25.65	25.77	25.33	25.14	25.05	25.04	24.74	
16	25.22	25.27	25.59	25.52	25.55	25.62	25.74	25.33	25.14	25.05	25.07	24.74	
17	25.22	25.25	25.53	25.53	25.56	25.73	25.75	25.32	25.14	25.05	25.04	24.74	
18	25.24	25.25	25.87	25.52	25.56	25.68	25.78	25.31	25.14	25.04	25.07	24.74	
19	25.24	25.25	25.74	25.46	25.54	25.76	25.77	25.31	25.14	25.12	25.04	24.74	
20	25.22	25.27	25.81	25.54	25.52	25.68	25.79	25.31	25.14	25.29	25.04	24.74	
21	25.21	25.29	25.62	25.64	25.52	25.75	25.74	25.31	25.14	25.25	25.06	24.74	
22	25.19	25.30	25.61	25.64	25.50	25.66	25.73	25.31	25.14	25.11	25.11	24.74	
23	25.19	25.30	25.61	26.23	25.50	25.63	25.75	25.28	25.14	25.10	25.06	24.74	
24	25.18	25.27	25.54	26.01	25.53	26.60	25.74	25.27	25.14	25.10	25.04	24.74	
25	25.17	25.27	25.52	25.77	25.55	25.56	25.74	25.25	25.14	25.09	25.04	24.74	
26	25.17	25.27	25.47	25.64	25.60	25.55	25.73	25.25	25.14	25.08	25.03	24.74	
27	25.30	25.44	25.44	25.81	25.54	25.72	25.72	25.24	25.14	25.07	24.97	25.12	
28	25.52	25.87	25.43	25.63	25.51	25.66	25.60	25.24	25.14	25.04	24.94	25.06	
29	25.39	25.94	25.43	25.65	25.55	25.66	25.58	25.24	25.14	25.04		25.04	
30	25.34	26.00	25.41	25.65	25.60	25.96	25.53	25.24	25.14	25.04		25.04	
31		26.19		25.99	25.59		25.48		25.14	25.04		25.01	
Mean	25.22	25.37	25.62	25.61	25.62	25.76	25.79	25.36	25.16	25.10	25.03	24.83	
Max	25.52	26.19	26.12	26.23	25.91	26.60	26.20	25.47	25.24	25.29	25.11	25.12	26.60
Min	25.16	25.22	25.41	25.33	25.50	25.55	25.48	25.24	25.14	25.04	24.89	24.74	24.74
Annual Max Momentary Gage Height		26.61		m. (MSL.) ,			at 06.00 Hours, on Sep 24, 2009						
Zero Gage at Bottom Elevation		24.74		m. (MSL.) ,		River Bed	24.65		m. (MSL)				
Left Bank Elevation		32.40		m. (MSL.) ,									
Right Bank Elevation		32.35		m. (MSL.) ,		Drainage Area			Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	3.00	11.30	3.25	16.80	9.80	26.80	6.25	0.80	0.00	0.00	0.00	
2	0.40	2.50	10.70	2.75	13.90	8.25	20.80	6.00	0.80	0.00	0.00	0.00	
3	0.20	2.50	10.10	7.50	10.70	8.75	18.80	5.75	0.60	0.00	0.00	0.00	
4	0.20	1.80	14.95	7.75	12.50	20.00	32.50	6.00	0.40	0.00	0.00	0.00	
5	0.00	0.80	20.40	8.00	10.40	32.50	23.20	6.00	0.00	0.00	0.00	0.00	
6	0.00	0.40	12.50	7.50	9.80	34.00	28.45	5.75	0.00	0.00	0.00	0.00	
7	0.00	0.80	9.50	7.50	9.80	14.95	16.40	6.25	0.00	0.00	0.00	0.00	
8	0.00	0.40	7.00	6.75	10.10	18.80	13.90	6.00	0.00	0.00	0.00	0.00	
9	0.00	0.40	28.90	6.00	10.10	15.65	13.55	5.75	0.00	0.00	0.00	0.00	
10	0.00	0.40	14.95	7.00	20.40	13.55	14.25	5.50	0.00	0.00	0.00	0.00	
11	0.00	0.80	11.90	5.75	17.20	12.20	17.20	5.25	0.00	0.00	0.00	0.00	
12	0.00	0.80	9.80	10.40	14.60	11.30	20.40	4.50	0.00	0.00	0.00	0.00	
13	0.00	0.80	7.75	16.00	12.85	10.70	18.00	4.00	0.00	0.00	0.00	0.00	
14	0.00	3.00	7.00	8.25	10.40	11.60	20.40	3.25	0.00	0.00	0.00	0.00	
15	0.40	1.80	7.00	8.75	9.50	11.00	14.95	2.75	0.00	0.00	0.00	0.00	
16	0.40	1.40	9.25	7.50	8.25	10.10	13.90	2.75	0.00	0.00	0.00	0.00	
17	0.40	1.00	7.75	7.75	8.50	13.55	14.25	2.50	0.00	0.00	0.00	0.00	
18	0.80	1.00	18.80	7.50	8.50	11.90	15.30	2.25	0.00	0.00	0.00	0.00	
19	0.80	1.00	13.90	6.00	8.00	14.60	14.95	2.25	0.00	0.00	0.00	0.00	
20	0.40	1.40	16.40	8.00	7.50	11.90	15.65	2.25	0.00	1.80	0.00	0.00	
21	0.20	1.80	10.10	10.70	7.50	14.25	13.90	2.25	0.00	1.00	0.00	0.00	
22	0.00	2.00	9.80	10.70	7.00	11.30	13.55	2.25	0.00	0.00	0.00	0.00	
23	0.00	2.00	9.80	34.00	7.00	10.40	14.25	1.60	0.00	0.00	0.00	0.00	
24	0.00	1.40	8.00	24.40	7.75	54.50	13.90	1.40	0.00	0.00	0.00	0.00	
25	0.00	1.40	7.50	14.95	8.25	8.50	13.90	1.00	0.00	0.00	0.00	0.00	
26	0.00	1.40	6.25	10.70	9.50	8.25	13.55	1.00	0.00	0.00	0.00	0.00	
27	2.00	5.50	5.50	16.40	8.00	13.20	13.20	0.80	0.00	0.00	0.00	0.00	
28	7.50	18.80	5.25	10.40	7.25	11.30	9.50	0.80	0.00	0.00	0.00	0.00	
29	4.25	21.60	5.25	11.00	8.25	11.30	9.00	0.80	0.00	0.00	0.00	0.00	
30	3.00	24.00	4.75	11.00	9.50	22.40	7.75	0.80	0.00	0.00	0.00	0.00	
31		32.05		23.60	9.25		6.50		0.00	0.00		0.00	
Total	21.35	137.95	322.05	327.75	319.05	460.50	502.65	103.70	2.60	2.80	0.00	0.00	2200.40 CMSDAY
Mean	0.71	4.45	10.73	10.57	10.29	15.35	16.21	3.46	0.08	0.09	0.00	0.00	6.03 CMS
Max	7.50	32.05	28.90	34.00	20.40	54.50	32.50	6.25	0.80	1.80	0.00	0.00	54.50 CMS
Min	0.00	0.40	4.75	2.75	7.00	8.25	6.50	0.80	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.85	11.92	27.83	28.32	27.57	39.79	43.43	8.96	0.23	0.24	0.00	0.00	190.12 MCM
Momentary Peak	55.10 CMS, at 26.61 m. (MSL), at 06.00 Hours, on Sep 24, 2009												
Runoff Yield	***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.												

WATER YEAR : 2009

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)

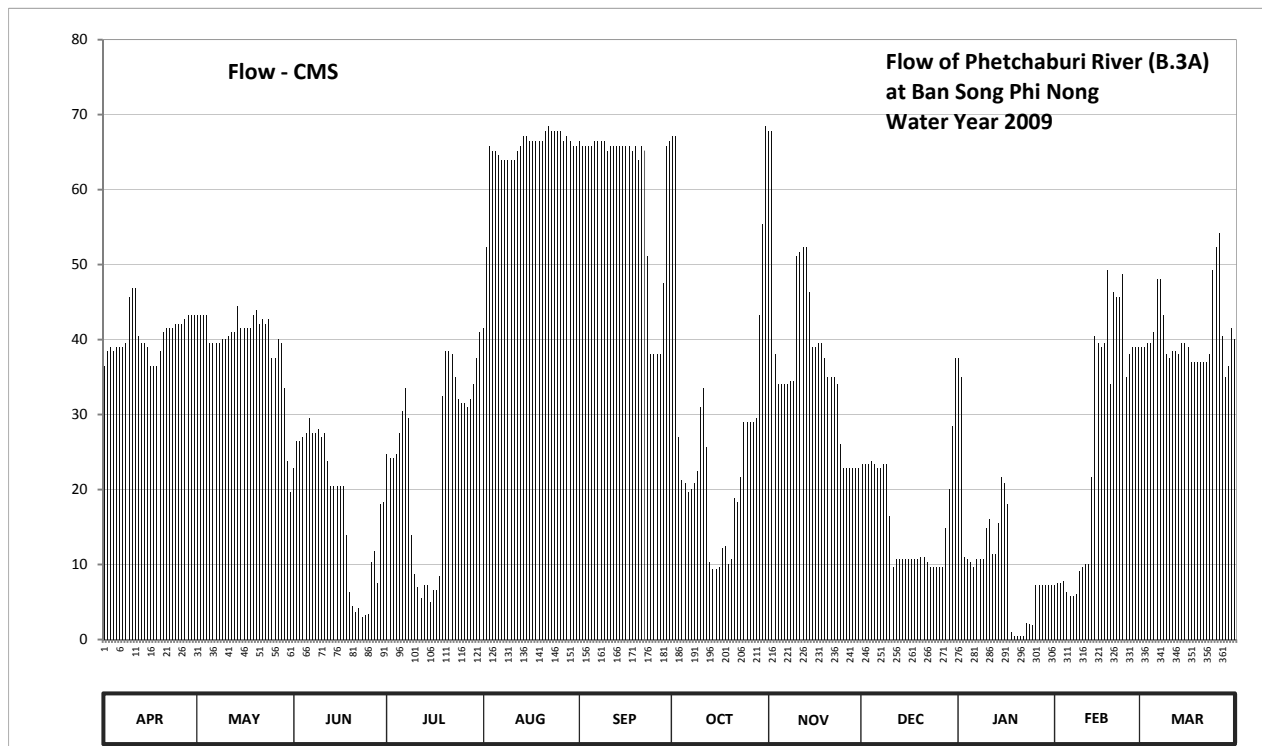
Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

	Ban	Song Phi Nong	Amphoe	Kaeng Krachan	Changwat	Phetchaburi
Drainage Area	2,220	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+41.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 24 meters from the top staff gage.				Elevation	+50.534 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1930 - 1942 , 1954 to date					
Rating Operation						
Period of Rating	1954 - 1959 , 1968 to date					
Rated by Flot	-					
Rated by Current Meter	1954 - 1959 , 1968 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Kaeng Krachan Reservoir. Stage-discharge relation defined by 40 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.50	42.63	42.22	42.26	42.60	43.00	43.01	43.02	42.23	42.52	41.80	42.55	
2	42.54	42.63	42.30	42.25	42.78	42.99	43.01	43.02	42.23	42.47	41.81	42.55	
3	42.55	42.63	42.30	42.25	42.99	42.99	42.31	42.53	42.23	41.92	41.81	42.56	
4	42.54	42.63	42.31	42.26	42.98	42.99	42.18	42.45	42.24	41.91	41.82	42.56	
5	42.55	42.56	42.32	42.32	42.98	42.99	42.17	42.45	42.23	41.90	41.77	42.59	
6	42.55	42.56	42.36	42.38	42.97	43.00	42.14	42.45	42.22	41.88	41.75	42.71	
7	42.55	42.56	42.32	42.44	42.96	43.00	42.15	42.45	42.22	41.91	41.75	42.71	
8	42.56	42.56	42.32	42.36	42.96	43.00	42.17	42.46	42.23	41.91	41.76	42.63	
9	42.67	42.57	42.33	42.00	42.96	43.00	42.21	42.46	42.23	41.91	41.86	42.53	
10	42.69	42.57	42.31	41.85	42.96	42.98	42.39	42.76	42.06	42.02	41.88	42.52	
11	42.69	42.58	42.32	41.79	42.96	42.99	42.44	42.77	41.88	42.05	41.89	42.54	
12	42.58	42.59	42.24	41.74	42.98	42.99	42.28	42.78	41.91	41.93	41.89	42.54	
13	42.56	42.59	42.16	41.80	42.99	42.99	41.90	42.78	41.91	41.93	42.19	42.53	
14	42.56	42.65	42.16	41.80	43.01	42.99	41.87	42.68	41.91	42.04	42.58	42.56	
15	42.55	42.60	42.16	41.72	43.01	42.99	41.87	42.55	41.91	42.19	42.56	42.56	
16	42.50	42.60	42.16	41.78	43.00	42.99	41.88	42.55	41.91	42.17	42.55	42.55	
17	42.50	42.60	42.16	41.78	43.00	42.99	41.95	42.56	41.91	42.10	42.56	42.51	
18	42.50	42.60	42.00	41.84	43.00	42.98	41.96	42.56	41.91	41.51	42.73	42.51	
19	42.54	42.63	41.77	42.42	43.00	42.99	41.89	42.52	41.91	41.45	42.45	42.51	
20	42.59	42.64	41.70	42.54	43.00	42.96	41.91	42.47	41.92	41.45	42.68	42.51	
21	42.60	42.61	41.66	42.54	43.02	42.99	42.12	42.47	41.92	41.45	42.67	42.51	
22	42.60	42.62	41.69	42.53	43.03	42.98	42.11	42.47	41.90	41.45	42.67	42.51	
23	42.60	42.61	41.63	42.47	43.02	42.76	42.19	42.45	41.88	41.59	42.72	42.53	
24	42.61	42.62	41.64	42.41	43.02	42.53	42.35	42.29	41.88	41.58	42.47	42.73	
25	42.61	42.52	41.65	42.40	43.02	42.53	42.35	42.22	41.88	41.57	42.53	42.78	
26	42.61	42.52	41.90	42.40	43.02	42.53	42.35	42.22	41.88	41.80	42.55	42.81	
27	42.62	42.57	41.94	42.39	43.00	42.53	42.35	42.22	41.88	41.80	42.55	42.58	
28	42.63	42.56	41.81	42.41	43.01	42.70	42.36	42.22	42.02	41.80	42.55	42.47	
29	42.63	42.44	42.10	42.45	43.00	42.99	42.63	42.22	42.15	41.80		42.50	
30	42.63	42.24	42.11	42.52	42.99	43.00	42.83	42.22	42.34	41.80		42.60	
31	42.14			42.59	42.99		43.03		42.52	41.80		42.57	
Mean	42.58	42.56	42.07	42.22	42.97	42.91	42.27	42.51	42.05	41.86	42.24	42.57	
Max	42.69	42.65	42.36	42.59	43.03	43.00	43.03	43.02	42.52	42.52	42.73	42.81	43.03
Min	42.50	42.14	41.63	41.72	42.60	42.53	41.87	42.22	41.88	41.45	41.75	42.47	41.45
Annual Max Momentary Gage Height	43.15		m. (MSL.) ,				at 16.00 Hours , on Mar 31 , 2009						
Zero Gage at Bottom Elevation	41.00		m. (MSL.) ,			River Bed	40.53		m. (MSL)				
Left Bank Elevation		47.85		m. (MSL.) ,									
Right Bank Elevation		48.87		m. (MSL.) ,		Drainage Area	2220		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.50	43.30	22.90	24.70	41.50	66.50	67.15	67.80	23.35	37.50	7.20	39.00	
2	38.50	43.30	26.50	24.25	52.30	65.85	67.15	67.80	23.35	35.00	7.51	39.00	
3	39.00	43.30	26.50	24.25	65.85	65.85	27.00	38.00	23.35	11.06	7.51	39.50	
4	38.50	43.30	27.00	24.70	65.20	65.85	21.20	34.00	23.80	10.69	7.82	39.50	
5	39.00	39.50	27.50	27.50	65.20	65.85	20.80	34.00	23.35	10.32	6.38	41.00	
6	39.00	39.50	29.50	30.50	64.55	66.50	19.60	34.00	22.90	9.70	5.82	48.10	
7	39.00	39.50	27.50	33.50	63.90	66.50	20.00	34.00	22.90	10.69	5.82	48.10	
8	39.50	39.50	27.50	29.50	63.90	66.50	20.80	34.50	23.35	10.69	6.10	43.30	
9	45.70	40.00	28.00	14.00	63.90	66.50	22.45	34.50	23.35	10.69	9.07	38.00	
10	46.90	40.00	27.00	8.76	63.90	65.20	31.00	51.10	16.40	14.80	9.70	37.50	
11	46.90	40.50	27.50	6.93	63.90	65.85	33.50	51.70	9.70	16.00	10.01	38.50	
12	40.50	41.00	23.80	5.55	65.20	65.85	25.60	52.30	10.69	11.42	10.01	38.50	
13	39.50	41.00	20.40	7.20	65.85	65.85	10.32	52.30	10.69	11.42	21.60	38.00	
14	39.50	44.50	20.40	7.20	67.15	65.85	9.38	46.30	10.69	15.60	40.50	39.50	
15	39.00	41.50	20.40	5.00	67.15	65.85	9.38	39.00	10.69	21.60	39.50	39.50	
16	36.50	41.50	20.40	6.65	66.50	65.85	9.70	39.00	10.69	20.80	39.00	39.00	
17	36.50	41.50	20.40	6.65	66.50	65.85	12.16	39.50	10.69	18.00	39.50	37.00	
18	36.50	41.50	14.00	8.45	66.50	65.20	12.53	39.50	10.69	0.96	49.30	37.00	
19	38.50	43.30	6.38	32.50	66.50	65.85	10.01	37.50	10.69	0.40	34.00	37.00	
20	41.00	43.90	4.45	38.50	66.50	63.90	10.69	35.00	11.06	0.40	46.30	37.00	
21	41.50	42.10	3.63	38.50	67.80	65.85	18.80	35.00	11.06	0.40	45.70	37.00	
22	41.50	42.70	4.24	38.00	68.45	65.20	18.40	35.00	10.32	0.40	45.70	37.00	
23	41.50	42.10	3.02	35.00	67.80	51.10	21.60	34.00	9.70	2.24	48.70	38.00	
24	42.10	42.70	3.22	32.00	67.80	38.00	29.00	26.05	9.70	2.08	35.00	49.30	
25	42.10	37.50	3.43	31.50	67.80	38.00	29.00	22.90	9.70	1.92	38.00	52.30	
26	42.10	37.50	10.32	31.50	67.80	38.00	29.00	22.90	9.70	7.20	39.00	54.15	
27	42.70	40.00	11.79	31.00	66.50	38.00	29.00	22.90	9.70	7.20	39.00	40.50	
28	43.30	39.50	7.51	32.00	67.15	47.50	29.50	22.90	14.80	7.20	39.00	35.00	
29	43.30	33.50	18.00	34.00	66.50	65.85	43.30	22.90	20.00	7.20		36.50	
30	43.30	23.80	18.40	37.50	65.85	66.50	55.45	22.90	28.50	7.20		41.50	
31		19.60		41.00	65.85		68.45		37.50	7.20		40.00	
Total	1219.40	1232.40	531.59	748.29	2011.25	1831.00	831.92	1129.25	503.06	327.98	732.75	1255.25	12354.14 CMSDAY
Mean	40.65	39.75	17.72	24.14	64.88	61.03	26.84	37.64	16.23	10.58	26.17	40.49	33.85 CMS
Max	46.90	44.50	29.50	41.00	68.45	66.50	68.45	67.80	37.50	37.50	49.30	54.15	68.45 CMS
Min	36.50	19.60	3.02	5.00	41.50	38.00	9.38	22.90	9.70	0.40	5.82	35.00	0.40 CMS
Runoff	105.36	106.48	45.93	64.65	173.77	158.20	71.88	97.57	43.46	28.34	63.31	108.45	1067.40 MCM
Momentary Peak	76.75 CMS. at 43.15 m. (MSL) at 16.00 Hours , on Mar 31 , 2009												
Runoff Yield	15.25 Liters/Second/Square KM.			Momentary Peak Yield				34.572 Liters/Second/Square KM.					

WATER YEAR : 2009

PHETCHABURI RIVER BASIN

Huai Mae Prachan at Ban Sa Yai Non , Phetchaburi (B.6)

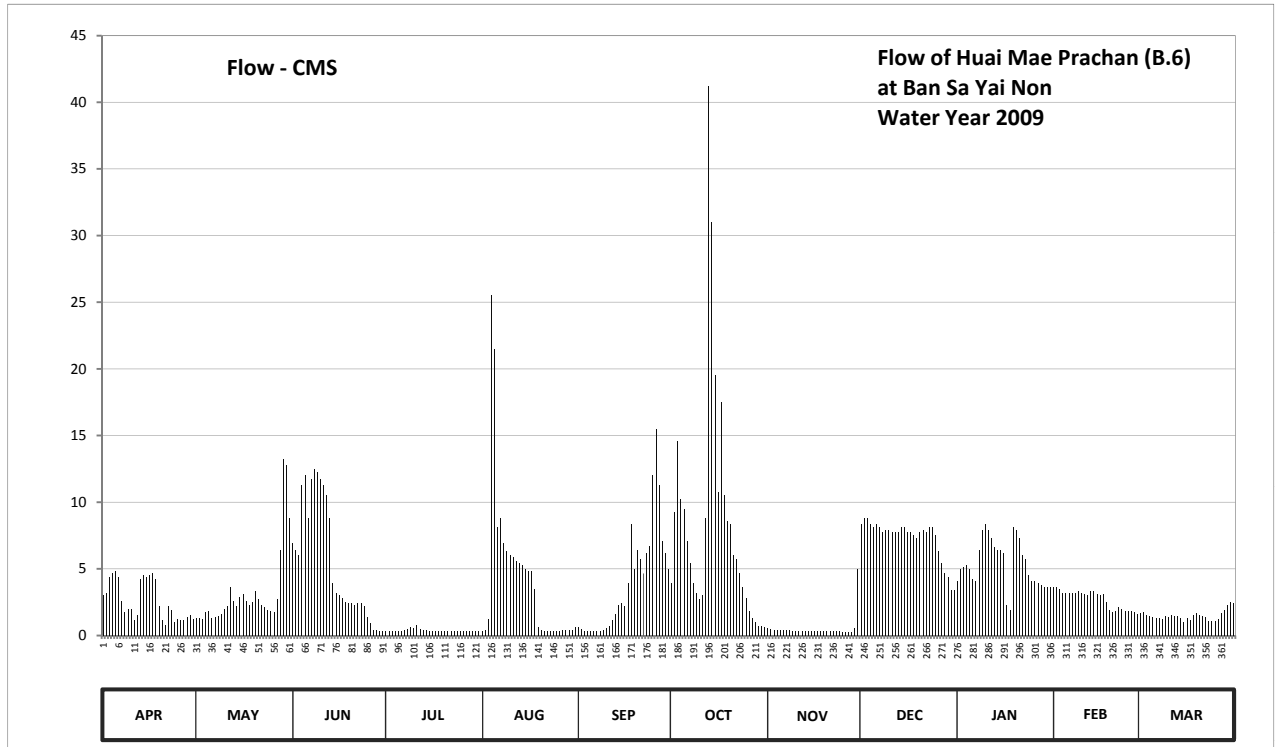
Lat 12 - 56 - 00 N Long 99 - 46 - 59 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet - Kaeng Krachan Reservoir Road.

	Ban	Sa Yai Non	Amphoe	Kaeng Krachan	Changwat	Phetchaburi
Drainage Area	1,003	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+22.711	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage buiding.				Elevation	+32.730 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1941 - 1942 , 1961 to date					
Rating Operation						
Period of Rating	1941 - 1942 , 1961 to date					
Rated by Flot	-					
Rated by Current Meter	1941 - 1942 , 1961 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.31	23.12	23.60	22.77	22.71	22.97	23.40	22.92	23.67	23.41	23.37	23.17	
2	23.33	23.12	23.57	22.77	22.84	22.86	23.71	22.88	23.69	23.47	23.37	23.18	
3	23.43	23.11	23.54	22.77	23.11	22.75	23.92	22.84	23.69	23.48	23.36	23.15	
4	23.45	23.18	23.79	22.76	24.17	22.75	23.75	22.83	23.67	23.49	23.33	23.14	
5	23.46	23.19	23.82	22.76	24.09	22.74	23.72	22.81	23.66	23.47	23.33	23.13	
6	23.43	23.12	23.69	22.76	23.66	22.74	23.61	22.80	23.67	23.42	23.33	23.12	
7	23.27	23.13	23.81	22.81	23.69	22.74	23.50	22.79	23.66	23.41	23.33	23.12	
8	23.18	23.14	23.84	22.88	23.60	22.73	23.40	22.78	23.64	23.57	23.33	23.11	
9	23.21	23.16	23.83	22.97	23.56	22.79	23.33	22.77	23.65	23.65	23.34	23.14	
10	23.21	23.21	23.81	22.91	23.54	22.92	23.28	22.75	23.65	23.67	23.33	23.13	
11	23.10	23.23	23.79	23.01	23.53	22.99	23.31	22.74	23.64	23.65	23.32	23.15	
12	23.15	23.37	23.76	22.87	23.51	23.10	23.69	22.72	23.64	23.62	23.31	23.14	
13	23.42	23.27	23.69	22.80	23.50	23.16	24.47	22.72	23.64	23.58	23.34	23.14	
14	23.44	23.23	23.40	22.79	23.49	23.24	24.28	22.71	23.66	23.57	23.34	23.12	
15	23.43	23.30	23.33	22.77	23.47	23.25	24.05	22.72	23.66	23.57	23.32	23.06	
16	23.44	23.32	23.31	22.77	23.46	23.23	23.77	22.74	23.64	23.55	23.31	23.12	
17	23.45	23.27	23.29	22.75	23.46	23.40	24.01	22.74	23.64	23.24	23.32	23.09	
18	23.42	23.24	23.26	22.75	23.36	23.67	23.76	22.74	23.63	23.20	23.26	23.15	
19	23.23	23.26	23.25	22.75	22.94	23.47	23.68	22.74	23.62	23.66	23.20	23.17	
20	23.09	23.34	23.25	22.74	22.80	23.57	23.67	22.74	23.64	23.65	23.18	23.15	
21	23.01	23.28	23.24	22.74	22.77	23.52	23.54	22.74	23.65	23.62	23.19	23.14	
22	23.23	23.24	23.25	22.74	22.77	23.45	23.52	22.74	23.64	23.54	23.22	23.13	
23	23.20	23.22	23.25	22.74	22.77	23.55	23.45	22.73	23.66	23.52	23.21	23.07	
24	23.06	23.20	23.23	22.73	22.77	23.59	23.37	22.71	23.66	23.44	23.19	23.07	
25	23.11	23.19	23.13	22.73	22.76	23.82	23.29	22.65	23.63	23.41	23.19	23.08	
26	23.10	23.18	23.05	22.73	22.77	23.95	23.19	22.65	23.56	23.41	23.19	23.11	
27	23.10	23.28	22.79	22.73	22.81	23.79	23.12	22.65	23.50	23.40	23.18	23.17	
28	23.13	23.57	22.78	22.73	22.80	23.61	23.06	22.65	23.45	23.39	23.16	23.20	
29	23.15	23.87	22.77	22.73	22.79	23.55	22.99	22.91	23.43	23.37		23.24	
30	23.11	23.85	22.77	22.73	22.80	23.47	22.98	23.47	23.35	23.37		23.26	
31		23.69		22.73	22.96		22.95		23.35	23.37		23.25	
Mean	23.26	23.29	23.40	22.78	23.20	23.25	23.54	22.78	23.61	23.49	23.28	23.14	
Max	23.46	23.87	23.84	23.01	24.17	23.95	24.47	23.47	23.69	23.67	23.37	23.26	24.47
Min	23.01	23.11	22.77	22.73	22.71	22.73	22.95	22.65	23.35	23.20	23.16	23.06	22.65
Annual Max Momentary Gage Height		24.51	m. (MSL.) ,				at 16.00 Hours , on Oct 13 , 2009						
Zero Gage at Bottom Elevation		22.71	m. (MSL.) ,			River Bed	21.65	m. (MSL)					
Left Bank Elevation		30.53	m. (MSL.) ,										
Right Bank Elevation		31.42	m. (MSL.) ,			Drainage Area	1003	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual		
1	3.00	1.32	6.90	0.37	0.31	0.67	3.90	0.55	8.37	4.05	3.60	1.68			
2	3.20	1.32	6.45	0.37	0.44	0.46	9.25	0.48	8.79	4.95	3.60	1.76			
3	4.35	1.25	6.00	0.37	1.25	0.35	14.60	0.44	8.79	5.10	3.50	1.54			
4	4.65	1.76	11.25	0.36	25.50	0.35	10.25	0.43	8.37	5.25	3.20	1.47			
5	4.80	1.83	12.00	0.36	21.50	0.34	9.50	0.41	8.16	4.95	3.20	1.40			
6	4.35	1.32	8.79	0.36	8.16	0.34	7.11	0.40	8.37	4.20	3.20	1.32			
7	2.60	1.40	11.75	0.41	8.79	0.34	5.40	0.39	8.16	4.05	3.20	1.32			
8	1.76	1.47	12.50	0.48	6.90	0.33	3.90	0.38	7.74	6.45	3.20	1.25			
9	2.00	1.61	12.25	0.67	6.30	0.39	3.20	0.37	7.95	7.95	3.30	1.47			
10	2.00	2.00	11.75	0.53	6.00	0.55	2.70	0.35	7.95	8.37	3.20	1.40			
11	1.18	2.20	11.25	0.79	5.85	0.72	3.00	0.34	7.74	7.95	3.10	1.54			
12	1.54	3.60	10.50	0.47	5.55	1.18	8.79	0.32	7.74	7.32	3.00	1.47			
13	4.20	2.60	8.79	0.40	5.40	1.61	41.20	0.32	7.74	6.60	3.30	1.47			
14	4.50	2.20	3.90	0.39	5.25	2.30	31.00	0.31	8.16	6.45	3.30	1.32			
15	4.35	2.90	3.20	0.37	4.95	2.40	19.50	0.32	8.16	6.45	3.10	1.01			
16	4.50	3.10	3.00	0.37	4.80	2.20	10.75	0.34	7.74	6.15	3.00	1.32			
17	4.65	2.60	2.80	0.35	4.80	3.90	17.50	0.34	7.74	2.30	3.10	1.14			
18	4.20	2.30	2.50	0.35	3.50	8.37	10.50	0.34	7.53	1.90	2.50	1.54			
19	2.20	2.50	2.40	0.35	0.60	4.95	8.58	0.34	7.32	8.16	1.90	1.68			
20	1.14	3.30	2.40	0.34	0.40	6.45	8.37	0.34	7.74	7.95	1.76	1.54			
21	0.79	2.70	2.30	0.34	0.37	5.70	6.00	0.34	7.95	7.32	1.83	1.47			
22	2.20	2.30	2.40	0.34	0.37	4.65	5.70	0.34	7.74	6.00	2.10	1.40			
23	1.90	2.10	2.40	0.34	0.37	6.15	4.65	0.33	8.16	5.70	2.00	1.05			
24	1.01	1.90	2.20	0.33	0.37	6.75	3.60	0.31	8.16	4.50	1.83	1.05			
25	1.25	1.83	1.40	0.33	0.36	12.00	2.80	0.25	7.53	4.05	1.83	1.09			
26	1.18	1.76	0.96	0.33	0.37	15.50	1.83	0.25	6.30	4.05	1.83	1.25			
27	1.18	2.70	0.39	0.33	0.41	11.25	1.32	0.25	5.40	3.90	1.76	1.68			
28	1.40	6.45	0.38	0.33	0.40	7.11	1.01	0.25	4.65	3.80	1.61	1.90			
29	1.54	13.25	0.37	0.33	0.39	6.15	0.72	0.53	4.35	3.60		2.30			
30	1.25	12.75	0.37	0.33	0.40	4.95	0.70	4.95	3.40	3.60		2.50			
31		8.79		0.33	0.65		0.63		3.40	3.60		2.40			
Total	78.87	99.11	163.55	12.12	130.71	118.41	257.96	15.31	2	27.30	166.67	76.05	46.73	1392.79	CMSDAY
Mean	2.63	3.20	5.45	0.39	4.22	3.95	8.32	0.51	7.33	5.38	2.72	1.51	3.82		CMS
Max	4.80	13.25	12.50	0.79	25.50	15.50	41.20	4.95	8.79	8.37	3.60	2.50	41.20		CMS
Min	0.79	1.25	0.37	0.33	0.31	0.33	0.63	0.25	3.40	1.90	1.61	1.01	0.25		CMS
Runoff	6.81	8.56	14.13	1.05	11.29	10.23	22.29	1.32	19.64	14.40	6.57	4.04	120.34		MCM
Momentary Peak	44.05 CMS. at 24.51 m. (MSL) at 16.00 Hours , on Oct 13 , 2009														
Runoff Yield	3.80 Liters/Second/Square KM.			Momentary Peak Yield			43.918 Liters/Second/Square KM.								

WATER YEAR : 2009

PHETCHABURI RIVER BASIN

Huai Phak at Ban Prong Khae , Phetchaburi (B.8A)

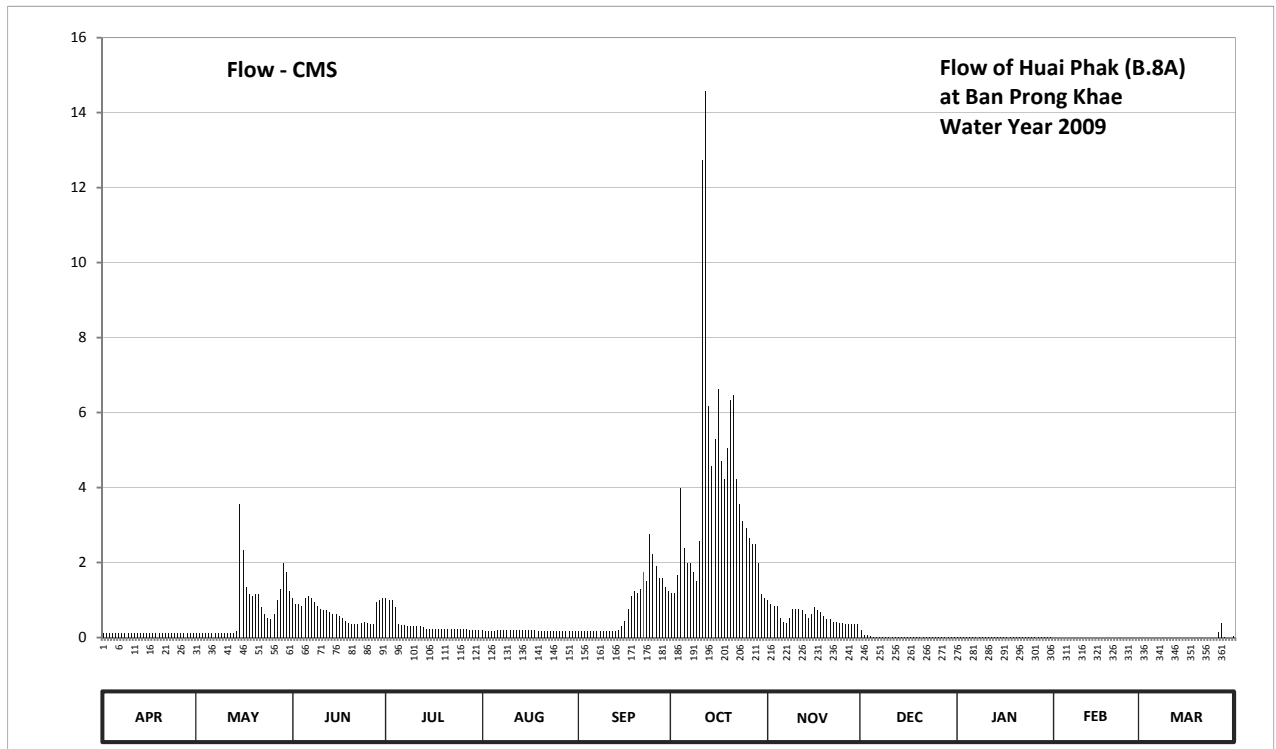
Lat 12 - 48 - 50 N Long 99 - 42 - 16 E

Location : on left bank at Ban Kariang.

	Ban Prong Khae	Amphoe Tha Yang	Changwat Phetchaburi
Drainage Area	301 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+39.177 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of gage observer's house.	Elevation	+47.485 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.76	39.76	40.04	40.04	39.80	39.78	40.07	40.03	39.80	39.71	39.69	39.69	
2	39.76	39.76	40.01	40.03	39.79	39.78	40.07	40.01	39.73	39.71	39.69	39.69	
3	39.76	39.76	40.01	40.03	39.79	39.78	40.14	40.00	39.73	39.71	39.69	39.69	
4	39.76	39.76	40.00	39.99	39.79	39.78	40.39	40.00	39.72	39.71	39.69	39.69	
5	39.76	39.76	40.04	39.88	39.79	39.78	40.23	39.93	39.71	39.71	39.69	39.69	
6	39.76	39.76	40.05	39.86	39.80	39.78	40.18	39.90	39.71	39.71	39.69	39.69	
7	39.76	39.76	40.04	39.86	39.80	39.78	40.18	39.89	39.71	39.71	39.69	39.69	
8	39.76	39.76	40.02	39.85	39.80	39.78	40.15	39.93	39.71	39.71	39.69	39.69	
9	39.76	39.76	40.00	39.85	39.80	39.78	40.12	39.98	39.71	39.71	39.69	39.69	
10	39.76	39.76	39.98	39.85	39.80	39.78	40.25	39.98	39.71	39.71	39.69	39.69	
11	39.76	39.76	39.97	39.85	39.80	39.78	40.95	39.98	39.71	39.71	39.69	39.69	
12	39.76	39.76	39.97	39.85	39.80	39.78	41.04	39.97	39.71	39.71	39.69	39.69	
13	39.76	39.76	39.96	39.84	39.80	39.78	40.56	39.95	39.71	39.71	39.69	39.69	
14	39.76	39.78	39.95	39.82	39.80	39.80	40.44	39.93	39.71	39.71	39.69	39.69	
15	39.76	40.35	39.95	39.82	39.80	39.85	40.50	39.95	39.71	39.71	39.69	39.69	
16	39.76	40.22	39.94	39.82	39.80	39.91	40.59	39.99	39.71	39.71	39.69	39.69	
17	39.76	40.10	39.93	39.82	39.80	39.98	40.45	39.97	39.71	39.71	39.69	39.69	
18	39.76	40.06	39.91	39.82	39.80	40.05	40.41	39.96	39.71	39.71	39.69	39.69	
19	39.76	40.05	39.89	39.82	39.79	40.08	40.48	39.94	39.71	39.71	39.69	39.69	
20	39.76	40.06	39.88	39.82	39.78	40.07	40.57	39.92	39.71	39.71	39.69	39.69	
21	39.76	40.06	39.88	39.82	39.78	40.09	40.58	39.92	39.71	39.71	39.69	39.69	
22	39.76	39.99	39.88	39.82	39.78	40.15	40.41	39.90	39.71	39.71	39.69	39.69	
23	39.76	39.95	39.89	39.82	39.78	40.12	40.35	39.90	39.71	39.71	39.69	39.69	
24	39.76	39.93	39.90	39.81	39.78	40.27	40.31	39.89	39.71	39.71	39.69	39.69	
25	39.76	39.92	39.89	39.81	39.78	40.21	40.29	39.89	39.71	39.71	39.69	39.69	
26	39.76	39.95	39.88	39.81	39.78	40.17	40.26	39.88	39.71	39.71	39.69	39.77	
27	39.76	40.03	39.88	39.81	39.78	40.13	40.24	39.88	39.71	39.71	39.69	39.89	
28	39.76	40.09	40.02	39.80	39.78	40.13	40.24	39.88	39.71	39.71	39.69	39.71	
29	39.76	40.18	40.03	39.80	39.78	40.10	40.18	39.88	39.71	39.71		39.68	
30	39.76	40.15	40.04	39.80	39.78	40.08	40.06	39.88	39.71	39.71		39.70	
31		40.08		39.80	39.78		40.04		39.71	39.71		39.72	
Mean	39.76	39.93	39.96	39.85	39.79	39.94	40.35	39.94	39.71	39.71	39.69	39.70	
Max	39.76	40.35	40.05	40.04	39.80	40.27	41.04	40.03	39.80	39.71	39.69	39.89	41.04
Min	39.76	39.76	39.88	39.80	39.78	39.78	40.04	39.88	39.71	39.71	39.69	39.68	39.68
Annual Max Momentary Gage Height		41.25		m. (MSL.) ,			at 07.00 Hours , on Oct 12 , 2009						
Zero Gage at Bottom Elevation		39.18		m. (MSL.) ,		River Bed	39.59		m. (MSL)				
Left Bank Elevation		45.26		m. (MSL.) ,									
Right Bank Elevation		45.27		m. (MSL.) ,		Drainage Area	301		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.12	1.05	1.05	0.20	0.16	1.20	1.00	0.20	0.02	0.00	0.00	
2	0.12	0.12	0.90	1.00	0.18	0.16	1.20	0.90	0.06	0.02	0.00	0.00	
3	0.12	0.12	0.90	1.00	0.18	0.16	1.67	0.85	0.06	0.02	0.00	0.00	
4	0.12	0.12	0.85	0.81	0.18	0.16	3.99	0.85	0.04	0.02	0.00	0.00	
5	0.12	0.12	1.05	0.36	0.18	0.16	2.40	0.53	0.02	0.02	0.00	0.00	
6	0.12	0.12	1.10	0.32	0.20	0.16	1.99	0.40	0.02	0.02	0.00	0.00	
7	0.12	0.12	1.05	0.32	0.20	0.16	1.99	0.38	0.02	0.02	0.00	0.00	
8	0.12	0.12	0.95	0.30	0.20	0.16	1.75	0.53	0.02	0.02	0.00	0.00	
9	0.12	0.12	0.85	0.30	0.20	0.16	1.51	0.76	0.02	0.02	0.00	0.00	
10	0.12	0.12	0.76	0.30	0.20	0.16	2.58	0.76	0.02	0.02	0.00	0.00	
11	0.12	0.12	0.72	0.30	0.20	0.16	12.73	0.76	0.02	0.02	0.00	0.00	
12	0.12	0.12	0.72	0.30	0.20	0.16	14.57	0.72	0.02	0.02	0.00	0.00	
13	0.12	0.12	0.67	0.28	0.20	0.16	6.17	0.63	0.02	0.02	0.00	0.00	
14	0.12	0.16	0.63	0.24	0.20	0.20	4.58	0.53	0.02	0.02	0.00	0.00	
15	0.12	3.55	0.63	0.24	0.20	0.30	5.30	0.63	0.02	0.02	0.00	0.00	
16	0.12	2.32	0.58	0.24	0.20	0.44	6.61	0.81	0.02	0.02	0.00	0.00	
17	0.12	1.35	0.53	0.24	0.20	0.76	4.70	0.72	0.02	0.02	0.00	0.00	
18	0.12	1.15	0.44	0.24	0.20	1.10	4.22	0.67	0.02	0.02	0.00	0.00	
19	0.12	1.10	0.38	0.24	0.18	1.25	5.06	0.58	0.02	0.02	0.00	0.00	
20	0.12	1.15	0.36	0.24	0.16	1.20	6.32	0.49	0.02	0.02	0.00	0.00	
21	0.12	1.15	0.36	0.24	0.16	1.30	6.46	0.49	0.02	0.02	0.00	0.00	
22	0.12	0.81	0.36	0.24	0.16	1.75	4.22	0.40	0.02	0.02	0.00	0.00	
23	0.12	0.63	0.38	0.24	0.16	1.51	3.55	0.40	0.02	0.02	0.00	0.00	
24	0.12	0.53	0.40	0.22	0.16	2.75	3.11	0.38	0.02	0.02	0.00	0.00	
25	0.12	0.49	0.38	0.22	0.16	2.23	2.92	0.38	0.02	0.02	0.00	0.00	
26	0.12	0.63	0.36	0.22	0.16	1.91	2.66	0.36	0.02	0.02	0.00	0.14	
27	0.12	1.00	0.36	0.22	0.16	1.59	2.49	0.36	0.02	0.02	0.00	0.38	
28	0.12	1.30	0.95	0.20	0.16	1.59	2.49	0.36	0.02	0.02	0.00	0.02	
29	0.12	1.99	1.00	0.20	0.16	1.35	1.99	0.36	0.02	0.02	0.00	0.00	
30	0.12	1.75	1.05	0.20	0.16	1.25	1.15	0.36	0.02	0.02	0.00	0.00	
31		1.25		0.20	0.16		1.05		0.02	0.02		0.04	
Total	3.60	23.87	20.72	10.72	5.62	24.56	122.63	17.35	0.90	0.62	0.00	0.58	231.17 CMSDAY
Mean	0.12	0.77	0.69	0.35	0.18	0.82	3.96	0.58	0.03	0.02	0.00	0.02	0.63 CMS
Max	0.12	3.55	1.10	1.05	0.20	2.75	14.57	1.00	0.20	0.02	0.00	0.38	14.57 CMS
Min	0.12	0.12	0.36	0.20	0.16	0.16	1.05	0.36	0.02	0.02	0.00	0.00	0.00 CMS
Runoff	0.31	2.06	1.79	0.93	0.49	2.12	10.60	1.50	0.08	0.05	0.00	0.05	19.97 MCM
Momentary Peak	18.89 CMS. at 41.25 m. (MSL.) at 07.00 Hours , on Oct 12 , 2009												
Runoff Yield	2.10 Liters/Second/Square KM.			Momentary Peak Yield			62.757 Liters/Second/Square KM.						

WATER YEAR : 2009

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)

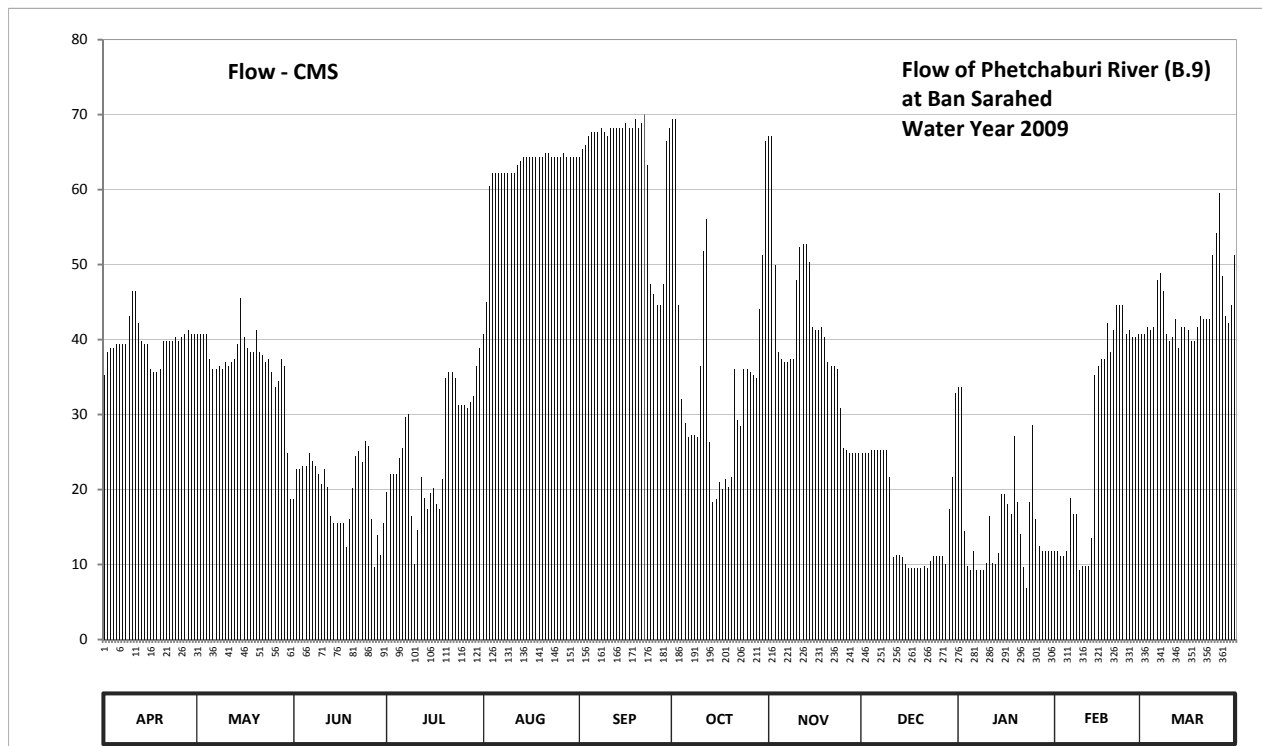
Lat 12 - 48 - 18 N Long 99 - 46 - 27 E

Location : on left bank at Ban Sarahed.

	Ban Sarahed	Amphoe Tha Yang	Changwat Phetchaburi
Drainage Area	2,617 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+25.317 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage buiding.	Elevation	+32.512 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.68	27.80	27.23	27.26	27.80	28.28	28.37	28.33	27.41	27.64	26.86	27.80	
2	27.75	27.80	27.35	27.33	27.89	28.30	28.37	28.33	27.41	27.64	26.86	27.80	
3	27.76	27.80	27.35	27.33	28.21	28.31	27.88	27.99	27.41	27.10	26.87	27.82	
4	27.76	27.80	27.36	27.33	28.24	28.33	27.60	27.75	27.42	26.93	26.87	27.81	
5	27.77	27.73	27.36	27.39	28.24	28.34	27.52	27.73	27.42	26.91	26.86	27.82	
6	27.77	27.70	27.41	27.43	28.24	28.34	27.47	27.72	27.42	26.86	26.76	27.95	
7	27.77	27.70	27.38	27.54	28.24	28.34	27.48	27.72	27.42	26.91	26.79	27.97	
8	27.77	27.71	27.36	27.55	28.24	28.35	27.48	27.73	27.42	26.91	26.79	27.92	
9	27.85	27.70	27.33	27.16	28.24	28.34	27.47	27.73	27.42	26.91	26.91	27.80	
10	27.92	27.72	27.29	26.94	28.24	28.33	27.71	27.95	27.32	26.95	26.93	27.78	
11	27.92	27.71	27.35	26.82	28.24	28.35	28.03	28.04	26.98	27.16	26.93	27.79	
12	27.83	27.72	27.28	26.72	28.26	28.35	28.12	28.05	26.99	26.95	26.93	27.84	
13	27.78	27.73	27.16	26.76	28.27	28.35	27.45	28.05	26.99	26.94	27.07	27.76	
14	27.77	27.77	27.13	26.78	28.28	28.35	27.22	28.00	26.98	27.00	27.68	27.82	
15	27.77	27.90	27.13	26.75	28.28	28.35	27.23	27.82	26.94	27.25	27.71	27.82	
16	27.70	27.79	27.13	26.74	28.28	28.36	27.30	27.81	26.92	27.25	27.73	27.81	
17	27.69	27.76	27.13	26.77	28.28	28.35	27.27	27.81	26.92	27.21	27.73	27.78	
18	27.69	27.75	27.03	26.78	28.28	28.35	27.31	27.82	26.92	26.79	27.83	27.78	
19	27.70	27.75	26.80	27.31	28.28	28.37	27.28	27.79	26.92	26.58	27.75	27.82	
20	27.78	27.81	26.74	27.67	28.28	28.35	27.32	27.72	26.92	26.52	27.81	27.85	
21	27.78	27.75	26.68	27.69	28.29	28.36	27.70	27.71	26.93	26.49	27.88	27.84	
22	27.78	27.74	26.67	27.69	28.29	28.38	27.53	27.71	26.92	26.46	27.88	27.84	
23	27.78	27.72	26.69	27.67	28.28	28.26	27.51	27.70	26.88	26.44	27.88	27.84	
24	27.79	27.73	26.65	27.58	28.28	27.94	27.70	27.57	26.87	26.52	27.80	28.02	
25	27.78	27.69	26.66	27.58	28.28	27.91	27.70	27.43	26.87	26.62	27.81	28.08	
26	27.79	27.64	26.80	27.58	28.28	27.88	27.69	27.42	26.87	26.80	27.79	28.19	
27	27.80	27.66	26.89	27.57	28.29	27.88	27.68	27.41	26.87	26.85	27.79	27.96	
28	27.81	27.73	26.83	27.59	28.28	27.94	27.67	27.41	26.94	26.86	27.80	27.85	
29	27.80	27.71	26.99	27.61	28.28	28.32	27.87	27.41	27.19	26.86		27.83	
30	27.80	27.41	27.13	27.71	28.28	28.35	28.02	27.41	27.32	26.86		27.88	
31		27.23		27.76	28.28		28.32		27.62	26.86		28.02	
Mean	27.78	27.71	27.08	27.30	28.24	28.27	27.65	27.77	27.12	26.90	27.37	27.87	
Max	27.92	27.90	27.41	27.76	28.29	28.38	28.37	28.33	27.62	27.64	27.88	28.19	28.38
Min	27.68	27.23	26.65	26.72	27.80	27.88	27.22	27.41	26.87	26.44	26.76	27.76	26.44
Annual Max Momentary Gage Height	28.46		m. (MSL.) ,				at 22.00 Hours , on Sep 21 , 2009						
Zero Gage at Bottom Elevation	25.32		m. (MSL.) ,			River Bed	25.13	m. (MSL)					
Left Bank Elevation	30.91		m. (MSL.) ,										
Right Bank Elevation	32.03		m. (MSL.) ,			Drainage Area	2617	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	35.20	40.75	18.69	19.68	40.75	64.28	69.42	67.10	24.85	33.60	11.80	40.75		
2	38.37	40.75	22.75	22.05	45.02	65.35	69.42	67.10	24.85	33.60	11.80	40.75		
3	38.85	40.75	22.75	22.05	60.53	65.93	44.55	49.85	24.85	14.50	11.10	41.70		
4	38.85	40.75	23.10	22.05	62.14	67.10	32.00	38.37	25.20	9.75	11.10	41.22		
5	39.33	37.42	23.10	24.15	62.14	67.68	28.80	37.42	25.20	9.25	11.80	41.70		
6	39.33	36.00	24.85	25.55	62.14	67.68	26.95	36.95	25.20	11.80	18.80	47.92		
7	39.33	36.00	23.80	29.60	62.14	67.68	27.30	36.95	25.20	9.25	16.70	48.88		
8	39.33	36.47	23.10	30.00	62.14	68.26	27.30	37.42	25.20	9.25	16.70	46.47		
9	43.13	36.00	22.05	16.42	62.14	67.68	26.95	37.42	25.20	9.25	9.25	40.75		
10	46.47	36.95	20.67	10.00	62.14	67.10	36.47	47.92	21.70	10.25	9.75	39.80		
11	46.47	36.47	22.75	14.60	62.14	68.26	51.78	52.27	11.00	16.42	9.75	40.28		
12	42.17	36.95	20.34	21.60	63.21	68.26	56.13	52.75	11.25	10.25	9.75	42.65		
13	39.80	37.42	16.42	18.80	63.75	68.26	26.25	52.75	11.25	10.00	13.60	38.85		
14	39.33	39.33	15.46	17.40	64.28	68.26	18.36	50.33	11.00	11.50	35.20	41.70		
15	39.33	45.50	15.46	19.50	64.28	68.26	18.69	41.70	10.00	19.35	36.47	41.70		
16	36.00	40.28	15.46	20.20	64.28	68.84	21.00	41.22	9.50	19.35	37.42	41.22		
17	35.60	38.85	15.46	18.10	64.28	68.26	20.01	41.22	9.50	18.03	37.42	39.80		
18	35.60	38.37	12.40	17.40	64.28	68.26	21.35	41.70	9.50	16.70	42.17	39.80		
19	36.00	38.37	16.00	21.35	64.28	69.42	20.34	40.28	9.50	27.10	38.37	41.70		
20	39.80	41.22	20.20	34.80	64.28	68.26	21.70	36.95	9.50	18.40	41.22	43.13		
21	39.80	38.37	24.40	35.60	64.82	68.84	36.00	36.47	9.75	14.05	44.55	42.65		
22	39.80	37.90	25.10	35.60	64.82	70.01	29.20	36.47	9.50	9.70	44.55	42.65		
23	39.80	36.95	23.70	34.80	64.28	63.21	28.40	36.00	10.40	6.80	44.55	42.65		
24	40.28	37.42	26.50	31.20	64.28	47.43	36.00	30.80	11.10	18.40	40.75	51.30		
25	39.80	35.60	25.80	31.20	64.28	45.98	36.00	25.55	11.10	28.60	41.22	54.20		
26	40.28	33.60	16.00	31.20	64.28	44.55	35.60	25.20	11.10	16.00	40.28	59.52		
27	40.75	34.40	9.70	30.80	64.82	44.55	35.20	24.85	11.10	12.50	40.28	48.40		
28	41.22	37.42	13.90	31.60	64.28	47.43	34.80	24.85	10.00	11.80	40.75	43.13		
29	40.75	36.47	11.25	32.40	64.28	66.51	44.08	24.85	17.38	11.80		42.17		
30	40.75	24.85	15.46	36.47	64.28	68.26	51.30	24.85	21.70	11.80		44.55		
31		18.69		38.85	64.28		66.51		32.80	11.80		51.30		
Total	1191.52	1146.27	586.62	795.02	1929.04	1919.85	1097.86	1197.56	505.38	470.85	767.10	1363.29	12970.36	CMSDAY
Mean	39.72	36.98	19.55	25.65	62.23	64.00	35.41	39.92	16.30	15.19	27.40	43.98	35.54	CMS
Max	46.47	45.50	26.50	38.85	64.82	70.01	69.42	67.10	32.80	33.60	44.55	59.52	70.01	CMS
Min	35.20	18.69	9.70	10.00	40.75	44.55	18.36	24.85	9.50	6.80	9.25	38.85	6.80	CMS
Runoff	102.95	99.04	50.68	68.69	166.67	165.88	94.86	103.47	43.67	40.68	66.28	117.79	1120.64	MCM
Momentary Peak	74.85 CMS. at 28.46 m. (MSL.) at 22.00 Hours , on Sep 21 , 2009													
Runoff Yield	13.58 Liters/Second/Square KM.			Momentary Peak Yield				28.601 Liters/Second/Square KM.						

WATER YEAR : 2009

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)

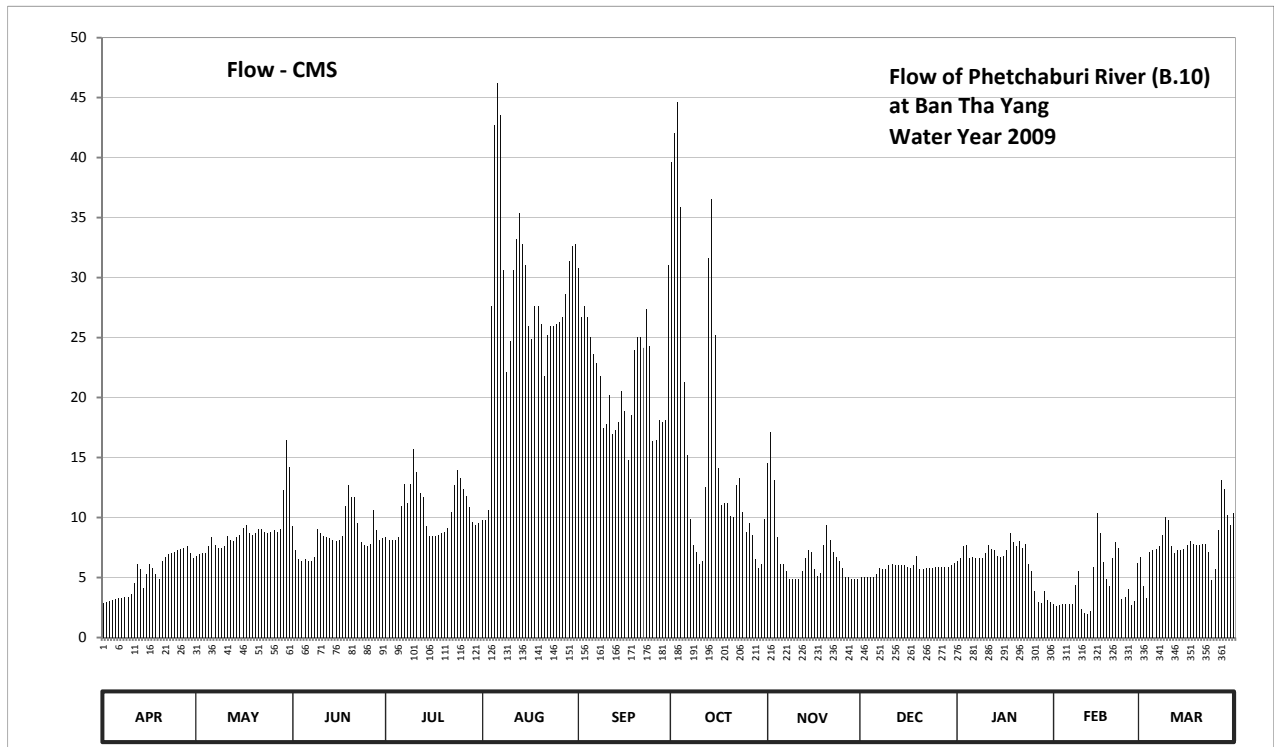
Lat 12 - 58 - 21 N Long 99 - 53 - 07 E

Location : on left bank at the bridge of Ban Tha Yang.

	Ban Tha Yang	Amphoe Tha Yang	Changwat Phetchaburi
Drainage Area	4,076	sq.km.	
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+5.630	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 2 meters from the top staff gage.		Elevation +15.068 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1985 to date		
Rated by Flot	-		
Rated by Current Meter	1985 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phet Dam. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.10	6.52	6.74	6.66	6.78	8.08	8.50	7.15	6.34	6.48	6.08	6.51	
2	6.11	6.53	6.56	6.64	6.78	7.87	8.61	7.32	6.34	6.50	6.06	6.27	
3	6.12	6.54	6.49	6.64	6.85	7.92	8.73	7.05	6.34	6.59	6.07	6.16	
4	6.13	6.54	6.48	6.64	7.92	7.87	8.33	6.66	6.34	6.60	6.08	6.55	
5	6.14	6.59	6.49	6.66	8.64	7.78	7.57	6.45	6.34	6.50	6.08	6.56	
6	6.15	6.66	6.48	6.88	8.80	7.70	7.20	6.45	6.37	6.51	6.08	6.57	
7	6.16	6.60	6.48	7.03	8.68	7.66	6.79	6.39	6.42	6.50	6.08	6.59	
8	6.17	6.58	6.51	6.90	8.07	7.60	6.60	6.33	6.41	6.50	6.28	6.68	
9	6.17	6.58	6.72	7.03	7.62	7.34	6.55	6.33	6.41	6.50	6.39	6.80	
10	6.20	6.59	6.69	7.23	7.76	7.36	6.45	6.33	6.44	6.54	6.03	6.78	
11	6.29	6.67	6.67	7.10	8.07	7.51	6.48	6.33	6.45	6.60	5.96	6.59	
12	6.45	6.64	6.66	6.97	8.20	7.31	7.01	6.39	6.44	6.57	5.95	6.54	
13	6.41	6.63	6.65	6.94	8.31	7.33	8.12	6.50	6.44	6.56	6.00	6.56	
14	6.25	6.66	6.64	6.74	8.18	7.37	8.36	6.56	6.44	6.52	6.43	6.56	
15	6.37	6.68	6.63	6.67	8.09	7.53	7.79	6.55	6.44	6.51	6.83	6.57	
16	6.45	6.73	6.64	6.67	7.83	7.43	7.12	6.41	6.43	6.52	6.69	6.60	
17	6.42	6.75	6.67	6.67	7.77	7.17	6.89	6.35	6.42	6.56	6.47	6.63	
18	6.37	6.69	6.88	6.68	7.92	7.41	6.90	6.38	6.44	6.69	6.33	6.61	
19	6.33	6.68	7.02	6.69	7.92	7.72	6.90	6.60	6.52	6.62	6.27	6.60	
20	6.48	6.69	6.94	6.70	7.84	7.78	6.81	6.75	6.41	6.59	6.50	6.60	
21	6.51	6.72	6.94	6.73	7.60	7.78	6.80	6.64	6.41	6.63	6.62	6.61	
22	6.53	6.72	6.76	6.84	7.79	7.73	7.02	6.55	6.42	6.58	6.58	6.61	
23	6.54	6.70	6.62	7.02	7.83	7.91	7.06	6.51	6.42	6.61	6.14	6.55	
24	6.55	6.69	6.60	7.11	7.83	7.74	6.84	6.48	6.42	6.45	6.17	6.32	
25	6.56	6.70	6.59	7.06	7.84	7.27	6.70	6.42	6.43	6.39	6.24	6.41	
26	6.57	6.71	6.61	7.00	7.85	7.28	6.76	6.34	6.43	6.23	6.07	6.71	
27	6.58	6.70	6.85	6.95	7.87	7.38	6.68	6.34	6.43	6.11	6.12	7.05	
28	6.59	6.72	6.71	6.87	7.97	7.37	6.49	6.33	6.43	6.10	6.46	7.00	
29	6.54	6.99	6.64	6.77	8.11	7.38	6.42	6.33	6.43	6.23		6.82	
30	6.50	7.28	6.65	6.75	8.17	8.09	6.45	6.33	6.44	6.13		6.75	
31		7.13		6.76	8.18		6.79		6.46	6.11		6.83	
Mean	6.36	6.70	6.67	6.84	7.91	7.59	7.15	6.52	6.42	6.47	6.25	6.61	
Max	6.59	7.28	7.02	7.23	8.80	8.09	8.73	7.32	6.52	6.69	6.83	7.05	8.80
Min	6.10	6.52	6.48	6.64	6.78	7.17	6.42	6.33	6.34	6.10	5.95	6.16	5.95
Annual Max Momentary Gage Height	8.83		m. (MSL.) ,				at 04.00 Hours , on Aug 6 , 2009						
Zero Gage at Bottom Elevation	5.63		m. (MSL.) ,			River Bed	4.37		m. (MSL)				
Left Bank Elevation	15.2		m. (MSL.) ,										
Right Bank Elevation	15.06		m. (MSL.) ,			Drainage Area	4076		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.90	6.82	9.28	8.36	9.76	30.80	39.60	14.50	5.00	6.40	2.76	6.71	
2	2.97	6.93	7.26	8.14	9.76	26.66	42.02	17.12	5.00	6.60	2.62	4.30	
3	3.04	7.04	6.50	8.14	10.60	27.60	44.66	13.10	5.00	7.59	2.69	3.32	
4	3.11	7.04	6.40	8.14	27.60	26.66	35.86	8.36	5.00	7.70	2.76	7.15	
5	3.18	7.59	6.50	8.36	42.68	25.04	21.26	6.10	5.00	6.60	2.76	7.26	
6	3.25	8.36	6.40	10.96	46.20	23.60	15.20	6.10	5.30	6.71	2.76	7.37	
7	3.32	7.70	6.40	12.82	43.56	22.88	9.88	5.50	5.80	6.60	2.76	7.59	
8	3.39	7.48	6.71	11.20	30.60	21.80	7.70	4.90	5.70	6.60	4.40	8.58	
9	3.39	7.48	9.04	12.82	22.16	17.44	7.15	4.90	5.70	6.60	5.50	10.00	
10	3.60	7.59	8.69	15.68	24.68	17.76	6.10	4.90	6.00	7.04	2.41	9.76	
11	4.50	8.47	8.47	13.80	30.60	20.18	6.40	4.90	6.10	7.70	2.00	7.59	
12	6.10	8.14	8.36	12.04	33.20	16.96	12.54	5.50	6.00	7.37	1.95	7.04	
13	5.70	8.03	8.25	11.68	35.42	17.28	31.60	6.60	6.00	7.26	2.20	7.26	
14	4.10	8.36	8.14	9.28	32.80	17.92	36.52	7.26	6.00	6.82	5.90	7.26	
15	5.30	8.58	8.03	8.47	31.00	20.54	25.22	7.15	6.00	6.71	10.36	7.37	
16	6.10	9.16	8.14	8.47	25.94	18.88	14.08	5.70	5.90	6.82	8.69	7.70	
17	5.80	9.40	8.47	8.47	24.86	14.78	11.08	5.10	5.80	7.26	6.30	8.03	
18	5.30	8.69	10.96	8.58	27.60	18.56	11.20	5.40	6.00	8.69	4.90	7.81	
19	4.90	8.58	12.68	8.69	27.60	23.96	11.20	7.70	6.82	7.92	4.30	7.70	
20	6.40	8.69	11.68	8.80	26.12	25.04	10.12	9.40	5.70	7.59	6.60	7.70	
21	6.71	9.04	11.68	9.16	21.80	25.04	10.00	8.14	5.70	8.03	7.92	7.81	
22	6.93	9.04	9.52	10.48	25.22	24.14	12.68	7.15	5.80	7.48	7.48	7.81	
23	7.04	8.80	7.92	12.68	25.94	27.40	13.24	6.71	5.80	7.81	3.18	7.15	
24	7.15	8.69	7.70	13.94	25.94	24.32	10.48	6.40	5.80	6.10	3.39	4.80	
25	7.26	8.80	7.59	13.24	26.12	16.32	8.80	5.80	5.90	5.50	4.00	5.70	
26	7.37	8.92	7.81	12.40	26.30	16.48	9.52	5.00	5.90	3.90	2.69	8.92	
27	7.48	8.80	10.60	11.80	26.66	18.08	8.58	5.00	5.90	2.97	3.04	13.10	
28	7.59	9.04	8.92	10.84	28.60	17.92	6.50	4.90	5.90	2.90	6.20	12.40	
29	7.04	12.28	8.14	9.64	31.40	18.08	5.80	4.90	5.90	3.90		10.24	
30	6.60	16.48	8.25	9.40	32.60	31.00	6.10	4.90	6.00	3.11		9.40	
31		14.22		9.52	32.80		9.88		6.20	2.97		10.36	
Total	157.52	274.24	254.49	326.00	866.12	653.12	500.97	209.09	178.62	197.25	122.52	245.19	3985.13 CMSDAY
Mean	5.25	8.85	8.48	10.52	27.94	21.77	16.16	6.97	5.76	6.36	4.38	7.91	10.92 CMS
Max	7.59	16.48	12.68	15.68	46.20	31.00	44.66	17.12	6.82	8.69	10.36	13.10	46.20 CMS
Min	2.90	6.82	6.40	8.14	9.76	14.78	5.80	4.90	5.00	2.90	1.95	3.32	1.95 CMS
Runoff	13.61	23.69	21.99	28.17	74.83	56.43	43.28	18.07	15.43	17.04	10.59	21.18	344.32 MCM
Momentary Peak	46.92 CMS. at 8.83 m. (MSL.) at 04.00 Hours , on Aug 6 , 2009												
Runoff Yield	2.68 Liters/Second/Square KM.			Momentary Peak Yield				11.511 Liters/Second/Square KM.					

WATER YEAR : 2009

PHETCHABURI RIVER BASIN

Hual Mae Prachan at Ban Cha Prong , Phetchaburi (B.11)

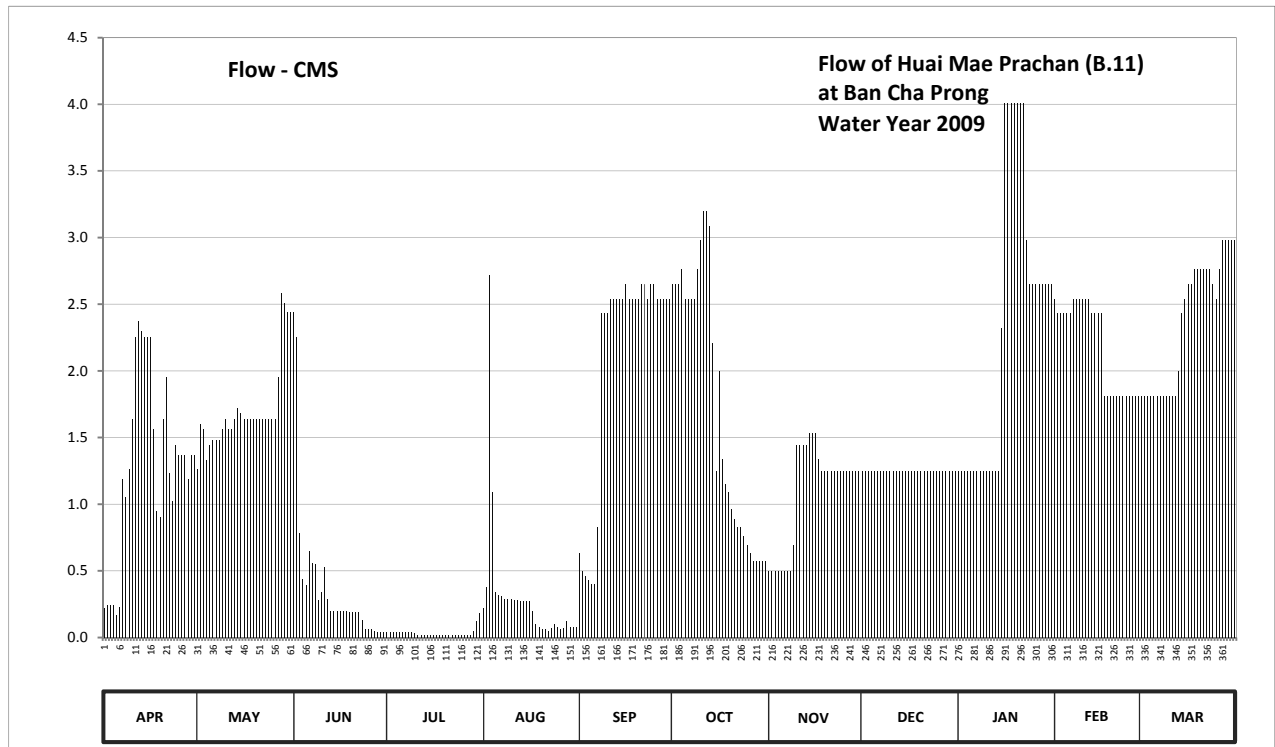
Lat 13 - 10 - 23 N Long 99 - 41 - 00 E

Location : on right bank at the bridge of Ban Cha Prong.

	Ban Cha Prong	Amphoe Nong Ya Plong	Changwat Phetchaburi
Drainage Area	460 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+72.272 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 45 meters from the top staff gage.	Elevation	+78.722 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2000 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.93	72.66	72.92	71.57	71.93	71.62	71.85	71.60	71.71	71.71	71.84	71.77	
2	71.97	72.75	72.89	71.57	72.24	71.60	71.85	71.60	71.71	71.71	71.83	71.77	
3	71.98	72.74	72.49	71.57	72.96	71.59	71.85	71.60	71.71	71.71	71.83	71.77	
4	71.98	72.68	72.31	71.57	72.61	71.58	71.86	71.60	71.71	71.71	71.83	71.77	
5	71.83	72.71	72.26	71.57	72.17	71.57	71.84	71.60	71.71	71.71	71.83	71.77	
6	71.96	72.72	72.43	71.57	72.14	71.57	71.84	71.60	71.71	71.71	71.83	71.77	
7	72.64	72.72	72.39	71.57	72.11	71.65	71.84	71.60	71.71	71.71	71.84	71.77	
8	72.60	72.72	72.38	71.57	72.08	71.83	71.84	71.60	71.71	71.71	71.84	71.77	
9	72.66	72.74	72.05	71.57	72.07	71.83	71.86	71.63	71.71	71.71	71.84	71.77	
10	72.76	72.76	72.18	71.52	72.07	71.83	71.88	71.73	71.71	71.71	71.84	71.77	
11	72.89	72.74	72.37	71.48	72.05	71.84	71.90	71.73	71.71	71.71	71.84	71.77	
12	72.91	72.74	72.08	71.48	72.05	71.84	71.90	71.73	71.71	71.71	71.84	71.77	
13	72.90	72.76	71.90	71.49	72.04	71.84	71.89	71.73	71.71	71.71	71.83	71.79	
14	72.89	72.78	71.90	71.49	72.04	71.84	71.81	71.74	71.71	71.71	71.83	71.83	
15	72.89	72.77	71.90	71.48	72.04	71.84	71.71	71.74	71.71	71.82	71.83	71.84	
16	72.89	72.76	71.90	71.48	72.04	71.85	71.79	71.74	71.71	71.96	71.83	71.85	
17	72.74	72.76	71.90	71.48	71.89	71.84	71.72	71.72	71.71	71.96	71.77	71.85	
18	72.56	72.76	71.90	71.48	71.69	71.84	71.70	71.71	71.71	71.96	71.77	71.86	
19	72.54	72.76	71.88	71.48	71.66	71.84	71.69	71.71	71.71	71.96	71.77	71.86	
20	72.76	72.76	71.87	71.48	71.63	71.84	71.67	71.71	71.71	71.96	71.77	71.86	
21	72.83	72.76	71.87	71.48	71.61	71.85	71.66	71.71	71.71	71.96	71.77	71.86	
22	72.65	72.76	71.87	71.48	71.60	71.85	71.65	71.71	71.71	71.96	71.77	71.86	
23	72.59	72.76	71.76	71.48	71.64	71.84	71.65	71.71	71.71	71.88	71.77	71.86	
24	72.71	72.76	71.63	71.48	71.69	71.85	71.64	71.71	71.71	71.85	71.77	71.85	
25	72.69	72.76	71.61	71.48	71.66	71.85	71.63	71.71	71.71	71.85	71.77	71.84	
26	72.69	72.76	71.61	71.48	71.62	71.84	71.62	71.71	71.71	71.85	71.77	71.86	
27	72.69	72.83	71.59	71.48	71.64	71.84	71.61	71.71	71.71	71.85	71.77	71.88	
28	72.64	72.94	71.57	71.48	71.74	71.84	71.61	71.71	71.71	71.85	71.77	71.88	
29	72.69	72.93	71.57	71.60	71.66	71.84	71.61	71.71	71.71	71.85		71.88	
30	72.69	72.92	71.57	71.73	71.65	71.84	71.61	71.71	71.71	71.85		71.88	
31		72.92		71.86	71.65		71.61		71.71	71.85		71.88	
Mean	72.57	72.77	72.02	71.53	71.92	71.78	71.75	71.68	71.71	71.81	71.81	71.82	
Max	72.91	72.94	72.92	71.86	72.96	71.85	71.90	71.74	71.71	71.96	71.84	71.88	72.96
Min	71.83	72.66	71.57	71.48	71.60	71.57	71.61	71.60	71.71	71.71	71.77	71.77	71.48
Annual Max Momentary Gage Height		73.08		m. (MSL.) ,									at 20.00 Hours , on Jun 2 , 2009
Zero Gage at Bottom Elevation		72.27		m. (MSL.) ,		River Bed	71.34		m. (MSL)				
Left Bank Elevation		77.06		m. (MSL.) ,									
Right Bank Elevation		79.04		m. (MSL.) ,		Drainage Area	460		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	1.26	2.44	0.04	0.22	0.63	2.65	0.50	1.25	1.25	2.54	1.81	
2	0.24	1.60	2.25	0.04	0.38	0.50	2.65	0.50	1.25	1.25	2.43	1.81	
3	0.24	1.56	0.78	0.04	2.72	0.46	2.65	0.50	1.25	1.25	2.43	1.81	
4	0.24	1.33	0.44	0.04	1.09	0.43	2.76	0.50	1.25	1.25	2.43	1.81	
5	0.17	1.44	0.39	0.04	0.34	0.40	2.54	0.50	1.25	1.25	2.43	1.81	
6	0.23	1.48	0.65	0.04	0.32	0.40	2.54	0.50	1.25	1.25	2.43	1.81	
7	1.19	1.48	0.56	0.04	0.31	0.83	2.54	0.50	1.25	1.25	2.54	1.81	
8	1.05	1.48	0.55	0.04	0.29	2.43	2.54	0.50	1.25	1.25	2.54	1.81	
9	1.26	1.56	0.28	0.04	0.29	2.43	2.76	0.69	1.25	1.25	2.54	1.81	
10	1.64	1.64	0.34	0.03	0.29	2.43	2.98	1.44	1.25	1.25	2.54	1.81	
11	2.25	1.56	0.53	0.02	0.28	2.54	3.20	1.44	1.25	1.25	2.54	1.81	
12	2.37	1.56	0.29	0.02	0.28	2.54	3.20	1.44	1.25	1.25	2.54	1.81	
13	2.30	1.64	0.20	0.02	0.27	2.54	3.09	1.44	1.25	1.25	2.43	2.00	
14	2.25	1.72	0.20	0.02	0.27	2.54	2.21	1.53	1.25	1.25	2.43	2.43	
15	2.25	1.68	0.20	0.02	0.27	2.54	1.25	1.53	1.25	2.32	2.43	2.54	
16	2.25	1.64	0.20	0.02	0.27	2.65	2.00	1.53	1.25	4.01	2.43	2.65	
17	1.56	1.64	0.20	0.02	0.20	2.54	1.34	1.34	1.25	4.01	1.81	2.65	
18	0.95	1.64	0.20	0.02	0.10	2.54	1.15	1.25	1.25	4.01	1.81	2.76	
19	0.90	1.64	0.19	0.02	0.08	2.54	1.09	1.25	1.25	4.01	1.81	2.76	
20	1.64	1.64	0.19	0.02	0.06	2.54	0.96	1.25	1.25	4.01	1.81	2.76	
21	1.95	1.64	0.19	0.02	0.06	2.65	0.89	1.25	1.25	4.01	1.81	2.76	
22	1.23	1.64	0.19	0.02	0.05	2.65	0.83	1.25	1.25	4.01	1.81	2.76	
23	1.02	1.64	0.13	0.02	0.07	2.54	0.83	1.25	1.25	2.98	1.81	2.76	
24	1.44	1.64	0.06	0.02	0.10	2.65	0.76	1.25	1.25	2.65	1.81	2.65	
25	1.37	1.64	0.06	0.02	0.08	2.65	0.69	1.25	1.25	2.65	1.81	2.54	
26	1.37	1.64	0.06	0.02	0.06	2.54	0.63	1.25	1.25	2.65	1.81	2.76	
27	1.37	1.95	0.05	0.02	0.07	2.54	0.57	1.25	1.25	2.65	1.81	2.98	
28	1.19	2.58	0.04	0.02	0.12	2.54	0.57	1.25	1.25	2.65	1.81	2.98	
29	1.37	2.51	0.04	0.05	0.08	2.54	0.57	1.25	1.25	2.65		2.98	
30	1.37	2.44	0.04	0.12	0.08	2.54	0.57	1.25	1.25	2.65		2.98	
31		2.44		0.18	0.08		0.57		1.25	2.65		2.98	
Total	38.88	52.95	11.94	1.10	9.18	62.29	53.58	32.63	38.75	72.07	61.37	73.40	508.14 CMSDAY
Mean	1.30	1.71	0.40	0.04	0.30	2.08	1.73	1.09	1.25	2.32	2.19	2.37	1.39 CMS
Max	2.37	2.58	2.44	0.18	2.72	2.65	3.20	1.53	1.25	4.01	2.54	2.98	4.01 CMS
Min	0.17	1.26	0.04	0.02	0.05	0.40	0.57	0.50	1.25	1.25	1.81	1.81	0.02 CMS
Runoff	3.36	4.58	1.03	0.10	0.79	5.38	4.63	2.82	3.35	6.23	5.30	6.34	43.90 MCM
Momentary Peak	15.00 CMS. at 73.08 m. (MSL.) at 20.00 Hours , on Jun 2 , 2009												
Runoff Yield	3.03 Liters/Second/Square KM.			Momentary Peak Yield			32.609 Liters/Second/Square KM.						

WATER YEAR : 2009
WEST COAST - GULF BASIN

Khlong Wa Thon at Ban Rai Khlong , Prachuap Khiri Khan (Gt.8)

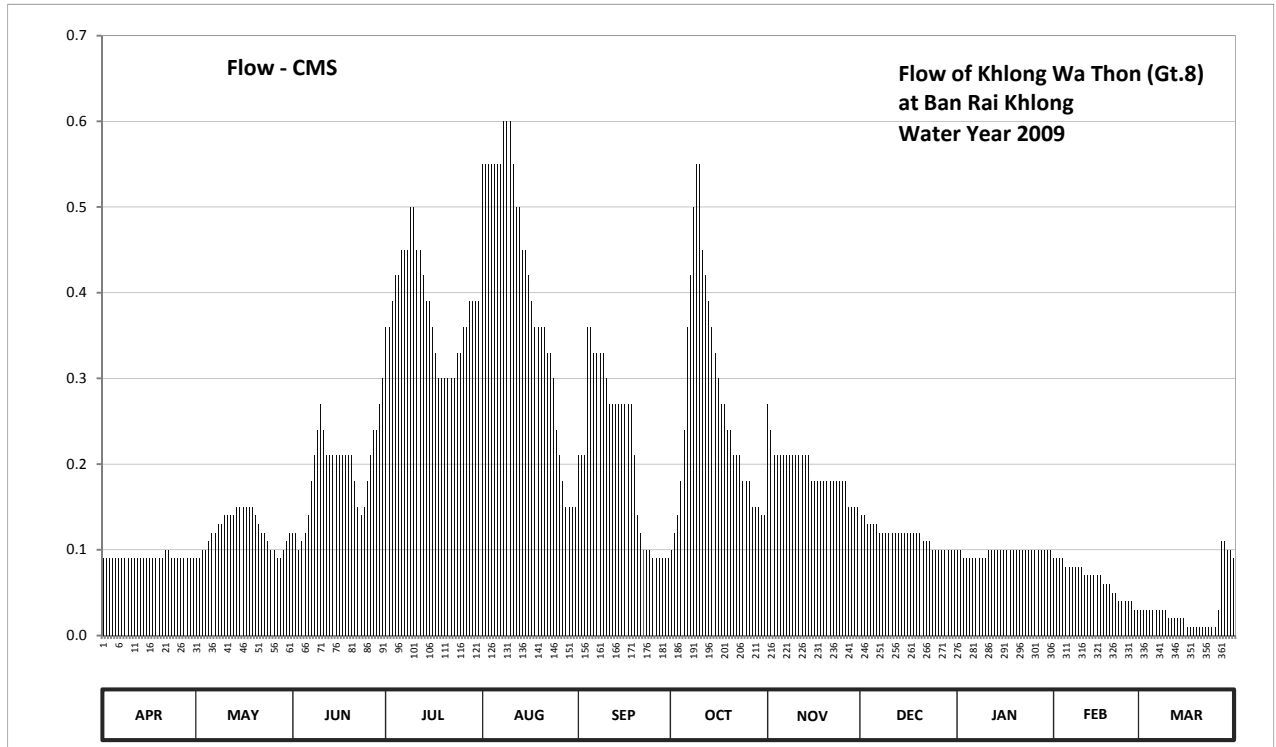
Lat 11 - 43 - 29 N Long 99 - 43 - 51 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 335 - 336.

	Ban Rai Khlong	Amphoe Mueang	Changwat Prachuap Khiri Khan
Drainage Area	44 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+8.865 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+14.354 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 means of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Flot	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 1 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.64	8.64	8.67	8.77	8.82	8.72	8.65	8.74	8.69	8.65	8.64	8.57	
2	8.64	8.64	8.67	8.77	8.82	8.72	8.67	8.73	8.69	8.65	8.64	8.57	
3	8.64	8.65	8.65	8.78	8.82	8.72	8.69	8.72	8.68	8.64	8.64	8.57	
4	8.64	8.65	8.66	8.79	8.82	8.77	8.71	8.72	8.68	8.64	8.64	8.56	
5	8.64	8.66	8.67	8.79	8.82	8.77	8.73	8.72	8.68	8.64	8.63	8.56	
6	8.64	8.67	8.69	8.80	8.82	8.76	8.77	8.72	8.68	8.64	8.63	8.56	
7	8.64	8.67	8.71	8.80	8.82	8.76	8.79	8.72	8.67	8.64	8.63	8.55	
8	8.64	8.68	8.72	8.80	8.83	8.76	8.81	8.72	8.67	8.64	8.63	8.55	
9	8.64	8.68	8.73	8.81	8.83	8.76	8.82	8.72	8.67	8.64	8.63	8.55	
10	8.64	8.69	8.74	8.81	8.83	8.75	8.82	8.72	8.67	8.64	8.63	8.54	
11	8.64	8.69	8.73	8.80	8.82	8.74	8.80	8.72	8.67	8.65	8.62	8.54	
12	8.64	8.69	8.72	8.80	8.81	8.74	8.79	8.72	8.67	8.65	8.62	8.54	
13	8.64	8.69	8.72	8.79	8.81	8.74	8.78	8.72	8.67	8.65	8.62	8.54	
14	8.64	8.70	8.72	8.78	8.80	8.74	8.77	8.72	8.67	8.65	8.62	8.54	
15	8.64	8.70	8.72	8.78	8.80	8.74	8.76	8.71	8.67	8.65	8.62	8.54	
16	8.64	8.70	8.72	8.77	8.79	8.74	8.75	8.71	8.67	8.65	8.62	8.53	
17	8.64	8.70	8.72	8.76	8.78	8.74	8.74	8.71	8.67	8.65	8.61	8.53	
18	8.64	8.70	8.72	8.75	8.77	8.74	8.74	8.71	8.67	8.65	8.61	8.53	
19	8.64	8.70	8.72	8.75	8.77	8.72	8.73	8.71	8.67	8.65	8.61	8.53	
20	8.64	8.69	8.72	8.75	8.77	8.69	8.73	8.71	8.67	8.65	8.60	8.53	
21	8.65	8.68	8.71	8.75	8.77	8.67	8.72	8.71	8.66	8.65	8.60	8.53	
22	8.65	8.67	8.70	8.75	8.76	8.65	8.72	8.71	8.66	8.65	8.59	8.53	
23	8.64	8.67	8.69	8.75	8.76	8.65	8.72	8.71	8.66	8.65	8.59	8.53	
24	8.64	8.66	8.70	8.76	8.75	8.65	8.71	8.71	8.65	8.65	8.59	8.53	
25	8.64	8.65	8.71	8.76	8.73	8.64	8.71	8.71	8.65	8.65	8.58	8.53	
26	8.64	8.65	8.72	8.77	8.72	8.64	8.71	8.71	8.65	8.65	8.58	8.55	
27	8.64	8.64	8.73	8.77	8.71	8.64	8.70	8.70	8.65	8.65	8.57	8.66	
28	8.64	8.64	8.73	8.78	8.70	8.64	8.70	8.70	8.65	8.65	8.57	8.66	
29	8.64	8.65	8.74	8.78	8.70	8.64	8.70	8.70	8.65	8.65		8.65	
30	8.64	8.66	8.75	8.78	8.70	8.64	8.69	8.70	8.65	8.65		8.65	
31		8.67		8.78	8.70		8.69		8.65	8.65		8.64	
Mean	8.64	8.67	8.71	8.78	8.78	8.71	8.74	8.71	8.67	8.65	8.61	8.56	
Max	8.65	8.70	8.75	8.81	8.83	8.77	8.82	8.74	8.69	8.65	8.64	8.66	8.83
Min	8.64	8.64	8.65	8.75	8.70	8.64	8.65	8.70	8.65	8.64	8.57	8.53	8.53
Annual Max Momentary Gage Height	8.83	m. (MSL.) , at 06.00 Hours , on Aug 8 , 2009											
Zero Gage at Bottom Elevation	8.87	m. (MSL.) , River Bed 8.41 m. (MSL)											
Left Bank Elevation	13.54	m. (MSL.) ,											
Right Bank Elevation	13.56	m. (MSL.) , Drainage Area 44 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.09	0.12	0.36	0.55	0.21	0.10	0.27	0.14	0.10	0.09	0.03	
2	0.09	0.09	0.12	0.36	0.55	0.21	0.12	0.24	0.14	0.10	0.09	0.03	
3	0.09	0.10	0.10	0.39	0.55	0.21	0.14	0.21	0.13	0.09	0.09	0.03	
4	0.09	0.10	0.11	0.42	0.55	0.36	0.18	0.21	0.13	0.09	0.09	0.03	
5	0.09	0.11	0.12	0.42	0.55	0.36	0.24	0.21	0.13	0.09	0.08	0.03	
6	0.09	0.12	0.14	0.45	0.55	0.33	0.36	0.21	0.13	0.09	0.08	0.03	
7	0.09	0.12	0.18	0.45	0.55	0.33	0.42	0.21	0.12	0.09	0.08	0.03	
8	0.09	0.13	0.21	0.45	0.60	0.33	0.50	0.21	0.12	0.09	0.08	0.03	
9	0.09	0.13	0.24	0.50	0.60	0.33	0.55	0.21	0.12	0.09	0.08	0.03	
10	0.09	0.14	0.27	0.50	0.60	0.30	0.55	0.21	0.12	0.09	0.08	0.02	
11	0.09	0.14	0.24	0.45	0.55	0.27	0.45	0.21	0.12	0.10	0.07	0.02	
12	0.09	0.14	0.21	0.45	0.50	0.27	0.42	0.21	0.12	0.10	0.07	0.02	
13	0.09	0.14	0.21	0.42	0.50	0.27	0.39	0.21	0.12	0.10	0.07	0.02	
14	0.09	0.15	0.21	0.39	0.45	0.27	0.36	0.21	0.12	0.10	0.07	0.02	
15	0.09	0.15	0.21	0.39	0.45	0.27	0.33	0.18	0.12	0.10	0.07	0.02	
16	0.09	0.15	0.21	0.36	0.42	0.27	0.30	0.18	0.12	0.10	0.07	0.01	
17	0.09	0.15	0.21	0.33	0.39	0.27	0.27	0.18	0.12	0.10	0.06	0.01	
18	0.09	0.15	0.21	0.30	0.36	0.27	0.27	0.18	0.12	0.10	0.06	0.01	
19	0.09	0.15	0.21	0.30	0.36	0.21	0.24	0.18	0.12	0.10	0.06	0.01	
20	0.09	0.14	0.21	0.30	0.36	0.14	0.24	0.18	0.12	0.10	0.05	0.01	
21	0.10	0.13	0.18	0.30	0.36	0.12	0.21	0.18	0.11	0.10	0.05	0.01	
22	0.10	0.12	0.15	0.30	0.33	0.10	0.21	0.18	0.11	0.10	0.04	0.01	
23	0.09	0.12	0.14	0.30	0.33	0.10	0.21	0.18	0.11	0.10	0.04	0.01	
24	0.09	0.11	0.15	0.33	0.30	0.10	0.18	0.18	0.10	0.10	0.04	0.01	
25	0.09	0.10	0.18	0.33	0.24	0.09	0.18	0.18	0.10	0.10	0.04	0.01	
26	0.09	0.10	0.21	0.36	0.21	0.09	0.18	0.18	0.10	0.10	0.04	0.03	
27	0.09	0.09	0.24	0.36	0.18	0.09	0.15	0.15	0.10	0.10	0.03	0.11	
28	0.09	0.09	0.24	0.39	0.15	0.09	0.15	0.15	0.10	0.10	0.03	0.11	
29	0.09	0.10	0.27	0.39	0.15	0.09	0.15	0.15	0.10	0.10		0.10	
30	0.09	0.11	0.30	0.39	0.15	0.09	0.14	0.15	0.10	0.10		0.10	
31		0.12		0.39	0.15		0.14		0.10	0.10		0.09	
Total	2.72	3.78	5.80	11.83	12.54	6.44	8.33	5.79	3.61	3.02	1.80	1.03	66.69 CMSDAY
Mean	0.09	0.12	0.19	0.38	0.40	0.21	0.27	0.19	0.12	0.10	0.06	0.03	0.18 CMS
Max	0.10	0.15	0.30	0.50	0.60	0.36	0.55	0.27	0.14	0.10	0.09	0.11	0.60 CMS
Min	0.09	0.09	0.10	0.30	0.15	0.09	0.10	0.15	0.10	0.09	0.03	0.01	0.01 CMS
Runoff	0.24	0.33	0.50	1.02	1.08	0.56	0.72	0.50	0.31	0.26	0.16	0.09	5.76 MCM
Momentary Peak	0.60 CMS. at 8.83 m. (MSL.) at 06.00 Hours , on Aug 8 , 2009												
Runoff Yield	4.15 Liters/Second/Square KM.			Momentary Peak Yield			13.636 Liters/Second/Square KM.						

WATER YEAR : 2009
WEST COAST - GULF BASIN

Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

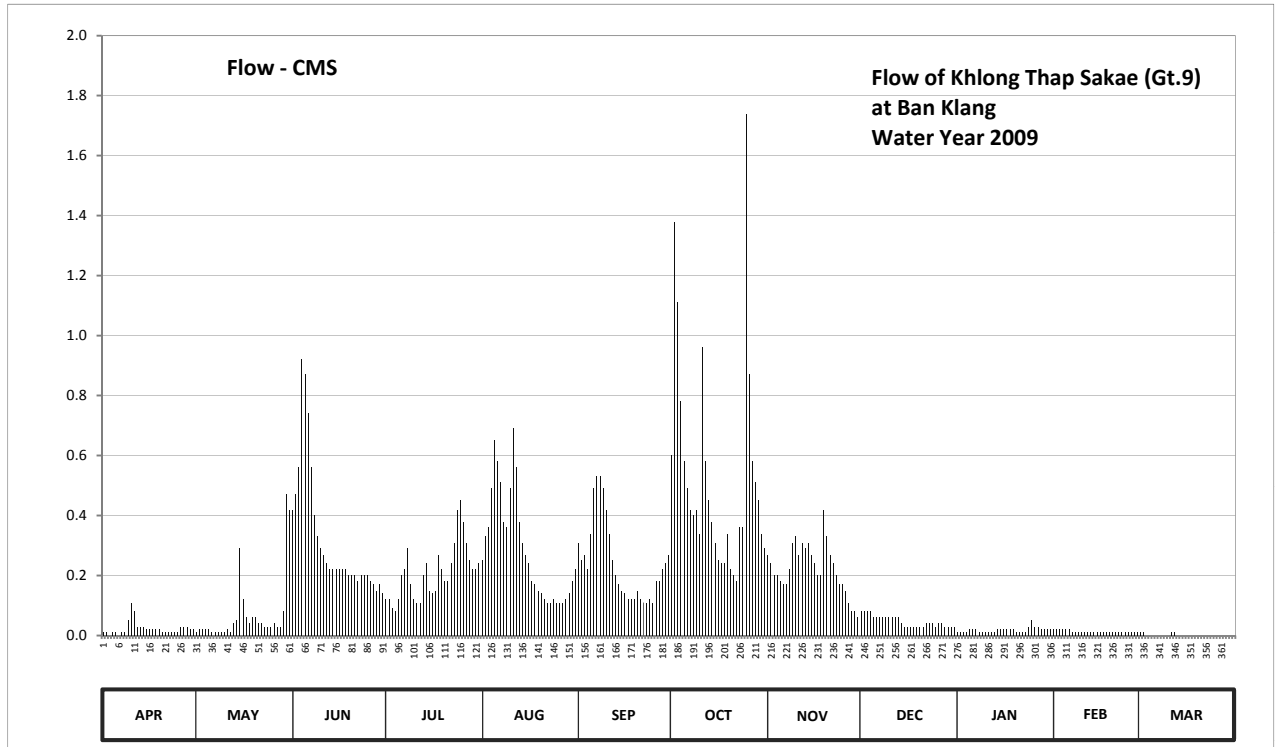
Lat 11 - 29 - 40 N Long 99 - 36 - 20 E

Location : on right bank at Ban Klang.

	Ban	Klang	Amphoe	Thap Sakae	Changwat	Prachuap Khiri Khan
Drainage Area	125	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+6.843	m. (MSL.)				
Bench Mark	B.M.-Highways Dept.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+12.220 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 means of 5 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1980 to date					
Rated by Flot	-					
Rated by Current Meter	1980 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.21	7.22	7.52	7.35	7.43	7.46	7.60	7.44	7.32	7.22	7.23	7.21	
2	7.21	7.23	7.54	7.35	7.47	7.43	7.76	7.42	7.32	7.22	7.23	7.21	
3	7.20	7.23	7.58	7.33	7.49	7.44	7.71	7.40	7.32	7.22	7.23	7.20	
4	7.21	7.23	7.67	7.32	7.55	7.41	7.64	7.40	7.32	7.22	7.23	7.20	
5	7.21	7.23	7.66	7.35	7.61	7.48	7.59	7.39	7.31	7.23	7.23	7.20	
6	7.20	7.22	7.63	7.40	7.59	7.55	7.55	7.38	7.31	7.23	7.23	7.19	
7	7.21	7.22	7.58	7.41	7.56	7.57	7.52	7.38	7.31	7.23	7.22	7.19	
8	7.21	7.22	7.51	7.45	7.50	7.57	7.51	7.41	7.31	7.22	7.22	7.18	
9	7.30	7.22	7.47	7.38	7.49	7.55	7.52	7.46	7.31	7.22	7.22	7.18	
10	7.34	7.22	7.45	7.35	7.55	7.52	7.48	7.47	7.31	7.22	7.22	7.19	
11	7.32	7.23	7.44	7.34	7.62	7.48	7.68	7.44	7.31	7.21	7.22	7.22	
12	7.27	7.22	7.42	7.34	7.58	7.43	7.59	7.46	7.31	7.21	7.22	7.21	
13	7.25	7.28	7.41	7.40	7.50	7.40	7.53	7.45	7.31	7.22	7.22	7.20	
14	7.25	7.30	7.41	7.42	7.46	7.38	7.50	7.46	7.29	7.24	7.22	7.20	
15	7.23	7.45	7.41	7.37	7.44	7.37	7.46	7.44	7.26	7.24	7.22	7.19	
16	7.23	7.35	7.41	7.36	7.42	7.36	7.43	7.42	7.25	7.24	7.22	7.18	
17	7.23	7.31	7.41	7.37	7.39	7.35	7.42	7.40	7.25	7.23	7.22	7.18	
18	7.23	7.29	7.41	7.44	7.38	7.35	7.42	7.40	7.25	7.23	7.22	7.18	
19	7.23	7.31	7.40	7.41	7.37	7.35	7.48	7.52	7.26	7.23	7.22	7.18	
20	7.22	7.31	7.40	7.39	7.36	7.37	7.41	7.47	7.26	7.22	7.22	7.18	
21	7.22	7.29	7.40	7.39	7.35	7.35	7.40	7.44	7.27	7.22	7.22	7.18	
22	7.22	7.28	7.39	7.42	7.34	7.34	7.39	7.42	7.28	7.22	7.22	7.18	
23	7.22	7.27	7.40	7.46	7.34	7.34	7.49	7.40	7.28	7.22	7.22	7.18	
24	7.22	7.26	7.40	7.52	7.35	7.35	7.49	7.38	7.29	7.25	7.22	7.18	
25	7.22	7.27	7.40	7.53	7.34	7.34	7.82	7.38	7.27	7.30	7.22	7.18	
26	7.26	7.29	7.39	7.50	7.34	7.39	7.66	7.37	7.28	7.25	7.21	7.18	
27	7.26	7.27	7.38	7.46	7.34	7.39	7.59	7.34	7.28	7.25	7.21	7.18	
28	7.25	7.27	7.37	7.43	7.35	7.41	7.56	7.32	7.27	7.24	7.21	7.18	
29	7.24	7.32	7.38	7.41	7.36	7.42	7.53	7.32	7.26	7.24		7.18	
30	7.23	7.54	7.36	7.41	7.39	7.44	7.48	7.31	7.26	7.24		7.18	
31		7.52		7.42	7.41		7.45		7.26	7.23		7.18	
Mean	7.24	7.29	7.45	7.40	7.44	7.42	7.54	7.41	7.29	7.23	7.22	7.19	
Max	7.34	7.54	7.67	7.53	7.62	7.57	7.82	7.52	7.32	7.30	7.23	7.22	7.82
Min	7.20	7.22	7.36	7.32	7.34	7.34	7.39	7.31	7.25	7.21	7.21	7.18	7.18
Annual Max Momentary Gage Height	8.03		m. (MSL.) ,				at 02.00 Hours , on Oct 25 , 2009						
Zero Gage at Bottom Elevation	6.84		m. (MSL.) ,				River Bed 6.92		m. (MSL)				
Left Bank Elevation		11.12											
Right Bank Elevation		11.24					Drainage Area 125		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.42	0.12	0.25	0.31	0.60	0.27	0.08	0.01	0.02	0.01	
2	0.01	0.02	0.47	0.12	0.33	0.25	1.38	0.24	0.08	0.01	0.02	0.01	
3	0.00	0.02	0.56	0.09	0.36	0.27	1.11	0.20	0.08	0.01	0.02	0.00	
4	0.01	0.02	0.92	0.08	0.49	0.22	0.78	0.20	0.08	0.01	0.02	0.00	
5	0.01	0.02	0.87	0.12	0.65	0.34	0.58	0.18	0.06	0.02	0.02	0.00	
6	0.00	0.01	0.74	0.20	0.58	0.49	0.49	0.17	0.06	0.02	0.02	0.00	
7	0.01	0.01	0.56	0.22	0.51	0.53	0.42	0.17	0.06	0.02	0.01	0.00	
8	0.01	0.01	0.40	0.29	0.38	0.53	0.40	0.22	0.06	0.01	0.01	0.00	
9	0.05	0.01	0.33	0.17	0.36	0.49	0.42	0.31	0.06	0.01	0.01	0.00	
10	0.11	0.01	0.29	0.12	0.49	0.42	0.34	0.33	0.06	0.01	0.01	0.00	
11	0.08	0.02	0.27	0.11	0.69	0.34	0.96	0.27	0.06	0.01	0.01	0.01	
12	0.03	0.01	0.24	0.11	0.56	0.25	0.58	0.31	0.06	0.01	0.01	0.01	
13	0.03	0.04	0.22	0.20	0.38	0.20	0.45	0.29	0.06	0.01	0.01	0.00	
14	0.03	0.05	0.22	0.24	0.31	0.17	0.38	0.31	0.04	0.02	0.01	0.00	
15	0.02	0.29	0.22	0.15	0.27	0.15	0.31	0.27	0.03	0.02	0.01	0.00	
16	0.02	0.12	0.22	0.14	0.24	0.14	0.25	0.24	0.03	0.02	0.01	0.00	
17	0.02	0.06	0.22	0.15	0.18	0.12	0.24	0.20	0.03	0.02	0.01	0.00	
18	0.02	0.04	0.22	0.27	0.17	0.12	0.24	0.20	0.03	0.02	0.01	0.00	
19	0.02	0.06	0.20	0.22	0.15	0.12	0.34	0.42	0.03	0.02	0.01	0.00	
20	0.01	0.06	0.20	0.18	0.14	0.15	0.22	0.33	0.03	0.01	0.01	0.00	
21	0.01	0.04	0.20	0.18	0.12	0.12	0.20	0.27	0.03	0.01	0.01	0.00	
22	0.01	0.04	0.18	0.24	0.11	0.11	0.18	0.24	0.04	0.01	0.01	0.00	
23	0.01	0.03	0.20	0.31	0.11	0.11	0.36	0.20	0.04	0.01	0.01	0.00	
24	0.01	0.03	0.20	0.42	0.12	0.12	0.36	0.17	0.04	0.03	0.01	0.00	
25	0.01	0.03	0.20	0.45	0.11	0.11	1.74	0.17	0.03	0.05	0.01	0.00	
26	0.03	0.04	0.18	0.38	0.11	0.18	0.87	0.15	0.04	0.03	0.01	0.00	
27	0.03	0.03	0.17	0.31	0.11	0.18	0.58	0.11	0.04	0.03	0.01	0.00	
28	0.03	0.03	0.15	0.25	0.12	0.22	0.51	0.08	0.03	0.02	0.01	0.00	
29	0.02	0.08	0.17	0.22	0.14	0.24	0.45	0.08	0.03	0.02		0.00	
30	0.02	0.47	0.14	0.22	0.18	0.27	0.34	0.06	0.03	0.02		0.00	
31		0.42		0.24	0.22		0.29		0.03	0.02		0.00	
Total	0.68	2.13	9.58	6.52	8.94	7.27	16.37	6.66	1.46	0.54	0.34	0.04	60.53 CMSDAY
Mean	0.02	0.07	0.32	0.21	0.29	0.24	0.53	0.22	0.05	0.02	0.01	0.00	0.17 CMS
Max	0.11	0.47	0.92	0.45	0.69	0.53	1.74	0.42	0.08	0.05	0.02	0.01	1.74 CMS
Min	0.00	0.01	0.14	0.08	0.11	0.11	0.18	0.06	0.03	0.01	0.01	0.00	0.00 CMS
Runoff	0.06	0.18	0.83	0.56	0.77	0.63	1.41	0.58	0.13	0.05	0.03	0.00	5.23 MCM
Momentary Peak	3.50 CMS. at 8.03 m. (MSL.) at 02.00 Hours , on Oct 25 , 2009												
Runoff Yield	1.33 Liters/Second/Square KM.			Momentary Peak Yield				28.000 Liters/Second/Square KM.					

WATER YEAR : 2009
WEST COAST - GULF BASIN

Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)

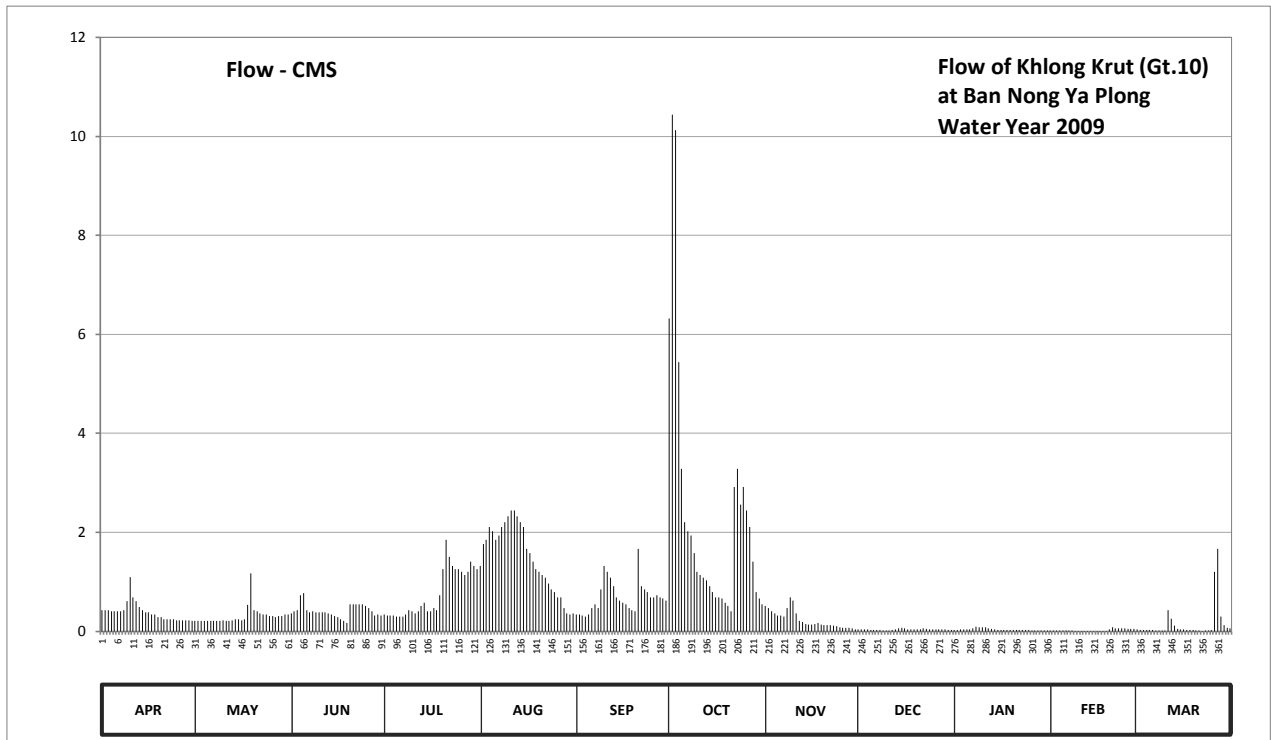
Lat 11 - 24 - 08 N Long 99 - 31 - 18 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

	Ban	Nong Ya Plong	Amphoe	Bang Saphan	Changwat	Prachuap Khiri Khan
Drainage Area	113	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+25.364	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+30.364 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 means of 5 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1980 to date					
Rated by Flot	-					
Rated by Current Meter	1980 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.29	24.19	24.26	24.09	24.30	24.09	24.66	24.14	23.88	23.86	23.84	23.88	
2	24.29	24.19	24.28	24.08	24.35	24.09	24.82	24.13	23.88	23.86	23.83	23.86	
3	24.29	24.19	24.29	24.08	24.36	24.08	24.81	24.11	23.88	23.87	23.83	23.86	
4	24.28	24.19	24.37	24.08	24.39	24.07	24.62	24.10	23.87	23.88	23.83	23.86	
5	24.28	24.19	24.38	24.07	24.38	24.09	24.49	24.08	23.86	23.88	23.83	23.85	
6	24.28	24.19	24.29	24.07	24.36	24.13	24.40	24.08	23.86	23.89	23.83	23.85	
7	24.28	24.19	24.27	24.07	24.37	24.15	24.38	24.07	23.86	23.91	23.83	23.84	
8	24.29	24.19	24.28	24.09	24.39	24.13	24.37	24.13	23.85	23.94	23.83	23.84	
9	24.34	24.19	24.27	24.12	24.40	24.22	24.33	24.19	23.84	23.93	23.82	23.84	
10	24.43	24.20	24.27	24.11	24.41	24.30	24.28	24.17	23.83	23.93	23.82	23.84	
11	24.36	24.19	24.27	24.10	24.42	24.28	24.27	24.10	23.84	23.93	23.82	24.12	
12	24.34	24.19	24.27	24.11	24.42	24.26	24.26	24.03	23.86	23.91	23.82	24.05	
13	24.31	24.20	24.26	24.14	24.41	24.23	24.25	24.02	23.89	23.90	23.82	23.96	
14	24.29	24.21	24.25	24.16	24.40	24.19	24.23	24.00	23.91	23.89	23.82	23.90	
15	24.27	24.21	24.24	24.11	24.39	24.17	24.21	23.99	23.92	23.86	23.82	23.88	
16	24.27	24.20	24.23	24.11	24.34	24.16	24.19	23.99	23.91	23.86	23.81	23.87	
17	24.25	24.21	24.21	24.13	24.33	24.15	24.19	24.00	23.89	23.86	23.81	23.86	
18	24.25	24.32	24.19	24.12	24.31	24.13	24.18	24.01	23.88	23.85	23.81	23.85	
19	24.23	24.44	24.16	24.20	24.29	24.12	24.16	23.99	23.88	23.85	23.81	23.85	
20	24.23	24.29	24.15	24.29	24.28	24.11	24.14	23.97	23.88	23.85	23.87	23.84	
21	24.21	24.28	24.15	24.36	24.27	24.34	24.11	23.97	23.89	23.85	23.93	23.83	
22	24.21	24.26	24.15	24.32	24.26	24.23	24.46	23.97	23.91	23.85	23.91	23.82	
23	24.21	24.25	24.15	24.30	24.24	24.22	24.49	23.96	23.90	23.85	23.91	23.84	
24	24.21	24.25	24.15	24.29	24.22	24.21	24.43	23.95	23.89	23.85	23.91	23.84	
25	24.20	24.24	24.14	24.29	24.21	24.19	24.46	23.93	23.88	23.85	23.91	23.86	
26	24.20	24.24	24.13	24.28	24.19	24.19	24.42	23.92	23.88	23.84	23.90	24.28	
27	24.20	24.23	24.11	24.27	24.19	24.20	24.39	23.92	23.87	23.84	23.90	24.34	
28	24.20	24.24	24.08	24.28	24.13	24.19	24.31	23.92	23.88	23.84	23.90	24.07	
29	24.20	24.24	24.09	24.31	24.10	24.18	24.21	23.91	23.87	23.83		23.97	
30	24.19	24.25	24.08	24.30	24.09	24.17	24.18	23.89	23.86	23.83		23.92	
31		24.25		24.29	24.10		24.15		23.86	23.84		23.91	
Mean	24.26	24.23	24.21	24.18	24.30	24.18	24.35	24.02	23.88	23.87	23.85	23.92	
Max	24.43	24.44	24.38	24.36	24.42	24.34	24.82	24.19	23.92	23.94	23.93	24.34	24.82
Min	24.19	24.19	24.08	24.07	24.09	24.07	24.11	23.89	23.83	23.83	23.81	23.82	23.81
Annual Max Momentary Gage Height	24.86		m. (MSL.) ,				at 18.00 Hours , on Oct 2 , 2009						
Zero Gage at Bottom Elevation	25.36		m. (MSL.) ,			River Bed	23.95		m. (MSL)				
Left Bank Elevation	29.33		m. (MSL.) ,										
Right Bank Elevation	28.88		m. (MSL.) ,			Drainage Area	113		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	0.21	0.36	0.34	1.32	0.34	6.32	0.51	0.04	0.03	0.02	0.04	
2	0.43	0.21	0.40	0.32	1.76	0.34	10.44	0.47	0.04	0.03	0.02	0.03	
3	0.43	0.21	0.43	0.32	1.85	0.32	10.12	0.40	0.04	0.04	0.02	0.03	
4	0.40	0.21	0.73	0.32	2.11	0.30	5.44	0.36	0.04	0.04	0.02	0.03	
5	0.40	0.21	0.77	0.30	2.02	0.34	3.28	0.32	0.03	0.04	0.02	0.03	
6	0.40	0.21	0.43	0.30	1.85	0.47	2.20	0.32	0.03	0.04	0.02	0.03	
7	0.40	0.21	0.38	0.30	1.94	0.54	2.02	0.30	0.03	0.06	0.02	0.02	
8	0.43	0.21	0.40	0.34	2.11	0.47	1.94	0.47	0.03	0.09	0.02	0.02	
9	0.61	0.21	0.38	0.43	2.20	0.85	1.58	0.69	0.02	0.08	0.01	0.02	
10	1.09	0.22	0.38	0.40	2.32	1.32	1.20	0.62	0.02	0.08	0.01	0.02	
11	0.69	0.21	0.38	0.36	2.44	1.20	1.14	0.36	0.02	0.08	0.01	0.43	
12	0.61	0.21	0.38	0.40	2.44	1.08	1.08	0.21	0.03	0.06	0.01	0.25	
13	0.49	0.22	0.36	0.51	2.32	0.91	1.03	0.19	0.04	0.05	0.01	0.11	
14	0.43	0.24	0.34	0.58	2.20	0.69	0.91	0.15	0.06	0.04	0.01	0.05	
15	0.38	0.24	0.31	0.40	2.11	0.62	0.79	0.14	0.07	0.03	0.01	0.04	
16	0.38	0.22	0.29	0.40	1.67	0.58	0.69	0.14	0.06	0.03	0.01	0.04	
17	0.34	0.24	0.24	0.47	1.58	0.54	0.69	0.15	0.04	0.03	0.01	0.03	
18	0.34	0.53	0.21	0.43	1.41	0.47	0.66	0.17	0.04	0.03	0.01	0.03	
19	0.29	1.17	0.17	0.73	1.26	0.43	0.58	0.14	0.04	0.03	0.01	0.03	
20	0.29	0.43	0.54	1.26	1.20	0.40	0.51	0.12	0.04	0.03	0.04	0.02	
21	0.24	0.40	0.54	1.85	1.14	1.67	0.40	0.12	0.04	0.03	0.08	0.02	
22	0.24	0.36	0.54	1.50	1.08	0.91	2.92	0.12	0.06	0.03	0.06	0.01	
23	0.24	0.34	0.54	1.32	0.97	0.85	3.28	0.11	0.05	0.03	0.06	0.02	
24	0.24	0.34	0.54	1.26	0.85	0.79	2.56	0.10	0.04	0.03	0.06	0.02	
25	0.22	0.31	0.51	1.26	0.79	0.69	2.92	0.08	0.04	0.03	0.06	0.03	
26	0.22	0.31	0.47	1.20	0.69	0.69	2.44	0.07	0.04	0.02	0.05	1.20	
27	0.22	0.29	0.40	1.14	0.69	0.73	2.11	0.07	0.04	0.02	0.05	1.67	
28	0.22	0.31	0.32	1.20	0.47	0.69	1.41	0.07	0.04	0.02	0.05	0.30	
29	0.22	0.31	0.34	1.41	0.36	0.66	0.79	0.06	0.04	0.02		0.12	
30	0.21	0.34	0.32	1.32	0.34	0.62	0.66	0.04	0.03	0.02		0.07	
31	0.34			1.26	0.36		0.54		0.03	0.02		0.06	
Total	11.53	9.47	12.40	23.63	45.85	20.51	72.65	7.07	1.21	1.21	0.78	4.82	211.13 CMSDAY
Mean	0.38	0.31	0.41	0.76	1.48	0.68	2.34	0.24	0.04	0.04	0.03	0.16	0.58 CMS
Max	1.09	1.17	0.77	1.85	2.44	1.67	10.44	0.69	0.07	0.09	0.08	1.67	10.44 CMS
Min	0.21	0.21	0.17	0.30	0.34	0.30	0.40	0.04	0.02	0.02	0.01	0.01	0.01 CMS
Runoff	1.00	0.82	1.07	2.04	3.96	1.77	6.28	0.61	0.11	0.11	0.07	0.42	18.24 MCM
Momentary Peak	11.72 CMS. at 24.86 m. (MSL.) at 18.00 Hours , on Oct 2 , 2009												
Runoff Yield	5.12 Liters/Second/Square KM.			Momentary Peak Yield			103.717 Liters/Second/Square KM.						

WATER YEAR : 2009
WEST COAST - GULF BASIN

Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)

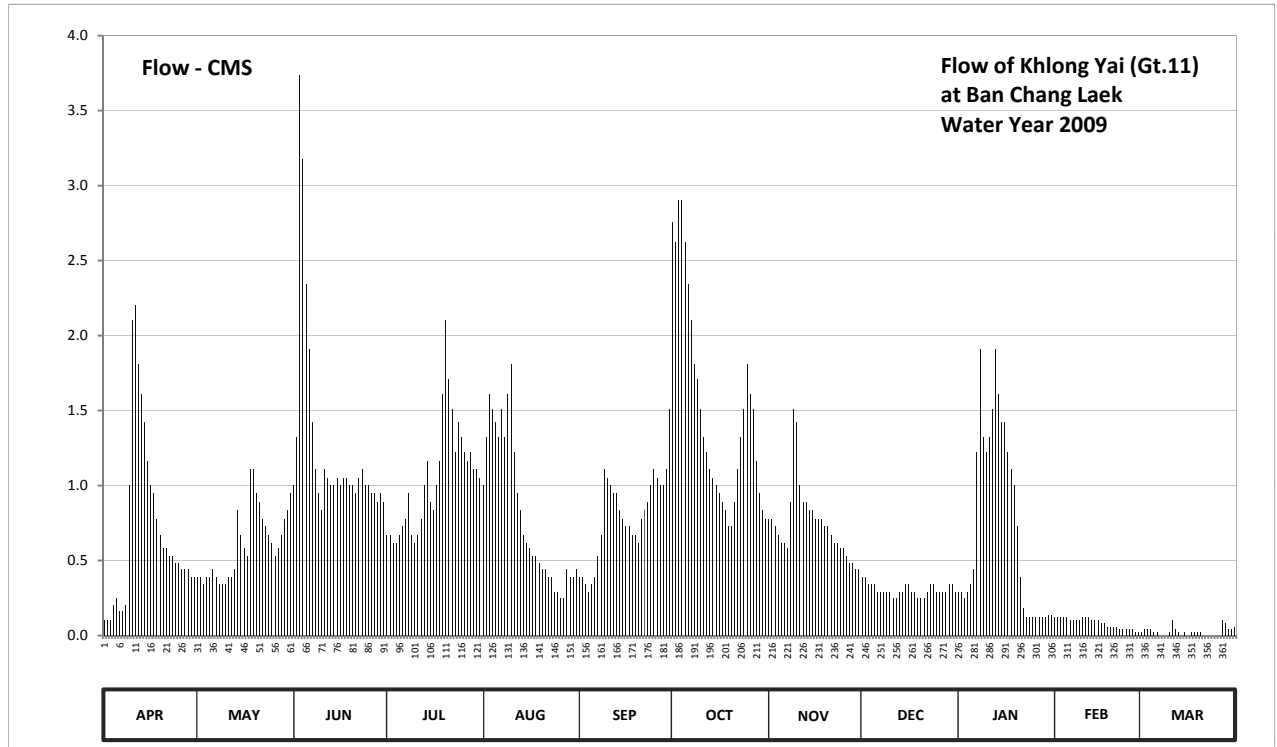
Lat 11 - 03 - 44 N Long 99 - 22 - 30 E

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
Drainage Area	61 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+36.375 m. (MSL.)		
Bench Mark	B.M.-Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+45.340 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 means of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.45	37.54	37.66	37.60	37.66	37.54	37.84	37.62	37.54	37.52	37.46	37.41	
2	37.45	37.54	37.71	37.60	37.71	37.54	37.83	37.62	37.54	37.52	37.46	37.42	
3	37.45	37.53	37.91	37.59	37.74	37.53	37.85	37.61	37.53	37.51	37.46	37.42	
4	37.50	37.54	37.87	37.59	37.73	37.52	37.85	37.60	37.53	37.52	37.46	37.42	
5	37.51	37.54	37.81	37.60	37.72	37.53	37.83	37.59	37.53	37.53	37.46	37.41	
6	37.48	37.55	37.77	37.61	37.71	37.54	37.81	37.59	37.52	37.55	37.45	37.41	
7	37.48	37.54	37.72	37.62	37.73	37.57	37.79	37.58	37.52	37.70	37.45	37.40	
8	37.50	37.53	37.68	37.65	37.71	37.60	37.76	37.64	37.52	37.77	37.45	37.39	
9	37.66	37.53	37.65	37.60	37.74	37.68	37.75	37.73	37.52	37.71	37.45	37.40	
10	37.79	37.53	37.63	37.59	37.76	37.67	37.73	37.72	37.52	37.70	37.46	37.41	
11	37.80	37.54	37.68	37.60	37.70	37.66	37.71	37.66	37.51	37.71	37.46	37.45	
12	37.76	37.54	37.67	37.62	37.65	37.65	37.70	37.64	37.51	37.73	37.46	37.42	
13	37.74	37.55	37.66	37.66	37.63	37.65	37.68	37.64	37.52	37.77	37.45	37.41	
14	37.72	37.63	37.66	37.69	37.60	37.63	37.67	37.63	37.52	37.74	37.45	37.40	
15	37.69	37.60	37.67	37.64	37.59	37.62	37.66	37.63	37.53	37.72	37.45	37.41	
16	37.66	37.58	37.66	37.63	37.58	37.61	37.65	37.62	37.53	37.72	37.44	37.40	
17	37.65	37.57	37.67	37.66	37.57	37.61	37.64	37.62	37.52	37.70	37.44	37.41	
18	37.62	37.68	37.67	37.69	37.57	37.60	37.63	37.62	37.52	37.68	37.43	37.41	
19	37.60	37.68	37.66	37.74	37.56	37.60	37.61	37.61	37.51	37.66	37.43	37.41	
20	37.58	37.65	37.66	37.79	37.55	37.59	37.61	37.61	37.51	37.61	37.43	37.41	
21	37.58	37.64	37.65	37.75	37.55	37.62	37.64	37.60	37.51	37.54	37.43	37.40	
22	37.57	37.62	37.67	37.73	37.54	37.63	37.68	37.59	37.52	37.49	37.42	37.40	
23	37.57	37.61	37.68	37.70	37.54	37.64	37.71	37.59	37.53	37.46	37.42	37.40	
24	37.56	37.60	37.66	37.72	37.52	37.66	37.73	37.58	37.53	37.46	37.42	37.40	
25	37.56	37.59	37.66	37.71	37.52	37.68	37.76	37.58	37.52	37.46	37.42	37.40	
26	37.55	37.57	37.65	37.70	37.51	37.67	37.74	37.57	37.52	37.46	37.42	37.40	
27	37.55	37.58	37.65	37.69	37.51	37.66	37.73	37.56	37.52	37.46	37.41	37.45	
28	37.55	37.60	37.64	37.70	37.55	37.66	37.69	37.56	37.52	37.46	37.41	37.44	
29	37.54	37.62	37.65	37.68	37.54	37.68	37.65	37.55	37.53	37.46		37.42	
30	37.54	37.63	37.64	37.68	37.54	37.73	37.63	37.55	37.53	37.47		37.42	
31		37.65		37.67	37.55		37.62		37.52	37.47		37.43	
Mean	37.59	37.58	37.69	37.66	37.62	37.62	37.72	37.61	37.52	37.59	37.44	37.41	
Max	37.80	37.68	37.91	37.79	37.76	37.73	37.85	37.73	37.54	37.77	37.46	37.45	37.91
Min	37.45	37.53	37.63	37.59	37.51	37.52	37.61	37.55	37.51	37.46	37.41	37.39	37.39
Annual Max Momentary Gage Height		37.96		m. (MSL.) ,			at 18.00 Hours , on Jun 3 , 2009						
Zero Gage at Bottom Elevation		36.38		m. (MSL.) ,		River Bed	36.86		m. (MSL)				
Left Bank Elevation		44.69		m. (MSL.) ,									
Right Bank Elevation		45.64		m. (MSL.) ,		Drainage Area	61		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.39	1.00	0.67	1.00	0.39	2.76	0.78	0.39	0.29	0.12	0.02	
2	0.10	0.39	1.32	0.67	1.32	0.39	2.62	0.78	0.39	0.29	0.12	0.04	
3	0.10	0.34	3.74	0.62	1.61	0.34	2.90	0.73	0.34	0.25	0.12	0.04	
4	0.20	0.39	3.18	0.62	1.51	0.29	2.90	0.67	0.34	0.29	0.12	0.04	
5	0.25	0.39	2.34	0.67	1.42	0.34	2.62	0.62	0.34	0.34	0.12	0.02	
6	0.16	0.44	1.91	0.73	1.32	0.39	2.34	0.62	0.29	0.44	0.10	0.02	
7	0.16	0.39	1.42	0.78	1.51	0.53	2.10	0.58	0.29	1.22	0.10	0.00	
8	0.20	0.34	1.11	0.95	1.32	0.67	1.81	0.89	0.29	1.91	0.10	0.00	
9	1.00	0.34	0.95	0.67	1.61	1.11	1.71	1.51	0.29	1.32	0.10	0.00	
10	2.10	0.34	0.84	0.62	1.81	1.05	1.51	1.42	0.29	1.22	0.12	0.02	
11	2.20	0.39	1.11	0.67	1.22	1.00	1.32	1.00	0.25	1.32	0.12	0.10	
12	1.81	0.39	1.05	0.78	0.95	0.95	1.22	0.89	0.25	1.51	0.12	0.04	
13	1.61	0.44	1.00	1.00	0.84	0.95	1.11	0.89	0.29	1.91	0.10	0.02	
14	1.42	0.84	1.00	1.16	0.67	0.84	1.05	0.84	0.29	1.61	0.10	0.00	
15	1.16	0.67	1.05	0.89	0.62	0.78	1.00	0.84	0.34	1.42	0.10	0.02	
16	1.00	0.58	1.00	0.84	0.58	0.73	0.95	0.78	0.34	1.42	0.08	0.00	
17	0.95	0.53	1.05	1.00	0.53	0.73	0.89	0.78	0.29	1.22	0.08	0.02	
18	0.78	1.11	1.05	1.16	0.53	0.67	0.84	0.78	0.29	1.11	0.06	0.02	
19	0.67	1.11	1.00	1.61	0.48	0.67	0.73	0.73	0.25	1.00	0.06	0.02	
20	0.58	0.95	1.00	2.10	0.44	0.62	0.73	0.73	0.25	0.73	0.06	0.02	
21	0.58	0.89	0.95	1.71	0.44	0.78	0.89	0.67	0.25	0.39	0.06	0.00	
22	0.53	0.78	1.05	1.51	0.39	0.84	1.11	0.62	0.29	0.18	0.04	0.00	
23	0.53	0.73	1.11	1.22	0.39	0.89	1.32	0.62	0.34	0.12	0.04	0.00	
24	0.48	0.67	1.00	1.42	0.29	1.00	1.51	0.58	0.34	0.12	0.04	0.00	
25	0.48	0.62	1.00	1.32	0.29	1.11	1.81	0.58	0.29	0.12	0.04	0.00	
26	0.44	0.53	0.95	1.22	0.25	1.05	1.61	0.53	0.29	0.12	0.04	0.00	
27	0.44	0.58	0.95	1.16	0.25	1.00	1.51	0.48	0.29	0.12	0.02	0.10	
28	0.44	0.67	0.89	1.22	0.44	1.00	1.16	0.48	0.29	0.12	0.02	0.08	
29	0.39	0.78	0.95	1.11	0.39	1.11	0.95	0.44	0.34	0.12		0.04	
30	0.39	0.84	0.89	1.11	0.39	1.51	0.84	0.44	0.34	0.14		0.04	
31		0.95		1.05	0.44		0.78		0.29	0.14		0.06	
Total	21.25	18.80	37.86	32.26	25.25	23.73	46.60	22.30	9.44	22.51	2.30	0.78	263.08 CMSDAY
Mean	0.71	0.61	1.26	1.04	0.81	0.79	1.50	0.74	0.30	0.73	0.08	0.03	0.72 CMS
Max	2.20	1.11	3.74	2.10	1.81	1.51	2.90	1.51	0.39	1.91	0.12	0.10	3.74 CMS
Min	0.10	0.34	0.84	0.62	0.25	0.29	0.73	0.44	0.25	0.12	0.02	0.00	0.00 CMS
Runoff	1.84	1.62	3.27	2.79	2.18	2.05	4.03	1.93	0.82	1.95	0.20	0.07	22.73 MCM
Momentary Peak	4.44 CMS. at 37.96 m. (MSL.) at 18.00 Hours , on Jun 3 , 2009												
Runoff Yield	11.82 Liters/Second/Square KM.			Momentary Peak Yield			72.787 Liters/Second/Square KM.						

WATER YEAR : 2009
WEST COAST - GULF BASIN

Huai Sai at Ban Suan Son Huai Sai , Prachuap Khiri Khan (Gt.15)

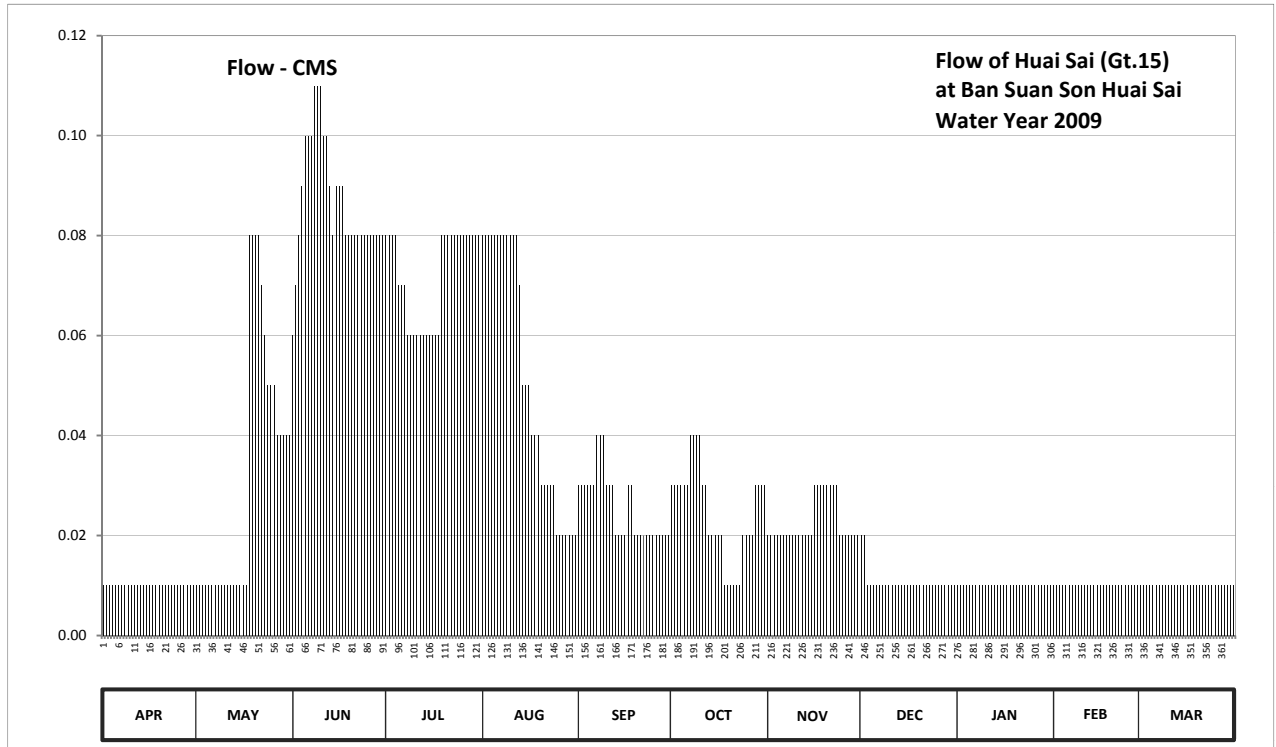
Lat 11 - 40 - 33 N Long 99 - 41 - 44 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 342, Huai Sai.

Ban	Suan Son Huai Sai	Amphoe	Mueang	Changwat	Prachuap Khiri Khan
Drainage Area	25 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+15.860 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank at the footpath of the bridge.	Elevation	+22.383 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 means of 5 readings				
Period of Available Gage Records	1987 to date				
Rating Operation					
Period of Rating	1987 to date				
Rated by Flot	-				
Rated by Current Meter	1987 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2009.				

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.54	15.54	15.66	15.68	15.68	15.62	15.61	15.60	15.58	15.56	15.56	15.56	
2	15.54	15.54	15.67	15.68	15.68	15.62	15.61	15.60	15.58	15.56	15.56	15.56	
3	15.54	15.54	15.69	15.68	15.68	15.62	15.61	15.60	15.57	15.56	15.56	15.56	
4	15.54	15.54	15.70	15.68	15.68	15.62	15.61	15.59	15.56	15.56	15.56	15.56	
5	15.54	15.54	15.71	15.67	15.68	15.62	15.62	15.59	15.56	15.56	15.56	15.56	
6	15.54	15.54	15.71	15.67	15.68	15.62	15.62	15.58	15.56	15.56	15.56	15.56	
7	15.54	15.54	15.71	15.67	15.68	15.63	15.63	15.58	15.56	15.56	15.56	15.56	
8	15.54	15.54	15.72	15.66	15.68	15.63	15.63	15.58	15.56	15.56	15.56	15.56	
9	15.54	15.54	15.72	15.66	15.68	15.63	15.63	15.58	15.56	15.56	15.56	15.56	
10	15.54	15.54	15.72	15.66	15.68	15.62	15.63	15.59	15.56	15.56	15.56	15.56	
11	15.54	15.54	15.71	15.66	15.68	15.61	15.62	15.59	15.56	15.56	15.56	15.56	
12	15.54	15.54	15.71	15.66	15.68	15.61	15.61	15.60	15.56	15.56	15.56	15.56	
13	15.54	15.54	15.70	15.66	15.67	15.60	15.60	15.60	15.56	15.56	15.56	15.56	
14	15.54	15.54	15.69	15.66	15.65	15.59	15.60	15.60	15.56	15.56	15.56	15.56	
15	15.54	15.54	15.70	15.66	15.64	15.59	15.60	15.60	15.56	15.56	15.56	15.56	
16	15.54	15.54	15.70	15.66	15.64	15.60	15.59	15.61	15.56	15.56	15.56	15.56	
17	15.54	15.54	15.70	15.66	15.63	15.61	15.58	15.61	15.56	15.56	15.56	15.56	
18	15.54	15.69	15.69	15.66	15.63	15.61	15.57	15.61	15.56	15.56	15.56	15.56	
19	15.54	15.69	15.69	15.68	15.63	15.60	15.56	15.61	15.56	15.56	15.56	15.56	
20	15.54	15.69	15.69	15.68	15.62	15.60	15.56	15.61	15.56	15.56	15.56	15.56	
21	15.54	15.69	15.68	15.68	15.62	15.60	15.56	15.61	15.56	15.56	15.56	15.56	
22	15.54	15.67	15.68	15.68	15.62	15.60	15.57	15.61	15.56	15.56	15.56	15.56	
23	15.54	15.66	15.68	15.68	15.61	15.59	15.57	15.61	15.56	15.56	15.56	15.56	
24	15.54	15.65	15.69	15.68	15.61	15.59	15.58	15.60	15.56	15.56	15.56	15.56	
25	15.54	15.65	15.69	15.68	15.60	15.59	15.58	15.60	15.56	15.56	15.56	15.56	
26	15.54	15.64	15.68	15.68	15.60	15.59	15.59	15.60	15.56	15.56	15.56	15.56	
27	15.54	15.63	15.68	15.68	15.60	15.59	15.60	15.60	15.56	15.56	15.56	15.56	
28	15.54	15.63	15.68	15.68	15.60	15.59	15.61	15.60	15.56	15.56	15.56	15.56	
29	15.54	15.63	15.68	15.68	15.60	15.59	15.62	15.60	15.56	15.56		15.56	
30	15.54	15.63	15.68	15.68	15.60	15.59	15.62	15.60	15.56	15.56		15.56	
31		15.63		15.68	15.60		15.62		15.56	15.56		15.56	
Mean	15.54	15.59	15.69	15.67	15.64	15.61	15.60	15.60	15.56	15.56	15.56	15.56	
Max	15.54	15.69	15.72	15.68	15.68	15.63	15.63	15.61	15.58	15.56	15.56	15.56	15.72
Min	15.54	15.54	15.66	15.66	15.60	15.59	15.56	15.58	15.56	15.56	15.56	15.56	15.54
Annual Max Momentary Gage Height	15.72	m. (MSL.) , at 06.00 Hours , on Jun 8 , 2009											
Zero Gage at Bottom Elevation	15.86	m. (MSL.) , River Bed 15.53 m. (MSL)											
Left Bank Elevation	21.15	m. (MSL.) ,											
Right Bank Elevation	20.99	m. (MSL.) , Drainage Area 25 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.01	0.06	0.08	0.08	0.03	0.03	0.02	0.02	0.01	0.01	0.01	
2	0.01	0.01	0.07	0.08	0.08	0.03	0.03	0.02	0.02	0.01	0.01	0.01	
3	0.01	0.01	0.08	0.08	0.08	0.03	0.03	0.02	0.01	0.01	0.01	0.01	
4	0.01	0.01	0.09	0.08	0.08	0.03	0.03	0.02	0.01	0.01	0.01	0.01	
5	0.01	0.01	0.10	0.07	0.08	0.03	0.03	0.02	0.01	0.01	0.01	0.01	
6	0.01	0.01	0.10	0.07	0.08	0.03	0.03	0.02	0.01	0.01	0.01	0.01	
7	0.01	0.01	0.10	0.07	0.08	0.04	0.04	0.02	0.01	0.01	0.01	0.01	
8	0.01	0.01	0.11	0.06	0.08	0.04	0.04	0.02	0.01	0.01	0.01	0.01	
9	0.01	0.01	0.11	0.06	0.08	0.04	0.04	0.02	0.01	0.01	0.01	0.01	
10	0.01	0.01	0.11	0.06	0.08	0.03	0.04	0.02	0.01	0.01	0.01	0.01	
11	0.01	0.01	0.10	0.06	0.08	0.03	0.03	0.02	0.01	0.01	0.01	0.01	
12	0.01	0.01	0.10	0.06	0.08	0.03	0.03	0.02	0.01	0.01	0.01	0.01	
13	0.01	0.01	0.09	0.06	0.07	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
14	0.01	0.01	0.08	0.06	0.05	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
15	0.01	0.01	0.09	0.06	0.05	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
16	0.01	0.01	0.09	0.06	0.05	0.02	0.02	0.03	0.01	0.01	0.01	0.01	
17	0.01	0.01	0.09	0.06	0.04	0.03	0.02	0.03	0.01	0.01	0.01	0.01	
18	0.01	0.08	0.08	0.06	0.04	0.03	0.01	0.03	0.01	0.01	0.01	0.01	
19	0.01	0.08	0.08	0.08	0.04	0.02	0.01	0.03	0.01	0.01	0.01	0.01	
20	0.01	0.08	0.08	0.08	0.03	0.02	0.01	0.03	0.01	0.01	0.01	0.01	
21	0.01	0.08	0.08	0.08	0.03	0.02	0.01	0.03	0.01	0.01	0.01	0.01	
22	0.01	0.07	0.08	0.08	0.03	0.02	0.01	0.03	0.01	0.01	0.01	0.01	
23	0.01	0.06	0.08	0.08	0.03	0.02	0.01	0.03	0.01	0.01	0.01	0.01	
24	0.01	0.05	0.08	0.08	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
25	0.01	0.05	0.08	0.08	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
26	0.01	0.05	0.08	0.08	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
27	0.01	0.04	0.08	0.08	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
28	0.01	0.04	0.08	0.08	0.02	0.02	0.03	0.02	0.01	0.01	0.01	0.01	
29	0.01	0.04	0.08	0.08	0.02	0.02	0.03	0.02	0.01	0.01		0.01	
30	0.01	0.04	0.08	0.08	0.02	0.02	0.03	0.02	0.01	0.01		0.01	
31		0.04		0.08	0.02		0.03		0.01	0.01		0.01	
Total	0.30	0.97	2.61	2.23	1.59	0.77	0.76	0.68	0.33	0.31	0.28	0.31	11.14 CMSDAY
Mean	0.01	0.03	0.09	0.07	0.05	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.03 CMS
Max	0.01	0.08	0.11	0.08	0.08	0.04	0.04	0.03	0.02	0.01	0.01	0.01	0.11 CMS
Min	0.01	0.01	0.06	0.06	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01 CMS
Runoff	0.03	0.08	0.23	0.19	0.14	0.07	0.07	0.06	0.03	0.03	0.02	0.03	0.96 MCM
Momentary Peak	0.11 CMS. at 15.72 m. (MSL.) at 06.00 Hours , on Jun 8 , 2009												
Runoff Yield	1.22 Liters/Second/Square KM.			Momentary Peak Yield			4.400 Liters/Second/Square KM.						

WATER YEAR : 2009
WEST COAST - GULF BASIN

Khlong Hin Chuang at Ban Hin Chuang , Prachuap Khiri Khan (Gt.16)

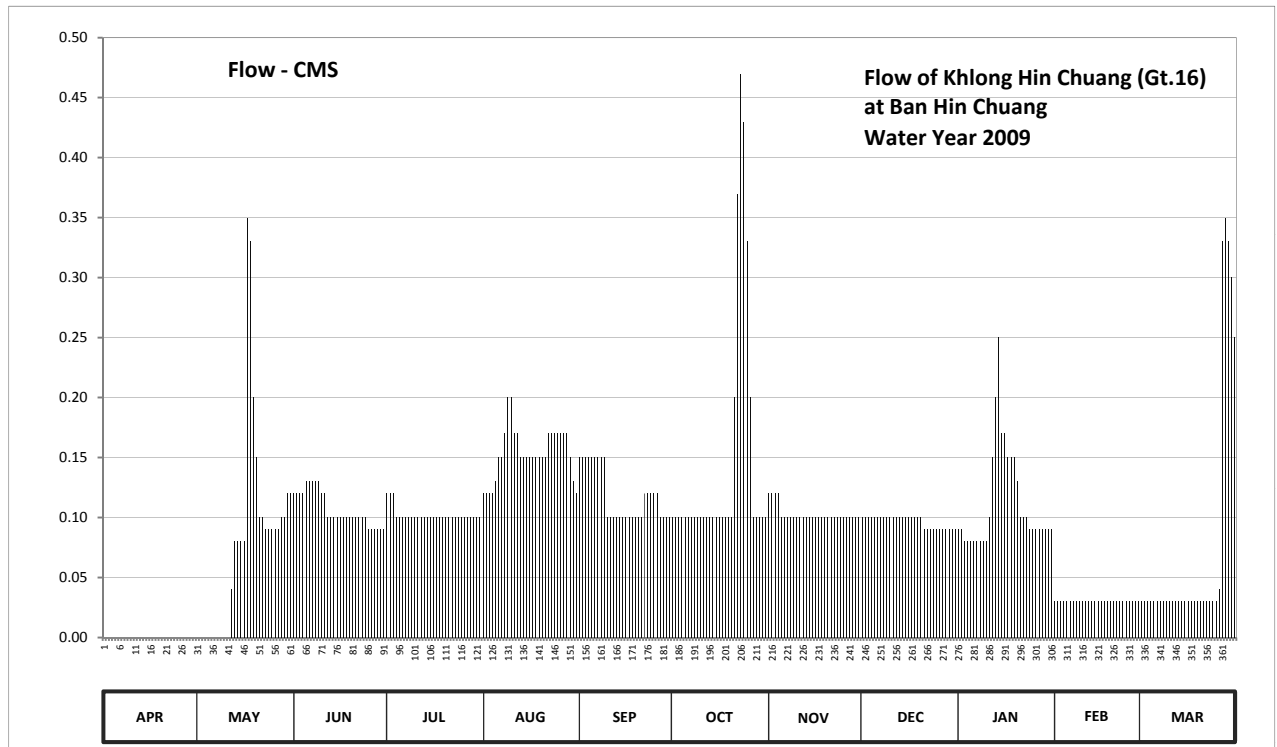
Lat 11 - 39 - 57 N Long 99 - 41 - 18 E

Location : on right bank at the abutment of the bridge.

	Ban Hin Chuang	Amphoe Mueang	Changwat Prachuap Khiri Khan
Drainage Area	48	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+10.870	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.		Elevation +17.808 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 means of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.50	11.50	11.58	11.58	11.58	11.60	11.57	11.58	11.57	11.56	11.52	11.52	
2	11.50	11.50	11.58	11.58	11.58	11.60	11.57	11.58	11.57	11.56	11.52	11.52	
3	11.50	11.50	11.58	11.58	11.58	11.60	11.57	11.58	11.57	11.55	11.52	11.52	
4	11.50	11.50	11.58	11.57	11.58	11.60	11.57	11.58	11.57	11.55	11.52	11.52	
5	11.50	11.50	11.59	11.57	11.59	11.60	11.57	11.57	11.57	11.55	11.52	11.52	
6	11.50	11.50	11.59	11.57	11.60	11.60	11.57	11.57	11.57	11.55	11.52	11.52	
7	11.50	11.50	11.59	11.57	11.60	11.60	11.57	11.57	11.57	11.55	11.52	11.52	
8	11.50	11.50	11.59	11.57	11.61	11.60	11.57	11.57	11.57	11.55	11.52	11.52	
9	11.50	11.50	11.59	11.57	11.62	11.60	11.57	11.57	11.57	11.55	11.52	11.52	
10	11.50	11.50	11.58	11.57	11.62	11.57	11.57	11.57	11.57	11.55	11.52	11.52	
11	11.50	11.50	11.58	11.57	11.61	11.57	11.57	11.57	11.57	11.57	11.52	11.52	
12	11.50	11.53	11.57	11.57	11.61	11.57	11.57	11.57	11.57	11.60	11.52	11.52	
13	11.50	11.55	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.62	11.52	11.52	
14	11.50	11.55	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.64	11.52	11.52	
15	11.50	11.55	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.61	11.52	11.52	
16	11.50	11.55	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.61	11.52	11.52	
17	11.50	11.68	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.60	11.52	11.52	
18	11.50	11.67	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.60	11.52	11.52	
19	11.50	11.62	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.60	11.52	11.52	
20	11.50	11.60	11.57	11.57	11.60	11.57	11.57	11.57	11.57	11.59	11.52	11.52	
21	11.50	11.57	11.57	11.57	11.60	11.57	11.62	11.57	11.56	11.57	11.52	11.52	
22	11.50	11.57	11.57	11.57	11.61	11.58	11.69	11.57	11.56	11.57	11.52	11.52	
23	11.50	11.56	11.57	11.57	11.61	11.58	11.72	11.57	11.56	11.57	11.52	11.52	
24	11.50	11.56	11.57	11.57	11.61	11.58	11.71	11.57	11.56	11.56	11.52	11.52	
25	11.50	11.56	11.56	11.57	11.61	11.58	11.67	11.57	11.56	11.56	11.52	11.52	
26	11.50	11.56	11.56	11.57	11.61	11.58	11.62	11.57	11.56	11.56	11.52	11.53	
27	11.50	11.56	11.56	11.57	11.61	11.57	11.57	11.57	11.56	11.56	11.52	11.67	
28	11.50	11.57	11.56	11.57	11.61	11.57	11.57	11.57	11.56	11.56	11.52	11.68	
29	11.50	11.57	11.56	11.57	11.60	11.57	11.57	11.57	11.56	11.56		11.67	
30	11.50	11.58	11.56	11.57	11.59	11.57	11.57	11.57	11.56	11.56		11.66	
31		11.58		11.57	11.58		11.57		11.56	11.56		11.64	
Mean	11.50	11.55	11.57	11.57	11.60	11.58	11.59	11.57	11.57	11.57	11.52	11.54	
Max	11.50	11.68	11.59	11.58	11.62	11.60	11.72	11.58	11.57	11.64	11.52	11.68	11.72
Min	11.50	11.50	11.56	11.57	11.58	11.57	11.57	11.57	11.56	11.55	11.52	11.52	11.50
Annual Max Momentary Gage Height		11.72		m. (MSL.) ,			at 06.00 Hours , on Oct 23 , 2009						
Zero Gage at Bottom Elevation		10.87		m. (MSL.) ,		River Bed	11.38		m. (MSL)				
Left Bank Elevation		17.81		m. (MSL.) ,									
Right Bank Elevation		15.23		m. (MSL.) ,		Drainage Area	48		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.12	0.12	0.12	0.15	0.10	0.12	0.10	0.09	0.03	0.03	
2	0.00	0.00	0.12	0.12	0.12	0.15	0.10	0.12	0.10	0.09	0.03	0.03	
3	0.00	0.00	0.12	0.12	0.12	0.15	0.10	0.12	0.10	0.08	0.03	0.03	
4	0.00	0.00	0.12	0.10	0.12	0.15	0.10	0.12	0.10	0.08	0.03	0.03	
5	0.00	0.00	0.13	0.10	0.13	0.15	0.10	0.10	0.10	0.08	0.03	0.03	
6	0.00	0.00	0.13	0.10	0.15	0.15	0.10	0.10	0.10	0.08	0.03	0.03	
7	0.00	0.00	0.13	0.10	0.15	0.15	0.10	0.10	0.10	0.08	0.03	0.03	
8	0.00	0.00	0.13	0.10	0.17	0.15	0.10	0.10	0.10	0.08	0.03	0.03	
9	0.00	0.00	0.13	0.10	0.20	0.15	0.10	0.10	0.10	0.08	0.03	0.03	
10	0.00	0.00	0.12	0.10	0.20	0.10	0.10	0.10	0.10	0.08	0.03	0.03	
11	0.00	0.00	0.12	0.10	0.17	0.10	0.10	0.10	0.10	0.10	0.03	0.03	
12	0.00	0.04	0.10	0.10	0.17	0.10	0.10	0.10	0.10	0.15	0.03	0.03	
13	0.00	0.08	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.20	0.03	0.03	
14	0.00	0.08	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.25	0.03	0.03	
15	0.00	0.08	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.17	0.03	0.03	
16	0.00	0.08	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.17	0.03	0.03	
17	0.00	0.35	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.15	0.03	0.03	
18	0.00	0.33	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.15	0.03	0.03	
19	0.00	0.20	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.15	0.03	0.03	
20	0.00	0.15	0.10	0.10	0.15	0.10	0.10	0.10	0.10	0.13	0.03	0.03	
21	0.00	0.10	0.10	0.10	0.15	0.10	0.20	0.10	0.09	0.10	0.03	0.03	
22	0.00	0.10	0.10	0.10	0.17	0.12	0.37	0.10	0.09	0.10	0.03	0.03	
23	0.00	0.09	0.10	0.10	0.17	0.12	0.47	0.10	0.09	0.10	0.03	0.03	
24	0.00	0.09	0.10	0.10	0.17	0.12	0.43	0.10	0.09	0.09	0.03	0.03	
25	0.00	0.09	0.09	0.10	0.17	0.12	0.33	0.10	0.09	0.09	0.03	0.03	
26	0.00	0.09	0.09	0.10	0.17	0.12	0.20	0.10	0.09	0.09	0.03	0.04	
27	0.00	0.09	0.09	0.10	0.17	0.10	0.10	0.10	0.09	0.09	0.03	0.33	
28	0.00	0.10	0.09	0.10	0.17	0.10	0.10	0.10	0.09	0.09	0.03	0.35	
29	0.00	0.10	0.09	0.10	0.15	0.10	0.10	0.10	0.09	0.09		0.33	
30	0.00	0.12	0.09	0.10	0.13	0.10	0.10	0.10	0.09	0.09		0.30	
31		0.12		0.10	0.12		0.10		0.09	0.09		0.25	
Total	0.00	2.48	3.21	3.16	4.76	3.55	4.50	3.08	2.99	3.46	0.84	2.35	34.38 CMSDAY
Mean	0.00	0.08	0.11	0.10	0.15	0.12	0.15	0.10	0.10	0.11	0.03	0.08	0.09 CMS
Max	0.00	0.35	0.13	0.12	0.20	0.15	0.47	0.12	0.10	0.25	0.03	0.35	0.47 CMS
Min	0.00	0.00	0.09	0.10	0.12	0.10	0.10	0.10	0.09	0.08	0.03	0.03	0.00 CMS
Runoff	0.00	0.21	0.28	0.27	0.41	0.31	0.39	0.27	0.26	0.30	0.07	0.20	2.97 MCM
Momentary Peak	0.47 CMS. at 11.72 m. (MSL.) at 06.00 Hours , on Oct 23 , 2009												
Runoff Yield	1.96 Liters/Second/Square KM.			Momentary Peak Yield				9.792 Liters/Second/Square KM.					

WATER YEAR : 2009
WEST COAST - GULF BASIN

Huai Yang at Ban Huai Yang , Prachuap Khiri Khan (Gt.17)

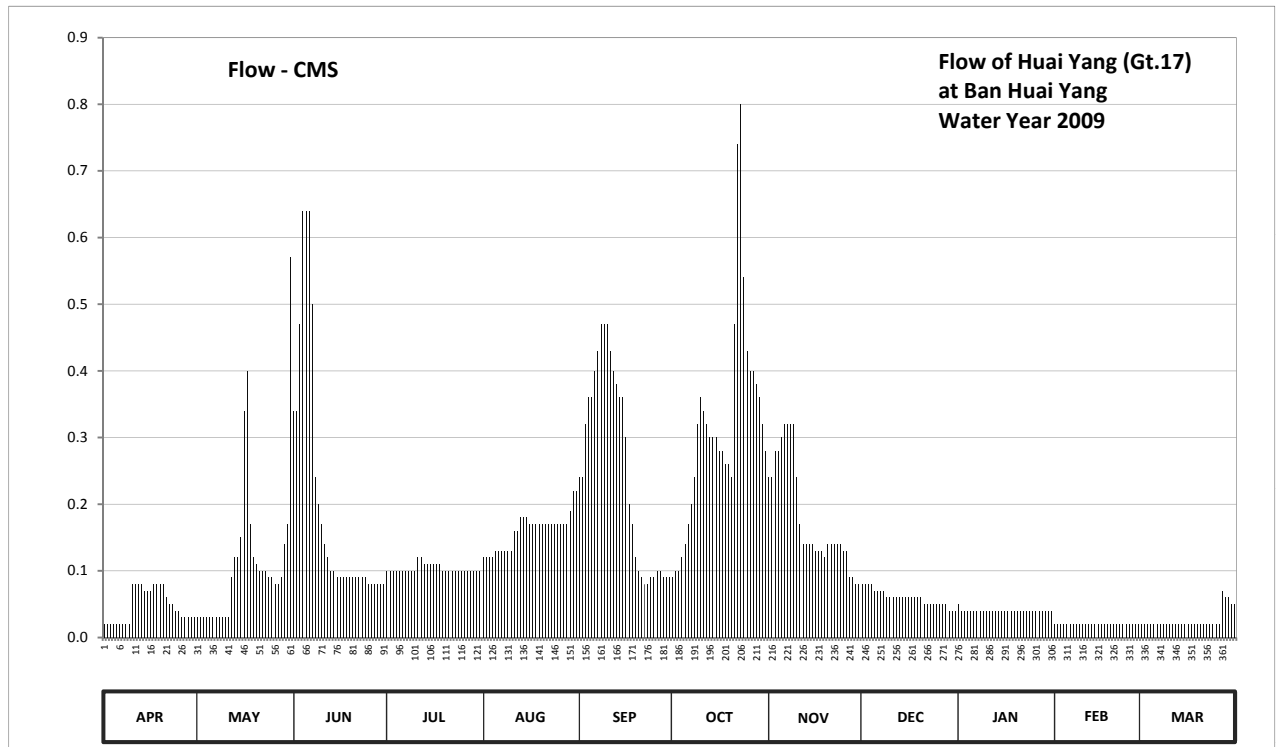
Lat 11 - 36 - 48 N Long 99 - 40 - 09 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 349.

	Ban Huai Yang	Amphoe Thap Sakae	Changwat Prachuap Khiri Khan
Drainage Area	48 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.620 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+6.367 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 means of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.25	1.26	1.57	1.39	1.42	1.52	1.38	1.52	1.36	1.30	1.24	1.24	
2	1.25	1.26	1.57	1.40	1.42	1.52	1.40	1.52	1.36	1.29	1.24	1.24	
3	1.25	1.26	1.62	1.40	1.42	1.56	1.40	1.54	1.35	1.29	1.24	1.24	
4	1.25	1.26	1.67	1.40	1.42	1.58	1.42	1.54	1.35	1.29	1.24	1.24	
5	1.25	1.27	1.67	1.40	1.43	1.58	1.44	1.55	1.34	1.29	1.24	1.24	
6	1.25	1.27	1.67	1.40	1.43	1.60	1.47	1.56	1.34	1.29	1.24	1.24	
7	1.25	1.27	1.63	1.40	1.43	1.61	1.50	1.56	1.33	1.29	1.24	1.24	
8	1.25	1.27	1.52	1.40	1.43	1.62	1.52	1.56	1.33	1.29	1.24	1.24	
9	1.25	1.27	1.50	1.40	1.43	1.62	1.56	1.56	1.32	1.29	1.24	1.24	
10	1.35	1.27	1.47	1.39	1.43	1.62	1.58	1.52	1.32	1.29	1.24	1.24	
11	1.35	1.27	1.44	1.42	1.46	1.61	1.57	1.47	1.32	1.29	1.24	1.24	
12	1.35	1.37	1.42	1.42	1.46	1.60	1.56	1.44	1.32	1.29	1.24	1.24	
13	1.35	1.42	1.40	1.41	1.48	1.59	1.55	1.44	1.32	1.29	1.24	1.24	
14	1.34	1.42	1.40	1.41	1.48	1.58	1.55	1.44	1.32	1.29	1.24	1.24	
15	1.34	1.45	1.38	1.41	1.48	1.58	1.55	1.44	1.32	1.29	1.24	1.24	
16	1.34	1.57	1.38	1.41	1.47	1.55	1.54	1.43	1.32	1.29	1.24	1.24	
17	1.35	1.60	1.38	1.41	1.47	1.50	1.54	1.43	1.32	1.29	1.24	1.24	
18	1.35	1.47	1.38	1.41	1.47	1.47	1.53	1.43	1.32	1.29	1.24	1.24	
19	1.35	1.42	1.38	1.40	1.47	1.42	1.53	1.42	1.32	1.29	1.24	1.24	
20	1.35	1.41	1.38	1.40	1.47	1.39	1.52	1.44	1.32	1.29	1.24	1.24	
21	1.32	1.40	1.37	1.40	1.47	1.37	1.62	1.44	1.31	1.28	1.24	1.24	
22	1.30	1.40	1.37	1.40	1.47	1.36	1.70	1.44	1.31	1.28	1.24	1.24	
23	1.30	1.39	1.37	1.40	1.47	1.36	1.71	1.44	1.31	1.28	1.24	1.24	
24	1.29	1.38	1.37	1.40	1.47	1.37	1.64	1.44	1.30	1.28	1.24	1.24	
25	1.29	1.37	1.36	1.40	1.47	1.38	1.61	1.43	1.30	1.28	1.24	1.24	
26	1.27	1.36	1.36	1.40	1.47	1.39	1.60	1.43	1.30	1.28	1.24	1.25	
27	1.27	1.36	1.36	1.40	1.47	1.40	1.60	1.38	1.30	1.28	1.24	1.33	
28	1.27	1.38	1.36	1.40	1.47	1.38	1.59	1.37	1.30	1.28	1.24	1.32	
29	1.26	1.44	1.36	1.40	1.49	1.37	1.58	1.36	1.29	1.28		1.32	
30	1.26	1.47	1.36	1.40	1.51	1.37	1.56	1.36	1.29	1.28		1.31	
31		1.65		1.40	1.51		1.54		1.29	1.28		1.30	
Mean	1.30	1.38	1.45	1.40	1.46	1.50	1.54	1.46	1.32	1.29	1.24	1.25	
Max	1.35	1.65	1.67	1.42	1.51	1.62	1.71	1.56	1.36	1.30	1.24	1.33	1.71
Min	1.25	1.26	1.36	1.39	1.42	1.36	1.38	1.36	1.29	1.28	1.24	1.24	1.24
Annual Max Momentary Gage Height	1.73	m. (MSL.) , at 09.00 Hours , on Oct 23 , 2009											
Zero Gage at Bottom Elevation	0.62	m. (MSL.) , River Bed 1.16 m. (MSL)											
Left Bank Elevation	6.33	m. (MSL.) ,											
Right Bank Elevation	4.25	m. (MSL.) , Drainage Area 48 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.03	0.34	0.10	0.12	0.24	0.09	0.24	0.08	0.05	0.02	0.02	
2	0.02	0.03	0.34	0.10	0.12	0.24	0.10	0.24	0.08	0.04	0.02	0.02	
3	0.02	0.03	0.47	0.10	0.12	0.32	0.10	0.28	0.08	0.04	0.02	0.02	
4	0.02	0.03	0.64	0.10	0.12	0.36	0.12	0.28	0.08	0.04	0.02	0.02	
5	0.02	0.03	0.64	0.10	0.13	0.36	0.14	0.30	0.07	0.04	0.02	0.02	
6	0.02	0.03	0.64	0.10	0.13	0.40	0.17	0.32	0.07	0.04	0.02	0.02	
7	0.02	0.03	0.50	0.10	0.13	0.43	0.20	0.32	0.07	0.04	0.02	0.02	
8	0.02	0.03	0.24	0.10	0.13	0.47	0.24	0.32	0.07	0.04	0.02	0.02	
9	0.02	0.03	0.20	0.10	0.13	0.47	0.32	0.32	0.06	0.04	0.02	0.02	
10	0.08	0.03	0.17	0.10	0.13	0.47	0.36	0.24	0.06	0.04	0.02	0.02	
11	0.08	0.03	0.14	0.12	0.16	0.43	0.34	0.17	0.06	0.04	0.02	0.02	
12	0.08	0.09	0.12	0.12	0.16	0.40	0.32	0.14	0.06	0.04	0.02	0.02	
13	0.08	0.12	0.10	0.11	0.18	0.38	0.30	0.14	0.06	0.04	0.02	0.02	
14	0.07	0.12	0.10	0.11	0.18	0.36	0.30	0.14	0.06	0.04	0.02	0.02	
15	0.07	0.15	0.09	0.11	0.18	0.36	0.30	0.14	0.06	0.04	0.02	0.02	
16	0.07	0.34	0.09	0.11	0.17	0.30	0.28	0.13	0.06	0.04	0.02	0.02	
17	0.08	0.40	0.09	0.11	0.17	0.20	0.28	0.13	0.06	0.04	0.02	0.02	
18	0.08	0.17	0.09	0.11	0.17	0.17	0.26	0.13	0.06	0.04	0.02	0.02	
19	0.08	0.12	0.09	0.10	0.17	0.12	0.26	0.12	0.06	0.04	0.02	0.02	
20	0.08	0.11	0.09	0.10	0.17	0.10	0.24	0.14	0.06	0.04	0.02	0.02	
21	0.06	0.10	0.09	0.10	0.17	0.09	0.47	0.14	0.05	0.04	0.02	0.02	
22	0.05	0.10	0.09	0.10	0.17	0.08	0.74	0.14	0.05	0.04	0.02	0.02	
23	0.05	0.10	0.09	0.10	0.17	0.08	0.80	0.14	0.05	0.04	0.02	0.02	
24	0.04	0.09	0.09	0.10	0.17	0.09	0.54	0.14	0.05	0.04	0.02	0.02	
25	0.04	0.09	0.08	0.10	0.17	0.09	0.43	0.13	0.05	0.04	0.02	0.02	
26	0.03	0.08	0.08	0.10	0.17	0.10	0.40	0.13	0.05	0.04	0.02	0.02	
27	0.03	0.08	0.08	0.10	0.17	0.10	0.40	0.09	0.05	0.04	0.02	0.07	
28	0.03	0.09	0.08	0.10	0.17	0.09	0.38	0.09	0.05	0.04	0.02	0.06	
29	0.03	0.14	0.08	0.10	0.19	0.09	0.36	0.08	0.04	0.04		0.06	
30	0.03	0.17	0.08	0.10	0.22	0.09	0.32	0.08	0.04	0.04		0.05	
31		0.57		0.10	0.22		0.28		0.04	0.04		0.05	
Total	1.42	3.56	6.02	3.20	4.96	7.48	9.84	5.40	1.84	1.25	0.56	0.81	46.34 CMSDAY
Mean	0.05	0.11	0.20	0.10	0.16	0.25	0.32	0.18	0.06	0.04	0.02	0.03	0.13 CMS
Max	0.08	0.57	0.64	0.12	0.22	0.47	0.80	0.32	0.08	0.05	0.02	0.07	0.80 CMS
Min	0.02	0.03	0.08	0.10	0.12	0.08	0.09	0.08	0.04	0.04	0.02	0.02	0.02 CMS
Runoff	0.12	0.31	0.52	0.28	0.43	0.65	0.85	0.47	0.16	0.11	0.05	0.07	4.00 MCM
Momentary Peak	0.91 CMS. at 1.73 m. (MSL.) at 09.00 Hours , on Oct 23 , 2009												
Runoff Yield	2.64 Liters/Second/Square KM.			Momentary Peak Yield				18,958 Liters/Second/Square KM.					

WATER YEAR : 2009
WEST COAST - GULF BASIN

Khlong Cha Kra at Ban Cha Kra Bon , Prachuap Khiri Khan (Gt.18)

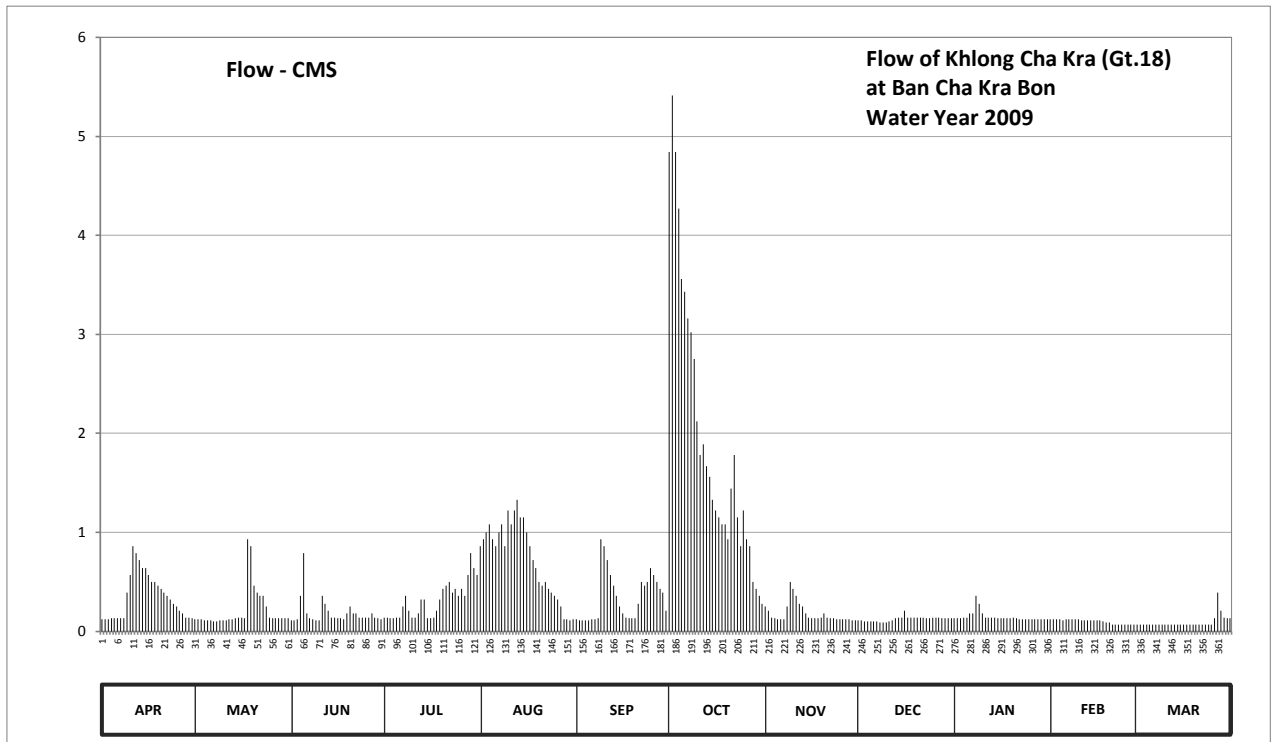
Lat 11 - 26 - 48 N Long 99 - 34 - 09 E

Location : on left bank at the bridge of Phet Kasem Highway.

	Ban	Cha Kra Bon	Amphoe	Thap Sakae	Changwat	Prachuap Khiri Khan
Drainage Area	88	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+11.715 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+17.228 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 means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.66	12.65	12.63	12.70	12.85	12.64	13.16	12.73	12.62	12.67	12.65	12.57	
2	12.66	12.64	12.63	12.69	12.86	12.63	13.19	12.72	12.62	12.68	12.64	12.57	
3	12.66	12.64	12.66	12.68	12.87	12.62	13.16	12.69	12.61	12.68	12.64	12.57	
4	12.67	12.63	12.76	12.67	12.88	12.62	13.13	12.68	12.61	12.70	12.64	12.57	
5	12.68	12.62	12.84	12.69	12.86	12.62	13.09	12.66	12.61	12.70	12.63	12.57	
6	12.67	12.62	12.71	12.70	12.85	12.64	13.08	12.66	12.61	12.71	12.65	12.57	
7	12.67	12.61	12.68	12.73	12.87	12.66	13.06	12.65	12.60	12.71	12.65	12.57	
8	12.68	12.60	12.66	12.76	12.88	12.68	13.05	12.73	12.59	12.76	12.65	12.57	
9	12.77	12.62	12.63	12.72	12.85	12.86	13.03	12.80	12.59	12.74	12.64	12.57	
10	12.81	12.63	12.62	12.70	12.90	12.85	12.98	12.78	12.59	12.71	12.64	12.57	
11	12.85	12.63	12.76	12.69	12.88	12.83	12.95	12.76	12.61	12.70	12.63	12.57	
12	12.84	12.64	12.74	12.71	12.90	12.81	12.96	12.74	12.63	12.69	12.63	12.57	
13	12.83	12.66	12.72	12.75	12.91	12.79	12.94	12.73	12.68	12.69	12.62	12.57	
14	12.82	12.68	12.70	12.75	12.89	12.76	12.93	12.71	12.70	12.69	12.62	12.57	
15	12.82	12.69	12.69	12.68	12.89	12.73	12.91	12.69	12.70	12.68	12.62	12.57	
16	12.81	12.69	12.68	12.67	12.87	12.71	12.90	12.68	12.72	12.68	12.63	12.57	
17	12.80	12.67	12.67	12.70	12.85	12.69	12.89	12.68	12.70	12.67	12.62	12.57	
18	12.80	12.86	12.66	12.72	12.83	12.68	12.88	12.67	12.69	12.68	12.60	12.57	
19	12.79	12.85	12.71	12.75	12.82	12.68	12.88	12.69	12.70	12.68	12.59	12.57	
20	12.78	12.79	12.73	12.78	12.80	12.67	12.86	12.71	12.70	12.69	12.59	12.57	
21	12.77	12.77	12.71	12.79	12.79	12.74	12.92	12.69	12.69	12.67	12.57	12.57	
22	12.76	12.76	12.71	12.80	12.80	12.80	12.95	12.68	12.69	12.66	12.57	12.57	
23	12.75	12.76	12.70	12.77	12.78	12.79	12.89	12.67	12.68	12.65	12.57	12.57	
24	12.74	12.73	12.69	12.78	12.77	12.80	12.85	12.66	12.67	12.65	12.57	12.57	
25	12.73	12.70	12.69	12.76	12.76	12.82	12.90	12.65	12.69	12.66	12.57	12.57	
26	12.72	12.68	12.70	12.78	12.75	12.81	12.86	12.65	12.70	12.66	12.57	12.67	
27	12.71	12.67	12.71	12.76	12.73	12.80	12.85	12.64	12.69	12.66	12.57	12.77	
28	12.70	12.68	12.69	12.81	12.66	12.78	12.80	12.64	12.68	12.65	12.57	12.72	
29	12.69	12.67	12.67	12.84	12.65	12.77	12.78	12.63	12.68	12.65	12.70	12.68	
30	12.68	12.67	12.66	12.82	12.62	12.72	12.76	12.63	12.68	12.66	12.66	12.68	
31		12.68		12.81	12.65		12.74		12.67	12.66		12.67	
Mean	12.74	12.68	12.69	12.74	12.82	12.73	12.95	12.69	12.66	12.68	12.61	12.60	
Max	12.85	12.86	12.84	12.84	12.91	12.86	13.19	12.80	12.72	12.76	12.65	12.77	13.19
Min	12.66	12.60	12.62	12.67	12.62	12.62	12.74	12.63	12.59	12.65	12.57	12.57	12.57
Annual Max Momentary Gage Height	13.22		m. (MSL.) ,				at 18.00 Hours , on Oct 1 , 2009						
Zero Gage at Bottom Elevation	11.72		m. (MSL.) ,			River Bed	12.49	m. (MSL)					
Left Bank Elevation	15.20		m. (MSL.) ,										
Right Bank Elevation	16.07		m. (MSL.) ,			Drainage Area	88	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.12	0.11	0.14	0.86	0.12	4.84	0.25	0.11	0.13	0.12	0.07	
2	0.12	0.12	0.11	0.14	0.93	0.11	5.41	0.21	0.11	0.13	0.12	0.07	
3	0.12	0.12	0.12	0.13	1.00	0.11	4.84	0.14	0.10	0.13	0.12	0.07	
4	0.13	0.11	0.36	0.13	1.08	0.11	4.27	0.13	0.10	0.14	0.12	0.07	
5	0.13	0.11	0.79	0.14	0.93	0.11	3.56	0.12	0.10	0.14	0.11	0.07	
6	0.13	0.11	0.18	0.14	0.86	0.12	3.43	0.12	0.10	0.18	0.12	0.07	
7	0.13	0.10	0.13	0.25	1.00	0.12	3.16	0.12	0.10	0.18	0.12	0.07	
8	0.13	0.10	0.12	0.36	1.08	0.13	3.02	0.25	0.09	0.36	0.12	0.07	
9	0.39	0.11	0.11	0.21	0.86	0.93	2.75	0.50	0.09	0.28	0.12	0.07	
10	0.57	0.11	0.11	0.14	1.22	0.86	2.12	0.43	0.09	0.18	0.12	0.07	
11	0.86	0.11	0.36	0.14	1.08	0.72	1.78	0.36	0.10	0.14	0.11	0.07	
12	0.79	0.12	0.28	0.18	1.22	0.57	1.89	0.28	0.11	0.14	0.11	0.07	
13	0.72	0.12	0.21	0.32	1.33	0.46	1.67	0.25	0.13	0.14	0.11	0.07	
14	0.64	0.13	0.14	0.32	1.15	0.36	1.56	0.18	0.14	0.14	0.11	0.07	
15	0.64	0.14	0.14	0.13	1.15	0.25	1.33	0.14	0.14	0.13	0.11	0.07	
16	0.57	0.14	0.13	0.13	1.00	0.18	1.22	0.13	0.21	0.13	0.11	0.07	
17	0.50	0.13	0.13	0.14	0.86	0.14	1.15	0.13	0.14	0.13	0.11	0.07	
18	0.50	0.93	0.12	0.21	0.72	0.13	1.08	0.13	0.14	0.13	0.10	0.07	
19	0.46	0.86	0.18	0.32	0.64	0.13	1.08	0.14	0.14	0.13	0.09	0.07	
20	0.43	0.46	0.25	0.43	0.50	0.13	0.93	0.18	0.14	0.14	0.09	0.07	
21	0.39	0.39	0.18	0.46	0.46	0.28	1.44	0.14	0.14	0.13	0.07	0.07	
22	0.36	0.36	0.18	0.50	0.50	0.50	1.78	0.13	0.14	0.12	0.07	0.07	
23	0.32	0.36	0.14	0.39	0.43	0.46	1.15	0.13	0.13	0.12	0.07	0.07	
24	0.28	0.25	0.14	0.43	0.39	0.50	0.86	0.12	0.13	0.12	0.07	0.07	
25	0.25	0.14	0.14	0.36	0.36	0.64	1.22	0.12	0.14	0.12	0.07	0.07	
26	0.21	0.13	0.14	0.43	0.32	0.57	0.93	0.12	0.14	0.12	0.07	0.13	
27	0.18	0.13	0.18	0.36	0.25	0.50	0.86	0.12	0.14	0.12	0.07	0.39	
28	0.14	0.13	0.14	0.57	0.12	0.43	0.50	0.12	0.13	0.12	0.07	0.21	
29	0.14	0.13	0.13	0.79	0.12	0.39	0.43	0.11	0.13	0.12		0.14	
30	0.13	0.13	0.12	0.64	0.11	0.21	0.36	0.11	0.13	0.12		0.13	
31		0.13		0.57	0.12		0.28		0.13	0.12		0.13	
Total	10.48	6.53	5.57	9.60	22.65	10.27	60.90	5.41	3.86	4.53	2.80	2.88	145.48 CMSDAY
Mean	0.35	0.21	0.19	0.31	0.73	0.34	1.96	0.18	0.12	0.15	0.10	0.09	0.40 CMS
Max	0.86	0.93	0.79	0.79	1.33	0.93	5.41	0.50	0.21	0.36	0.12	0.39	5.41 CMS
Min	0.12	0.10	0.11	0.13	0.11	0.11	0.28	0.11	0.09	0.12	0.07	0.07	0.07 CMS
Runoff	0.905	0.564	0.481	0.829	1.957	0.887	5.262	0.467	0.334	0.391	0.242	0.249	12.569 MCM
Momentary Peak	6.04 CMS. at 13.22 m. (MSL.) at 18.00 Hours , on Oct 1, 2009												
Runoff Yield	4.53 Liters/Second/Square KM.			Momentary Peak Yield			68.636 Liters/Second/Square KM.						

WATER YEAR : 2009
WEST COAST - GULF BASIN

Khlong Ang Thong at Ban Ang Thong , Prachuap Khiri Khan (Gt.19)

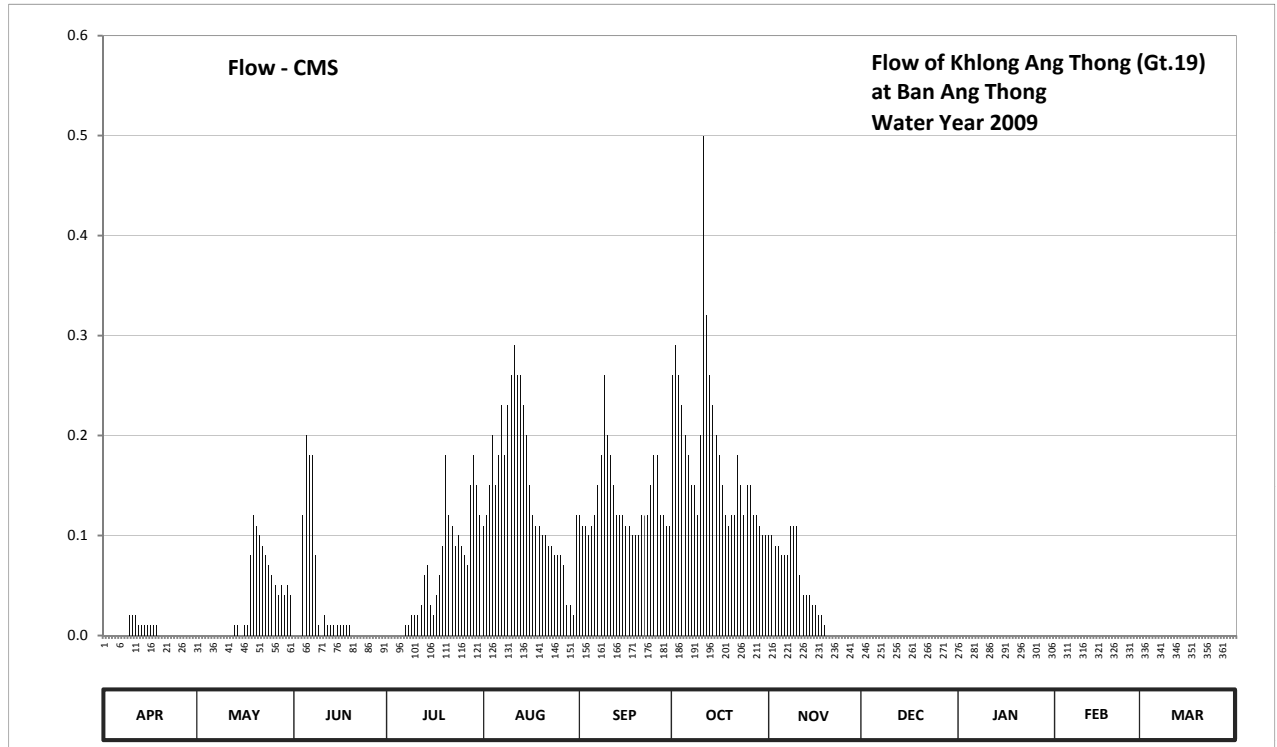
Lat 11 - 26 - 10 N Long 99 - 33 - 54 E

Location : on left bank at the bridge of Phet Kasem Highway near the guidepost 373.

	Ban Ang Thong	Amphoe Thap Sakae	Changwat Prachuap Khiri Khan
Drainage Area	61 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+12.450 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	Elevation +17.599 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 means of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 - 1988, 1993 to date		
Rated by Flot	-		
Rated by Current Meter	1987 - 1988, 1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.10	13.10	13.10	13.10	13.29	13.30	13.35	13.28	13.10	13.10	13.10	13.10	
2	13.10	13.10	13.10	13.10	13.30	13.29	13.36	13.28	13.10	13.10	13.10	13.10	
3	13.10	13.10	13.12	13.10	13.31	13.29	13.35	13.27	13.10	13.10	13.10	13.10	
4	13.10	13.10	13.30	13.11	13.33	13.28	13.34	13.27	13.10	13.10	13.10	13.10	
5	13.10	13.10	13.33	13.12	13.31	13.29	13.33	13.26	13.10	13.10	13.10	13.10	
6	13.10	13.10	13.32	13.12	13.32	13.30	13.32	13.26	13.10	13.10	13.10	13.10	
7	13.10	13.10	13.32	13.13	13.34	13.31	13.31	13.26	13.10	13.10	13.10	13.10	
8	13.10	13.11	13.26	13.14	13.32	13.32	13.31	13.29	13.10	13.10	13.10	13.10	
9	13.18	13.11	13.13	13.18	13.34	13.35	13.30	13.29	13.10	13.10	13.10	13.10	
10	13.18	13.11	13.11	13.20	13.35	13.33	13.33	13.29	13.10	13.10	13.10	13.10	
11	13.19	13.11	13.18	13.20	13.36	13.32	13.43	13.24	13.10	13.10	13.10	13.10	
12	13.17	13.12	13.16	13.21	13.35	13.31	13.37	13.22	13.10	13.10	13.10	13.10	
13	13.16	13.14	13.15	13.24	13.35	13.30	13.35	13.22	13.10	13.10	13.10	13.10	
14	13.16	13.14	13.15	13.25	13.34	13.30	13.34	13.22	13.10	13.10	13.10	13.10	
15	13.15	13.12	13.15	13.21	13.33	13.30	13.33	13.21	13.10	13.10	13.10	13.10	
16	13.14	13.13	13.15	13.20	13.31	13.29	13.32	13.21	13.10	13.10	13.10	13.10	
17	13.13	13.14	13.14	13.22	13.30	13.29	13.31	13.20	13.10	13.10	13.10	13.10	
18	13.13	13.26	13.15	13.24	13.29	13.28	13.30	13.20	13.10	13.10	13.10	13.10	
19	13.12	13.30	13.13	13.27	13.29	13.28	13.29	13.13	13.10	13.10	13.10	13.10	
20	13.12	13.29	13.10	13.32	13.28	13.28	13.30	13.10	13.10	13.10	13.10	13.10	
21	13.11	13.28	13.10	13.30	13.28	13.30	13.30	13.10	13.10	13.10	13.10	13.10	
22	13.10	13.27	13.10	13.29	13.27	13.30	13.32	13.10	13.10	13.10	13.10	13.10	
23	13.11	13.26	13.10	13.27	13.27	13.30	13.31	13.10	13.10	13.10	13.10	13.10	
24	13.11	13.25	13.10	13.28	13.26	13.31	13.30	13.10	13.10	13.10	13.10	13.10	
25	13.10	13.24	13.10	13.27	13.26	13.32	13.31	13.10	13.10	13.10	13.10	13.10	
26	13.10	13.23	13.10	13.26	13.26	13.32	13.31	13.10	13.10	13.10	13.10	13.10	
27	13.10	13.22	13.10	13.25	13.25	13.30	13.30	13.10	13.10	13.10	13.10	13.10	
28	13.10	13.23	13.10	13.31	13.21	13.30	13.30	13.10	13.10	13.10	13.10	13.10	
29	13.10	13.22	13.10	13.32	13.21	13.29	13.29	13.10	13.10	13.10	13.10	13.10	
30	13.10	13.23	13.10	13.31	13.20	13.29	13.28	13.10	13.10	13.10	13.10	13.10	
31		13.22		13.30	13.30		13.28		13.10	13.10		13.10	
Mean	13.12	13.18	13.15	13.22	13.30	13.30	13.32	13.19	13.10	13.10	13.10	13.10	
Max	13.19	13.30	13.33	13.32	13.36	13.35	13.43	13.29	13.10	13.10	13.10	13.10	13.43
Min	13.10	13.10	13.10	13.10	13.20	13.28	13.28	13.10	13.10	13.10	13.10	13.10	13.10
Annual Max Momentary Gage Height	13.43	m. (MSL.) , at 06.00 Hours , on Oct 11 , 2009											
Zero Gage at Bottom Elevation	12.45	m. (MSL.) , River Bed 12.75 m. (MSL)											
Left Bank Elevation	16.73	m. (MSL.) ,											
Right Bank Elevation	16.59	m. (MSL.) , Drainage Area 61 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.11	0.12	0.26	0.10	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.12	0.11	0.29	0.10	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.15	0.11	0.26	0.09	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.12	0.00	0.20	0.10	0.23	0.09	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.20	0.00	0.15	0.11	0.20	0.08	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.18	0.00	0.18	0.12	0.18	0.08	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.18	0.01	0.23	0.15	0.15	0.08	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.08	0.01	0.18	0.18	0.15	0.11	0.00	0.00	0.00	0.00	
9	0.02	0.00	0.01	0.02	0.23	0.26	0.12	0.11	0.00	0.00	0.00	0.00	
10	0.02	0.00	0.00	0.02	0.26	0.20	0.20	0.11	0.00	0.00	0.00	0.00	
11	0.02	0.00	0.02	0.02	0.29	0.18	0.50	0.06	0.00	0.00	0.00	0.00	
12	0.01	0.00	0.01	0.03	0.26	0.15	0.32	0.04	0.00	0.00	0.00	0.00	
13	0.01	0.01	0.01	0.06	0.26	0.12	0.26	0.04	0.00	0.00	0.00	0.00	
14	0.01	0.01	0.01	0.07	0.23	0.12	0.23	0.04	0.00	0.00	0.00	0.00	
15	0.01	0.00	0.01	0.03	0.20	0.12	0.20	0.03	0.00	0.00	0.00	0.00	
16	0.01	0.01	0.01	0.02	0.15	0.11	0.18	0.03	0.00	0.00	0.00	0.00	
17	0.01	0.01	0.01	0.04	0.12	0.11	0.15	0.02	0.00	0.00	0.00	0.00	
18	0.01	0.08	0.01	0.06	0.11	0.10	0.12	0.02	0.00	0.00	0.00	0.00	
19	0.00	0.12	0.01	0.09	0.11	0.10	0.11	0.01	0.00	0.00	0.00	0.00	
20	0.00	0.11	0.00	0.18	0.10	0.10	0.12	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.10	0.00	0.12	0.10	0.12	0.12	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.09	0.00	0.11	0.09	0.12	0.18	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.08	0.00	0.09	0.09	0.12	0.15	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.07	0.00	0.10	0.08	0.15	0.12	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.06	0.00	0.09	0.08	0.18	0.15	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.05	0.00	0.08	0.08	0.18	0.15	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.04	0.00	0.07	0.07	0.12	0.12	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.05	0.00	0.15	0.03	0.12	0.12	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.04	0.00	0.18	0.03	0.11	0.11	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.05	0.00	0.15	0.02	0.11	0.10	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.04	0.00	0.12	0.12	0.10	0.10	0.00	0.00	0.00	0.00	0.00	
Total	0.13	1.02	0.87	1.92	4.43	4.00	5.65	1.24	0.00	0.00	0.00	0.00	19.26 CMSDAY
Mean	0.00	0.03	0.03	0.06	0.14	0.13	0.18	0.04	0.00	0.00	0.00	0.00	0.05 CMS
Max	0.02	0.12	0.20	0.18	0.29	0.26	0.50	0.11	0.00	0.00	0.00	0.00	0.50 CMS
Min	0.00	0.00	0.00	0.00	0.02	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.01	0.09	0.08	0.17	0.38	0.35	0.49	0.11	0.00	0.00	0.00	0.00	1.66 MCM
Momentary Peak	0.50 CMS. at 13.43 m. (MSL) at 06.00 Hours , on Oct 11 , 2009												
Runoff Yield	0.87 Liters/Second/Square KM.			Momentary Peak Yield				8.197 Liters/Second/Square KM.					

WATER YEAR : 2009
KHLONG KUI RIVER BASIN

Kui Buri River at Ban Thung Faek , Prachuap Khiri Khan (Ky.3)

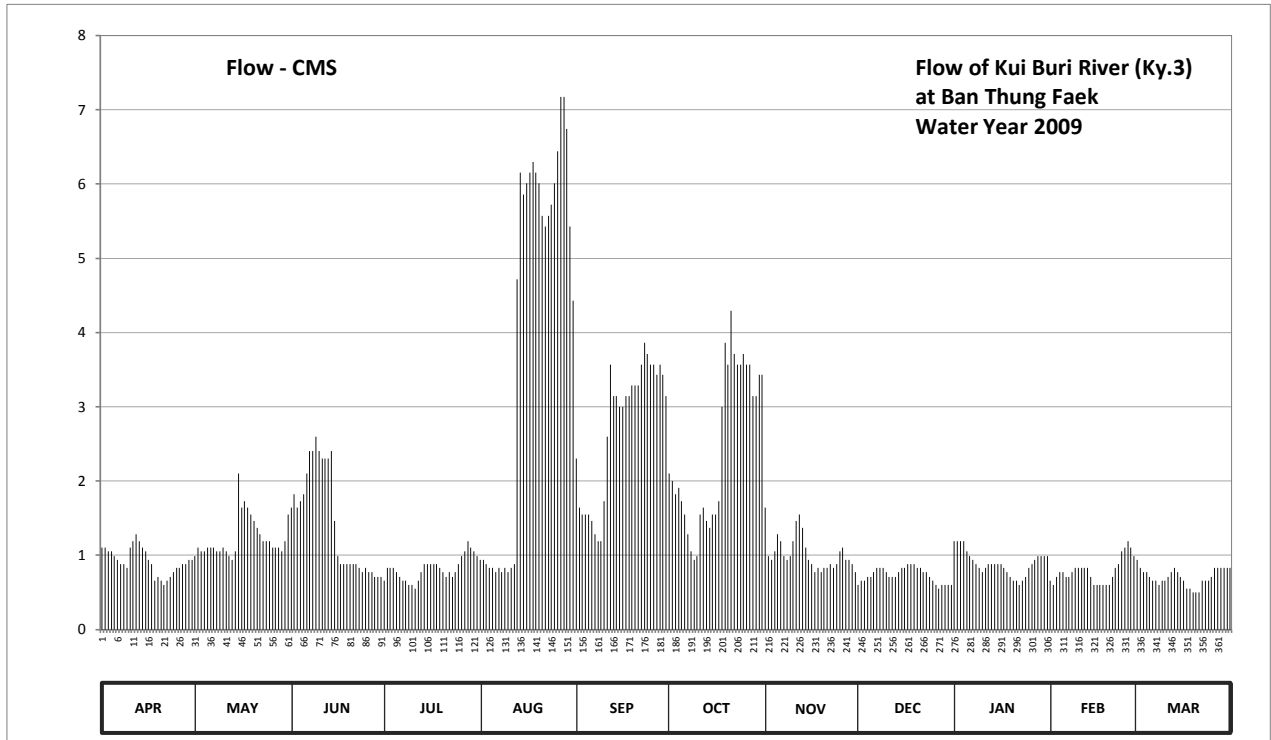
Lat 12 - 05 - 46 N Long 99 - 47 - 26 E

Location : on left bank at Bunchuai Bamrungrat Bridge near Wat Udom Wararam.

	Ban Thung Faek	Amphoe Kui Buri	Changwat Prachuap Khiri Khan
Drainage Area	537 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+19.789 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 1 meter from the top staff gage.	Elevation	+25.925 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 means 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	Stable		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.80	21.78	21.86	21.72	21.77	21.93	21.91	21.86	21.71	21.81	21.72	21.77	
2	21.80	21.80	21.88	21.75	21.77	21.86	21.90	21.78	21.72	21.81	21.71	21.75	
3	21.79	21.79	21.86	21.75	21.76	21.85	21.88	21.77	21.72	21.81	21.73	21.74	
4	21.79	21.79	21.87	21.75	21.75	21.85	21.89	21.79	21.73	21.81	21.74	21.74	
5	21.78	21.80	21.88	21.74	21.75	21.85	21.87	21.82	21.73	21.79	21.74	21.73	
6	21.77	21.80	21.91	21.73	21.74	21.84	21.85	21.81	21.74	21.78	21.73	21.72	
7	21.76	21.80	21.94	21.72	21.75	21.82	21.82	21.78	21.75	21.77	21.73	21.72	
8	21.76	21.79	21.94	21.72	21.74	21.81	21.79	21.77	21.75	21.76	21.74	21.71	
9	21.75	21.79	21.96	21.71	21.75	21.81	21.77	21.78	21.75	21.75	21.75	21.72	
10	21.80	21.80	21.94	21.71	21.74	21.87	21.78	21.81	21.74	21.74	21.75	21.72	
11	21.81	21.79	21.93	21.70	21.75	21.96	21.85	21.84	21.73	21.75	21.75	21.73	
12	21.82	21.78	21.93	21.72	21.76	22.04	21.86	21.85	21.73	21.76	21.75	21.74	
13	21.81	21.77	21.93	21.74	22.12	22.01	21.84	21.83	21.73	21.76	21.75	21.75	
14	21.80	21.79	21.94	21.76	22.22	22.01	21.83	21.80	21.74	21.76	21.73	21.74	
15	21.79	21.91	21.84	21.76	22.20	22.00	21.85	21.77	21.75	21.76	21.71	21.73	
16	21.77	21.86	21.78	21.76	22.21	22.00	21.85	21.76	21.75	21.76	21.71	21.72	
17	21.76	21.87	21.76	21.76	22.22	22.01	21.87	21.74	21.76	21.75	21.71	21.70	
18	21.72	21.86	21.76	21.76	22.23	22.01	22.00	21.75	21.76	21.74	21.71	21.70	
19	21.73	21.85	21.76	21.75	22.22	22.02	22.06	21.74	21.76	21.73	21.71	21.69	
20	21.72	21.84	21.76	21.74	22.21	22.02	22.04	21.75	21.75	21.72	21.71	21.69	
21	21.71	21.83	21.76	21.73	22.18	22.02	22.09	21.75	21.75	21.72	21.73	21.69	
22	21.72	21.82	21.76	21.74	22.17	22.04	22.05	21.76	21.74	21.71	21.75	21.72	
23	21.73	21.81	21.75	21.73	22.18	22.06	22.04	21.75	21.74	21.72	21.76	21.72	
24	21.74	21.81	21.74	21.74	22.19	22.05	22.04	21.76	21.73	21.73	21.79	21.72	
25	21.75	21.81	21.75	21.76	22.21	22.04	22.05	21.79	21.72	21.75	21.80	21.73	
26	21.75	21.80	21.74	21.78	22.24	22.04	22.04	21.80	21.71	21.76	21.81	21.75	
27	21.76	21.80	21.74	21.79	22.29	22.03	22.04	21.77	21.70	21.77	21.80	21.75	
28	21.76	21.80	21.73	21.81	22.29	22.04	22.01	21.77	21.71	21.78	21.78	21.75	
29	21.77	21.79	21.73	21.80	22.26	22.03	22.01	21.76	21.71	21.78		21.75	
30	21.77	21.81	21.73	21.79	22.17	22.01	22.03	21.74	21.71	21.78		21.75	
31		21.85		21.78	22.10		22.03		21.71	21.78		21.75	
Mean	21.77	21.81	21.83	21.75	22.03	21.96	21.93	21.78	21.73	21.76	21.74	21.73	
Max	21.82	21.91	21.96	21.81	22.29	22.06	22.09	21.86	21.76	21.81	21.81	21.77	22.29
Min	21.71	21.77	21.73	21.70	21.74	21.81	21.77	21.74	21.70	21.71	21.71	21.69	21.69
Annual Max Momentary Gage Height	22.29	m. (MSL.) , at 06.00 Hours , on Aug 27 , 2009											
Zero Gage at Bottom Elevation	19.79	m. (MSL.) , River Bed 19.36 m. (MSL)											
Left Bank Elevation	26.16	m. (MSL.) ,											
Right Bank Elevation	26.27	m. (MSL.) , Drainage Area 537 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	0.99	1.64	0.66	0.94	2.30	2.10	1.64	0.60	1.19	0.66	0.94	
2	1.10	1.10	1.82	0.83	0.94	1.64	2.00	0.99	0.66	1.19	0.60	0.83	
3	1.05	1.05	1.64	0.83	0.88	1.55	1.82	0.94	0.66	1.19	0.71	0.77	
4	1.05	1.05	1.73	0.83	0.83	1.55	1.91	1.05	0.71	1.19	0.77	0.77	
5	0.99	1.10	1.82	0.77	0.83	1.55	1.73	1.28	0.71	1.05	0.77	0.71	
6	0.94	1.10	2.10	0.71	0.77	1.46	1.55	1.19	0.77	0.99	0.71	0.66	
7	0.88	1.10	2.40	0.66	0.83	1.28	1.28	0.99	0.83	0.94	0.71	0.66	
8	0.88	1.05	2.40	0.66	0.77	1.19	1.05	0.94	0.83	0.88	0.77	0.60	
9	0.83	1.05	2.60	0.60	0.83	1.19	0.94	0.99	0.83	0.83	0.83	0.66	
10	1.10	1.10	2.40	0.60	0.77	1.73	0.99	1.19	0.77	0.77	0.83	0.66	
11	1.19	1.05	2.30	0.55	0.83	2.60	1.55	1.46	0.71	0.83	0.83	0.71	
12	1.28	0.99	2.30	0.66	0.88	3.57	1.64	1.55	0.71	0.88	0.83	0.77	
13	1.19	0.94	2.30	0.77	4.72	3.14	1.46	1.37	0.71	0.88	0.83	0.83	
14	1.10	1.05	2.40	0.88	6.15	3.14	1.37	1.10	0.77	0.88	0.71	0.77	
15	1.05	2.10	1.46	0.88	5.86	3.00	1.55	0.94	0.83	0.88	0.60	0.71	
16	0.94	1.64	0.99	0.88	6.01	3.00	1.55	0.88	0.83	0.88	0.60	0.66	
17	0.88	1.73	0.88	0.88	6.15	3.14	1.73	0.77	0.88	0.83	0.60	0.55	
18	0.66	1.64	0.88	0.88	6.30	3.14	3.00	0.83	0.88	0.77	0.60	0.55	
19	0.71	1.55	0.88	0.83	6.15	3.29	3.86	0.77	0.88	0.71	0.60	0.50	
20	0.66	1.46	0.88	0.77	6.01	3.29	3.57	0.83	0.83	0.66	0.60	0.50	
21	0.60	1.37	0.88	0.71	5.57	3.29	4.29	0.83	0.83	0.66	0.71	0.50	
22	0.66	1.28	0.88	0.77	5.43	3.57	3.71	0.88	0.77	0.60	0.83	0.66	
23	0.71	1.19	0.83	0.71	5.57	3.86	3.57	0.83	0.77	0.66	0.88	0.66	
24	0.77	1.19	0.77	0.77	5.72	3.71	3.57	0.88	0.71	0.71	1.05	0.66	
25	0.83	1.19	0.83	0.88	6.01	3.57	3.71	1.05	0.66	0.83	1.10	0.71	
26	0.83	1.10	0.77	0.99	6.44	3.57	3.57	1.10	0.60	0.88	1.19	0.83	
27	0.88	1.10	0.77	1.05	7.17	3.43	3.57	0.94	0.55	0.94	1.10	0.83	
28	0.88	1.10	0.71	1.19	7.17	3.57	3.14	0.94	0.60	0.99	0.99	0.83	
29	0.94	1.05	0.71	1.10	6.74	3.43	3.14	0.88	0.60	0.99	0.99	0.83	
30	0.94	1.19	0.71	1.05	5.43	3.14	3.43	0.77	0.60	0.99	0.99	0.83	
31		1.55		0.99	4.43		3.43		0.60	0.99		0.83	
Total	27.62	38.15	43.68	25.34	123.13	81.89	75.78	30.80	22.69	27.66	22.01	21.98	540.73 CMSDAY
Mean	0.92	1.23	1.46	0.82	3.97	2.73	2.44	1.03	0.73	0.89	0.79	0.71	1.48 CMS
Max	1.28	2.10	2.60	1.19	7.17	3.86	4.29	1.64	0.88	1.19	1.19	0.94	7.17 CMS
Min	0.60	0.94	0.71	0.55	0.77	1.19	0.94	0.77	0.55	0.60	0.60	0.50	0.50 CMS
Runoff	2.39	3.30	3.77	2.19	10.64	7.08	6.55	2.66	1.96	2.39	1.90	1.90	46.72 MCM
Momentary Peak	7.17 CMS. at 22.29 m. (MSL.) at 06.00 Hours , on Aug 27 , 2009												
Runoff Yield	2.76 Liters/Second/Square KM.			Momentary Peak Yield			13.352 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

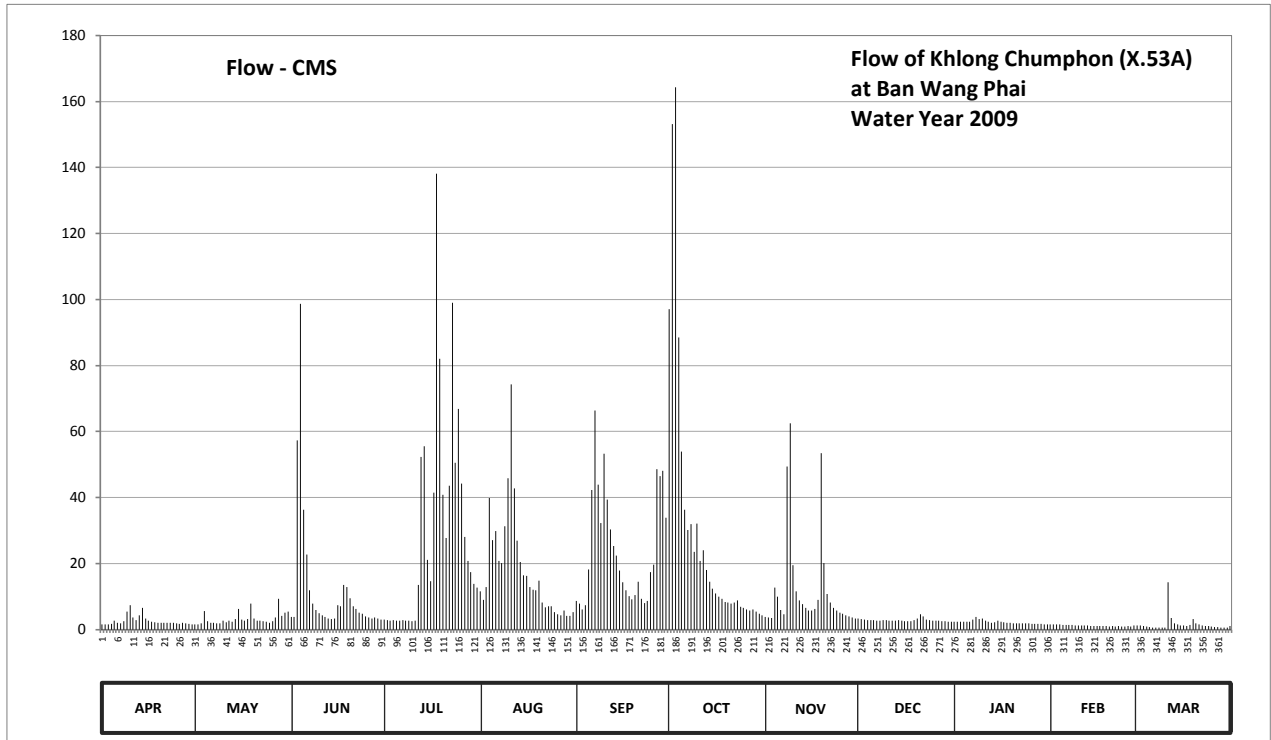
Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

	Ban Wang Phai	Amphoe Mueang	Changwat Chumphon
Drainage Area	296 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 3.30 meters from the top staff gage.	Elevation	+10.271 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1991 to date		
Rating Operation			
Period of Rating	1991 to date		
Rated by Flot	-		
Rated by Current Meter	1991 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.25	2.25	2.46	2.40	3.09	2.85	7.80	2.47	2.42	2.34	2.26	2.23	
2	2.26	2.26	2.46	2.38	2.88	2.79	8.98	2.45	2.41	2.33	2.25	2.22	
3	2.26	2.29	6.04	2.37	3.19	2.65	9.13	2.44	2.40	2.33	2.25	2.20	
4	2.27	2.61	7.85	2.38	4.99	2.75	7.49	3.18	2.39	2.34	2.25	2.19	
5	2.37	2.35	4.75	2.37	4.14	3.55	5.87	2.96	2.39	2.34	2.24	2.18	
6	2.31	2.31	3.85	2.37	4.32	5.15	4.75	2.63	2.38	2.34	2.24	2.16	
7	2.29	2.30	3.11	2.38	3.72	6.49	4.34	2.53	2.37	2.40	2.24	2.16	
8	2.35	2.29	2.79	2.37	3.68	5.26	4.46	5.62	2.37	2.46	2.24	2.15	
9	2.60	2.28	2.63	2.37	4.42	4.48	3.90	6.30	2.38	2.41	2.23	2.15	
10	2.75	2.37	2.55	2.35	5.39	5.84	4.47	3.63	2.38	2.43	2.23	2.15	
11	2.45	2.32	2.51	2.36	6.89	4.96	3.72	3.08	2.37	2.36	2.22	3.29	
12	2.39	2.36	2.46	3.23	5.18	4.35	3.93	2.86	2.36	2.33	2.22	2.44	
13	2.51	2.33	2.42	5.79	4.13	4.02	3.54	2.77	2.36	2.31	2.22	2.29	
14	2.69	2.41	2.41	5.95	3.70	3.83	3.30	2.68	2.38	2.32	2.21	2.25	
15	2.42	2.66	2.42	3.74	3.43	3.53	3.15	2.62	2.36	2.36	2.21	2.23	
16	2.37	2.40	2.75	3.31	3.42	3.29	3.04	2.62	2.35	2.33	2.20	2.22	
17	2.34	2.36	2.72	5.10	3.19	3.11	2.96	2.66	2.35	2.32	2.20	2.20	
18	2.32	2.41	3.23	8.76	3.13	2.97	2.91	2.88	2.35	2.31	2.20	2.24	
19	2.30	2.79	3.19	7.24	3.11	2.89	2.83	5.85	2.38	2.30	2.20	2.41	
20	2.30	2.43	2.92	5.05	3.32	2.99	2.81	3.68	2.42	2.29	2.19	2.28	
21	2.30	2.37	2.73	4.18	2.82	3.30	2.79	3.02	2.53	2.29	2.20	2.25	
22	2.31	2.36	2.66	5.24	2.70	2.91	2.82	2.81	2.48	2.29	2.19	2.22	
23	2.30	2.35	2.57	7.86	2.73	2.80	2.87	2.69	2.40	2.28	2.21	2.21	
24	2.30	2.33	2.54	5.69	2.73	2.85	2.71	2.62	2.38	2.29	2.19	2.20	
25	2.28	2.31	2.48	6.52	2.58	3.49	2.68	2.57	2.37	2.29	2.19	2.19	
26	2.27	2.35	2.45	5.28	2.53	3.64	2.64	2.54	2.36	2.27	2.20	2.18	
27	2.30	2.45	2.43	4.20	2.51	5.57	2.62	2.51	2.36	2.27	2.19	2.18	
28	2.29	2.91	2.45	3.72	2.62	5.43	2.65	2.48	2.35	2.27	2.23	2.15	
29	2.27	2.49	2.43	3.49	2.49	5.54	2.59	2.45	2.35	2.27		2.15	
30	2.26	2.57	2.40	3.26	2.49	4.59	2.54	2.43	2.34	2.26		2.16	
31		2.59		3.18	2.58		2.50		2.34	2.26		2.20	
Mean	2.36	2.41	3.02	4.09	3.49	3.93	3.96	3.07	2.38	2.32	2.22	2.25	
Max	2.75	2.91	7.85	8.76	6.89	6.49	9.13	6.30	2.53	2.46	2.26	3.29	9.13
Min	2.25	2.25	2.40	2.35	2.49	2.65	2.50	2.43	2.34	2.26	2.19	2.15	2.15
Annual Max Momentary Gage Height	9.51		m. (MSL.) ,				at 21.00 Hours , on Jun 3 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.00	m. (MSL)					
Left Bank Elevation		10.40		m. (MSL.) ,									
Right Bank Elevation		10.41		m. (MSL.) ,		Drainage Area	296	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	1.50	3.75	3.00	11.62	8.62	97.00	3.87	3.25	2.40	1.60	1.30	
2	1.60	1.60	3.75	2.80	9.00	7.87	153.10	3.62	3.13	2.30	1.50	1.20	
3	1.60	1.90	57.30	2.70	12.88	6.13	164.25	3.50	3.00	2.30	1.50	1.00	
4	1.70	5.62	98.62	2.80	39.85	7.37	88.47	12.75	2.90	2.40	1.50	0.90	
5	2.70	2.50	36.25	2.70	27.10	18.25	53.90	10.00	2.90	2.40	1.40	0.80	
6	2.10	2.10	22.75	2.70	29.80	42.25	36.25	5.88	2.80	2.40	1.40	0.60	
7	1.90	2.00	11.87	2.80	20.80	66.30	30.10	4.62	2.70	3.00	1.40	0.60	
8	2.50	1.90	7.87	2.70	20.20	43.90	31.90	49.35	2.70	3.75	1.40	0.50	
9	5.50	1.80	5.88	2.70	31.30	32.20	23.50	62.50	2.80	3.13	1.30	0.50	
10	7.37	2.70	4.87	2.50	45.85	53.30	32.05	19.45	2.80	3.37	1.30	0.50	
11	3.62	2.20	4.37	2.60	74.30	39.40	20.80	11.50	2.70	2.60	1.20	14.35	
12	2.90	2.60	3.75	13.45	42.70	30.25	23.95	8.75	2.60	2.30	1.20	3.50	
13	4.37	2.30	3.25	52.32	26.95	25.30	18.10	7.62	2.60	2.10	1.20	1.90	
14	6.63	3.13	3.13	55.50	20.50	22.45	14.50	6.50	2.80	2.20	1.10	1.50	
15	3.25	6.25	3.25	21.10	16.45	17.95	12.38	5.75	2.60	2.60	1.10	1.30	
16	2.70	3.00	7.37	14.65	16.30	14.35	11.00	5.75	2.50	2.30	1.00	1.20	
17	2.40	2.60	7.00	41.50	12.88	11.87	10.00	6.25	2.50	2.20	1.00	1.00	
18	2.20	3.13	13.45	138.10	12.13	10.13	9.38	9.00	2.50	2.10	1.00	1.40	
19	2.00	7.87	12.88	82.00	11.87	9.13	8.37	53.50	2.80	2.00	1.00	3.13	
20	2.00	3.37	9.50	40.75	14.80	10.38	8.12	20.20	3.25	1.90	0.90	1.80	
21	2.00	2.70	7.12	27.70	8.25	14.50	7.87	10.75	4.62	1.90	1.00	1.50	
22	2.10	2.60	6.25	43.60	6.75	9.38	8.25	8.12	4.00	1.90	0.90	1.20	
23	2.00	2.50	5.12	98.95	7.12	8.00	8.87	6.63	3.00	1.80	1.10	1.10	
24	2.00	2.30	4.75	50.58	7.12	8.62	6.87	5.75	2.80	1.90	0.90	1.00	
25	1.80	2.10	4.00	66.90	5.25	17.35	6.50	5.12	2.70	1.90	0.90	0.90	
26	1.70	2.50	3.62	44.20	4.62	19.60	6.00	4.75	2.60	1.70	1.00	0.80	
27	2.00	3.62	3.37	28.00	4.37	48.55	5.75	4.37	2.60	1.70	0.90	0.80	
28	1.90	9.38	3.62	20.80	5.75	46.45	6.13	4.00	2.50	1.70	1.30	0.50	
29	1.70	4.12	3.37	17.35	4.12	48.10	5.37	3.62	2.50	1.70	0.50	0.50	
30	1.60	5.12	3.00	13.90	4.12	33.85	4.75	3.37	2.40	1.60	0.60	0.60	
31		5.37		12.75	5.25		4.25		2.40	1.60		1.00	
Total	79.34	102.38	365.08	914.10	560.00	731.80	917.73	366.84	87.95	69.15	33.00	48.88	4276.25 CMSDAY
Mean	2.64	3.30	12.17	29.49	18.06	24.39	29.60	12.23	2.84	2.23	1.18	1.58	11.72 CMS
Max	7.37	9.38	98.62	138.10	74.30	66.30	164.25	62.50	4.62	3.75	1.60	14.35	164.25 CMS
Min	1.50	1.50	3.00	2.50	4.12	6.13	4.25	3.37	2.40	1.60	0.90	0.50	0.50 CMS
Runoff	6.86	8.85	31.54	78.98	48.38	63.23	79.29	31.70	7.60	5.98	2.85	4.22	369.47 MCM
Momentary Peak	199.15 CMS. at 9.51 m. (MSL.) at 21.00 Hours , on Jun 3 , 2009												
Runoff Yield	39.55 Liters/Second/Square KM.			Momentary Peak Yield				672.35 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Khlong Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

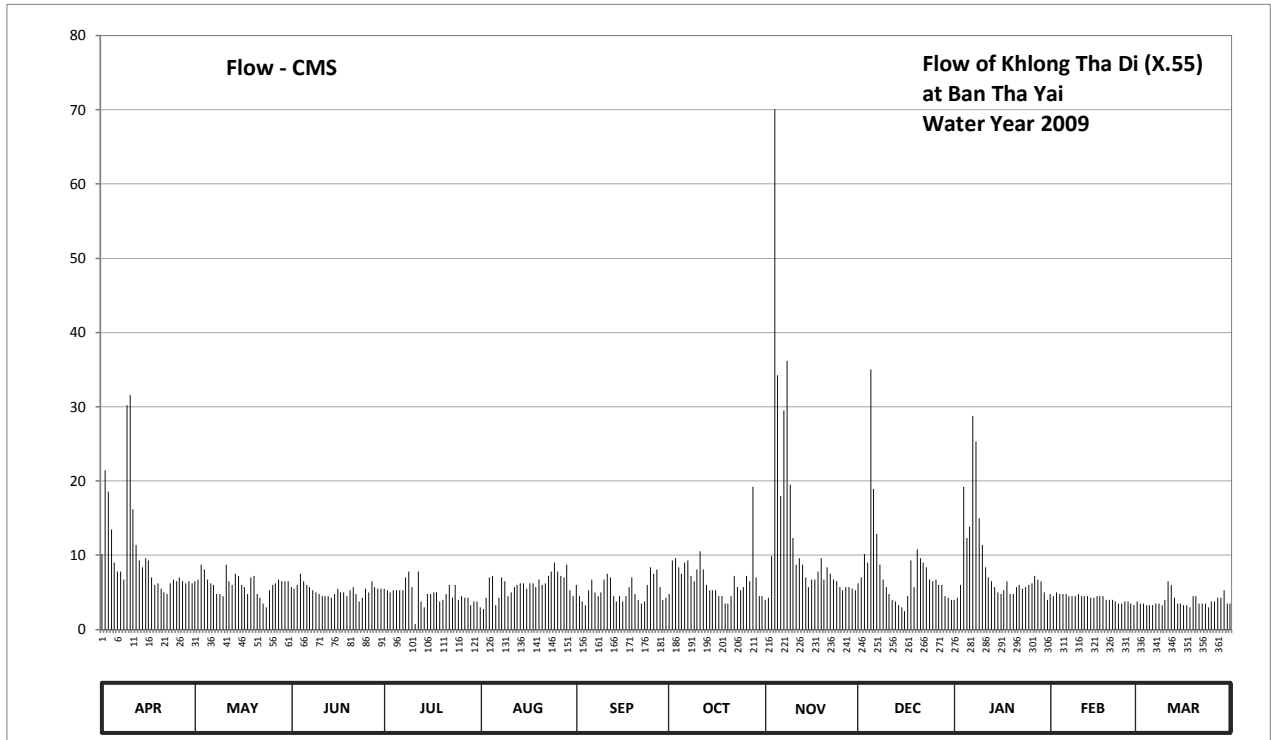
Lat 08 - 23 - 52 N Long 99 - 50 - 14 E

Location : on left bank at the bridge.

	Ban Tha Yai	Amphoe Lan Saka	Changwat Nakhon Si Thammarat
Drainage Area	105	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 63.60 meters from fourth staff gage.	Elevation	+24.176 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 - 1971 , 1989 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1971 , 1989 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.29	18.16	18.13	18.12	18.02	18.14	18.09	18.06	18.15	18.06	18.09	18.05	
2	18.66	18.17	18.12	18.11	18.01	18.08	18.26	18.07	18.18	18.07	18.08	18.04	
3	18.57	18.24	18.14	18.10	18.07	18.05	18.27	18.28	18.29	18.14	18.10	18.04	
4	18.40	18.22	18.20	18.11	18.18	18.03	18.23	19.89	18.25	18.59	18.09	18.03	
5	18.25	18.17	18.16	18.11	18.19	18.11	18.20	19.03	19.05	18.36	18.09	18.03	
6	18.21	18.15	18.14	18.11	18.03	18.17	18.25	18.55	18.58	18.41	18.09	18.03	
7	18.21	18.14	18.13	18.11	18.07	18.10	18.26	18.90	18.38	18.88	18.08	18.04	
8	18.17	18.09	18.11	18.18	18.18	18.08	18.19	19.08	18.24	18.78	18.08	18.04	
9	18.92	18.09	18.10	18.21	18.16	18.10	18.16	18.60	18.17	18.45	18.08	18.03	
10	18.96	18.08	18.09	18.13	18.08	18.17	18.22	18.36	18.13	18.33	18.09	18.06	
11	18.49	18.24	18.08	17.93	18.10	18.20	18.30	18.24	18.09	18.23	18.08	18.16	
12	18.33	18.16	18.08	18.21	18.13	18.18	18.22	18.27	18.06	18.18	18.08	18.14	
13	18.26	18.14	18.08	18.05	18.14	18.08	18.14	18.24	18.05	18.16	18.08	18.07	
14	18.23	18.20	18.07	18.02	18.15	18.05	18.11	18.18	18.03	18.13	18.07	18.04	
15	18.27	18.19	18.09	18.09	18.15	18.08	18.11	18.13	18.02	18.10	18.07	18.04	
16	18.26	18.14	18.12	18.09	18.12	18.05	18.11	18.17	18.00	18.09	18.08	18.03	
17	18.18	18.13	18.10	18.10	18.15	18.08	18.08	18.17	18.08	18.11	18.08	18.03	
18	18.14	18.09	18.10	18.10	18.15	18.13	18.08	18.21	18.26	18.16	18.08	18.02	
19	18.15	18.18	18.08	18.05	18.13	18.18	18.04	18.27	18.13	18.09	18.06	18.08	
20	18.12	18.19	18.11	18.06	18.17	18.09	18.04	18.17	18.31	18.09	18.06	18.08	
21	18.10	18.09	18.13	18.09	18.14	18.06	18.08	18.23	18.27	18.13	18.06	18.04	
22	18.09	18.07	18.09	18.14	18.15	18.04	18.19	18.20	18.25	18.14	18.05	18.04	
23	18.15	18.04	18.05	18.07	18.19	18.05	18.13	18.17	18.23	18.12	18.04	18.04	
24	18.17	18.02	18.07	18.14	18.21	18.14	18.11	18.16	18.17	18.13	18.04	18.02	
25	18.16	18.11	18.12	18.06	18.25	18.23	18.13	18.13	18.16	18.14	18.05	18.05	
26	18.18	18.14	18.10	18.08	18.21	18.20	18.19	18.11	18.17	18.15	18.05	18.05	
27	18.16	18.15	18.16	18.07	18.19	18.22	18.16	18.13	18.14	18.19	18.04	18.07	
28	18.15	18.17	18.13	18.07	18.18	18.13	18.59	18.13	18.14	18.17	18.03	18.07	
29	18.16	18.16	18.12	18.03	18.24	18.06	18.18	18.12	18.08	18.16		18.11	
30	18.15	18.16	18.12	18.05	18.11	18.07	18.08	18.11	18.07	18.10		18.04	
31		18.16		18.05	18.08		18.08		18.06	18.06		18.04	
Mean	18.28	18.14	18.11	18.09	18.14	18.11	18.17	18.35	18.20	18.22	18.07	18.05	
Max	18.96	18.24	18.20	18.21	18.25	18.23	18.59	19.89	19.05	18.88	18.10	18.16	19.89
Min	18.09	18.02	18.05	17.93	18.01	18.03	18.04	18.06	18.00	18.06	18.03	18.02	17.93
Annual Max Momentary Gage Height	21.92	m. (MSL.) , at 18.00 Hours , on Nov 4 , 2009											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed 17.38 m. (MSL)											
Left Bank Elevation	25.16	m. (MSL.) ,											
Right Bank Elevation	25.58	m. (MSL.) , Drainage Area 105 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.20	6.50	5.75	5.50	3.00	6.00	4.75	4.00	6.25	4.00	4.75	3.75	
2	21.45	6.75	5.50	5.25	2.75	4.50	9.30	4.25	7.00	4.25	4.50	3.50	
3	18.60	8.70	6.00	5.00	4.25	3.75	9.60	9.90	10.20	6.00	5.00	3.50	
4	13.50	8.10	7.50	5.25	7.00	3.25	8.40	70.05	9.00	19.20	4.75	3.25	
5	9.00	6.75	6.50	5.25	7.25	5.25	7.50	34.20	35.00	12.30	4.75	3.25	
6	7.80	6.25	6.00	5.25	3.25	6.75	9.00	18.00	18.90	13.80	4.75	3.25	
7	7.80	6.00	5.75	5.25	4.25	5.00	9.30	29.50	12.90	28.80	4.50	3.50	
8	6.75	4.75	5.25	7.00	7.00	4.50	7.25	36.20	8.70	25.35	4.50	3.50	
9	30.20	4.75	5.00	7.80	6.50	5.00	6.50	19.50	6.75	15.00	4.50	3.25	
10	31.60	4.50	4.75	5.75	4.50	6.75	8.10	12.30	5.75	11.40	4.75	4.00	
11	16.20	8.70	4.50	0.75	5.00	7.50	10.50	8.70	4.75	8.40	4.50	6.50	
12	11.40	6.50	4.50	7.80	5.75	7.00	8.10	9.60	4.00	7.00	4.50	6.00	
13	9.30	6.00	4.50	3.75	6.00	4.50	6.00	8.70	3.75	6.50	4.50	4.25	
14	8.40	7.50	4.25	3.00	6.25	3.75	5.25	7.00	3.25	5.75	4.25	3.50	
15	9.60	7.25	4.75	4.75	6.25	4.50	5.25	5.75	3.00	5.00	4.25	3.50	
16	9.30	6.00	5.50	4.75	5.50	3.75	5.25	6.75	2.50	4.75	4.50	3.25	
17	7.00	5.75	5.00	5.00	6.25	4.50	4.50	6.75	4.50	5.25	4.50	3.25	
18	6.00	4.75	5.00	5.00	6.25	5.75	4.50	7.80	9.30	6.50	4.50	3.00	
19	6.25	7.00	4.50	3.75	5.75	7.00	3.50	9.60	5.75	4.75	4.00	4.50	
20	5.50	7.25	5.25	4.00	6.75	4.75	3.50	6.75	10.80	4.75	4.00	4.50	
21	5.00	4.75	5.75	4.75	6.00	4.00	4.50	8.40	9.60	5.75	4.00	3.50	
22	4.75	4.25	4.75	6.00	6.25	3.50	7.25	7.50	9.00	6.00	3.75	3.50	
23	6.25	3.50	3.75	4.25	7.25	3.75	5.75	6.75	8.40	5.50	3.50	3.50	
24	6.75	3.00	4.25	6.00	7.80	6.00	5.25	6.50	6.75	5.75	3.50	3.00	
25	6.50	5.25	5.50	4.00	9.00	8.40	5.75	5.75	6.50	6.00	3.75	3.75	
26	7.00	6.00	5.00	4.50	7.80	7.50	7.25	5.25	6.75	6.25	3.75	3.75	
27	6.50	6.25	6.50	4.25	7.25	8.10	6.50	5.75	6.00	7.25	3.50	4.25	
28	6.25	6.75	5.75	4.25	7.00	5.75	19.20	5.75	6.00	6.75	3.25	4.25	
29	6.50	6.50	5.50	3.25	8.70	4.00	7.00	5.50	4.50	6.50	5.00	5.25	
30	6.25	6.50	5.50	3.75	5.25	4.25	4.50	5.25	4.25	5.00	4.00	3.50	
31		6.50		3.75	4.50		4.50		4.00	4.00		3.50	
Total	307.60	189.00	158.00	148.60	186.30	159.00	213.50	377.70	243.80	263.50	119.25	118.75	2485.00 CMSDAY
Mean	10.25	6.10	5.27	4.79	6.01	5.30	6.89	12.59	7.86	8.50	4.26	3.83	6.81 CMS
Max	31.60	8.70	7.50	7.80	9.00	8.40	19.20	70.05	35.00	28.80	5.00	6.50	70.05 CMS
Min	4.75	3.00	3.75	0.75	2.75	3.25	3.50	4.00	2.50	4.00	3.25	3.00	0.75 CMS
Runoff	26.58	16.33	13.65	12.84	16.10	13.74	18.45	32.63	21.06	22.77	10.30	10.26	214.70 MCM
Momentary Peak	177.50 CMS. at 21.92 m. (MSL.) at 18.00 Hours , on Nov 4 , 2009												
Runoff Yield	64.72 Liters/Second/Square KM.						Momentary Peak Yield 1687.423 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Khlong Tha Sae at Ban Tha Sae , Chumphon (X.64)

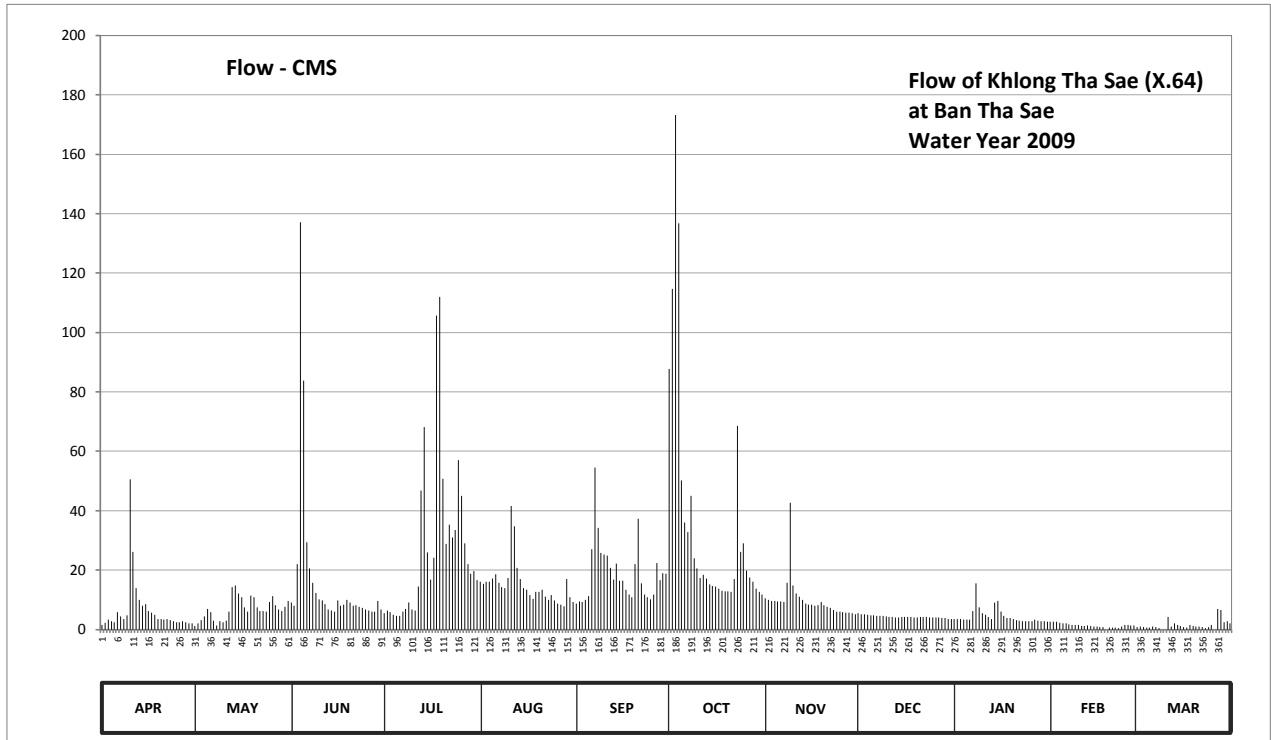
Lat 10 - 39 - 51 N Long 99 - 10 - 26 E

Location : on left bank near the Land Cooperation Office.

	Ban Tha Sae.	Amphoe Tha Sae	Changwat Chumphon
Drainage Area	946 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 6 meters from the top staff gage.	Elevation	+19.207 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 means of 5 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1974 - 1975 , 1982 to date		
Rated by Flot	-		
Rated by Current Meter	1974 - 1975 , 1982 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.78	7.76	8.15	7.97	8.50	8.14	11.29	8.23	7.97	7.88	7.83	7.74	
2	7.81	7.80	8.10	8.02	8.47	8.17	12.19	8.20	7.96	7.88	7.83	7.75	
3	7.87	7.86	8.80	7.99	8.50	8.16	13.92	8.18	7.96	7.88	7.83	7.74	
4	7.84	7.92	12.89	7.95	8.50	8.20	12.88	8.18	7.95	7.87	7.81	7.73	
5	7.82	8.05	11.16	7.93	8.56	8.26	10.01	8.17	7.94	7.87	7.80	7.73	
6	7.99	7.99	9.17	7.93	8.63	9.05	9.44	8.17	7.94	7.87	7.80	7.75	
7	7.92	7.85	8.73	8.00	8.49	10.18	9.31	8.16	7.93	8.01	7.79	7.74	
8	7.88	7.77	8.49	8.05	8.41	9.37	9.80	8.49	7.93	8.48	7.78	7.72	
9	7.94	7.84	8.32	8.15	8.40	8.99	8.90	9.71	7.93	8.07	7.78	7.70	
10	10.02	7.82	8.21	8.04	8.57	8.96	8.73	8.44	7.92	7.97	7.78	7.69	
11	9.01	7.85	8.19	8.02	9.66	8.94	8.57	8.31	7.91	7.95	7.76	7.91	
12	8.40	8.00	8.13	8.42	9.39	8.74	8.62	8.25	7.91	7.91	7.76	7.75	
13	8.20	8.41	8.04	9.87	8.74	8.54	8.56	8.20	7.90	7.88	7.77	7.80	
14	8.10	8.44	8.02	10.64	8.55	8.81	8.46	8.14	7.90	8.15	7.76	7.78	
15	8.13	8.31	8.00	9.00	8.40	8.52	8.43	8.12	7.91	8.18	7.75	7.76	
16	8.01	8.24	8.19	8.54	8.37	8.52	8.42	8.12	7.91	8.00	7.75	7.74	
17	7.98	8.07	8.10	8.91	8.28	8.37	8.39	8.10	7.91	7.93	7.74	7.73	
18	7.95	8.00	8.12	11.89	8.22	8.29	8.35	8.11	7.91	7.89	7.74	7.78	
19	7.88	8.27	8.20	12.10	8.33	8.24	8.34	8.16	7.90	7.89	7.64	7.76	
20	7.88	8.24	8.15	10.03	8.33	8.80	8.34	8.11	7.90	7.88	7.73	7.75	
21	7.87	8.07	8.10	9.14	8.37	9.49	8.33	8.08	7.91	7.86	7.73	7.75	
22	7.88	8.01	8.11	9.41	8.25	8.48	8.55	8.06	7.91	7.85	7.73	7.74	
23	7.86	8.01	8.08	9.24	8.20	8.29	10.65	8.03	7.91	7.84	7.72	7.72	
24	7.84	8.00	8.06	9.34	8.28	8.24	9.01	8.00	7.90	7.84	7.75	7.74	
25	7.82	8.16	8.04	10.27	8.19	8.21	9.15	8.00	7.90	7.84	7.78	7.78	
26	7.82	8.26	8.02	9.80	8.14	8.29	8.69	7.99	7.90	7.84	7.78	7.70	
27	7.84	8.11	8.00	9.15	8.12	8.82	8.58	7.98	7.90	7.87	7.77	8.05	
28	7.82	8.04	8.00	8.80	8.09	8.53	8.50	7.98	7.89	7.85	7.77	8.03	
29	7.80	8.01	8.18	8.64	8.55	8.65	8.39	7.97	7.89	7.84		7.82	
30	7.80	8.08	8.04	8.68	8.24	8.64	8.33	7.96	7.88	7.84		7.84	
31		8.18		8.53	8.16		8.29		7.88	7.83		7.80	
Mean	8.03	8.05	8.46	8.98	8.45	8.63	9.27	8.19	7.91	7.93	7.77	7.77	
Max	10.02	8.44	12.89	12.10	9.66	10.18	13.92	9.71	7.97	8.48	7.83	8.05	13.92
Min	7.78	7.76	8.00	7.93	8.09	8.14	8.29	7.96	7.88	7.83	7.64	7.69	7.64
Annual Max Momentary Gage Height	14.05		m. (MSL.) ,				at 15.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	6.48		m. (MSL)				
Left Bank Elevation		19.25		m. (MSL.) ,									
Right Bank Elevation		18.88		m. (MSL.) ,		Drainage Area	946		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	1.20	9.00	5.40	16.00	8.80	87.70	10.60	5.40	3.60	2.60	0.80	
2	2.20	2.00	8.00	6.40	15.40	9.40	114.70	10.00	5.20	3.60	2.60	1.00	
3	3.40	3.20	22.00	5.80	16.00	9.20	173.20	9.60	5.20	3.60	2.60	0.80	
4	2.80	4.40	137.15	5.00	16.00	10.00	136.80	9.60	5.00	3.40	2.20	0.60	
5	2.40	7.00	83.80	4.60	17.20	11.20	50.25	9.40	4.80	3.40	2.00	0.60	
6	5.80	5.80	29.40	4.60	18.60	27.00	36.00	9.40	4.80	3.40	2.00	1.00	
7	4.40	3.00	20.60	6.00	15.80	54.50	32.75	9.20	4.60	6.20	1.80	0.80	
8	3.60	1.40	15.80	7.00	14.20	34.25	45.00	15.80	4.60	15.60	1.60	0.40	
9	4.80	2.80	12.40	9.00	14.00	25.80	24.00	42.75	4.60	7.40	1.60	0.00	
10	50.50	2.40	10.20	6.80	17.40	25.20	20.60	14.80	4.40	5.40	1.60	0.00	
11	26.20	3.00	9.80	6.40	41.50	24.80	17.40	12.20	4.20	5.00	1.20	4.20	
12	14.00	6.00	8.60	14.40	34.75	20.80	18.40	11.00	4.20	4.20	1.20	1.00	
13	10.00	14.20	6.80	46.75	20.80	16.80	17.20	10.00	4.00	3.60	1.40	2.00	
14	8.00	14.80	6.40	68.20	17.00	22.20	15.20	8.80	4.00	9.00	1.20	1.60	
15	8.60	12.20	6.00	26.00	14.00	16.40	14.60	8.40	4.20	9.60	1.00	1.20	
16	6.20	10.80	9.80	16.80	13.40	16.40	14.40	8.40	4.20	6.00	1.00	0.80	
17	5.60	7.40	8.00	24.20	11.60	13.40	13.80	8.00	4.20	4.60	0.80	0.60	
18	5.00	6.00	8.40	105.70	10.40	11.80	13.00	8.20	4.20	3.80	0.80	1.60	
19	3.60	11.40	10.00	112.00	12.60	10.80	12.80	9.20	4.00	3.80	0.00	1.20	
20	3.60	10.80	9.00	50.75	12.60	22.00	12.80	8.20	4.00	3.60	0.60	1.00	
21	3.40	7.40	8.00	28.80	13.40	37.25	12.60	7.60	4.20	3.20	0.60	1.00	
22	3.60	6.20	8.20	35.25	11.00	15.60	17.00	7.20	4.20	3.00	0.60	0.80	
23	3.20	6.20	7.60	31.00	10.00	11.80	68.50	6.60	4.20	2.80	0.40	0.40	
24	2.80	6.00	7.20	33.50	11.60	10.80	26.20	6.00	4.00	2.80	1.00	0.80	
25	2.40	9.20	6.80	57.10	9.80	10.20	29.00	6.00	4.00	2.80	1.60	1.60	
26	2.40	11.20	6.40	45.00	8.80	11.80	19.80	5.80	4.00	2.80	1.60	0.00	
27	2.80	8.20	6.00	29.00	8.40	22.40	17.60	5.60	4.00	3.40	1.40	7.00	
28	2.40	6.80	6.00	22.00	7.80	16.60	16.00	5.60	3.80	3.00	1.40	6.60	
29	2.00	6.20	9.60	18.80	17.00	19.00	13.80	5.40	3.80	2.80	2.80	2.40	
30	2.00	7.60	6.80	19.60	10.80	18.80	12.60	5.20	3.60	2.80	2.80	2.80	
31		9.60		16.60	9.20		11.80		3.60	2.60		2.00	
Total	199.30	214.40	503.75	868.45	467.05	565.00	1115.50	294.55	133.20	140.80	38.40	46.60	4587.00 CMSDAY
Mean	6.64	6.92	16.79	28.01	15.07	18.83	35.98	9.82	4.30	4.54	1.37	1.50	12.57 CMS
Max	50.50	14.80	137.15	112.00	41.50	54.50	173.20	42.75	5.40	15.60	2.60	7.00	173.20 CMS
Min	1.60	1.20	6.00	4.60	7.80	8.80	11.80	5.20	3.60	2.60	0.00	0.00	0.00 CMS
Runoff	17.22	18.52	43.52	75.03	40.35	48.82	96.38	25.45	11.51	12.17	3.32	4.03	396.32 MCM
Momentary Peak	177.75 CMS. at 14.05 m. (MSL.) at 15.00 Hours , on Oct 3 , 2009												
Runoff Yield	13.28 Liters/Second/Square KM.			Momentary Peak Yield				187.896 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Khlong Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

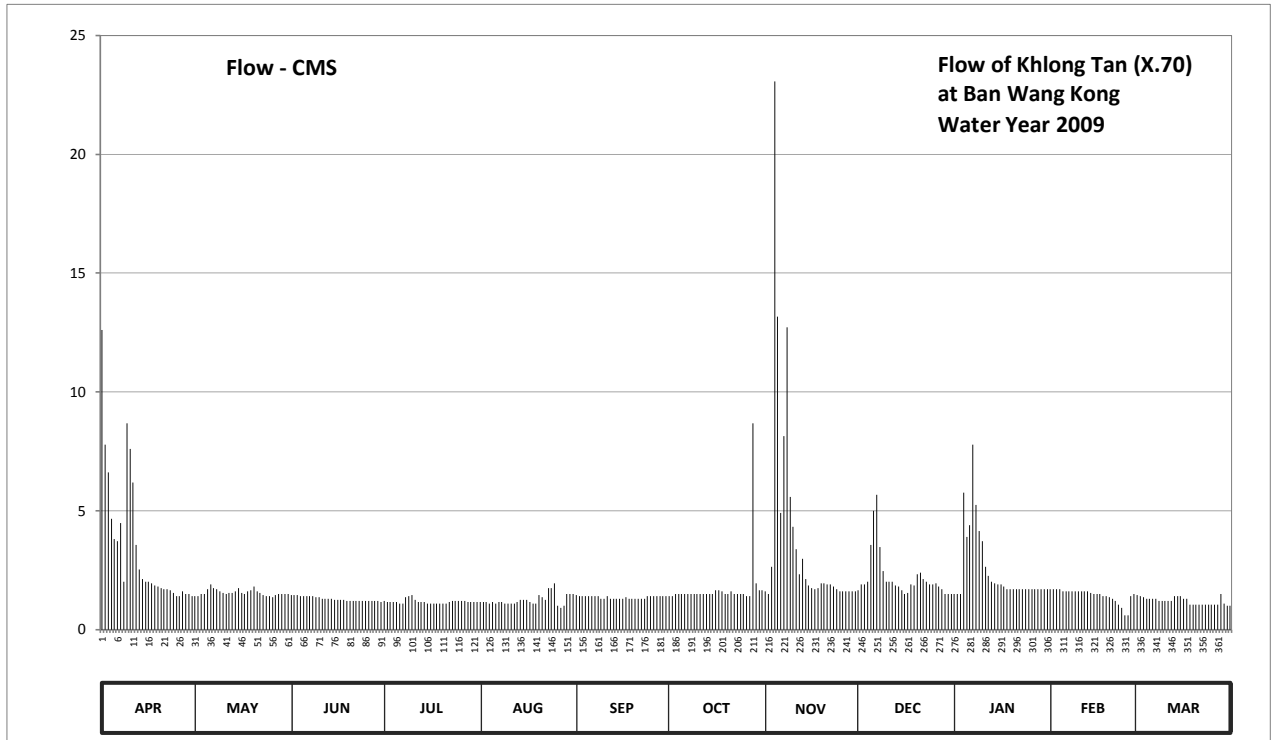
Lat 08 - 25 - 34 N Long 99 - 51 - 47 E

Location : on left bank upstream side of the bridge.

	Ban Wang Kong	Amphoe Mueang	Changwat Nakhon Si Thammarat
Drainage Area	36 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.	Elevation	+21.985 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 means of 5 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 - 1971 , 1980 , 1989 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1971 , 1980 , 1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.21	15.88	15.89	15.84	15.83	15.89	15.88	15.92	15.93	15.90	15.94	15.89	
2	16.72	15.88	15.89	15.83	15.83	15.88	15.88	15.90	15.98	15.90	15.94	15.88	
3	16.59	15.90	15.89	15.83	15.83	15.88	15.90	16.10	15.98	15.90	15.94	15.87	
4	16.36	15.90	15.88	15.83	15.82	15.88	15.90	17.96	16.00	16.49	15.94	15.86	
5	16.26	15.94	15.88	15.83	15.83	15.88	15.90	17.26	16.23	16.27	15.92	15.86	
6	16.25	15.98	15.88	15.82	15.82	15.88	15.90	16.39	16.40	16.33	15.92	15.86	
7	16.34	15.95	15.88	15.82	15.83	15.88	15.90	16.76	16.48	16.72	15.92	15.86	
8	16.00	15.94	15.88	15.87	15.83	15.88	15.90	17.22	16.22	16.43	15.92	15.84	
9	16.82	15.92	15.87	15.88	15.82	15.86	15.90	16.47	16.07	16.30	15.92	15.84	
10	16.70	15.91	15.87	15.89	15.82	15.86	15.90	16.32	16.00	16.25	15.92	15.84	
11	16.54	15.90	15.86	15.85	15.82	15.88	15.90	16.21	16.00	16.10	15.92	15.84	
12	16.23	15.91	15.86	15.83	15.82	15.86	15.90	16.05	16.00	16.04	15.92	15.84	
13	16.08	15.91	15.86	15.83	15.83	15.86	15.90	16.15	15.97	16.00	15.92	15.88	
14	16.02	15.92	15.86	15.83	15.85	15.86	15.90	16.02	15.96	15.99	15.91	15.88	
15	16.00	15.95	15.85	15.82	15.85	15.86	15.90	15.97	15.93	15.98	15.90	15.88	
16	16.00	15.91	15.85	15.82	15.85	15.86	15.93	15.95	15.90	15.98	15.90	15.86	
17	15.99	15.90	15.85	15.82	15.83	15.87	15.93	15.94	15.91	15.96	15.90	15.86	
18	15.97	15.92	15.85	15.82	15.82	15.86	15.92	15.95	15.98	15.94	15.88	15.81	
19	15.96	15.93	15.84	15.82	15.82	15.86	15.90	15.99	15.97	15.94	15.88	15.81	
20	15.95	15.96	15.84	15.82	15.89	15.86	15.90	15.99	16.05	15.94	15.87	15.81	
21	15.94	15.92	15.84	15.82	15.87	15.86	15.92	15.98	16.06	15.94	15.86	15.81	
22	15.94	15.91	15.84	15.83	15.85	15.86	15.90	15.98	16.02	15.94	15.84	15.81	
23	15.93	15.89	15.84	15.84	15.95	15.86	15.90	15.96	16.00	15.94	15.81	15.81	
24	15.91	15.88	15.84	15.84	15.95	15.88	15.90	15.94	15.98	15.94	15.78	15.81	
25	15.88	15.88	15.84	15.84	15.99	15.88	15.90	15.92	15.98	15.94	15.72	15.81	
26	15.88	15.87	15.84	15.84	15.80	15.88	15.88	15.92	15.99	15.94	15.72	15.81	
27	15.92	15.89	15.84	15.84	15.78	15.88	15.88	15.92	15.96	15.94	15.88	15.81	
28	15.90	15.90	15.84	15.83	15.80	15.88	16.82	15.92	15.94	15.94	15.90	15.90	
29	15.90	15.90	15.84	15.83	15.90	15.88	15.99	15.92	15.90	15.94		15.82	
30	15.88	15.90	15.83	15.83	15.90	15.88	15.93	15.92	15.90	15.94		15.80	
31		15.90		15.83	15.90		15.93		15.90	15.94		15.80	
Mean	16.17	15.91	15.86	15.83	15.85	15.87	15.94	16.20	16.02	16.05	15.89	15.84	
Max	17.21	15.98	15.89	15.89	15.99	15.89	16.82	17.96	16.48	16.72	15.94	15.90	17.96
Min	15.88	15.87	15.83	15.82	15.78	15.86	15.88	15.90	15.90	15.90	15.72	15.80	15.72
Annual Max Momentary Gage Height	19.70		m. (MSL.) ,				at 18.00 Hours , on Nov 4 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	15.48		m. (MSL)				
Left Bank Elevation		22.07		m. (MSL.) ,									
Right Bank Elevation		22.07		m. (MSL.) ,		Drainage Area	36		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.61	1.40	1.45	1.20	1.15	1.45	1.40	1.60	1.65	1.50	1.70	1.45	
2	7.78	1.40	1.45	1.15	1.15	1.40	1.40	1.50	1.90	1.50	1.70	1.40	
3	6.61	1.50	1.45	1.15	1.15	1.40	1.50	2.65	1.90	1.50	1.70	1.35	
4	4.66	1.50	1.40	1.15	1.10	1.40	1.50	23.06	2.00	5.76	1.70	1.30	
5	3.81	1.70	1.40	1.15	1.15	1.40	1.50	13.16	3.55	3.89	1.60	1.30	
6	3.72	1.90	1.40	1.10	1.10	1.40	1.50	4.91	5.00	4.40	1.60	1.30	
7	4.49	1.75	1.40	1.10	1.15	1.40	1.50	8.14	5.68	7.78	1.60	1.30	
8	2.00	1.70	1.40	1.35	1.15	1.40	1.50	12.72	3.47	5.25	1.60	1.20	
9	8.68	1.60	1.35	1.40	1.10	1.30	1.50	5.59	2.45	4.15	1.60	1.20	
10	7.60	1.55	1.35	1.45	1.10	1.30	1.50	4.32	2.00	3.72	1.60	1.20	
11	6.19	1.50	1.30	1.25	1.10	1.40	1.50	3.38	2.00	2.65	1.60	1.20	
12	3.55	1.55	1.30	1.15	1.10	1.30	1.50	2.32	2.00	2.26	1.60	1.20	
13	2.52	1.55	1.30	1.15	1.15	1.30	1.50	2.97	1.85	2.00	1.60	1.40	
14	2.13	1.60	1.30	1.15	1.25	1.30	1.50	2.13	1.80	1.95	1.55	1.40	
15	2.00	1.75	1.25	1.10	1.25	1.30	1.50	1.85	1.65	1.90	1.50	1.40	
16	2.00	1.55	1.25	1.10	1.25	1.30	1.65	1.75	1.50	1.90	1.50	1.30	
17	1.95	1.50	1.25	1.10	1.15	1.35	1.65	1.70	1.55	1.80	1.50	1.30	
18	1.85	1.60	1.25	1.10	1.10	1.30	1.60	1.75	1.90	1.70	1.40	1.05	
19	1.80	1.65	1.20	1.10	1.10	1.30	1.50	1.95	1.85	1.70	1.40	1.05	
20	1.75	1.80	1.20	1.10	1.45	1.30	1.50	1.95	2.32	1.70	1.35	1.05	
21	1.70	1.60	1.20	1.10	1.35	1.30	1.60	1.90	2.39	1.70	1.30	1.05	
22	1.70	1.55	1.20	1.15	1.25	1.30	1.50	1.90	2.13	1.70	1.20	1.05	
23	1.65	1.45	1.20	1.20	1.75	1.30	1.50	1.80	2.00	1.70	1.05	1.05	
24	1.55	1.40	1.20	1.20	1.75	1.40	1.50	1.70	1.90	1.70	0.90	1.05	
25	1.40	1.40	1.20	1.20	1.95	1.40	1.50	1.60	1.90	1.70	0.60	1.05	
26	1.40	1.35	1.20	1.20	1.00	1.40	1.40	1.60	1.95	1.70	0.60	1.05	
27	1.60	1.45	1.20	1.20	0.90	1.40	1.40	1.60	1.80	1.70	1.40	1.05	
28	1.50	1.50	1.20	1.15	1.00	1.40	8.68	1.60	1.70	1.70	1.50	1.50	
29	1.50	1.50	1.20	1.15	1.50	1.40	1.95	1.60	1.50	1.70	1.40	1.10	
30	1.40	1.50	1.15	1.15	1.50	1.40	1.65	1.60	1.50	1.70	1.40	1.00	
31		1.50		1.15	1.50		1.65		1.50	1.70		1.00	
Total	103.10	48.25	38.60	36.35	38.65	40.70	54.53	116.30	68.29	77.71	39.95	37.30	699.73 CMSDAY
Mean	3.44	1.56	1.29	1.17	1.25	1.36	1.76	3.88	2.20	2.51	1.43	1.20	1.92 CMS
Max	12.61	1.90	1.45	1.45	1.95	1.45	8.68	23.06	5.68	7.78	1.70	1.50	23.06 CMS
Min	1.40	1.35	1.15	1.10	0.90	1.30	1.40	1.50	1.50	1.50	0.60	1.00	0.60 CMS
Runoff	8.91	4.17	3.34	3.14	3.34	3.52	4.71	10.05	5.90	6.71	3.45	3.22	60.46 MCM
Momentary Peak	71.50 CMS. at 19.70 m. (MSL.) at 18.00 Hours , on Nov 4 , 2009												
Runoff Yield	52.55 Liters/Second/Square KM. Momentary Peak Yield 1959.978 Liters/Second/Square KM.												

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Khlong Takhian at Ban Nai Thon , Surat Thani (X.103)

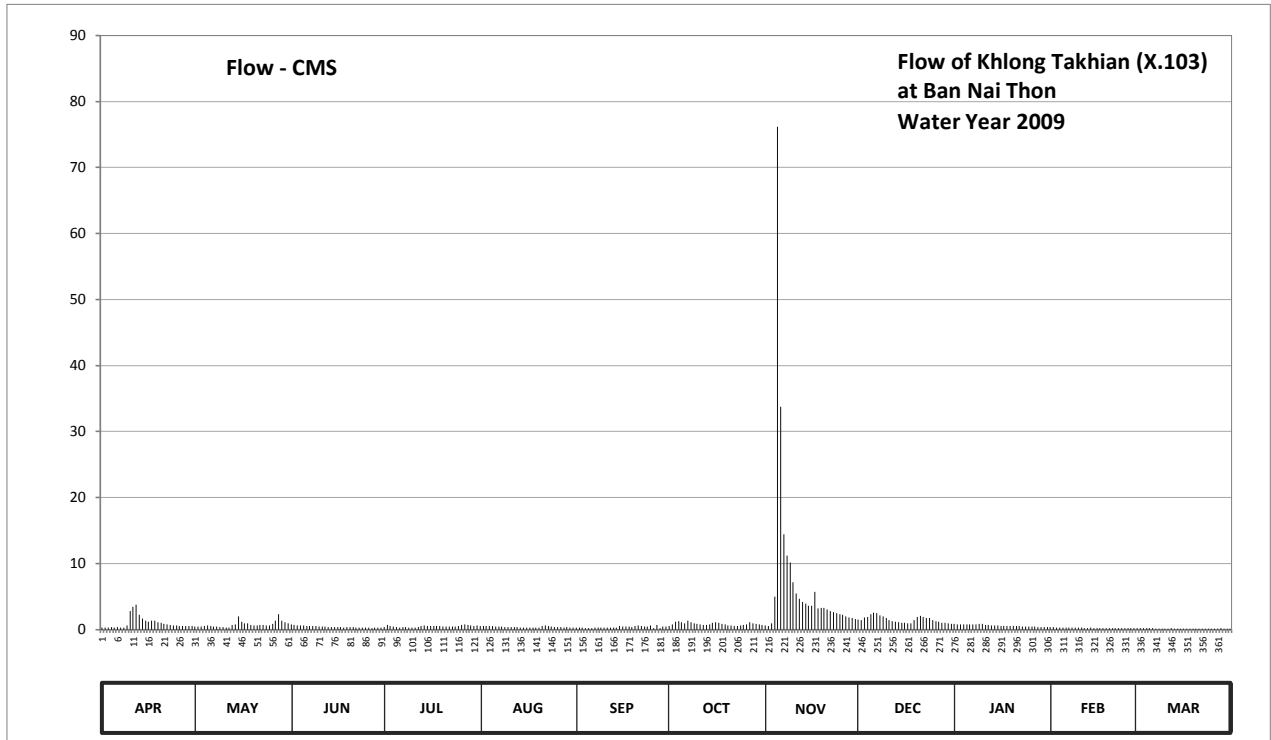
Lat 09 - 25 - 31 N Long 99 - 09 - 42 E

Location : on left bank at Ban Nai Thon.

	Ban Nai Thon	Amphoe Chaiya	Changwat Surat Thani
Drainage Area	179	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 35 meters from the top staff gage.		Elevation +14.744 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 means of 5 readings		
Period of Available Gage Records	1978 to date		
Rating Operation			
Period of Rating	1978 to date		
Rated by Flot	-		
Rated by Current Meter	1978 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.85	7.97	8.20	7.91	8.04	7.87	8.02	8.08	8.48	8.22	7.89	7.80	
2	7.87	7.95	8.13	8.11	8.01	7.85	8.16	8.04	8.45	8.20	7.90	7.79	
3	7.86	7.95	8.10	8.02	8.01	7.84	8.38	8.28	8.55	8.18	7.87	7.78	
4	7.89	8.01	8.09	7.94	8.00	7.83	8.41	9.27	8.58	8.18	7.87	7.78	
5	7.87	8.08	8.07	7.90	8.00	7.81	8.33	12.52	8.68	8.19	7.85	7.77	
6	7.89	8.04	8.04	7.88	7.98	7.83	8.25	11.11	8.73	8.19	7.85	7.77	
7	7.87	7.99	8.02	7.91	7.96	7.85	8.43	10.16	8.71	8.16	7.85	7.76	
8	7.87	7.94	8.00	7.89	7.95	7.85	8.35	9.93	8.64	8.20	7.84	7.75	
9	8.07	7.91	8.00	7.88	7.93	7.85	8.28	9.84	8.60	8.23	7.84	7.76	
10	8.79	7.89	7.99	7.87	7.93	7.85	8.21	9.56	8.53	8.22	7.84	7.76	
11	8.95	7.87	7.96	7.85	7.92	7.85	8.16	9.35	8.46	8.15	7.84	7.76	
12	9.03	7.87	7.94	7.90	7.91	7.85	8.13	9.22	8.41	8.11	7.83	7.78	
13	8.66	8.14	7.93	8.04	7.91	7.84	8.12	9.13	8.38	8.09	7.83	7.76	
14	8.51	8.19	7.91	8.08	7.88	7.88	8.20	9.07	8.35	8.07	7.87	7.76	
15	8.43	8.59	7.90	8.04	7.87	8.00	8.31	9.00	8.32	8.05	7.81	7.76	
16	8.37	8.40	7.90	8.00	7.88	7.98	8.34	9.00	8.29	8.04	7.78	7.75	
17	8.43	8.25	7.89	8.00	7.87	7.97	8.32	9.39	8.27	8.02	7.80	7.75	
18	8.43	8.26	7.88	8.01	7.85	7.97	8.24	8.90	8.27	8.04	7.80	7.75	
19	8.35	8.11	7.89	8.02	7.84	7.92	8.16	8.91	8.45	8.03	7.79	7.75	
20	8.30	8.08	7.89	7.96	7.87	8.03	8.10	8.91	8.58	8.03	7.79	7.75	
21	8.23	8.10	7.89	7.95	8.03	8.05	8.07	8.85	8.61	8.02	7.79	7.75	
22	8.18	8.11	7.87	7.95	8.06	8.03	8.04	8.80	8.57	8.00	7.79	7.75	
23	8.14	8.11	7.85	7.97	8.03	7.98	8.02	8.76	8.54	7.99	7.78	7.75	
24	8.10	8.09	7.86	7.97	7.97	7.96	8.06	8.72	8.53	7.98	7.79	7.74	
25	8.07	8.05	7.85	8.00	7.92	8.08	8.12	8.68	8.46	7.96	7.79	7.74	
26	8.04	8.21	7.84	8.11	7.91	7.83	8.17	8.65	8.41	7.95	7.80	7.74	
27	8.02	8.43	7.83	8.19	7.89	8.13	8.33	8.60	8.37	7.94	7.80	7.74	
28	8.03	8.68	7.85	8.14	7.88	7.83	8.27	8.56	8.32	7.93	7.81	7.77	
29	8.01	8.44	7.85	8.08	7.92	7.95	8.21	8.53	8.30	7.93		7.74	
30	8.00	8.34	7.85	8.04	7.88	7.95	8.17	8.50	8.27	7.92		7.73	
31		8.26		8.05	7.88		8.12		8.24	7.89		7.73	
Mean	8.20	8.14	7.94	7.99	7.93	7.92	8.21	9.14	8.46	8.07	7.82	7.76	
Max	9.03	8.68	8.20	8.19	8.06	8.13	8.43	12.52	8.73	8.23	7.90	7.80	12.52
Min	7.85	7.87	7.83	7.85	7.84	7.81	8.02	8.04	8.24	7.89	7.78	7.73	7.73
Annual Max Momentary Gage Height	12.70		m. (MSL.) ,				at 12.00 Hours , on Nov 5 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	7.09		m. (MSL)				
Left Bank Elevation		16.42		m. (MSL.) ,									
Right Bank Elevation		16.4		m. (MSL.) ,		Drainage Area	179		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.45	0.80	0.36	0.56	0.30	0.53	0.62	1.52	0.84	0.33	0.20	
2	0.30	0.42	0.70	0.66	0.52	0.27	0.74	0.56	1.40	0.80	0.35	0.19	
3	0.29	0.42	0.65	0.53	0.52	0.26	1.16	0.96	1.80	0.77	0.30	0.18	
4	0.33	0.52	0.64	0.41	0.50	0.24	1.24	4.96	1.92	0.77	0.30	0.18	
5	0.30	0.62	0.60	0.35	0.50	0.21	1.06	76.20	2.32	0.78	0.27	0.17	
6	0.33	0.56	0.56	0.32	0.47	0.24	0.90	33.75	2.52	0.78	0.27	0.17	
7	0.30	0.48	0.53	0.36	0.44	0.27	1.32	14.40	2.44	0.74	0.27	0.16	
8	0.30	0.41	0.50	0.33	0.42	0.27	1.10	11.20	2.16	0.80	0.26	0.15	
9	0.60	0.36	0.50	0.32	0.39	0.27	0.96	10.16	2.00	0.86	0.26	0.16	
10	2.76	0.33	0.48	0.30	0.39	0.27	0.82	7.16	1.72	0.84	0.26	0.16	
11	3.40	0.30	0.44	0.27	0.38	0.27	0.74	5.48	1.44	0.72	0.26	0.16	
12	3.73	0.30	0.41	0.35	0.36	0.27	0.70	4.63	1.24	0.66	0.24	0.18	
13	2.24	0.71	0.39	0.56	0.36	0.26	0.68	4.19	1.16	0.64	0.24	0.16	
14	1.64	0.78	0.36	0.62	0.32	0.32	0.80	3.91	1.10	0.60	0.30	0.16	
15	1.32	1.96	0.35	0.56	0.30	0.50	1.02	3.60	1.04	0.58	0.21	0.16	
16	1.14	1.20	0.35	0.50	0.32	0.47	1.08	3.60	0.98	0.56	0.18	0.15	
17	1.32	0.90	0.33	0.50	0.30	0.45	1.04	5.74	0.94	0.53	0.20	0.15	
18	1.32	0.92	0.32	0.52	0.27	0.45	0.88	3.20	0.94	0.56	0.20	0.15	
19	1.10	0.66	0.33	0.53	0.26	0.38	0.74	3.24	1.40	0.54	0.19	0.15	
20	1.00	0.62	0.33	0.44	0.30	0.54	0.65	3.24	1.92	0.54	0.19	0.15	
21	0.86	0.65	0.33	0.42	0.54	0.58	0.60	3.00	2.04	0.53	0.19	0.15	
22	0.77	0.66	0.30	0.42	0.59	0.54	0.56	2.80	1.88	0.50	0.19	0.15	
23	0.71	0.66	0.27	0.45	0.54	0.47	0.53	2.64	1.76	0.48	0.18	0.15	
24	0.65	0.64	0.29	0.45	0.45	0.44	0.59	2.48	1.72	0.47	0.19	0.14	
25	0.60	0.58	0.27	0.50	0.38	0.62	0.68	2.32	1.44	0.44	0.19	0.14	
26	0.56	0.82	0.26	0.66	0.36	0.24	0.76	2.20	1.24	0.42	0.20	0.14	
27	0.53	1.32	0.24	0.78	0.33	0.70	1.06	2.00	1.14	0.41	0.20	0.14	
28	0.54	2.32	0.27	0.71	0.32	0.24	0.94	1.84	1.04	0.39	0.21	0.17	
29	0.52	1.36	0.27	0.62	0.38	0.42	0.82	1.72	1.00	0.39	0.21	0.14	
30	0.50	1.08	0.27	0.56	0.32	0.42	0.76	1.60	0.94	0.38	0.21	0.13	
31		0.92		0.58	0.32		0.68		0.88	0.33		0.13	
Total	30.23	23.93	12.34	14.94	12.41	11.18	26.14	223.40	47.04	18.65	6.63	4.87	431.76 CMSDAY
Mean	1.01	0.77	0.41	0.48	0.40	0.37	0.84	7.45	1.52	0.60	0.24	0.16	1.18 CMS
Max	3.73	2.32	0.80	0.78	0.59	0.70	1.32	76.20	2.52	0.86	0.35	0.20	76.20 CMS
Min	0.27	0.30	0.24	0.27	0.26	0.21	0.53	0.56	0.88	0.33	0.18	0.13	0.13 CMS
Runoff	2.61	2.07	1.07	1.29	1.07	0.97	2.26	19.30	4.06	1.61	0.57	0.42	37.30 MCM
Momentary Peak	82.50 CMS. at 12.70 m. (MSL.) at 12.00 Hours , on Nov 5 , 2009												
Runoff Yield	6.61 Liters/Second/Square KM.			Momentary Peak Yield			460.894 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

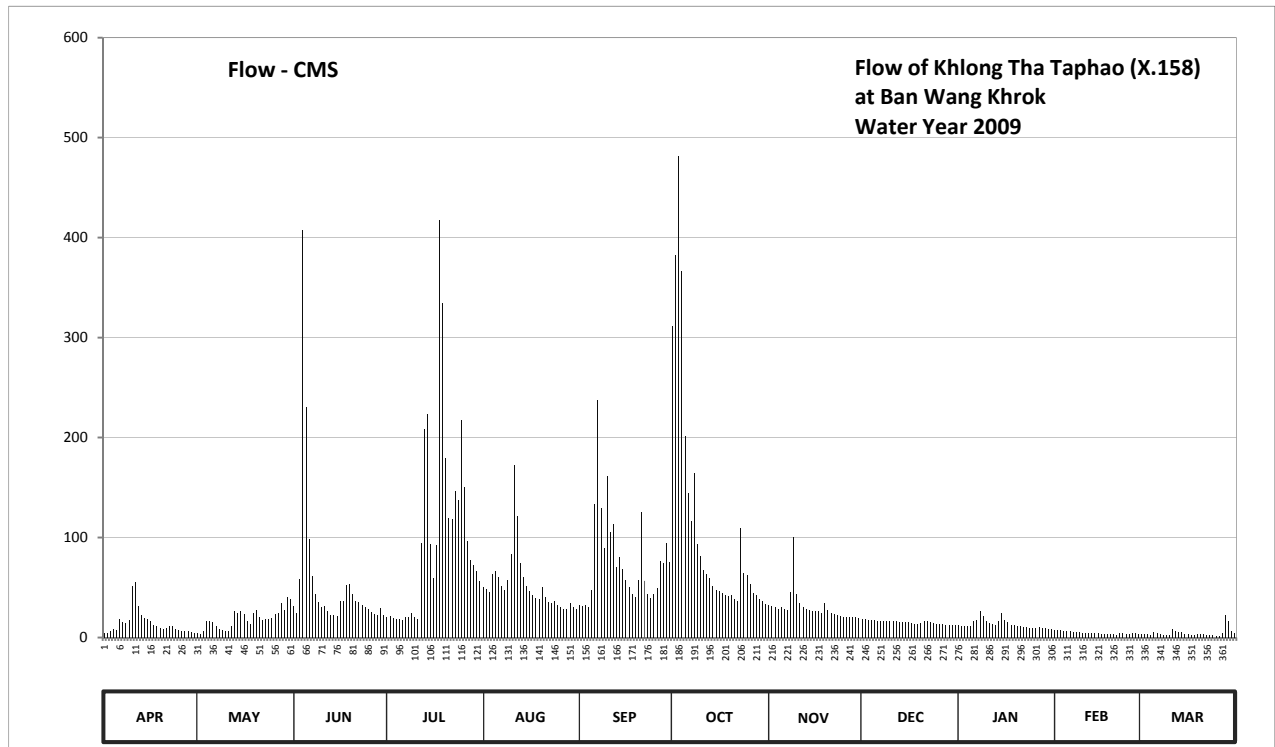
Lat 10 - 35 - 34 N Long 99 - 08 - 43 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

	Ban	Wang Khrok	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	1,814	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 1 meters from the top staff gage.				Elevation	+11.796 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 means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
Rated by Current Meter	1990 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 45 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.10	3.09	3.75	3.53	4.12	3.77	7.69	3.76	3.47	3.33	3.22	3.04	
2	3.10	3.06	3.60	3.54	4.08	3.74	8.48	3.74	3.47	3.32	3.20	3.04	
3	3.19	3.17	4.27	3.50	4.03	3.78	9.55	3.72	3.46	3.32	3.20	3.04	
4	3.23	3.43	8.76	3.47	4.36	3.73	8.30	3.70	3.45	3.30	3.19	3.03	
5	3.20	3.44	6.73	3.47	4.40	4.06	6.37	3.72	3.45	3.31	3.18	3.13	
6	3.47	3.40	4.95	3.45	4.30	5.45	5.61	3.68	3.44	3.42	3.17	3.08	
7	3.41	3.30	4.32	3.51	4.14	6.81	5.20	3.66	3.43	3.45	3.15	3.04	
8	3.38	3.24	3.99	3.51	4.06	5.40	5.89	4.02	3.43	3.65	3.15	3.02	
9	3.45	3.21	3.82	3.62	4.24	4.81	4.87	4.98	3.43	3.55	3.13	3.00	
10	4.13	3.16	3.72	3.51	4.70	5.85	4.67	3.98	3.42	3.43	3.12	3.00	
11	4.21	3.17	3.74	3.48	5.99	5.05	4.43	3.80	3.42	3.39	3.11	3.24	
12	3.75	3.32	3.65	4.88	5.28	5.17	4.35	3.73	3.42	3.37	3.11	3.18	
13	3.57	3.65	3.57	6.45	4.55	4.48	4.28	3.69	3.41	3.34	3.10	3.15	
14	3.50	3.60	3.57	6.64	4.29	4.65	4.14	3.66	3.41	3.42	3.10	3.13	
15	3.47	3.64	3.55	4.87	4.14	4.44	4.07	3.65	3.41	3.62	3.08	3.06	
16	3.43	3.58	3.86	4.28	4.04	4.25	4.04	3.64	3.40	3.45	3.07	3.04	
17	3.34	3.43	3.86	4.86	3.96	4.11	4.00	3.65	3.39	3.41	3.06	3.02	
18	3.30	3.36	4.15	8.87	3.90	3.98	3.97	3.62	3.37	3.35	3.06	3.02	
19	3.26	3.60	4.18	7.95	3.89	3.93	3.95	3.81	3.37	3.33	3.05	3.07	
20	3.24	3.67	3.99	6.08	4.12	4.25	3.97	3.66	3.39	3.30	3.04	3.07	
21	3.26	3.51	3.85	5.25	3.93	5.33	3.88	3.61	3.44	3.30	3.03	3.04	
22	3.30	3.45	3.82	5.23	3.82	4.23	3.85	3.58	3.44	3.29	3.10	3.01	
23	3.31	3.48	3.76	5.64	3.80	3.99	5.11	3.56	3.41	3.28	3.10	3.00	
24	3.25	3.47	3.72	5.50	3.85	3.90	4.37	3.55	3.38	3.27	3.06	3.00	
25	3.21	3.50	3.69	6.57	3.77	3.98	4.33	3.53	3.37	3.26	3.07	2.99	
26	3.18	3.58	3.63	5.69	3.73	4.10	4.17	3.53	3.36	3.26	3.09	2.97	
27	3.16	3.61	3.59	4.91	3.70	4.60	4.01	3.52	3.36	3.29	3.08	3.10	
28	3.17	3.80	3.56	4.61	3.68	4.56	3.96	3.51	3.35	3.27	3.07	3.56	
29	3.14	3.67	3.71	4.51	3.81	4.88	3.88	3.51	3.35	3.27		3.42	
30	3.10	3.93	3.57	4.40	3.73	4.57	3.84	3.49	3.34	3.25		3.18	
31		3.89		4.22	3.68		3.79		3.33	3.23		3.12	
Mean	3.36	3.46	4.10	4.84	4.13	4.53	4.94	3.71	3.41	3.36	3.11	3.09	
Max	4.21	3.93	8.76	8.87	5.99	6.81	9.55	4.98	3.47	3.65	3.22	3.56	9.55
Min	3.10	3.06	3.55	3.45	3.68	3.73	3.79	3.49	3.33	3.23	3.03	2.97	2.97
Annual Max Momentary Gage Height	9.60		m. (MSL.) ,				at 12.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	0.62	m. (MSL)					
Left Bank Elevation	14.50		m. (MSL.) ,										
Right Bank Elevation	14.45		m. (MSL.) ,			Drainage Area	1814	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.50	4.25	31.50	20.85	50.60	32.50	311.10	32.00	18.15	12.20	7.80	3.00	
2	4.50	3.50	24.00	21.30	48.40	31.00	382.20	31.00	18.15	11.80	7.00	3.00	
3	6.75	6.25	58.85	19.50	45.65	33.00	481.25	30.00	17.70	11.80	7.00	3.00	
4	8.20	16.35	407.40	18.15	63.80	30.50	366.00	29.00	17.25	11.00	6.75	2.75	
5	7.00	16.80	230.40	18.15	66.00	47.30	201.60	30.00	17.25	11.40	6.50	5.25	
6	18.15	15.00	98.75	17.25	60.50	133.50	144.70	28.00	16.80	15.90	6.25	4.00	
7	15.45	11.00	61.60	19.95	51.70	236.80	116.00	27.00	16.35	17.25	5.75	3.00	
8	14.20	8.60	43.50	19.95	47.30	130.00	164.75	45.10	16.35	26.50	5.75	2.50	
9	17.25	7.40	35.00	25.00	57.20	89.65	93.55	100.70	16.35	21.75	5.25	2.00	
10	51.15	6.00	30.00	19.95	83.00	161.75	81.20	43.00	15.90	16.35	5.00	2.00	
11	55.55	6.25	31.00	18.60	172.25	105.50	67.65	34.00	15.90	14.60	4.75	8.60	
12	31.50	11.80	26.50	94.20	121.60	113.90	63.25	30.50	15.90	13.80	4.75	6.50	
13	22.65	26.50	22.65	208.00	74.25	70.40	59.40	28.50	15.45	12.60	4.50	5.75	
14	19.50	24.00	22.65	223.20	59.95	80.00	51.70	27.00	15.45	15.90	4.50	5.25	
15	18.15	26.00	21.75	93.55	51.70	68.20	47.85	26.50	15.45	25.00	4.00	3.50	
16	16.35	23.10	37.00	59.40	46.20	57.75	46.20	26.00	15.00	17.25	3.75	3.00	
17	12.60	16.35	37.00	92.90	42.00	50.05	44.00	26.50	14.60	15.45	3.50	2.50	
18	11.00	13.40	52.25	417.30	39.00	43.00	42.50	25.00	13.80	13.00	3.50	2.50	
19	9.40	24.00	53.90	334.50	38.50	40.50	41.50	34.50	13.80	12.20	3.25	3.75	
20	8.60	27.50	43.50	179.00	50.60	57.75	42.50	27.00	14.60	11.00	3.00	3.75	
21	9.40	19.95	36.50	119.50	40.50	125.10	38.00	24.50	16.80	11.00	2.75	3.00	
22	11.00	17.25	35.00	118.10	35.00	56.65	36.50	23.10	16.80	10.60	4.50	2.25	
23	11.40	18.60	32.00	146.80	34.00	43.50	109.70	22.20	15.45	10.20	4.50	2.00	
24	9.00	18.15	30.00	137.00	36.50	39.00	64.35	21.75	14.20	9.80	3.50	2.00	
25	7.40	19.50	28.50	217.60	32.50	43.00	62.15	20.85	13.80	9.40	3.75	1.90	
26	6.50	23.10	25.50	150.30	30.50	49.50	53.35	20.85	13.40	9.40	4.25	1.70	
27	6.00	24.50	23.55	96.15	29.00	77.00	44.55	20.40	13.40	10.60	4.00	4.50	
28	6.25	34.00	22.20	77.60	28.00	74.80	42.00	19.95	13.00	9.80	3.75	22.20	
29	5.50	27.50	29.50	72.05	34.50	94.20	38.00	19.95	13.00	9.80		15.90	
30	4.50	40.50	22.65	66.00	30.50	75.35	36.00	19.05	12.60	9.00		6.50	
31		38.50		56.10	28.00		33.50		12.20	8.20		5.00	
Total	429.40	575.60	1654.60	3177.90	1629.20	2291.15	3407.00	893.90	474.85	414.55	133.55	142.55	15224.25 CMSDAY
Mean	14.31	18.57	55.15	102.51	52.55	76.37	109.90	29.80	15.32	13.37	4.77	4.60	41.71 CMS
Max	55.55	40.50	407.40	417.30	172.25	236.80	481.25	100.70	18.15	26.50	7.80	22.20	481.25 CMS
Min	4.50	3.50	21.75	17.25	28.00	30.50	33.50	19.05	12.20	8.20	2.75	1.70	1.70 CMS
Runoff	37.10	49.73	142.96	274.57	140.76	197.96	294.37	77.23	41.03	35.82	11.54	12.32	1315.38 MCM
Momentary Peak	486.00 CMS. at 9.60 m. (MSL.) at 12.00 Hours , on Oct 3 , 2009												
Runoff Yield	22.99 Liters/Second/Square KM.			Momentary Peak Yield				267.897 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Khlong Nai Khieo at Ban Thon Hong , Nakhon Si Thammarat (X.165)

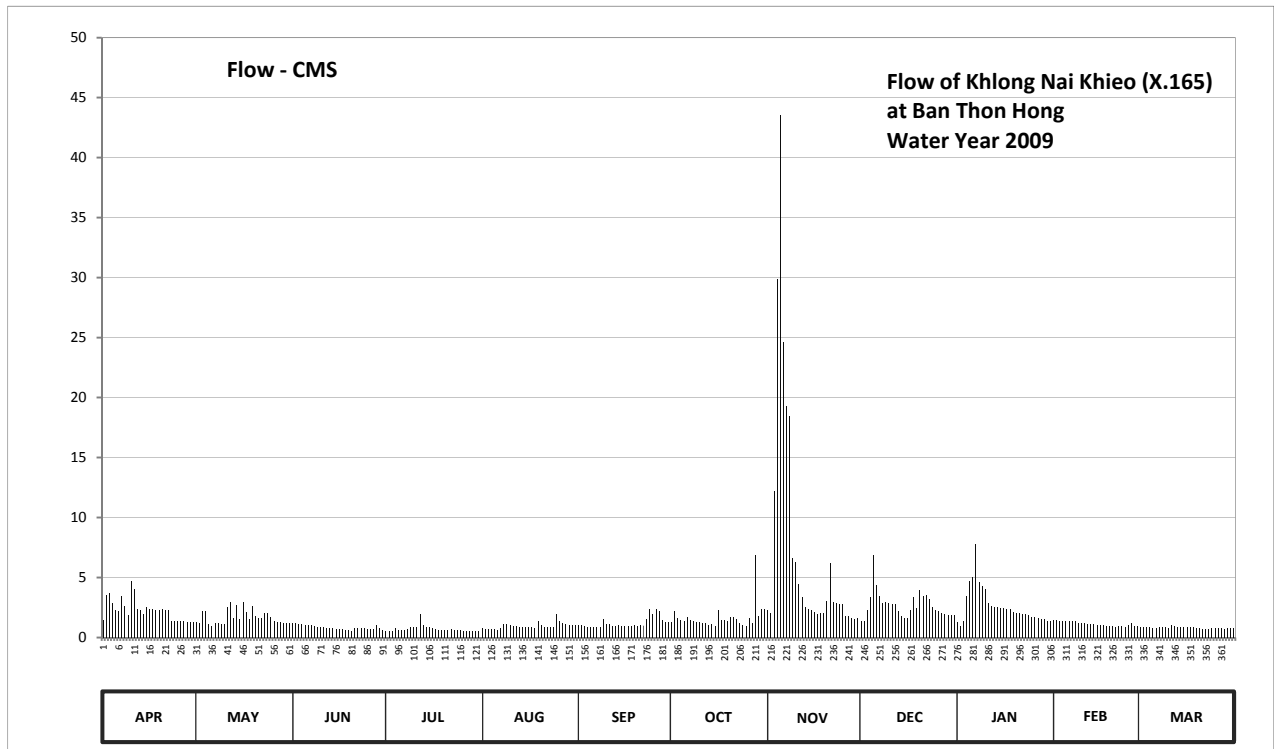
Lat 08 - 33 - 47 N Long 99 - 48 - 59 E

Location : on right bank at Ban Thon Hong.

	Ban Thon Hong	Amphoe Phrom Khiri	Changwat Nakhon Si Thammarat
Drainage Area	25 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 9 meters from the top staff gage.	Elevation	+30.057 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 means of 5 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1986 to date		
Rated by Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.41	21.38	21.37	21.28	21.31	21.35	21.38	21.51	21.40	21.38	21.41	21.33	
2	21.65	21.37	21.37	21.28	21.30	21.35	21.50	21.48	21.39	21.34	21.41	21.32	
3	21.66	21.50	21.36	21.28	21.30	21.34	21.43	22.16	21.51	21.40	21.40	21.32	
4	21.58	21.50	21.36	21.31	21.30	21.33	21.41	22.76	21.63	21.64	21.40	21.32	
5	21.51	21.36	21.35	21.29	21.30	21.33	21.39	23.18	21.91	21.75	21.39	21.31	
6	21.50	21.34	21.35	21.29	21.29	21.33	21.44	22.59	21.72	21.78	21.39	21.31	
7	21.64	21.37	21.35	21.29	21.31	21.32	21.41	22.41	21.64	21.97	21.39	21.32	
8	21.55	21.37	21.34	21.30	21.36	21.32	21.40	22.38	21.58	21.74	21.39	21.32	
9	21.46	21.36	21.32	21.33	21.36	21.42	21.38	21.89	21.59	21.71	21.37	21.32	
10	21.75	21.36	21.32	21.33	21.35	21.36	21.38	21.87	21.58	21.69	21.37	21.31	
11	21.69	21.54	21.32	21.33	21.34	21.36	21.37	21.73	21.57	21.58	21.37	21.35	
12	21.52	21.59	21.31	21.47	21.34	21.34	21.37	21.63	21.57	21.55	21.36	21.34	
13	21.51	21.43	21.31	21.35	21.33	21.34	21.35	21.54	21.50	21.54	21.36	21.32	
14	21.47	21.56	21.31	21.32	21.33	21.35	21.36	21.52	21.45	21.54	21.36	21.32	
15	21.54	21.42	21.30	21.32	21.32	21.34	21.34	21.51	21.43	21.53	21.35	21.32	
16	21.52	21.59	21.30	21.31	21.32	21.34	21.51	21.49	21.43	21.53	21.35	21.32	
17	21.52	21.49	21.30	21.30	21.32	21.34	21.41	21.47	21.51	21.52	21.35	21.32	
18	21.51	21.42	21.29	21.29	21.31	21.34	21.41	21.48	21.63	21.52	21.34	21.32	
19	21.51	21.55	21.29	21.29	21.40	21.35	21.39	21.48	21.53	21.49	21.34	21.31	
20	21.52	21.45	21.28	21.29	21.35	21.34	21.44	21.60	21.68	21.48	21.34	21.31	
21	21.51	21.43	21.31	21.29	21.33	21.35	21.44	21.86	21.64	21.48	21.33	21.30	
22	21.51	21.43	21.31	21.30	21.33	21.34	21.42	21.59	21.65	21.47	21.34	21.30	
23	21.40	21.48	21.31	21.29	21.33	21.42	21.37	21.58	21.62	21.47	21.34	21.30	
24	21.40	21.48	21.31	21.29	21.33	21.52	21.35	21.57	21.54	21.46	21.33	21.31	
25	21.40	21.44	21.30	21.29	21.47	21.47	21.34	21.57	21.51	21.44	21.35	21.31	
26	21.39	21.39	21.30	21.28	21.39	21.52	21.43	21.45	21.50	21.44	21.37	21.31	
27	21.39	21.38	21.30	21.28	21.37	21.50	21.37	21.45	21.48	21.43	21.34	21.31	
28	21.38	21.38	21.35	21.28	21.36	21.41	21.91	21.43	21.47	21.42	21.34	21.30	
29	21.38	21.37	21.31	21.28	21.35	21.38	21.45	21.42	21.46	21.42		21.31	
30	21.38	21.37	21.29	21.28	21.35	21.38	21.52	21.43	21.46	21.40		21.31	
31		21.37		21.28	21.35		21.52		21.46	21.39		21.31	
Mean	21.51	21.43	21.32	21.30	21.34	21.37	21.43	21.77	21.55	21.53	21.36	21.32	
Max	21.75	21.59	21.37	21.47	21.47	21.52	21.91	23.18	21.91	21.97	21.41	21.35	23.18
Min	21.38	21.34	21.28	21.28	21.29	21.32	21.34	21.42	21.39	21.34	21.33	21.30	21.28
Annual Max Momentary Gage Height	23.90		m. (MSL.) ,				at 18.00 Hours , on Nov 4 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	20.91	m. (MSL)					
Left Bank Elevation	31.43		m. (MSL.) ,										
Right Bank Elevation	31.77		m. (MSL.) ,			Drainage Area	25	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.48	1.26	1.19	0.56	0.77	1.05	1.26	2.28	1.40	1.26	1.48	0.91	
2	3.57	1.19	1.19	0.56	0.70	1.05	2.20	2.04	1.33	0.98	1.48	0.84	
3	3.69	2.20	1.12	0.56	0.70	0.98	1.64	12.20	2.28	1.40	1.40	0.84	
4	2.84	2.20	1.12	0.77	0.70	0.91	1.48	29.86	3.34	3.46	1.40	0.84	
5	2.28	1.12	1.05	0.63	0.70	0.91	1.33	43.54	6.90	4.73	1.33	0.77	
6	2.20	0.98	1.05	0.63	0.63	0.91	1.72	24.60	4.38	5.07	1.33	0.77	
7	3.46	1.19	1.05	0.63	0.77	0.84	1.48	19.30	3.46	7.76	1.33	0.84	
8	2.60	1.19	0.98	0.70	1.12	0.84	1.40	18.42	2.84	4.61	1.33	0.84	
9	1.88	1.12	0.84	0.91	1.12	1.56	1.26	6.60	2.92	4.26	1.19	0.84	
10	4.73	1.12	0.84	0.91	1.05	1.12	1.26	6.32	2.84	4.04	1.19	0.77	
11	4.04	2.52	0.84	0.91	0.98	1.12	1.19	4.49	2.76	2.84	1.19	1.05	
12	2.36	2.92	0.77	1.96	0.98	0.98	1.19	3.34	2.76	2.60	1.12	0.98	
13	2.28	1.64	0.77	1.05	0.91	0.98	1.05	2.52	2.20	2.52	1.12	0.84	
14	1.96	2.68	0.77	0.84	0.91	1.05	1.12	2.36	1.80	2.52	1.12	0.84	
15	2.52	1.56	0.70	0.84	0.84	0.98	0.98	2.28	1.64	2.44	1.05	0.84	
16	2.36	2.92	0.70	0.77	0.84	0.98	2.28	2.12	1.64	2.44	1.05	0.84	
17	2.36	2.12	0.70	0.70	0.84	0.98	1.48	1.96	2.28	2.36	1.05	0.84	
18	2.28	1.56	0.63	0.63	0.77	0.98	1.48	2.04	3.34	2.36	0.98	0.84	
19	2.28	2.60	0.63	0.63	1.40	1.05	1.33	2.04	2.44	2.12	0.98	0.77	
20	2.36	1.80	0.56	0.63	1.05	0.98	1.72	3.00	3.92	2.04	0.98	0.77	
21	2.28	1.64	0.77	0.63	0.91	1.05	1.72	6.17	3.46	2.04	0.91	0.70	
22	2.28	1.64	0.77	0.70	0.91	0.98	1.56	2.92	3.57	1.96	0.98	0.70	
23	1.40	2.04	0.77	0.63	0.91	1.56	1.19	2.84	3.23	1.96	0.98	0.70	
24	1.40	2.04	0.77	0.63	0.91	2.36	1.05	2.76	2.52	1.88	0.91	0.77	
25	1.40	1.72	0.70	0.63	1.96	1.96	0.98	2.76	2.28	1.72	1.05	0.77	
26	1.33	1.33	0.70	0.56	1.33	2.36	1.64	1.80	2.20	1.72	1.19	0.77	
27	1.33	1.26	0.70	0.56	1.19	2.20	1.19	1.80	2.04	1.64	0.98	0.77	
28	1.26	1.26	1.05	0.56	1.12	1.48	6.90	1.64	1.96	1.56	0.98	0.70	
29	1.26	1.19	0.77	0.56	1.05	1.26	1.80	1.56	1.88	1.56		0.77	
30	1.26	1.19	0.63	0.56	1.05	1.26	2.36	1.64	1.88	1.40		0.77	
31		1.19		0.56	1.05		2.36		1.88	1.33		0.77	
Total	68.73	52.39	25.13	22.40	30.17	36.72	51.60	217.20	83.37	80.58	32.08	25.06	725.43 CMSDAY
Mean	2.29	1.69	0.84	0.72	0.97	1.22	1.66	7.24	2.69	2.60	1.15	0.81	1.99 CMS
Max	4.73	2.92	1.19	1.96	1.96	2.36	6.90	43.54	6.90	7.76	1.48	1.05	43.54 CMS
Min	1.26	0.98	0.56	0.56	0.63	0.84	0.98	1.56	1.33	0.98	0.91	0.70	0.56 CMS
Runoff	5.94	4.53	2.17	1.94	2.61	3.17	4.46	18.77	7.20	6.96	2.77	2.17	62.68 MCM
Momentary Peak	68.00 CMS. at 23.90 m. (MSL.) at 18.00 Hours , on Nov 4 , 2009												
Runoff Yield	79.50 Liters/Second/Square KM. Momentary Peak Yield 2720.000 Liters/Second/Square KM.												

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

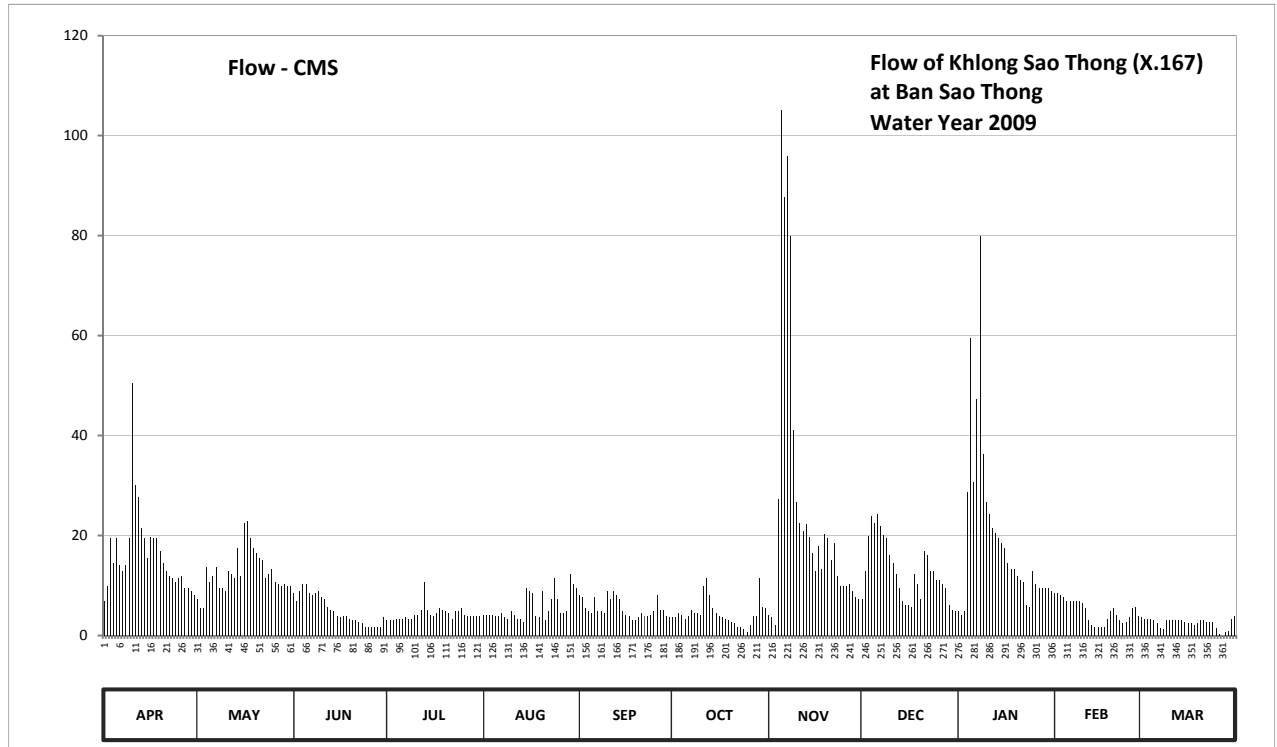
Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

Location : on right bank at the bridge.

	Ban Sao Thong	Amphoe Ron Phibun	Changwat Nakhon Si Thammarat
Drainage Area	252 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 4.50 meters from the top staff gage.		Elevation +12.456 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 means of 5 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.22	8.23	8.26	8.10	8.14	8.25	8.12	8.14	8.23	8.16	8.26	8.12	
2	8.29	8.18	8.22	8.10	8.14	8.24	8.12	8.12	8.36	8.14	8.26	8.11	
3	8.50	8.18	8.27	8.10	8.14	8.18	8.15	8.07	8.57	8.16	8.25	8.11	
4	8.40	8.38	8.30	8.11	8.14	8.16	8.14	9.30	8.99	9.42	8.24	8.11	
5	8.50	8.31	8.30	8.11	8.13	8.15	8.11	11.69	8.84	10.85	8.22	8.10	
6	8.39	8.34	8.26	8.11	8.13	8.24	8.13	11.42	9.04	9.57	8.22	8.08	
7	8.36	8.38	8.25	8.12	8.15	8.16	8.17	11.55	8.79	10.48	8.22	8.05	
8	8.39	8.28	8.26	8.11	8.12	8.16	8.15	11.28	8.62	11.28	8.22	8.04	
9	8.51	8.28	8.27	8.11	8.11	8.15	8.15	10.24	8.50	9.99	8.22	8.10	
10	10.60	8.27	8.24	8.14	8.16	8.27	8.14	9.25	8.43	9.25	8.21	8.10	
11	9.53	8.36	8.23	8.14	8.14	8.23	8.29	8.86	8.40	9.04	8.18	8.10	
12	9.33	8.35	8.19	8.17	8.11	8.27	8.33	8.70	8.35	8.75	8.10	8.10	
13	8.75	8.33	8.17	8.31	8.11	8.25	8.25	8.83	8.28	8.65	8.07	8.10	
14	8.50	8.46	8.16	8.17	8.09	8.23	8.18	8.53	8.22	8.52	8.06	8.10	
15	8.42	8.34	8.13	8.14	8.28	8.16	8.15	8.44	8.20	8.48	8.06	8.09	
16	8.55	8.85	8.12	8.13	8.27	8.14	8.13	8.36	8.20	8.46	8.06	8.08	
17	8.51	8.89	8.13	8.15	8.26	8.13	8.12	8.47	8.19	8.40	8.06	8.08	
18	8.51	8.51	8.13	8.18	8.13	8.10	8.11	8.37	8.35	8.37	8.11	8.07	
19	8.45	8.46	8.11	8.17	8.12	8.10	8.10	8.63	8.30	8.37	8.16	8.08	
20	8.40	8.44	8.10	8.16	8.27	8.12	8.09	8.50	8.23	8.34	8.18	8.10	
21	8.36	8.42	8.10	8.15	8.10	8.15	8.08	8.41	8.45	8.32	8.14	8.10	
22	8.34	8.41	8.09	8.11	8.16	8.13	8.06	8.48	8.43	8.31	8.10	8.09	
23	8.33	8.33	8.08	8.16	8.23	8.13	8.06	8.34	8.36	8.20	8.08	8.09	
24	8.31	8.35	8.06	8.16	8.33	8.14	8.04	8.29	8.36	8.19	8.09	8.09	
25	8.33	8.37	8.06	8.18	8.23	8.16	8.02	8.29	8.32	8.36	8.12	8.05	
26	8.34	8.31	8.06	8.14	8.15	8.25	8.07	8.29	8.32	8.30	8.18	8.01	
27	8.28	8.30	8.06	8.13	8.15	8.17	8.13	8.30	8.30	8.28	8.19	8.00	
28	8.28	8.29	8.06	8.13	8.16	8.17	8.13	8.27	8.28	8.28	8.13	8.02	
29	8.27	8.30	8.06	8.13	8.35	8.13	8.33	8.24	8.20	8.28		8.03	
30	8.25	8.29	8.12	8.13	8.30	8.12	8.19	8.23	8.17	8.28		8.11	
31		8.29		8.13	8.28		8.18		8.16	8.27		8.13	
Mean	8.54	8.37	8.16	8.14	8.18	8.17	8.14	8.93	8.40	8.77	8.16	8.08	
Max	10.60	8.89	8.30	8.31	8.35	8.27	8.33	11.69	9.04	11.28	8.26	8.13	11.69
Min	8.22	8.18	8.06	8.10	8.09	8.10	8.02	8.07	8.16	8.14	8.06	8.00	8.00
Annual Max Momentary Gage Height	11.75		m. (MSL.) ,				at 06.00 Hours , on Nov 5 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	7.68	m. (MSL)					
Left Bank Elevation	14.14		m. (MSL.) ,										
Right Bank Elevation	14.13		m. (MSL.) ,			Drainage Area	252	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.85	7.27	8.55	3.00	4.20	8.13	3.60	4.20	7.27	4.80	8.55	3.60	
2	9.83	5.40	6.85	3.00	4.20	7.70	3.60	3.60	12.80	4.20	8.55	3.30	
3	19.50	5.40	8.98	3.00	4.20	5.40	4.50	2.10	19.85	4.80	8.13	3.30	
4	14.50	13.65	10.25	3.30	4.20	4.80	4.20	27.25	23.90	28.75	7.70	3.30	
5	19.50	10.68	10.25	3.30	3.90	4.50	3.30	105.07	22.40	59.55	6.85	3.00	
6	14.08	11.95	8.55	3.30	3.90	7.70	3.90	87.75	24.40	30.62	6.85	2.40	
7	12.80	13.65	8.13	3.60	4.50	4.80	5.10	95.87	21.90	47.20	6.85	1.50	
8	14.08	9.40	8.55	3.30	3.60	4.80	4.50	79.90	20.20	79.90	6.85	1.20	
9	19.55	9.40	8.98	3.30	3.30	4.50	4.50	41.00	19.50	36.35	6.85	3.00	
10	50.50	8.98	7.70	4.20	4.80	8.98	4.20	26.63	16.00	26.63	6.43	3.00	
11	30.12	12.80	7.27	4.20	4.20	7.27	9.83	22.60	14.50	24.40	5.40	3.00	
12	27.62	12.38	5.70	5.10	3.30	8.98	11.53	21.00	12.38	21.50	3.00	3.00	
13	21.50	11.53	5.10	10.68	3.30	8.13	8.13	22.30	9.40	20.50	2.10	3.00	
14	19.50	17.50	4.80	5.10	2.70	7.27	5.40	19.65	6.85	19.60	1.80	3.00	
15	15.50	11.95	3.90	4.20	9.40	4.80	4.50	16.50	6.00	18.50	1.80	2.70	
16	19.75	22.50	3.60	3.90	8.98	4.20	3.90	12.80	6.00	17.50	1.80	2.40	
17	19.55	22.90	3.90	4.50	8.55	3.90	3.60	18.00	5.70	14.50	1.80	2.40	
18	19.55	19.55	3.90	5.40	3.90	3.00	3.30	13.23	12.38	13.23	3.30	2.10	
19	17.00	17.50	3.30	5.10	3.60	3.00	3.00	20.30	10.25	13.23	4.80	2.40	
20	14.50	16.50	3.00	4.80	8.98	3.60	2.70	19.50	7.27	11.95	5.40	3.00	
21	12.80	15.50	3.00	4.50	3.00	4.50	2.40	15.00	17.00	11.10	4.20	3.00	
22	11.95	15.00	2.70	3.30	4.80	3.90	1.80	18.50	16.00	10.68	3.00	2.70	
23	11.53	11.53	2.40	4.80	7.27	3.90	1.80	11.95	12.80	6.00	2.40	2.70	
24	10.68	12.38	1.80	4.80	11.53	4.20	1.20	9.83	12.80	5.70	2.70	2.70	
25	11.53	13.23	1.80	5.40	7.27	4.80	0.60	9.83	11.10	12.80	3.60	1.50	
26	11.95	10.68	1.80	4.20	4.50	8.13	2.10	9.83	11.10	10.25	5.40	0.30	
27	9.40	10.25	1.80	3.90	4.50	5.10	3.90	10.25	10.25	9.40	5.70	0.00	
28	9.40	9.83	1.80	3.90	4.80	5.10	3.90	8.98	9.40	9.40	3.90	0.60	
29	8.98	10.25	1.80	3.90	12.38	3.90	11.53	7.70	6.00	9.40		0.90	
30	8.13	9.83	3.60	3.90	10.25	3.60	5.70	7.27	5.10	9.40		3.30	
31		9.83		3.90	9.40		5.40		4.80	8.98		3.90	
Total	492.13	389.20	153.76	132.78	177.41	162.59	137.62	768.39	395.30	600.82	135.71	76.20	3621.91 CMSDAY
Mean	16.40	12.55	5.13	4.28	5.72	5.42	4.44	25.61	12.75	19.38	4.85	2.46	9.92 CMS
Max	50.50	22.90	10.25	10.68	12.38	8.98	11.53	105.07	24.40	79.90	8.55	3.90	105.07 CMS
Min	6.85	5.40	1.80	3.00	2.70	3.00	0.60	2.10	4.80	4.20	1.80	0.00	0.00 CMS
Runoff	42.52	33.63	13.29	11.47	15.33	14.05	11.89	66.39	34.15	51.91	11.73	6.58	312.93 MCM
Momentary Peak	109.12 CMS. at 11.75 m. (MSL) at 06.00 Hours , on Nov 5 , 2009												
Runoff Yield	39.38 Liters/Second/Square KM.			Momentary Peak Yield				433.016 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Upper Khlong Chumphon at Ban Tha Mai Lai , Chumphon (X.201A)

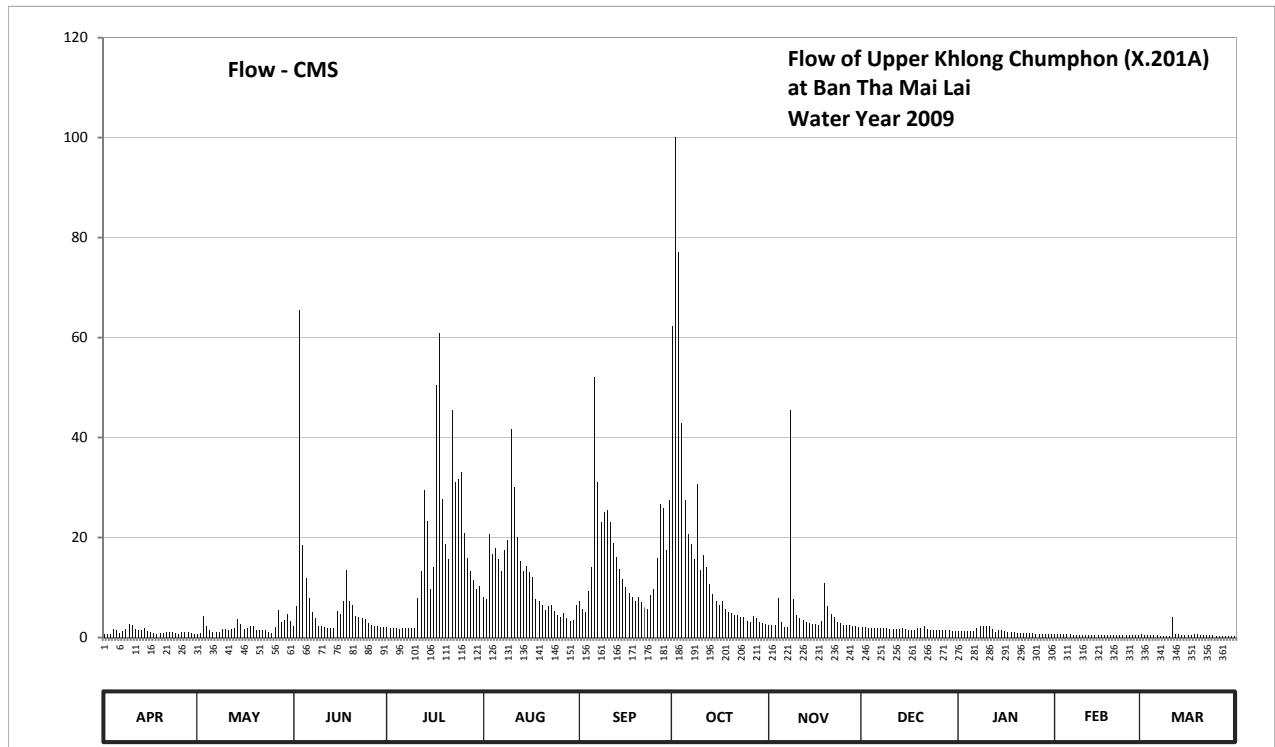
Lat 10 - 30 - 12 N Long 98 - 57 - 52 E

Location : on right bank at the bridge.

	Ban	Tha Mai Lai	Amphoe	Mueang	Changwat	Chumphon
Drainage Area	122	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+42.444 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.18	37.19	37.38	37.35	37.72	37.67	39.35	37.39	37.36	37.26	37.16	37.15	
2	37.18	37.21	37.62	37.33	37.69	37.59	40.08	37.39	37.35	37.25	37.16	37.13	
3	37.17	37.51	39.42	37.33	38.24	37.56	39.66	37.39	37.34	37.25	37.15	37.12	
4	37.30	37.37	38.16	37.32	38.10	37.77	38.89	37.70	37.34	37.26	37.15	37.11	
5	37.27	37.27	37.90	37.31	38.14	38.00	38.46	37.43	37.33	37.25	37.15	37.11	
6	37.21	37.24	37.70	37.32	38.06	39.12	38.24	37.36	37.33	37.25	37.15	37.10	
7	37.26	37.24	37.56	37.32	37.97	38.57	38.17	37.35	37.32	37.33	37.14	37.09	
8	37.30	37.23	37.48	37.33	38.13	38.32	38.06	38.96	37.32	37.38	37.14	37.08	
9	37.41	37.31	37.37	37.34	38.20	38.39	38.56	37.69	37.32	37.38	37.14	37.08	
10	37.40	37.31	37.38	37.34	38.86	38.40	37.98	37.52	37.31	37.38	37.13	37.08	
11	37.30	37.28	37.36	37.70	38.54	38.32	38.09	37.48	37.31	37.38	37.13	37.50	
12	37.28	37.31	37.34	37.97	38.22	38.18	38.00	37.46	37.31	37.31	37.13	37.18	
13	37.28	37.32	37.34	38.52	38.05	38.08	37.84	37.44	37.31	37.23	37.12	37.15	
14	37.32	37.47	37.33	38.33	37.97	37.99	37.74	37.42	37.32	37.28	37.13	37.13	
15	37.26	37.41	37.57	37.80	38.01	37.89	37.67	37.41	37.30	37.27	37.13	37.13	
16	37.23	37.30	37.53	38.00	37.96	37.81	37.63	37.41	37.29	37.25	37.13	37.13	
17	37.20	37.34	37.68	39.08	37.91	37.75	37.67	37.39	37.29	37.24	37.13	37.12	
18	37.19	37.38	37.98	39.32	37.69	37.71	37.59	37.45	37.29	37.23	37.13	37.15	
19	37.20	37.37	37.68	38.47	37.68	37.67	37.56	37.85	37.32	37.23	37.13	37.18	
20	37.20	37.29	37.64	38.17	37.63	37.71	37.54	37.62	37.32	37.22	37.13	37.14	
21	37.24	37.28	37.51	38.06	37.58	37.66	37.52	37.53	37.38	37.22	37.12	37.12	
22	37.23	37.29	37.49	38.96	37.62	37.61	37.52	37.50	37.31	37.22	37.14	37.12	
23	37.23	37.28	37.48	38.57	37.63	37.60	37.50	37.43	37.29	37.21	37.13	37.11	
24	37.20	37.24	37.47	38.59	37.57	37.73	37.49	37.42	37.29	37.21	37.12	37.10	
25	37.19	37.22	37.42	38.63	37.52	37.79	37.45	37.40	37.28	37.21	37.12	37.08	
26	37.23	37.35	37.39	38.25	37.49	38.07	37.44	37.40	37.28	37.19	37.11	37.05	
27	37.24	37.58	37.38	38.07	37.54	38.44	37.51	37.39	37.27	37.17	37.11	37.07	
28	37.23	37.44	37.37	37.97	37.48	38.41	37.48	37.38	37.27	37.18	37.11	37.08	
29	37.20	37.46	37.36	37.88	37.45	38.13	37.44	37.37	37.27	37.17		37.07	
30	37.18	37.53	37.36	37.80	37.46	38.46	37.42	37.36	37.26	37.16		37.08	
31		37.45		37.82	37.64		37.41		37.26	37.16		37.07	
Mean	37.24	37.34	37.59	37.98	37.86	38.01	37.97	37.51	37.31	37.25	37.13	37.12	
Max	37.41	37.58	39.42	39.32	38.86	39.12	40.08	38.96	37.38	37.38	37.16	37.50	40.08
Min	37.17	37.19	37.33	37.31	37.45	37.56	37.41	37.35	37.26	37.16	37.11	37.05	37.05
Annual Max Momentary Gage Height	42.05		m. (MSL.) ,			at 11.00 Hours , on Jun 3 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	36.45	m. (MSL)					
Left Bank Elevation	42.32		m. (MSL.) ,										
Right Bank Elevation	42.56		m. (MSL.) ,			Drainage Area	122	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.76	2.33	2.07	8.20	7.20	62.25	2.41	2.16	1.31	0.64	0.60	
2	0.72	0.88	6.20	1.91	7.60	5.64	100.10	2.41	2.07	1.22	0.64	0.52	
3	0.68	4.31	65.45	1.91	20.70	5.14	77.15	2.41	1.99	1.22	0.60	0.48	
4	1.65	2.24	18.40	1.82	16.75	9.20	42.87	7.80	1.99	1.31	0.60	0.44	
5	1.39	1.39	11.90	1.74	17.85	14.00	27.45	2.99	1.91	1.22	0.60	0.44	
6	0.88	1.14	7.80	1.82	15.65	52.10	20.70	2.16	1.91	1.22	0.60	0.40	
7	1.31	1.14	5.14	1.82	13.37	31.03	18.67	2.07	1.82	1.91	0.56	0.36	
8	1.65	1.05	3.82	1.91	17.58	23.10	15.65	45.50	1.82	2.33	0.56	0.32	
9	2.66	1.74	2.24	1.99	19.50	25.20	30.70	7.60	1.82	2.33	0.56	0.32	
10	2.50	1.74	2.33	1.99	41.75	25.50	13.58	4.48	1.74	2.33	0.52	0.32	
11	1.65	1.48	2.16	7.80	30.05	23.10	16.47	3.82	1.74	2.33	0.52	4.15	
12	1.48	1.74	1.99	13.37	20.10	18.95	14.00	3.49	1.74	1.74	0.52	0.72	
13	1.48	1.82	1.99	29.40	15.37	16.20	10.64	3.16	1.74	1.05	0.48	0.60	
14	1.82	3.66	1.91	23.40	13.37	13.79	8.60	2.83	1.82	1.48	0.52	0.52	
15	1.31	2.66	5.31	9.80	14.27	11.69	7.20	2.66	1.65	1.39	0.52	0.52	
16	1.05	1.65	4.64	14.00	13.16	10.01	6.40	2.66	1.56	1.22	0.52	0.52	
17	0.80	1.99	7.40	50.40	12.11	8.80	7.20	2.41	1.56	1.14	0.52	0.48	
18	0.76	2.33	13.58	60.90	7.60	8.00	5.64	3.33	1.56	1.05	0.52	0.60	
19	0.80	2.24	7.40	27.78	7.40	7.20	5.14	10.85	1.82	1.05	0.52	0.72	
20	0.80	1.56	6.60	18.67	6.40	8.00	4.81	6.20	1.82	0.97	0.52	0.56	
21	1.14	1.48	4.31	15.65	5.47	7.00	4.48	4.64	2.33	0.97	0.48	0.48	
22	1.05	1.56	3.99	45.50	6.20	6.00	4.48	4.15	1.74	0.97	0.56	0.48	
23	1.05	1.48	3.82	31.03	6.40	5.80	4.15	2.99	1.56	0.88	0.52	0.44	
24	0.80	1.14	3.66	31.68	5.31	8.40	3.99	2.83	1.56	0.88	0.48	0.40	
25	0.76	0.97	2.83	33.13	4.48	9.60	3.33	2.50	1.48	0.88	0.48	0.32	
26	1.05	2.07	2.41	21.00	3.99	15.92	3.16	2.50	1.48	0.76	0.44	0.20	
27	1.14	5.47	2.33	15.92	4.81	26.80	4.31	2.41	1.39	0.68	0.44	0.28	
28	1.05	3.16	2.24	13.37	3.82	25.82	3.82	2.33	1.39	0.72	0.44	0.32	
29	0.80	3.49	2.16	11.48	3.33	17.58	3.16	2.24	1.39	0.68		0.28	
30	0.72	4.64	2.16	9.80	3.49	27.45	2.83	2.16	1.31	0.64		0.32	
31		3.33		10.22	6.60		2.66		1.31	0.64		0.28	
Total	35.67	66.31	208.50	513.28	372.68	474.22	535.59	149.99	53.18	38.52	14.88	17.39	2480.21 CMSDAY
Mean	1.19	2.14	6.95	16.56	12.02	15.81	17.28	5.00	1.72	1.24	0.53	0.56	6.80 CMS
Max	2.66	5.47	65.45	60.90	41.75	52.10	100.10	45.50	2.33	2.33	0.64	4.15	100.10 CMS
Min	0.68	0.76	1.91	1.74	3.33	5.14	2.66	2.07	1.31	0.64	0.44	0.20	0.20 CMS
Runoff	3.08	5.73	18.01	44.35	32.20	40.97	46.28	12.96	4.60	3.33	1.29	1.50	214.29 MCM
Momentary Peak	247.25 CMS. at 42.05 m. (MSL) at 11.00 Hours , on Jun 3 , 2009												
Runoff Yield	55.70 Liters/Second/Square KM.			Momentary Peak Yield				2026.639 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Khlong Thadee at Ban Na Pa , Nakhon Si Thammarat (X.203)

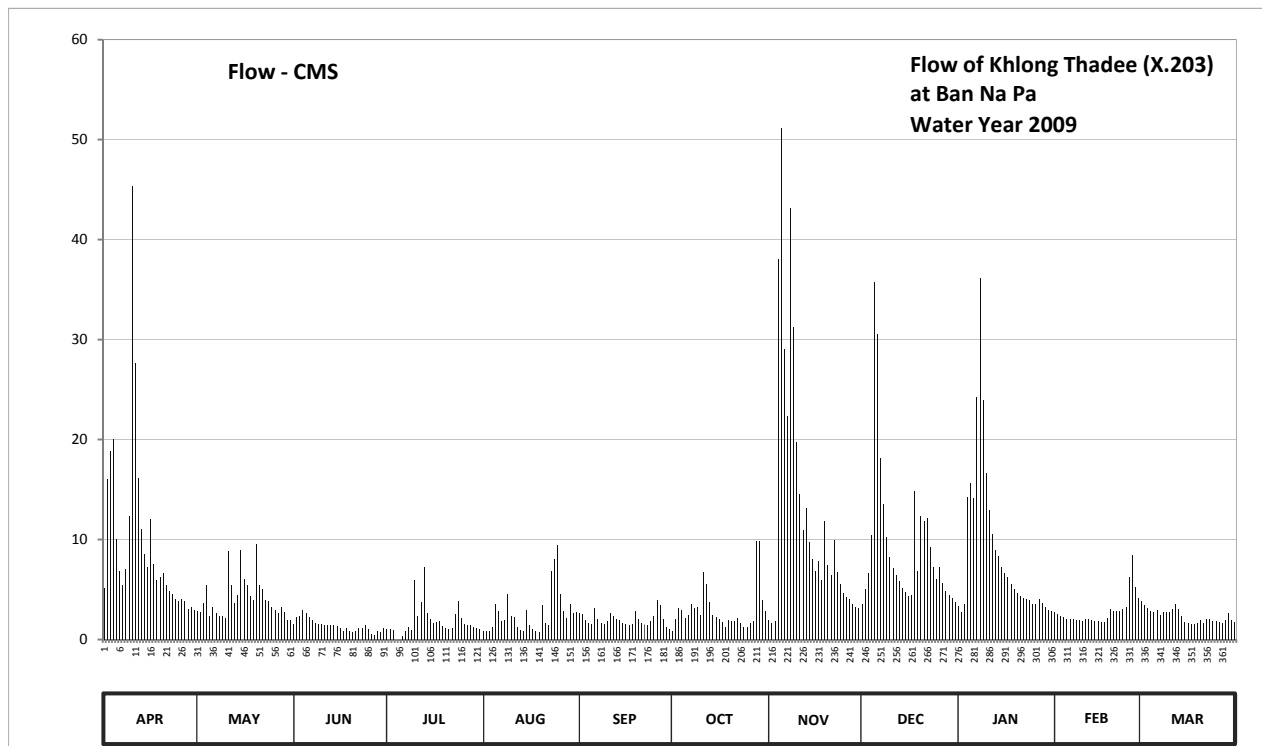
Lat 08 - 23 - 39 N Long 99 - 54 - 55 E

Location : on left bank at Ban Na Pa.

	Ban	Na Pa	Amphoe	Mueang	Changwat	Nakhon Si Thammarat
Drainage Area	120	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at Ban Na Pa				Elevation	+12.303 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 means of 5 readings					
Period of Available Gage Records	2000 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.41	8.11	7.91	7.81	7.78	8.08	7.78	7.99	8.21	8.18	8.10	8.24	
2	9.40	8.10	8.03	7.81	7.76	8.07	8.00	7.92	8.40	8.10	8.07	8.19	
3	9.59	8.22	8.05	7.79	7.78	7.98	8.15	7.97	8.56	8.21	8.05	8.15	
4	9.67	8.44	8.13	7.60	7.86	7.94	8.13	10.52	8.93	9.26	8.03	8.12	
5	8.90	8.04	8.09	7.60	8.20	7.90	8.02	10.74	10.46	9.37	8.00	8.10	
6	8.59	8.16	8.03	7.66	8.12	8.15	8.06	10.22	10.28	9.25	8.00	8.13	
7	8.44	8.09	7.99	7.76	7.96	8.01	8.21	9.82	9.54	9.94	8.00	8.06	
8	8.60	8.05	7.92	7.84	7.98	7.94	8.15	10.63	9.20	10.47	7.99	8.10	
9	9.10	8.04	7.91	7.79	8.34	7.90	8.17	10.31	8.91	9.92	7.98	8.10	
10	10.66	8.02	7.90	8.49	8.05	7.96	8.06	9.65	8.72	9.44	7.97	8.10	
11	10.15	8.78	7.89	8.05	8.03	8.08	8.57	9.28	8.61	9.15	8.00	8.14	
12	9.41	8.44	7.88	8.23	7.84	8.05	8.45	8.98	8.54	8.94	8.00	8.21	
13	8.99	8.22	7.88	8.63	7.79	8.00	8.23	9.17	8.48	8.80	7.98	8.14	
14	8.76	8.32	7.88	8.09	7.77	7.98	8.06	8.87	8.41	8.73	7.97	8.04	
15	8.63	8.80	7.87	8.00	8.13	7.94	8.03	8.70	8.36	8.62	7.97	7.95	
16	9.07	8.50	7.83	7.92	7.89	7.91	8.00	8.59	8.31	8.56	7.95	7.92	
17	8.65	8.44	7.78	7.95	7.80	7.89	7.95	8.68	8.32	8.52	7.95	7.91	
18	8.49	8.31	7.82	7.96	7.76	7.91	7.86	8.49	9.31	8.45	8.02	7.90	
19	8.52	8.26	7.76	7.87	7.74	8.11	7.98	9.06	8.59	8.40	8.14	7.92	
20	8.56	8.85	7.74	7.83	8.19	8.01	7.96	8.64	9.10	8.35	8.12	7.98	
21	8.44	8.44	7.78	7.80	7.93	7.94	7.96	8.54	9.06	8.31	8.12	7.94	
22	8.38	8.40	7.83	7.83	7.88	7.90	8.02	8.89	9.08	8.29	8.11	8.00	
23	8.34	8.26	7.82	8.07	8.59	7.88	7.92	8.57	8.82	8.28	8.14	8.00	
24	8.28	8.25	7.88	8.25	8.71	7.96	7.86	8.45	8.63	8.26	8.17	7.97	
25	8.24	8.17	7.81	8.02	8.84	8.04	7.84	8.35	8.51	8.21	8.52	7.97	
26	8.28	8.13	7.71	7.91	8.34	8.26	7.93	8.30	8.62	8.20	8.74	7.95	
27	8.25	8.09	7.70	7.88	8.11	8.19	7.96	8.27	8.46	8.27	8.42	7.92	
28	8.14	8.16	7.78	7.88	8.02	8.01	8.88	8.21	8.38	8.22	8.29	7.98	
29	8.16	8.10	7.74	7.86	8.21	7.86	8.88	8.17	8.32	8.17		8.09	
30	8.13	7.99	7.82	7.82	8.08	7.81	8.26	8.15	8.29	8.13		7.98	
31		7.99		7.80	8.10		8.11		8.23	8.11		7.95	
Mean	8.77	8.26	7.87	7.93	8.05	7.99	8.11	8.94	8.76	8.68	8.10	8.04	
Max	10.66	8.85	8.13	8.63	8.84	8.26	8.88	10.74	10.46	10.47	8.74	8.24	10.74
Min	8.13	7.99	7.70	7.60	7.74	7.81	7.78	7.92	8.21	8.10	7.95	7.90	7.60
Annual Max Momentary Gage Height	11.08		m. (MSL.) ,				at 01.00 Hours , on Nov 5 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	7.34		m. (MSL)				
Left Bank Elevation	12.41		m. (MSL.) ,										
Right Bank Elevation	12.33		m. (MSL.) ,			Drainage Area	120		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.10	2.82	1.55	1.05	0.90	2.60	0.90	1.95	3.58	3.35	2.75	3.80	
2	16.00	2.75	2.22	1.05	0.80	2.52	2.00	1.60	5.00	2.75	2.52	3.42	
3	18.85	3.65	2.38	0.95	0.90	1.90	3.12	1.85	6.60	3.58	2.38	3.12	
4	20.05	5.40	2.98	0.00	1.30	1.70	2.98	38.00	10.43	14.25	2.22	2.90	
5	10.10	2.30	2.68	0.00	3.50	1.50	2.15	51.15	35.75	15.63	2.00	2.75	
6	6.90	3.20	2.22	0.30	2.90	3.12	2.45	29.00	30.50	14.13	2.00	2.98	
7	5.40	2.68	1.95	0.80	1.80	2.08	3.58	22.32	18.10	24.24	2.00	2.45	
8	7.00	2.38	1.60	1.20	1.90	1.70	3.12	43.17	13.50	36.13	1.95	2.75	
9	12.35	2.30	1.55	0.95	4.55	1.50	3.28	31.25	10.21	23.92	1.90	2.75	
10	45.35	2.15	1.50	5.90	2.38	1.80	2.45	19.75	8.20	16.60	1.85	2.75	
11	27.67	8.80	1.45	2.38	2.22	2.60	6.70	14.50	7.10	12.92	2.00	3.05	
12	16.15	5.40	1.40	3.72	1.20	2.38	5.50	10.98	6.40	10.54	2.00	3.58	
13	11.09	3.65	1.40	7.30	0.95	2.00	3.72	13.16	5.80	9.00	1.90	3.05	
14	8.60	4.40	1.40	2.68	0.85	1.90	2.45	9.77	5.10	8.30	1.85	2.30	
15	7.30	9.00	1.35	2.00	2.98	1.70	2.22	8.00	4.70	7.20	1.85	1.75	
16	12.00	6.00	1.15	1.60	1.45	1.55	2.00	6.90	4.33	6.60	1.75	1.60	
17	7.50	5.40	0.90	1.75	1.00	1.45	1.75	7.80	4.40	6.20	1.75	1.55	
18	5.90	4.33	1.10	1.80	0.80	1.55	1.30	5.90	14.88	5.50	2.15	1.50	
19	6.20	3.95	0.80	1.35	0.70	2.82	1.90	11.89	6.90	5.00	3.05	1.60	
20	6.60	9.55	0.70	1.15	3.42	2.08	1.80	7.40	12.35	4.63	2.90	1.90	
21	5.40	5.40	0.90	1.00	1.65	1.70	1.80	6.40	11.89	4.33	2.90	1.70	
22	4.85	5.00	1.15	1.15	1.40	1.50	2.15	9.99	12.12	4.18	2.82	2.00	
23	4.55	3.95	1.10	2.52	6.90	1.40	1.60	6.70	9.22	4.10	3.05	2.00	
24	4.10	3.88	1.40	3.88	8.10	1.80	1.30	5.50	7.30	3.95	3.28	1.85	
25	3.80	3.28	1.05	2.15	9.44	2.30	1.20	4.63	6.10	3.58	6.20	1.85	
26	4.10	2.98	0.55	1.55	4.55	3.95	1.65	4.25	7.20	3.50	8.40	1.75	
27	3.88	2.68	0.50	1.40	2.82	3.42	1.80	4.03	5.60	4.03	5.20	1.60	
28	3.05	3.20	0.90	1.40	2.15	2.08	9.88	3.58	4.85	3.65	4.18	1.90	
29	3.20	2.75	0.70	1.30	3.58	1.30	9.88	3.28	4.40	3.28		2.68	
30	2.98	1.95	1.10	1.10	2.60	1.05	3.95	3.12	4.18	2.98		1.90	
31		1.95		1.00	2.75		2.82		3.72	2.82		1.75	
Total	296.02	127.13	41.63	56.38	82.44	60.95	93.40	387.82	290.41	270.87	78.80	72.53	1858.38 CMSDAY
Mean	9.87	4.10	1.39	1.82	2.66	2.03	3.01	12.93	9.37	8.74	2.81	2.34	5.09 CMS
Max	45.35	9.55	2.98	7.30	9.44	3.95	9.88	51.15	35.75	36.13	8.40	3.80	51.15 CMS
Min	2.98	1.95	0.50	0.00	0.70	1.05	0.90	1.60	3.58	2.75	1.75	1.50	0.00 CMS
Runoff	25.58	10.98	3.60	4.87	7.12	5.27	8.07	33.51	25.09	23.40	6.81	6.27	160.56 MCM
Momentary Peak	87.40 CMS. at 11.08 m. (MSL.) at 01.00 Hours , on Nov 5 , 2009												
Runoff Yield	42.41 Liters/Second/Square KM.			Momentary Peak Yield			728.03 Liters/Second/Square KM.						

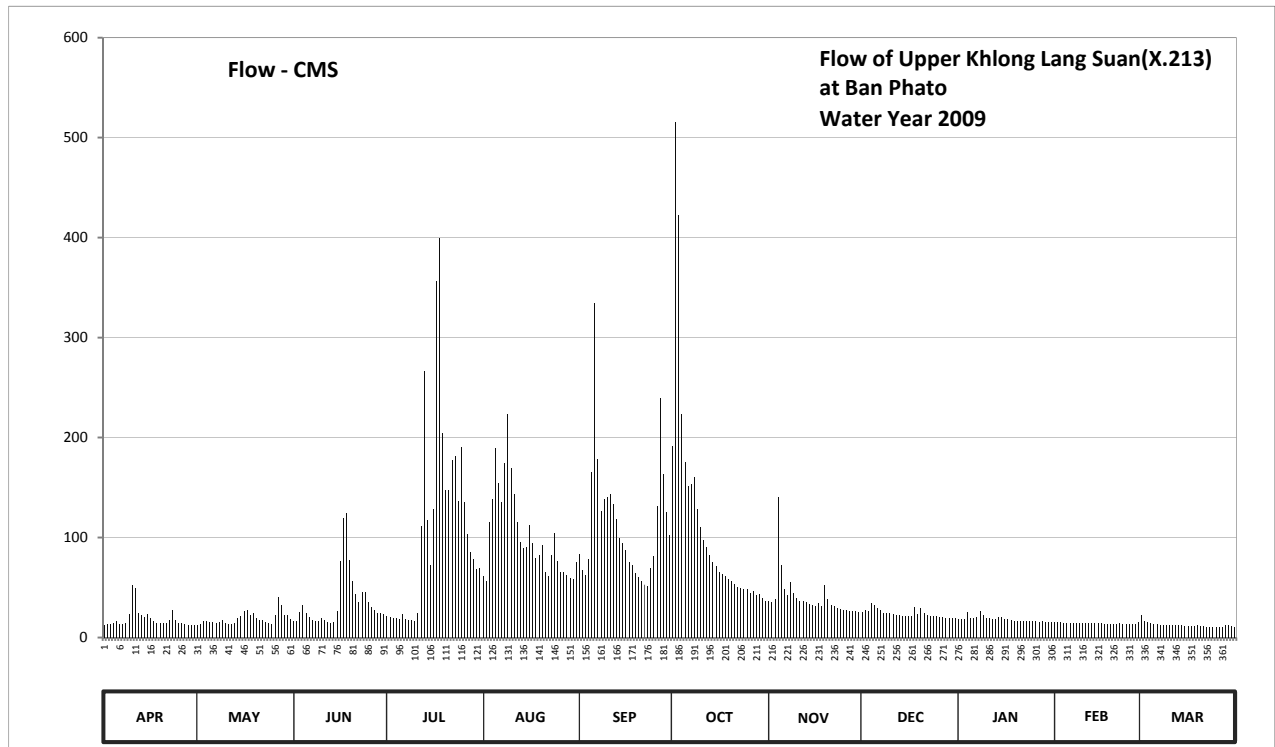
WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Upper Khlong Lang Suan at Ban Phato , Chumphon (X.213)
 Lat 09 - 46 - 55 N Long 98 - 46 - 55 E

Location : on left bank at the bridge.

	Ban Phato	Amphoe Phato	Changwat Chumphon
Drainage Area	714 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.		Elevation +53.360 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.13	42.13	42.30	42.44	43.22	43.56	44.83	42.77	42.53	42.36	42.25	42.45	
2	42.17	42.18	42.28	42.40	43.14	43.32	47.50	42.75	42.58	42.36	42.24	42.28	
3	42.18	42.29	42.53	42.37	43.97	43.24	46.82	42.80	42.56	42.35	42.24	42.26	
4	42.23	42.29	42.69	42.37	44.24	43.48	45.15	44.26	42.72	42.54	42.23	42.20	
5	42.27	42.26	42.50	42.36	44.81	44.55	44.66	43.39	42.68	42.38	42.23	42.19	
6	42.18	42.24	42.40	42.49	44.43	46.14	44.39	43.00	42.63	42.37	42.22	42.17	
7	42.18	42.20	42.32	42.36	44.20	44.69	44.42	42.88	42.58	42.40	42.22	42.16	
8	42.23	42.25	42.28	42.33	44.65	44.10	44.49	43.12	42.52	42.56	42.21	42.15	
9	42.49	42.33	42.28	42.31	45.15	44.24	44.13	42.94	42.51	42.47	42.21	42.15	
10	43.08	42.23	42.38	42.30	44.59	44.26	43.91	42.83	42.50	42.37	42.20	42.14	
11	43.02	42.19	42.33	42.51	44.30	44.30	43.75	42.78	42.49	42.37	42.20	42.14	
12	42.51	42.17	42.26	43.92	43.97	44.18	43.66	42.76	42.47	42.36	42.20	42.14	
13	42.45	42.23	42.23	45.57	43.73	44.01	43.54	42.74	42.46	42.36	42.20	42.14	
14	42.42	42.38	42.25	44.00	43.65	43.78	43.44	42.71	42.44	42.40	42.20	42.13	
15	42.49	42.44	42.56	43.40	43.66	43.71	43.37	42.68	42.43	42.40	42.20	42.12	
16	42.39	42.57	43.46	44.12	43.93	43.62	43.29	42.67	42.43	42.35	42.20	42.11	
17	42.28	42.58	44.02	46.31	43.71	43.44	43.25	42.73	42.43	42.34	42.19	42.10	
18	42.23	42.46	44.08	46.64	43.50	43.40	43.23	42.67	42.64	42.31	42.19	42.10	
19	42.21	42.51	43.47	44.96	43.55	43.27	43.18	43.07	42.49	42.30	42.18	42.13	
20	42.21	42.37	43.14	44.35	43.68	43.21	43.14	42.80	42.63	42.29	42.18	42.11	
21	42.21	42.32	42.90	44.35	43.29	43.14	43.09	42.69	42.50	42.28	42.18	42.10	
22	42.32	42.32	42.74	44.68	43.23	43.08	43.04	42.66	42.46	42.29	42.21	42.09	
23	42.58	42.25	42.95	44.72	43.55	43.05	43.03	42.63	42.44	42.29	42.19	42.09	
24	42.33	42.21	42.95	44.22	43.84	43.34	43.01	42.60	42.43	42.28	42.19	42.08	
25	42.23	42.19	42.75	44.82	43.45	43.53	43.00	42.59	42.43	42.28	42.19	42.08	
26	42.20	42.45	42.65	44.21	43.28	44.16	42.92	42.58	42.41	42.27	42.19	42.07	
27	42.19	42.84	42.58	43.83	43.28	45.31	42.97	42.57	42.40	42.26	42.18	42.07	
28	42.16	42.68	42.51	43.59	43.24	44.53	42.89	42.56	42.39	42.27	42.26	42.13	
29	42.14	42.46	42.50	43.49	43.19	44.09	42.91	42.55	42.38	42.26		42.14	
30	42.13	42.46	42.49	43.33	43.17	43.82	42.82	42.54	42.37	42.25		42.10	
31		42.36		43.35	43.44		42.78		42.37	42.24		42.09	
Mean	42.33	42.35	42.69	43.68	43.78	43.89	43.76	42.81	42.49	42.34	42.21	42.14	
Max	43.08	42.84	44.08	46.64	45.15	46.14	47.50	44.26	42.72	42.56	42.26	42.45	47.50
Min	42.13	42.13	42.23	42.30	43.14	43.05	42.78	42.54	42.37	42.24	42.18	42.07	42.07
Annual Max Momentary Gage Height	48.06		m. (MSL.) ,				at 12.00 Hours , on Oct 2 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	38.75	m. (MSL)					
Left Bank Elevation		53.29		m. (MSL.) ,									
Right Bank Elevation		53.33		m. (MSL.) ,		Drainage Area	714	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.90	11.90	17.00	21.60	61.30	83.40	191.00	36.50	25.20	18.80	15.50	22.00		
2	13.10	13.40	16.40	20.00	56.40	67.80	516.00	35.50	27.20	18.80	15.20	16.40		
3	13.40	16.70	25.20	19.10	115.45	62.60	422.60	38.00	26.40	18.50	15.20	15.80		
4	14.90	16.70	32.50	19.10	138.40	78.20	223.00	140.10	34.00	25.60	14.90	14.00		
5	16.10	15.80	24.00	18.80	189.00	165.50	175.40	72.35	32.00	19.40	14.90	13.70		
6	13.40	15.20	20.00	23.60	154.70	334.20	151.15	48.00	29.50	19.10	14.60	13.10		
7	13.40	14.00	17.60	18.80	135.00	178.10	153.80	42.00	27.20	20.00	14.60	12.80		
8	14.90	15.50	16.40	17.90	174.50	126.50	160.10	55.20	24.80	26.40	14.30	12.50		
9	23.60	17.90	16.40	17.30	223.00	138.40	129.05	45.00	24.40	22.80	14.30	12.50		
10	52.80	14.90	19.40	17.00	169.10	140.10	110.35	39.50	24.00	19.10	14.00	12.20		
11	49.20	13.70	17.90	24.40	143.50	143.50	97.25	37.00	23.60	19.10	14.00	12.20		
12	24.40	13.10	15.80	111.20	115.45	133.30	90.50	36.00	22.80	18.80	14.00	12.20		
13	22.00	14.90	14.90	266.70	95.75	118.85	82.10	35.00	22.40	18.80	14.00	12.20		
14	20.80	19.40	15.50	118.00	89.75	99.50	75.60	33.50	21.60	20.00	14.00	11.90		
15	23.60	21.60	26.40	73.00	90.50	94.25	71.05	32.00	21.20	20.00	14.00	11.60		
16	19.70	26.80	76.90	128.20	112.05	87.50	65.85	31.50	21.20	18.50	14.00	11.30		
17	16.40	27.20	119.70	356.30	94.25	75.60	63.25	34.50	21.20	18.20	13.70	11.00		
18	14.90	22.40	124.80	399.20	79.50	73.00	61.95	31.50	30.00	17.30	13.70	11.00		
19	14.30	24.40	77.55	204.00	82.75	64.55	58.80	52.20	23.60	17.00	13.40	11.90		
20	14.30	19.10	56.40	147.75	92.00	60.65	56.40	38.00	29.50	16.70	13.40	11.30		
21	14.30	17.60	43.00	147.75	65.85	56.40	53.40	32.50	24.00	16.40	13.40	11.00		
22	17.60	17.60	35.00	177.20	61.95	52.80	50.40	31.00	22.40	16.70	14.30	10.70		
23	27.20	15.50	45.50	180.80	82.75	51.00	49.80	29.50	21.60	16.70	13.70	10.70		
24	17.90	14.30	45.50	136.70	104.40	69.10	48.60	28.00	21.20	16.40	13.70	10.40		
25	14.90	13.70	35.50	190.00	76.25	81.45	48.00	27.60	21.20	16.40	13.70	10.40		
26	14.00	22.00	30.50	135.85	65.20	131.60	44.00	27.20	20.40	16.10	13.70	10.10		
27	13.70	40.00	27.20	103.55	65.20	239.00	46.50	26.80	20.00	15.80	13.40	10.10		
28	12.80	32.00	24.40	85.35	62.60	163.70	42.50	26.40	19.70	16.10	15.80	11.90		
29	12.20	22.40	24.00	78.85	59.40	125.65	43.50	26.00	19.40	15.80		12.20		
30	11.90	22.40	23.60	68.45	58.20	102.70	39.00	25.60	19.10	15.50		11.00		
31		18.80		69.75	75.60		37.00		19.10	15.20		10.70		
Total	563.60	590.90	1084.95	3396.20	3189.75	3398.90	3457.90	1193.95	739.90	570.00	397.40	380.80	18964.25	CMSDAY
Mean	18.79	19.06	36.16	109.55	102.90	113.30	111.55	39.80	23.87	18.39	14.19	12.28	51.96	CMS
Max	52.80	40.00	124.80	399.20	223.00	334.20	516.00	140.10	34.00	26.40	15.80	22.00	516.00	CMS
Min	11.90	11.90	14.90	17.00	56.40	51.00	37.00	25.60	19.10	15.20	13.40	10.10	10.10	CMS
Runoff	48.70	51.05	93.74	293.43	275.59	293.67	298.76	103.16	63.93	49.25	34.34	32.90	1638.51	MCM
Momentary Peak	597.00 CMS. at 48.06 m. (MSL.) at 12.00 Hours , on Oct 2 , 2009													
Runoff Yield	72.75 Liters/Second/Square KM.			Momentary Peak Yield			835.865 Liters/Second/Square KM.							

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Lower Khlong Lamae at Ban Thung Luang , Chumphon (X.214)

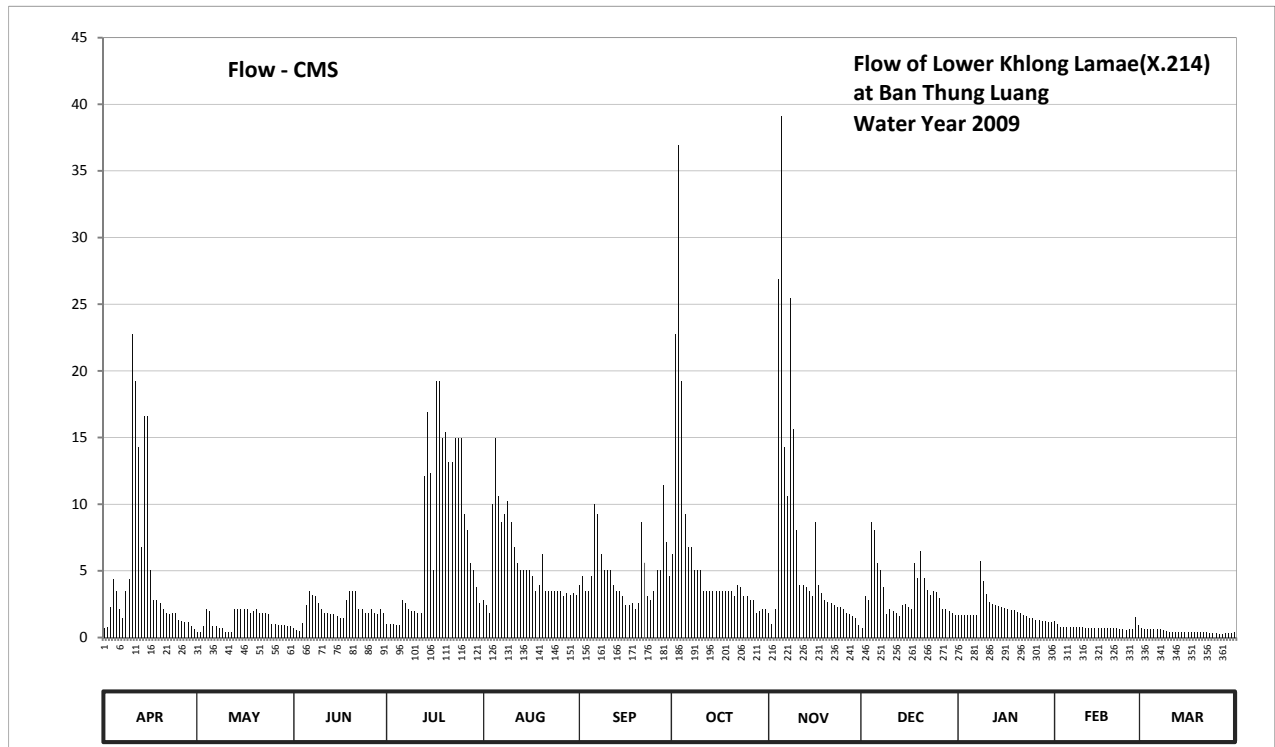
Lat 09 - 46 - 06 N Long 99 - 05 - 00 E

Location : on left bank at the highway bridge., Tambon Thung Luang

	Ban	Thung Luang	Amphoe	Lamae	Changwat	Chumphon
Drainage Area	144	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 2 meters from the top staff gage.				Elevation	+23.213 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 means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 , 2009 to date					
Stability of Channel Regimes	Rather unstable by some scouring.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.52	11.47	11.52	11.57	11.72	11.80	11.94	11.65	11.52	11.40	11.29	11.17	
2	11.53	11.47	11.49	11.57	11.69	11.84	12.67	11.57	11.74	11.40	11.25	11.16	
3	11.68	11.54	11.48	11.57	11.65	11.77	13.15	11.67	11.72	11.40	11.20	11.15	
4	11.83	11.67	11.58	11.56	12.14	11.77	12.54	12.82	12.07	11.40	11.20	11.15	
5	11.77	11.66	11.69	11.56	12.37	11.84	12.10	13.22	12.04	11.40	11.20	11.15	
6	11.67	11.54	11.77	11.72	12.17	12.14	11.97	12.34	11.90	11.40	11.19	11.15	
7	11.62	11.54	11.75	11.70	12.07	12.10	11.97	12.17	11.87	11.40	11.19	11.15	
8	11.77	11.52	11.74	11.67	12.10	11.94	11.87	12.77	11.79	11.88	11.19	11.14	
9	11.83	11.52	11.70	11.66	12.15	11.87	11.87	12.40	11.64	11.75	11.20	11.12	
10	12.67	11.47	11.67	11.66	12.07	11.87	11.87	12.04	11.67	11.63	11.19	11.11	
11	12.54	11.47	11.65	11.65	11.97	11.87	11.77	11.80	11.66	11.55	11.18	11.10	
12	12.34	11.47	11.65	11.65	11.90	11.80	11.77	11.80	11.65	11.53	11.18	11.10	
13	11.97	11.67	11.64	12.24	11.87	11.77	11.77	11.79	11.63	11.51	11.18	11.10	
14	12.44	11.67	11.64	12.45	11.87	11.77	11.77	11.77	11.51	11.50	11.18	11.10	
15	12.44	11.67	11.63	12.25	11.87	11.74	11.77	11.74	11.52	11.49	11.18	11.10	
16	11.87	11.67	11.62	11.87	11.87	11.69	11.77	12.07	11.49	11.48	11.17	11.10	
17	11.72	11.67	11.62	12.54	11.84	11.69	11.77	11.80	11.47	11.47	11.17	11.10	
18	11.72	11.65	11.72	12.54	11.77	11.70	11.77	11.76	11.87	11.46	11.17	11.10	
19	11.70	11.66	11.77	12.37	11.80	11.67	11.77	11.72	11.77	11.45	11.17	11.10	
20	11.67	11.67	11.77	12.39	11.94	11.70	11.77	11.71	11.94	11.43	11.18	11.10	
21	11.65	11.65	11.77	12.29	11.77	12.07	11.74	11.70	11.77	11.42	11.17	11.10	
22	11.64	11.65	11.67	12.29	11.77	11.90	11.80	11.69	11.67	11.40	11.16	11.10	
23	11.65	11.65	11.67	12.37	11.77	11.74	11.79	11.68	11.62	11.38	11.15	11.09	
24	11.65	11.64	11.65	12.37	11.77	11.72	11.74	11.68	11.66	11.35	11.14	11.09	
25	11.61	11.57	11.65	12.37	11.77	11.77	11.74	11.67	11.65	11.34	11.16	11.09	
26	11.60	11.57	11.67	12.10	11.77	11.87	11.72	11.65	11.59	11.32	11.15	11.07	
27	11.59	11.56	11.65	12.04	11.74	11.87	11.72	11.64	11.47	11.31	11.37	11.07	
28	11.59	11.56	11.64	11.90	11.76	12.21	11.65	11.63	11.47	11.30	11.23	11.08	
29	11.54	11.56	11.67	11.87	11.75	11.99	11.66	11.62	11.44	11.29		11.09	
30	11.50	11.54	11.65	11.79	11.76	11.84	11.67	11.56	11.42	11.28		11.09	
31		11.54		11.70	11.75		11.67		11.40	11.27		11.10	
Mean	11.81	11.59	11.66	11.98	11.88	11.84	11.89	11.90	11.67	11.44	11.19	11.11	
Max	12.67	11.67	11.77	12.54	12.37	12.21	13.15	13.22	12.07	11.88	11.37	11.17	13.22
Min	11.50	11.47	11.48	11.56	11.65	11.67	11.65	11.56	11.40	11.27	11.14	11.07	11.07
Annual Max Momentary Gage Height	13.52		m. (MSL.) ,				at 18.00 Hours , on Nov 4 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	9.79	m. (MSL)					
Left Bank Elevation	23.35		m. (MSL.) ,										
Right Bank Elevation	23.33		m. (MSL.) ,			Drainage Area	144	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.42	0.72	1.02	2.82	3.90	6.28	1.87	0.72	1.70	1.21	0.68	
2	0.78	0.42	0.54	1.02	2.41	4.58	22.72	1.02	3.09	1.70	1.03	0.64	
3	2.28	0.84	0.48	1.02	1.87	3.50	36.95	2.14	2.82	1.70	0.80	0.60	
4	4.41	2.14	1.08	0.96	10.03	3.50	19.24	26.90	8.66	1.70	0.80	0.60	
5	3.50	2.01	2.41	0.96	14.94	4.58	9.25	39.15	8.08	1.70	0.80	0.60	
6	2.14	0.84	3.50	2.82	10.62	10.03	6.79	14.28	5.60	1.70	0.76	0.60	
7	1.47	0.84	3.22	2.55	8.66	9.25	6.79	10.62	5.09	1.70	0.76	0.60	
8	3.50	0.72	3.09	2.14	9.25	6.28	5.09	25.48	3.76	5.74	0.76	0.56	
9	4.41	0.72	2.55	2.01	10.22	5.09	5.09	15.60	1.74	4.27	0.80	0.48	
10	22.72	0.42	2.14	2.01	8.66	5.09	5.09	8.08	2.14	3.25	0.76	0.44	
11	19.24	0.42	1.87	1.87	6.79	5.09	3.50	3.90	2.01	2.68	0.72	0.40	
12	14.28	0.42	1.87	1.87	5.60	3.90	3.50	3.90	1.87	2.54	0.72	0.40	
13	6.79	2.14	1.74	12.08	5.09	3.50	3.50	3.76	1.60	2.42	0.72	0.40	
14	16.64	2.14	1.74	16.90	5.09	3.50	3.50	3.50	2.42	2.35	0.72	0.40	
15	16.64	2.14	1.60	12.30	5.09	3.09	3.50	3.09	2.48	2.28	0.72	0.40	
16	5.09	2.14	1.47	5.09	5.09	2.41	3.50	8.66	2.28	2.22	0.68	0.40	
17	2.82	2.14	1.47	19.24	4.58	2.41	3.50	3.90	2.16	2.16	0.68	0.40	
18	2.82	1.87	2.82	19.24	3.50	2.55	3.50	3.36	5.61	2.09	0.68	0.40	
19	2.55	2.01	3.50	14.94	3.90	2.14	3.50	2.82	4.45	2.03	0.68	0.40	
20	2.14	2.14	3.50	15.38	6.28	2.55	3.50	2.68	6.52	1.90	0.72	0.40	
21	1.87	1.87	3.50	13.18	3.50	8.66	3.09	2.55	4.45	1.83	0.68	0.40	
22	1.74	1.87	2.14	13.18	3.50	5.60	3.90	2.41	3.59	1.70	0.64	0.40	
23	1.87	1.87	2.14	14.94	3.50	3.09	3.76	2.28	3.17	1.61	0.60	0.36	
24	1.87	1.74	1.87	14.94	3.50	2.82	3.09	2.28	3.51	1.48	0.56	0.36	
25	1.33	1.02	1.87	14.94	3.50	3.50	3.09	2.14	3.42	1.43	0.64	0.36	
26	1.20	1.02	2.14	9.25	3.50	5.09	2.82	1.87	2.93	1.34	0.60	0.28	
27	1.14	0.96	1.87	8.08	3.09	5.09	2.82	1.74	2.16	1.30	1.57	0.28	
28	1.14	0.96	1.74	5.60	3.36	11.42	1.87	1.60	2.16	1.25	0.93	0.32	
29	0.84	0.96	2.14	5.09	3.22	7.13	2.01	1.47	1.96	1.21		0.36	
30	0.60	0.84	1.87	3.76	3.36	4.58	2.14	0.96	1.83	1.16		0.36	
31		0.84		2.55	3.22		2.14		1.70	1.12		0.40	
Total	148.54	40.88	62.59	240.93	167.74	143.92	189.02	204.01	103.98	63.26	21.74	13.68	1400.29 CMSDAY
Mean	4.95	1.32	2.09	7.77	5.41	4.80	6.10	6.80	3.35	2.04	0.78	0.44	3.84 CMS
Max	22.72	2.14	3.50	19.24	14.94	11.42	36.95	39.15	8.66	5.74	1.57	0.68	39.15 CMS
Min	0.60	0.42	0.48	0.96	1.87	2.14	1.87	0.96	0.72	1.12	0.56	0.28	0.28 CMS
Runoff	12.834	3.532	5.408	20.816	14.493	12.435	16.331	17.626	8.984	5.466	1.878	1.182	120.985 MCM
Momentary Peak	49.92 CMS. at 13.52 m. (MSL) at 18.00 Hours , on Nov 4 , 2009												
Runoff Yield	26.60 Liters/Second/Square KM.			Momentary Peak Yield				346.066 Liters/Second/Square KM.					

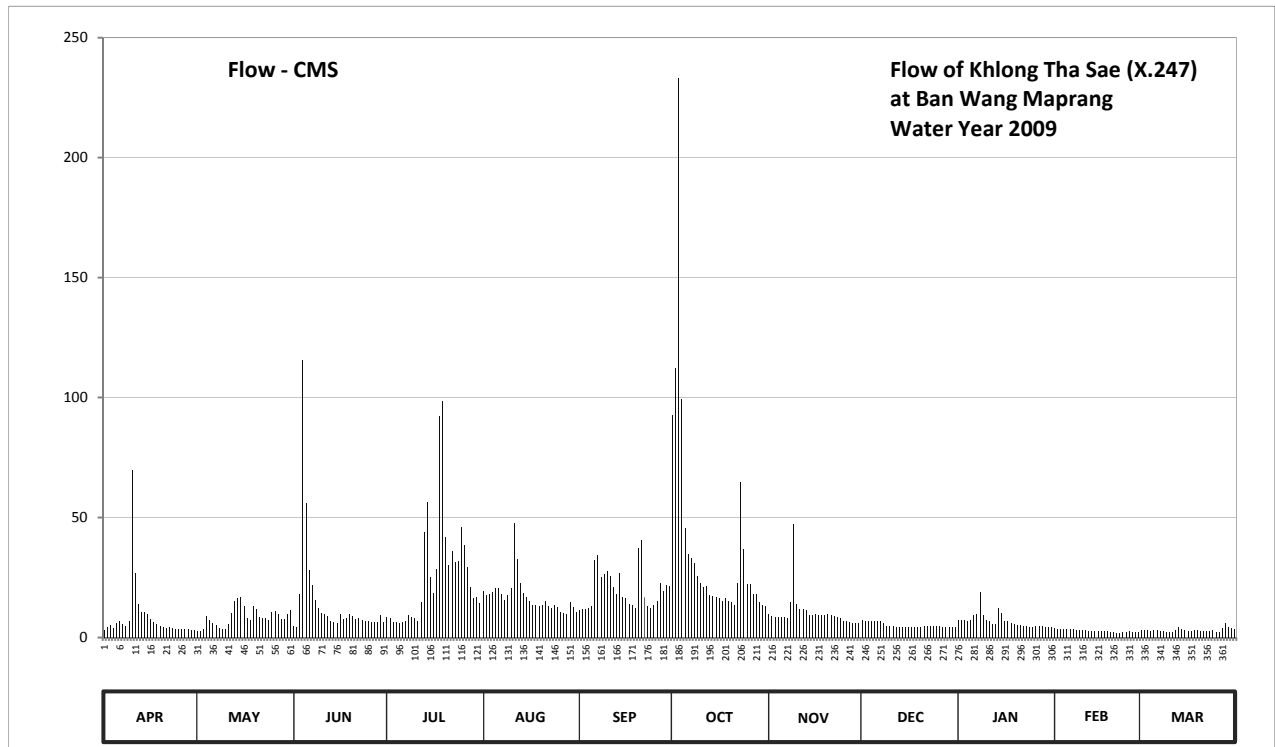
WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Khlong Tha Sae at Ban Wang Maprang , Chumphon (X.247)
 Lat 10 - 43 - 58 N Long 99 - 10 - 42 E

Location : on left bank at Ban Wang Maprang.

	Ban	Wang Maprang	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	656	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+12.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+23.427 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 means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.40	12.37	12.49	12.67	13.17	12.83	15.39	12.73	12.61	12.61	12.43	12.40	
2	12.47	12.38	12.47	12.65	13.10	12.85	15.79	12.70	12.60	12.61	12.42	12.39	
3	12.50	12.41	13.12	12.57	13.13	12.84	17.22	12.68	12.60	12.61	12.42	12.39	
4	12.45	12.69	15.84	12.57	13.16	12.86	15.54	12.68	12.59	12.60	12.41	12.38	
5	12.54	12.61	14.49	12.55	13.22	12.90	14.15	12.67	12.58	12.61	12.41	12.40	
6	12.58	12.55	13.53	12.57	13.23	13.69	13.79	12.67	12.59	12.72	12.41	12.40	
7	12.52	12.50	13.27	12.60	13.12	13.77	13.73	12.66	12.59	12.73	12.41	12.38	
8	12.49	12.44	13.03	12.71	13.02	13.41	13.64	12.99	12.55	13.16	12.40	12.36	
9	12.59	12.42	12.86	12.67	13.10	13.46	13.43	14.21	12.49	12.72	12.40	12.35	
10	14.87	12.42	12.75	12.65	13.23	13.50	13.31	12.94	12.48	12.61	12.40	12.35	
11	13.48	12.53	12.73	12.58	14.22	13.43	13.24	12.85	12.48	12.60	12.39	12.34	
12	12.95	12.75	12.69	12.98	13.70	13.24	13.26	12.84	12.47	12.52	12.38	12.40	
13	12.79	13.01	12.59	14.10	13.31	13.13	13.11	12.82	12.47	12.52	12.38	12.47	
14	12.78	13.06	12.56	14.50	13.14	13.48	13.09	12.71	12.46	12.87	12.38	12.42	
15	12.74	13.08	12.54	13.41	13.07	13.08	13.07	12.72	12.46	12.76	12.37	12.40	
16	12.63	12.91	12.73	13.15	13.00	13.06	13.06	12.73	12.46	12.58	12.37	12.38	
17	12.56	12.66	12.64	13.55	12.92	12.95	13.00	12.72	12.46	12.58	12.37	12.37	
18	12.52	12.62	12.66	15.38	12.92	12.92	13.05	12.71	12.47	12.55	12.37	12.40	
19	12.49	12.91	12.74	15.52	12.90	12.87	13.01	12.72	12.47	12.53	12.35	12.40	
20	12.47	12.84	12.69	14.03	12.93	13.88	12.99	12.73	12.47	12.51	12.34	12.38	
21	12.45	12.68	12.64	13.61	13.01	13.99	12.93	12.71	12.48	12.50	12.33	12.38	
22	12.47	12.65	12.65	13.84	12.91	13.07	13.30	12.69	12.48	12.49	12.33	12.38	
23	12.44	12.65	12.62	13.65	12.86	12.90	14.73	12.68	12.49	12.49	12.34	12.38	
24	12.42	12.61	12.60	13.68	12.92	12.86	13.86	12.66	12.49	12.47	12.35	12.39	
25	12.42	12.78	12.58	14.17	12.89	12.92	13.29	12.59	12.49	12.47	12.36	12.35	
26	12.42	12.81	12.57	13.92	12.78	13.01	13.29	12.59	12.48	12.49	12.35	12.35	
27	12.41	12.74	12.56	13.57	12.75	13.31	13.13	12.57	12.47	12.48	12.35	12.44	
28	12.41	12.63	12.57	13.24	12.74	13.18	13.13	12.55	12.47	12.48	12.35	12.54	
29	12.40	12.64	12.72	13.06	12.98	13.28	12.99	12.55	12.47	12.47		12.46	
30	12.39	12.74	12.57	13.08	12.88	13.25	12.93	12.54	12.46	12.47		12.44	
31		12.82		12.97	12.79		12.90		12.46	12.46		12.42	
Mean	12.64	12.67	12.88	13.36	13.07	13.20	13.66	12.75	12.50	12.59	12.38	12.40	
Max	14.87	13.08	15.84	15.52	14.22	13.99	17.22	14.21	12.61	13.16	12.43	12.54	17.22
Min	12.39	12.37	12.47	12.55	12.74	12.83	12.90	12.54	12.46	12.46	12.33	12.34	12.33
Annual Max Momentary Gage Height	17.3		m. (MSL) ,				at 12.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	12.00		m. (MSL) ,			River Bed	11.40	m. (MSL)					
Left Bank Elevation		25.21											
Right Bank Elevation		25.16					Drainage Area	656	Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	2.72	4.91	8.40	19.25	11.60	92.55	9.60	7.20	7.20	3.77	3.20	
2	4.53	2.88	4.53	8.00	17.50	12.00	112.45	9.00	7.00	7.20	3.58	3.04	
3	5.10	3.39	18.00	6.43	18.25	11.80	233.00	8.60	7.00	7.20	3.58	3.04	
4	4.15	8.80	115.40	6.43	19.00	12.20	99.30	8.60	6.81	7.00	3.39	2.88	
5	5.86	7.20	56.15	6.05	20.50	13.00	45.50	8.40	6.62	7.20	3.39	3.20	
6	6.62	6.05	28.25	6.43	20.75	32.25	34.75	8.40	6.81	9.40	3.39	3.20	
7	5.48	5.10	21.75	7.00	18.00	34.25	33.25	8.20	6.81	9.60	3.39	2.88	
8	4.91	3.96	15.75	9.20	15.50	25.25	31.00	14.80	6.05	19.00	3.20	2.56	
9	6.81	3.58	12.20	8.40	17.50	26.50	25.75	47.30	4.91	9.40	3.20	2.40	
10	69.80	3.58	10.00	8.00	20.75	27.50	22.75	13.80	4.72	7.20	3.20	2.40	
11	27.00	5.67	9.60	6.62	47.60	25.75	21.00	12.00	4.72	7.00	3.04	2.24	
12	14.00	10.00	8.80	14.60	32.50	21.00	21.50	11.80	4.53	5.48	2.88	3.20	
13	10.80	15.25	6.81	44.00	22.75	18.25	17.75	11.40	4.53	5.48	2.88	4.53	
14	10.60	16.50	6.24	56.50	18.50	27.00	17.25	9.20	4.34	12.40	2.88	3.58	
15	9.80	17.00	5.86	25.25	16.75	17.00	16.75	9.40	4.34	10.20	2.72	3.20	
16	7.60	13.20	9.60	18.75	15.00	16.50	16.50	9.60	4.34	6.62	2.72	2.88	
17	6.24	8.20	7.80	28.75	13.40	14.00	15.00	9.40	4.34	6.62	2.72	2.72	
18	5.48	7.40	8.20	92.10	13.40	13.40	16.25	9.20	4.53	6.05	2.72	3.20	
19	4.91	13.20	9.80	98.40	13.00	12.40	15.25	9.40	4.53	5.67	2.40	3.20	
20	4.53	11.80	8.80	41.90	13.60	37.40	14.80	9.60	4.53	5.29	2.24	2.88	
21	4.15	8.60	7.80	30.25	15.25	40.70	13.60	9.20	4.72	5.10	2.08	2.88	
22	4.53	8.00	8.00	36.20	13.20	16.75	22.50	8.80	4.72	4.91	2.08	2.88	
23	3.96	8.00	7.40	31.25	12.20	13.00	64.55	8.60	4.91	4.91	2.24	2.88	
24	3.58	7.20	7.00	32.00	13.40	12.20	36.80	8.20	4.91	4.53	2.40	3.04	
25	3.58	10.60	6.62	46.10	12.80	13.40	22.25	6.81	4.91	4.53	2.56	2.40	
26	3.58	11.20	6.43	38.60	10.60	15.25	22.25	6.81	4.72	4.91	2.40	2.40	
27	3.39	9.80	6.24	29.25	10.00	22.75	18.25	6.43	4.53	4.72	2.40	3.96	
28	3.39	7.60	6.43	21.00	9.80	19.50	18.25	6.05	4.53	4.72	2.40	5.86	
29	3.20	7.80	9.40	16.50	14.60	22.00	14.80	6.05	4.53	4.53		4.34	
30	3.04	9.80	6.43	17.00	12.60	21.25	13.60	5.86	4.34	4.53		3.96	
31		11.40		14.40	10.80		13.00		4.34	4.34		3.58	
Total	253.82	265.48	440.20	813.76	528.75	605.85	1162.20	310.51	59.82	212.94	79.85	98.61	4931.79 CMSDAY
Mean	8.46	8.56	14.67	26.25	17.06	20.20	37.49	10.35	5.16	6.87	2.85	3.18	13.51 CMS
Max	69.80	17.00	115.40	98.40	47.60	40.70	233.00	47.30	7.20	19.00	3.77	5.86	233.00 CMS
Min	3.04	2.72	4.53	6.05	9.80	11.60	13.00	5.86	4.34	4.34	2.08	2.24	2.08 CMS
Runoff	21.93	22.94	38.03	70.31	45.68	52.35	100.41	26.83	13.81	18.40	6.90	8.52	426.11 MCM
Momentary Peak	245.00 CMS. at 17.30 m. (MSL.) at 12.00 Hours , on Oct 3 , 2009												
Runoff Yield	20.57 Liters/Second/Square KM.			Momentary Peak Yield			373.06 Liters/Second/Square KM.						

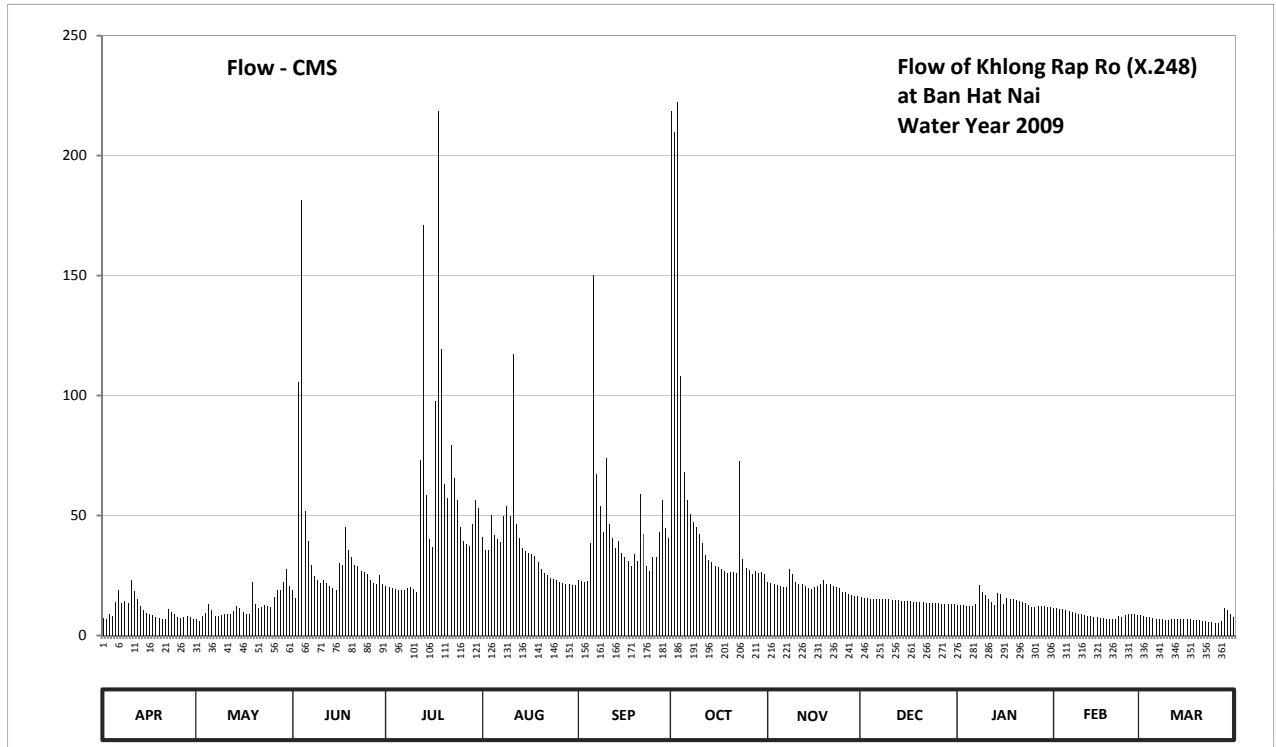
WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)
 Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

Location : on left bank at Ban Hat Nai.

	Ban	Hat Nai	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	691	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+16.734	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+27.734 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 means of 5 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.04	18.02	18.35	18.39	18.82	18.45	20.78	18.43	18.28	18.19	18.15	18.07	
2	18.03	18.00	18.27	18.38	18.71	18.44	20.71	18.42	18.27	18.19	18.15	18.06	
3	18.08	18.06	19.72	18.37	18.71	18.43	20.81	18.41	18.27	18.19	18.14	18.05	
4	18.06	18.10	20.48	18.36	18.97	18.44	19.75	18.40	18.26	18.18	18.14	18.05	
5	18.22	18.20	19.00	18.35	18.83	18.77	19.24	18.39	18.26	18.18	18.13	18.04	
6	18.35	18.13	18.79	18.35	18.80	20.20	19.07	18.38	18.25	18.18	18.12	18.03	
7	18.21	18.06	18.59	18.35	18.78	19.23	18.98	18.38	18.25	18.20	18.11	18.02	
8	18.23	18.06	18.48	18.37	18.96	19.03	18.92	18.55	18.25	18.40	18.10	18.02	
9	18.21	18.07	18.45	18.38	19.03	18.85	18.89	18.50	18.25	18.33	18.09	18.01	
10	18.45	18.09	18.42	18.36	18.96	19.32	18.84	18.43	18.25	18.30	18.08	18.01	
11	18.34	18.08	18.45	18.33	19.86	18.91	18.77	18.41	18.24	18.26	18.07	18.03	
12	18.25	18.08	18.42	19.31	18.91	18.81	18.67	18.41	18.24	18.22	18.06	18.02	
13	18.18	18.12	18.39	20.39	18.81	18.73	18.63	18.39	18.24	18.19	18.06	18.02	
14	18.13	18.18	18.37	19.10	18.73	18.79	18.61	18.37	18.23	18.32	18.05	18.02	
15	18.10	18.15	18.35	18.80	18.70	18.69	18.58	18.36	18.23	18.31	18.05	18.02	
16	18.09	18.11	18.60	18.74	18.69	18.65	18.57	18.38	18.23	18.20	18.04	18.02	
17	18.07	18.09	18.59	19.62	18.68	18.62	18.55	18.39	18.23	18.27	18.04	18.02	
18	18.05	18.09	18.89	20.78	18.66	18.58	18.53	18.41	18.22	18.26	18.03	18.01	
19	18.04	18.43	18.71	19.88	18.61	18.68	18.51	18.45	18.22	18.25	18.03	18.01	
20	18.03	18.20	18.65	19.17	18.55	18.62	18.52	18.41	18.22	18.24	18.03	18.01	
21	18.02	18.16	18.59	19.08	18.51	19.11	18.52	18.41	18.22	18.23	18.02	18.00	
22	18.14	18.17	18.58	19.39	18.49	18.84	18.51	18.39	18.21	18.22	18.06	18.00	
23	18.11	18.19	18.53	19.21	18.47	18.58	19.30	18.38	18.21	18.21	18.05	17.99	
24	18.09	18.18	18.52	19.07	18.46	18.53	18.64	18.37	18.21	18.19	18.07	17.99	
25	18.05	18.17	18.50	18.89	18.45	18.65	18.56	18.33	18.21	18.17	18.08	17.98	
26	18.04	18.28	18.45	18.79	18.43	18.65	18.54	18.33	18.21	18.17	18.08	17.98	
27	18.05	18.35	18.42	18.76	18.42	18.85	18.50	18.31	18.20	18.18	18.08	18.00	
28	18.06	18.35	18.41	18.75	18.41	19.07	18.53	18.30	18.20	18.18	18.07	18.15	
29	18.05	18.43	18.49	18.91	18.41	18.88	18.51	18.29	18.20	18.18		18.13	
30	18.03	18.55	18.41	19.07	18.40	18.81	18.52	18.29	18.20	18.17		18.08	
31		18.39		19.02	18.40		18.50		18.20	18.17		18.05	
Mean	18.13	18.18	18.63	18.93	18.70	18.81	18.92	18.39	18.23	18.22	18.08	18.03	
Max	18.45	18.55	20.48	20.78	19.86	20.20	20.81	18.55	18.28	18.40	18.15	18.15	20.81
Min	18.02	18.00	18.27	18.33	18.40	18.43	18.50	18.29	18.20	18.17	18.02	17.98	17.98
Annual Max Momentary Gage Height		21.29	m. (MSL.) ,				at 06.00 Hours , on Oct 1 , 2009						
Zero Gage at Bottom Elevation		16.73	m. (MSL.) ,			River Bed	16.60	m. (MSL)					
Left Bank Elevation		27.36	m. (MSL.) ,										
Right Bank Elevation		27.35	m. (MSL.) ,			Drainage Area	691	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.40	6.70	19.00	20.60	41.20	23.25	218.50	22.35	16.20	12.65	11.25	8.45	
2	7.05	6.00	15.80	20.20	35.50	22.80	209.75	21.90	15.80	12.65	11.25	8.10	
3	8.80	8.10	105.60	19.80	35.50	22.35	222.35	21.45	15.80	12.65	10.90	7.75	
4	8.10	9.50	181.60	19.40	50.20	22.80	108.00	21.00	15.40	12.30	10.90	7.75	
5	13.80	13.00	52.00	19.00	41.80	38.50	68.00	20.60	15.40	12.30	10.55	7.40	
6	19.00	10.55	39.50	19.00	40.00	150.00	56.55	20.20	15.00	12.30	10.20	7.05	
7	13.40	8.10	29.55	19.00	39.00	67.25	50.80	20.20	15.00	13.00	9.85	6.70	
8	14.20	8.10	24.60	19.80	49.60	53.95	47.20	27.75	15.00	21.00	9.50	6.70	
9	13.40	8.45	23.25	20.20	53.95	43.00	45.40	25.50	15.00	18.20	9.15	6.35	
10	23.25	9.15	21.90	19.40	49.60	74.00	42.40	22.35	15.00	17.00	8.80	6.35	
11	18.60	8.80	23.25	18.20	117.40	46.60	38.50	21.45	14.60	15.40	8.45	7.05	
12	15.00	8.80	21.90	73.25	46.60	40.60	33.50	21.45	14.60	13.80	8.10	6.70	
13	12.30	10.20	20.60	170.90	40.60	36.50	31.50	20.60	14.60	12.65	8.10	6.70	
14	10.55	12.30	19.80	58.50	36.50	39.50	30.50	19.80	14.20	17.80	7.75	6.70	
15	9.50	11.25	19.00	40.00	35.00	34.50	29.10	19.40	14.20	17.40	7.75	6.70	
16	9.15	9.85	30.00	37.00	34.50	32.50	28.65	20.20	14.20	13.00	7.40	6.70	
17	8.45	9.15	29.55	97.60	34.00	31.00	27.75	20.60	14.20	15.80	7.40	6.70	
18	7.75	9.15	45.40	218.50	33.00	29.10	26.85	21.45	13.80	15.40	7.05	6.35	
19	7.40	22.35	35.50	119.20	30.50	34.00	25.95	23.25	13.80	15.00	7.05	6.35	
20	7.05	13.00	32.50	63.05	27.75	31.00	26.40	21.45	13.80	14.60	7.05	6.35	
21	6.70	11.60	29.55	57.20	25.95	59.15	26.40	21.45	13.80	14.20	6.70	6.00	
22	10.90	11.95	29.10	79.25	25.05	42.40	25.95	20.60	13.40	13.80	8.10	6.00	
23	9.85	12.65	26.85	65.75	24.15	29.10	72.50	20.20	13.40	13.40	7.75	5.70	
24	9.15	12.30	26.40	56.55	23.70	26.85	32.00	19.80	13.40	12.65	8.45	5.70	
25	7.75	11.95	25.50	45.40	23.25	32.50	28.20	18.20	13.40	11.95	8.80	5.40	
26	7.40	16.20	23.25	39.50	22.35	32.50	27.30	18.20	13.40	11.95	8.80	5.40	
27	7.75	19.00	21.90	38.00	21.90	43.00	25.50	17.40	13.00	12.30	8.80	6.00	
28	8.10	19.00	21.45	37.50	21.45	56.55	26.85	17.00	13.00	12.30	8.45	11.25	
29	7.75	22.35	25.05	46.60	21.45	44.80	25.95	16.60	13.00	12.30		10.55	
30	7.05	27.75	21.45	56.55	21.00	40.60	26.40	16.60	13.00	11.95		8.80	
31		20.60		53.30	21.00		25.50		13.00	11.95		7.75	
Total	316.55	387.85	1040.80	1668.20	1123.45	1280.65	1710.20	619.00	441.40	433.65	244.30	217.45	9483.50 CMSDAY
Mean	10.55	12.51	34.69	53.81	36.24	42.69	55.17	20.63	14.24	13.99	8.73	7.01	25.98 CMS
Max	23.25	27.75	181.60	218.50	117.40	150.00	222.35	27.75	16.20	21.00	11.25	11.25	222.35 CMS
Min	6.70	6.00	15.80	18.20	21.00	22.35	25.50	16.60	13.00	11.95	6.70	5.40	5.40 CMS
Runoff	27.35	33.51	89.93	144.13	97.07	110.65	147.76	53.48	38.14	37.47	21.11	18.79	819.38 MCM
Momentary Peak	293.30 CMS. at 21.29 m. (MSL.) at 06.00 Hours , on Oct 1 , 2009												
Runoff Yield	37.59 Liters/Second/Square KM.			Momentary Peak Yield				424.334 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST

Lower Khlong Tako at Ban Nong Chik , Chumphon (X.270)

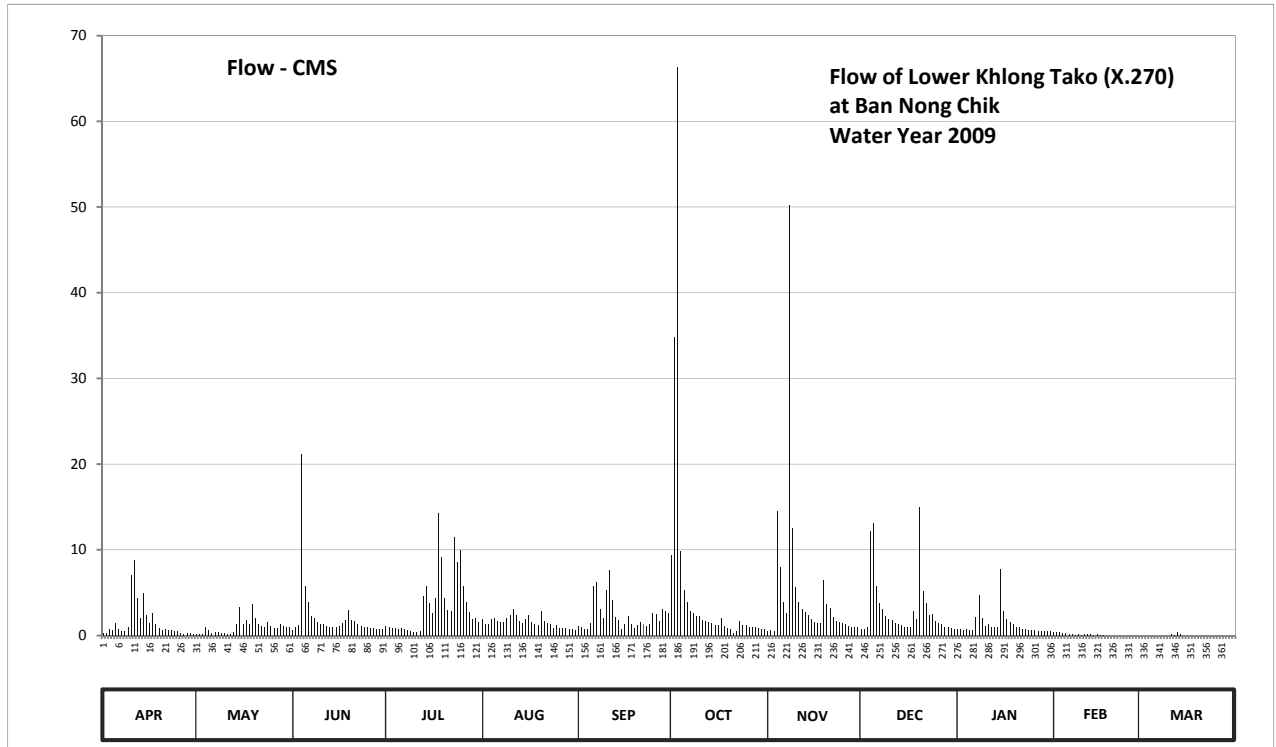
Lat 09 - 57 - 15 N Long 99 - 04 - 47 E

Location : on left bank at Ban Nong Chik.

	Ban	Nong Chik	Amphoe	Thung Tako	Changwat	Chumphon
Drainage Area	68 sq.km.					
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank downstream at the footpath.				Elevation	+9.930 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 means of 5 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.08	2.06	2.20	2.32	2.52	2.32	3.48	2.19	2.25	2.23	2.14	1.91	
2	2.08	2.04	2.29	2.31	2.37	2.29	5.10	2.20	2.25	2.23	2.13	1.93	
3	2.23	2.05	2.36	2.27	2.38	2.25	6.22	2.19	2.28	2.21	2.12	1.91	
4	2.20	2.29	4.40	2.26	2.52	2.25	3.52	3.93	3.73	2.24	2.09	1.87	
5	2.40	2.21	3.11	2.23	2.55	2.41	3.05	3.34	3.81	2.22	2.09	1.83	
6	2.24	2.11	2.87	2.26	2.46	3.11	2.88	2.88	3.10	2.22	2.05	1.83	
7	2.17	2.12	2.61	2.24	2.43	3.16	2.72	2.67	2.86	2.59	2.05	1.87	
8	2.16	2.12	2.56	2.21	2.43	2.77	2.68	5.69	2.76	2.97	2.03	1.89	
9	2.29	2.10	2.44	2.19	2.57	2.57	2.62	3.76	2.61	2.56	2.05	1.92	
10	3.24	2.10	2.37	2.15	2.64	3.05	2.61	3.09	2.54	2.33	2.03	1.96	
11	3.42	2.07	2.37	2.13	2.76	3.30	2.51	2.87	2.50	2.38	2.04	2.04	
12	2.93	2.07	2.32	2.18	2.64	2.90	2.47	2.76	2.40	2.31	2.04	2.02	
13	2.56	2.13	2.28	2.96	2.48	2.60	2.43	2.69	2.37	2.29	2.04	2.13	
14	3.00	2.39	2.28	3.11	2.41	2.51	2.40	2.64	2.36	2.31	2.03	2.06	
15	2.63	2.81	2.30	2.86	2.54	2.25	2.36	2.52	2.31	3.32	2.04	1.97	
16	2.41	2.39	2.32	2.67	2.64	2.39	2.35	2.45	2.28	2.72	2.02	1.93	
17	2.68	2.51	2.41	2.94	2.44	2.61	2.57	2.42	2.29	2.53	2.01	1.94	
18	2.39	2.38	2.49	3.91	2.37	2.37	2.34	2.41	2.72	2.43	2.00	1.94	
19	2.26	2.85	2.73	3.46	2.35	2.27	2.27	3.18	2.52	2.37	2.00	1.90	
20	2.22	2.55	2.51	2.93	2.72	2.36	2.24	2.84	3.97	2.31	1.99	1.88	
21	2.23	2.38	2.47	2.74	2.48	2.44	2.11	2.79	3.03	2.28	1.97	1.96	
22	2.22	2.32	2.37	2.72	2.40	2.38	2.16	2.59	2.86	2.25	1.94	1.94	
23	2.20	2.28	2.33	3.67	2.37	2.34	2.48	2.48	2.64	2.23	1.92	1.94	
24	2.19	2.44	2.30	3.40	2.27	2.39	2.35	2.43	2.65	2.22	1.90	1.90	
25	2.16	2.34	2.28	3.54	2.35	2.67	2.36	2.40	2.47	2.21	1.92	1.90	
26	2.11	2.27	2.26	3.10	2.27	2.65	2.30	2.37	2.40	2.20	1.90	1.90	
27	2.06	2.26	2.26	2.87	2.27	2.46	2.28	2.34	2.38	2.19	1.92	1.91	
28	2.10	2.37	2.25	2.70	2.27	2.77	2.29	2.29	2.31	2.19	1.92	1.92	
29	2.10	2.32	2.25	2.54	2.25	2.72	2.26	2.30	2.28	2.18		1.94	
30	2.04	2.30	2.24	2.55	2.25	2.68	2.25	2.29	2.26	2.17		1.96	
31		2.31		2.45	2.22		2.25		2.25	2.17		1.98	
Mean	2.37	2.29	2.47	2.71	2.44	2.57	2.71	2.77	2.63	2.36	2.01	1.93	
Max	3.42	2.85	4.40	3.91	2.76	3.30	6.22	5.69	3.97	3.32	2.14	2.13	6.22
Min	2.04	2.04	2.20	2.13	2.22	2.25	2.11	2.19	2.25	2.17	1.90	1.83	1.83
Annual Max Momentary Gage Height	6.32		m. (MSL.) ,				at 06.00 Hours , on Oct 3 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	1.76	m. (MSL)					
Left Bank Elevation		9.91											
Right Bank Elevation		9.92				Drainage Area	68	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.18	0.60	1.08	1.88	1.08	9.40	0.57	0.80	0.72	0.42	0.00	
2	0.24	0.12	0.96	1.04	1.28	0.96	34.80	0.60	0.80	0.72	0.39	0.00	
3	0.72	0.15	1.24	0.88	1.32	0.80	66.31	0.57	0.92	0.64	0.36	0.00	
4	0.60	0.96	21.20	0.84	1.88	0.80	9.80	14.56	12.16	0.76	0.27	0.00	
5	1.40	0.64	5.83	0.72	2.00	1.44	5.32	8.00	13.12	0.68	0.27	0.00	
6	0.76	0.33	3.86	0.84	1.64	5.83	3.94	3.94	5.75	0.68	0.15	0.00	
7	0.51	0.36	2.26	0.76	1.52	6.26	2.86	2.59	3.78	2.16	0.15	0.00	
8	0.48	0.36	2.04	0.64	1.52	3.14	2.64	50.21	3.08	4.66	0.09	0.00	
9	0.96	0.30	1.56	0.57	2.08	2.08	2.31	12.52	2.26	2.04	0.15	0.00	
10	7.00	0.30	1.28	0.45	2.42	5.32	2.26	5.66	1.96	1.12	0.09	0.00	
11	8.80	0.21	1.28	0.39	3.08	7.60	1.84	3.86	1.80	1.32	0.12	0.12	
12	4.34	0.21	1.08	0.54	2.42	4.10	1.68	3.08	1.40	1.04	0.12	0.06	
13	2.04	0.39	0.92	4.58	1.72	2.20	1.52	2.70	1.28	0.96	0.12	0.39	
14	4.90	1.36	0.92	5.83	1.44	1.84	1.40	2.42	1.24	1.04	0.09	0.18	
15	2.37	3.38	1.00	3.78	1.96	0.80	1.24	1.88	1.04	7.80	0.12	0.00	
16	1.44	1.36	1.08	2.59	2.42	1.36	1.20	1.60	0.92	2.86	0.06	0.00	
17	2.64	1.84	1.44	4.42	1.56	2.26	2.08	1.48	0.96	1.92	0.03	0.00	
18	1.36	1.32	1.76	14.32	1.28	1.28	1.16	1.44	2.86	1.52	0.00	0.00	
19	0.84	3.70	2.92	9.20	1.20	0.88	0.88	6.43	1.88	1.28	0.00	0.00	
20	0.68	2.00	1.84	4.34	2.86	1.24	0.76	3.62	15.04	1.04	0.00	0.00	
21	0.72	1.32	1.68	2.97	1.72	1.56	0.33	3.25	5.15	0.92	0.00	0.00	
22	0.68	1.08	1.28	2.86	1.40	1.32	0.48	2.16	3.78	0.80	0.00	0.00	
23	0.60	0.92	1.12	11.44	1.28	1.16	1.72	1.72	2.42	0.72	0.00	0.00	
24	0.57	1.56	1.00	8.60	0.88	1.36	1.20	1.52	2.48	0.68	0.00	0.00	
25	0.48	1.16	0.92	10.00	1.20	2.59	1.24	1.40	1.68	0.64	0.00	0.00	
26	0.33	0.88	0.84	5.75	0.88	2.48	1.00	1.28	1.40	0.60	0.00	0.00	
27	0.18	0.84	0.84	3.86	0.88	1.64	0.92	1.16	1.32	0.57	0.00	0.00	
28	0.30	1.28	0.80	2.75	0.88	3.14	0.96	0.96	1.04	0.57	0.00	0.00	
29	0.30	1.08	0.80	1.96	0.80	2.86	0.84	1.00	0.92	0.54	0.00	0.00	
30	0.12	1.00	0.76	2.00	0.80	2.64	0.80	0.96	0.84	0.51	0.00	0.00	
31		1.04		1.60	0.68		0.80		0.80	0.51		0.00	
Total	46.60	31.63	65.11	111.60	48.88	72.02	163.69	143.14	94.88	42.02	3.00	0.75	823.32 CMSDAY
Mean	1.55	1.02	2.17	3.60	1.58	2.40	5.28	4.77	3.06	1.36	0.11	0.02	2.26 CMS
Max	8.80	3.70	21.20	14.32	3.08	7.60	66.31	50.21	15.04	7.80	0.42	0.39	66.31 CMS
Min	0.12	0.12	0.60	0.39	0.68	0.80	0.33	0.57	0.80	0.51	0.00	0.00	0.00 CMS
Runoff	4.03	2.73	5.63	9.64	4.22	6.22	14.14	12.37	8.20	3.63	0.26	0.07	71.14 MCM
Momentary Peak	69.86 CMS. at 6.32 m. (MSL.) at 06.00 Hours , on Oct 3 , 2009												
Runoff Yield	33.12 Liters/Second/Square KM.			Momentary Peak Yield				125.844 /Second/Square KM.					

WATER YEAR : 2009

TAPI RIVER BASIN

Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)

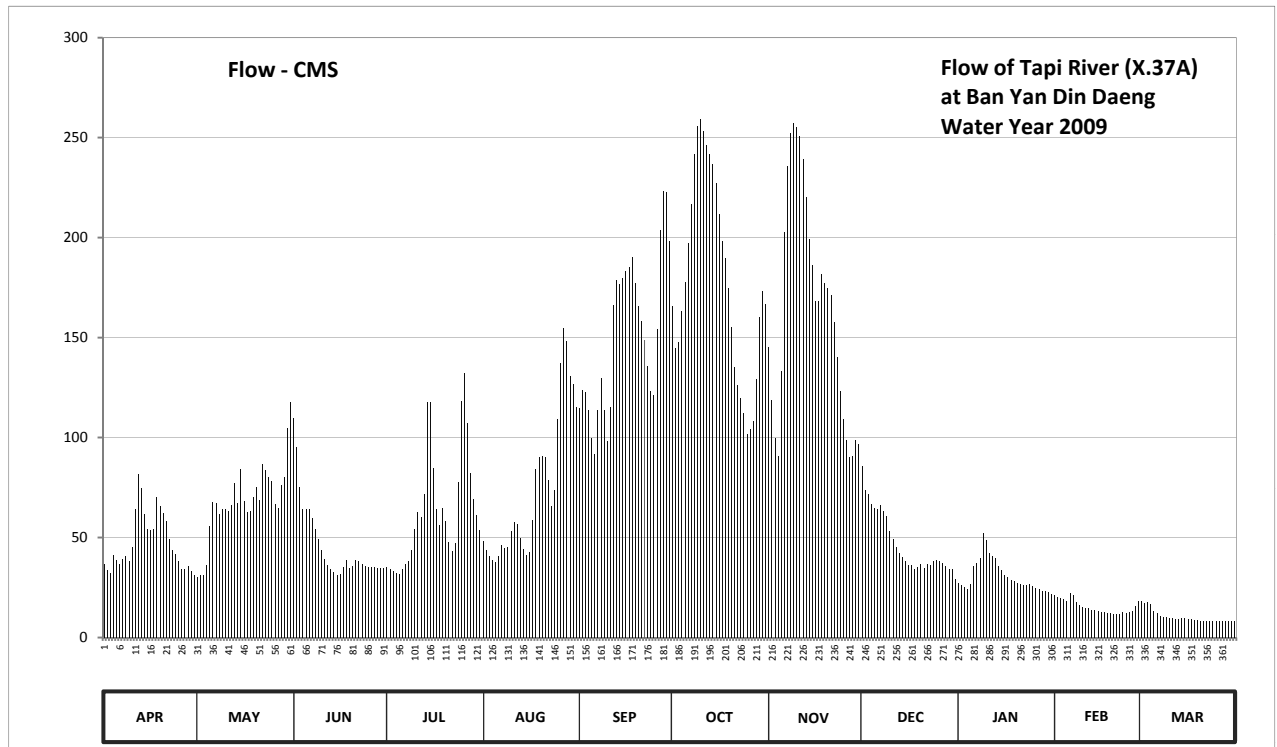
Lat 08 - 34 - 03 N Long 99 - 15 - 15 E

Location : on left bank at Tambon Yan Din Daeng.

	Ban Yan Din Daeng	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	5,383 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.	Elevation	+10.240 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1969 to date		
Rating Operation			
Period of Rating	1969 to date		
Rated by Flot	-		
Rated by Current Meter	1969 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.57	5.41	7.15	5.53	5.84	7.25	8.10	7.77	6.67	5.32	5.14	5.06	
2	5.49	5.43	6.86	5.51	5.74	7.41	7.76	7.32	6.42	5.29	5.12	5.02	
3	5.46	5.43	6.45	5.48	5.66	7.39	7.81	6.95	6.37	5.26	5.10	5.03	
4	5.68	5.56	6.21	5.45	5.62	7.23	8.06	6.77	6.26	5.24	5.08	5.01	
5	5.62	6.02	6.21	5.44	5.59	6.95	8.29	7.57	6.22	5.31	5.06	4.90	
6	5.57	6.28	6.20	5.50	5.66	6.79	8.59	8.67	6.21	5.54	5.17	4.86	
7	5.63	6.27	6.10	5.57	5.79	7.23	8.89	9.18	6.25	5.58	5.14	4.83	
8	5.67	6.15	5.98	5.61	5.76	7.51	9.27	9.42	6.18	5.64	5.03	4.81	
9	5.61	6.20	5.86	5.74	5.77	7.23	9.47	9.49	6.13	5.93	4.99	4.80	
10	5.77	6.21	5.73	5.98	5.96	6.92	9.52	9.46	5.96	5.85	4.96	4.78	
11	6.20	6.18	5.63	6.17	6.06	7.26	9.43	9.40	5.86	5.70	4.95	4.78	
12	6.59	6.25	5.56	6.12	6.04	8.11	9.33	9.23	5.77	5.66	4.94	4.77	
13	6.44	6.49	5.51	6.37	5.88	8.30	9.27	8.94	5.70	5.64	4.92	4.77	
14	6.15	6.27	5.47	7.30	5.75	8.27	9.20	8.62	5.65	5.54	4.91	4.78	
15	5.98	6.64	5.43	7.30	5.68	8.32	9.05	8.42	5.60	5.49	4.90	4.78	
16	5.97	6.29	5.44	6.65	5.71	8.37	8.81	8.14	5.56	5.43	4.89	4.76	
17	5.98	6.17	5.53	6.21	6.08	8.40	8.60	8.14	5.56	5.40	4.88	4.75	
18	6.34	6.18	5.62	6.03	6.64	8.48	8.47	8.35	5.51	5.37	4.87	4.74	
19	6.24	6.34	5.52	6.22	6.76	8.28	8.24	8.28	5.53	5.35	4.86	4.73	
20	6.16	6.45	5.54	6.07	6.77	8.10	7.94	8.24	5.57	5.32	4.85	4.72	
21	6.07	6.30	5.62	5.83	6.76	7.99	7.60	8.19	5.52	5.31	4.85	4.71	
22	5.86	6.69	5.60	5.72	6.53	7.83	7.45	7.98	5.57	5.30	4.85	4.72	
23	5.73	6.63	5.57	5.82	6.24	7.61	7.34	7.69	5.55	5.30	4.88	4.72	
24	5.69	6.56	5.54	6.50	6.42	7.40	7.20	7.40	5.60	5.31	4.86	4.70	
25	5.60	6.51	5.53	7.31	7.14	7.37	6.99	7.14	5.62	5.28	4.88	4.70	
26	5.51	6.26	5.53	7.55	7.64	7.92	7.04	6.93	5.60	5.25	4.90	4.71	
27	5.51	6.22	5.53	7.10	7.93	8.69	7.12	6.76	5.58	5.23	4.97	4.70	
28	5.54	6.47	5.52	6.60	7.82	8.99	7.50	6.77	5.54	5.21	5.06	4.70	
29	5.48	6.56	5.52	6.32	7.53	8.98	8.02	6.93	5.50	5.20		4.70	
30	5.43	7.05	5.52	6.14	7.46	8.60	8.22	6.89	5.51	5.19		4.72	
31		7.30		5.97	7.26		8.12		5.38	5.16		4.71	
Mean	5.82	6.28	5.78	6.16	6.37	7.84	8.28	8.03	5.80	5.41	4.96	4.79	
Max	6.59	7.30	7.15	7.55	7.93	8.99	9.52	9.49	6.67	5.93	5.17	5.06	9.52
Min	5.43	5.41	5.43	5.44	5.59	6.79	6.99	6.76	5.38	5.16	4.85	4.70	4.70
Annual Max Momentary Gage Height	9.52		m. (MSL.) ,			at 06.00 Hours , on Oct 10 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed 2.93		m. (MSL)					
Left Bank Elevation	12.43		m. (MSL.) ,										
Right Bank Elevation	12.59		m. (MSL.) ,			Drainage Area 5383		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.80	30.40	109.50	35.20	48.20	114.75	165.50	145.20	85.50	27.20	21.05	18.45	
2	33.60	31.20	95.00	34.40	43.95	123.60	144.60	118.60	73.90	26.15	20.40	17.15	
3	32.40	31.20	75.25	33.20	40.55	122.45	147.60	99.50	71.65	25.10	19.75	17.48	
4	41.40	36.40	64.45	32.00	38.85	113.65	162.90	90.50	66.70	24.40	19.10	16.83	
5	38.85	55.90	64.45	31.60	37.60	99.50	177.85	133.20	64.90	26.85	18.45	13.25	
6	36.80	67.60	64.00	34.00	40.55	91.50	197.35	202.55	64.45	35.60	22.03	11.95	
7	39.28	67.15	59.50	36.80	46.08	113.65	216.85	235.70	66.25	37.20	21.05	10.97	
8	40.98	61.75	54.15	38.43	44.80	129.60	241.90	252.40	63.10	39.70	17.48	10.32	
9	38.43	64.00	49.05	43.95	45.23	113.65	255.90	257.30	60.85	52.02	16.17	10.00	
10	45.23	64.45	43.53	54.15	53.30	98.00	259.40	255.20	53.30	48.62	15.20	9.60	
11	64.00	63.10	39.28	62.65	57.70	115.30	253.10	251.00	49.05	42.25	14.87	9.60	
12	81.55	66.25	36.40	60.40	56.80	166.15	246.10	239.10	45.23	40.55	14.55	9.40	
13	74.80	77.05	34.40	71.65	49.90	178.50	241.90	220.10	42.25	39.70	13.90	9.40	
14	61.75	67.15	32.80	117.50	44.38	176.55	237.00	199.30	40.13	35.60	13.57	9.60	
15	54.15	84.00	31.20	117.50	41.40	179.80	227.25	186.30	38.00	33.60	13.25	9.60	
16	53.72	68.05	31.60	84.50	42.68	183.05	211.65	168.10	36.40	31.20	12.92	9.20	
17	54.15	62.65	35.20	64.45	58.60	185.00	198.00	168.10	36.40	30.00	12.60	9.00	
18	70.30	63.10	38.85	56.35	84.00	190.20	189.55	181.75	34.40	28.95	12.27	8.80	
19	65.80	70.30	34.80	64.90	90.00	177.20	174.60	177.20	35.20	28.25	11.95	8.60	
20	62.20	75.25	35.60	58.15	90.50	165.50	155.40	174.60	36.80	27.20	11.62	8.40	
21	58.15	68.50	38.85	47.77	90.00	158.40	135.00	171.35	34.80	26.85	11.62	8.20	
22	49.05	86.50	38.00	43.10	78.85	148.80	126.00	157.80	36.80	26.50	11.62	8.40	
23	43.53	83.50	36.80	47.35	65.80	135.60	119.70	140.40	36.00	26.50	12.60	8.40	
24	41.83	80.20	35.60	77.50	73.90	123.00	112.00	123.00	38.00	26.85	11.95	8.00	
25	38.00	77.95	35.20	118.05	109.00	121.35	101.50	109.00	38.85	25.80	12.60	8.00	
26	34.40	66.70	35.20	132.00	137.40	154.20	104.00	98.50	38.00	24.75	13.25	8.20	
27	34.40	64.90	35.20	107.00	154.80	203.85	108.00	90.00	37.20	24.05	15.52	8.00	
28	35.60	76.15	34.80	82.00	148.20	223.35	129.00	90.50	35.60	23.35	18.45	8.00	
29	33.20	80.20	34.80	69.40	130.80	222.70	160.30	98.50	34.00	23.00		8.00	
30	31.20	104.50	34.80	61.30	126.60	198.00	173.30	96.50	34.40	22.68		8.40	
31		117.50		53.72	115.30		166.80		29.30	21.70		8.20	
Total	1425.55	2113.55	1388.26	1970.97	2285.72	4526.85	5540.00	4931.25	1457.41	952.17	429.79	317.40	27338.92 CMSDAY
Mean	47.52	68.18	46.28	63.58	73.73	150.90	178.71	164.38	47.01	30.72	15.35	10.24	74.90 CMS
Max	81.55	117.50	109.50	132.00	154.80	223.35	259.40	257.30	85.50	52.02	22.03	18.45	259.40 CMS
Min	31.20	30.40	31.20	31.60	37.60	91.50	101.50	90.00	29.30	21.70	11.62	8.00	8.00 CMS
Runoff	123.17	182.61	119.95	170.29	197.49	391.12	478.66	426.06	125.92	82.27	37.13	27.42	2362.08 MCM
Momentary Peak	259.40 CMS. at 9.52 m. (MSL.) at 06.00 Hours , on Oct 10 , 2009												
Runoff Yield	13.91 Liters/Second/Square KM.			Momentary Peak Yield				48.187 Liters/Second/Square KM.					

WATER YEAR : 2009

TAPI RIVER BASIN

Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)

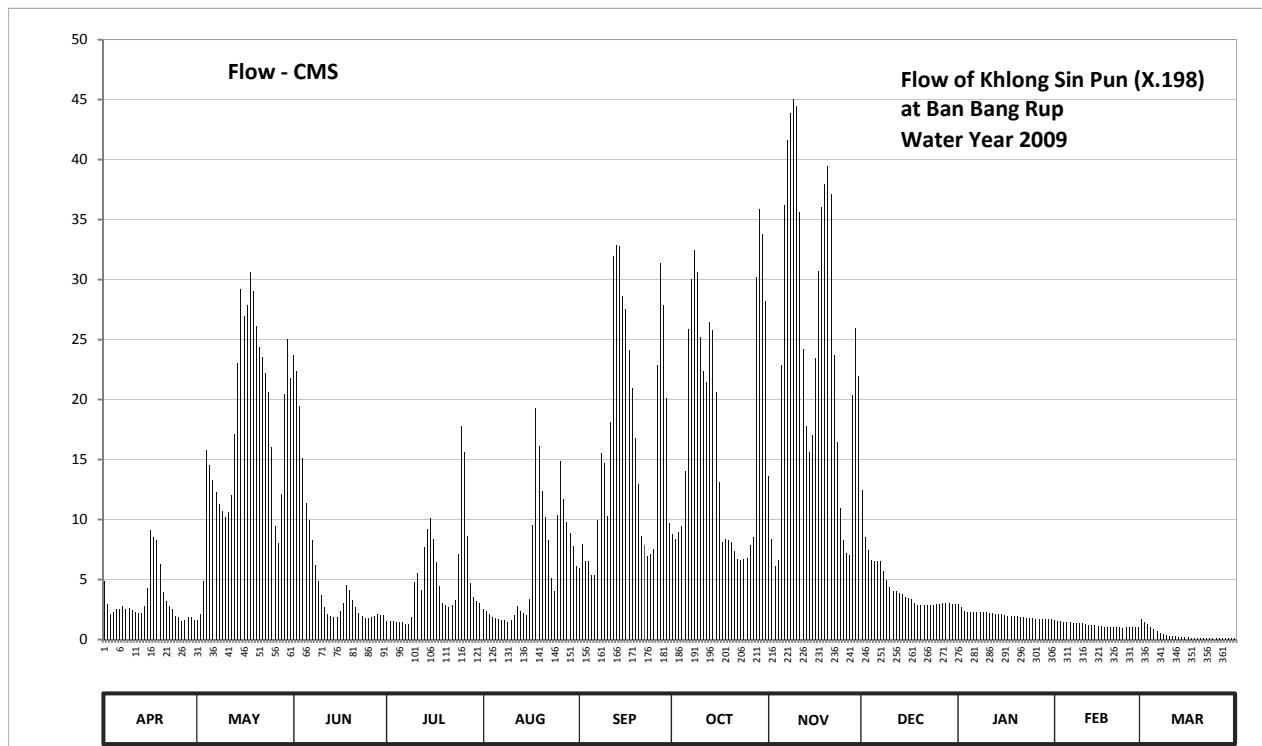
Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

	Ban Bang Rup	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	866 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.	Elevation	+19.259 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 means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.64	10.03	12.77	10.01	10.22	10.82	11.21	11.80	11.67	10.30	10.02	10.05	
2	10.30	10.14	12.65	10.01	10.20	11.10	11.16	11.16	11.18	10.26	10.01	9.99	
3	10.13	10.64	12.38	10.00	10.13	10.90	11.23	10.85	11.04	10.19	10.00	9.93	
4	10.17	12.02	11.95	9.98	10.08	10.90	11.30	10.92	10.92	10.18	9.99	9.86	
5	10.22	11.89	11.55	9.98	10.07	10.73	11.84	12.70	10.90	10.18	9.99	9.81	
6	10.23	11.76	11.37	9.98	10.05	10.73	12.97	13.90	10.90	10.18	9.98	9.76	
7	10.27	11.65	11.14	9.94	10.03	11.37	13.35	14.35	10.90	10.18	9.97	9.70	
8	10.23	11.54	10.86	9.95	10.02	11.99	13.57	14.54	10.78	10.18	9.97	9.66	
9	10.24	11.46	10.64	10.08	9.99	11.91	13.40	14.64	10.66	10.17	9.96	9.62	
10	10.21	11.40	10.44	10.63	10.02	11.41	12.91	14.59	10.56	10.17	9.96	9.60	
11	10.17	11.45	10.25	10.75	10.12	12.25	12.65	13.85	10.50	10.16	9.93	9.58	
12	10.16	11.63	10.13	10.52	10.27	13.52	12.57	12.82	10.50	10.15	9.92	9.58	
13	10.15	12.15	10.11	11.07	10.19	13.61	13.02	12.22	10.47	10.14	9.91	9.56	
14	10.27	12.71	10.08	11.27	10.16	13.60	12.96	12.00	10.45	10.14	9.91	9.54	
15	10.54	13.27	10.08	11.39	10.12	13.22	12.49	12.14	10.41	10.13	9.89	9.52	
16	11.26	13.07	10.19	11.16	10.37	13.12	11.75	12.75	10.39	10.12	9.90	9.51	
17	11.18	13.15	10.31	10.89	11.31	12.81	11.12	13.41	10.37	10.11	9.88	9.50	
18	11.14	13.40	10.59	10.57	12.37	12.52	11.16	13.89	10.32	10.11	9.88	9.50	
19	10.87	13.26	10.51	10.31	12.05	12.12	11.15	14.05	10.29	10.11	9.88	9.50	
20	10.48	12.99	10.36	10.28	11.66	11.73	11.12	14.17	10.29	10.11	9.87	9.50	
21	10.34	12.83	10.25	10.25	11.40	11.19	11.03	13.98	10.29	10.09	9.86	9.49	
22	10.27	12.76	10.16	10.29	11.15	11.09	10.93	12.77	10.28	10.08	9.86	9.49	
23	10.22	12.64	10.10	10.36	10.69	10.96	10.92	12.08	10.28	10.07	9.84	9.49	
24	10.11	12.49	10.07	10.99	10.50	10.99	10.93	11.49	10.29	10.06	9.88	9.49	
25	10.08	12.04	10.06	12.22	11.42	11.05	10.94	11.15	10.30	10.06	9.88	9.49	
26	10.01	11.30	10.08	12.00	11.93	12.70	11.09	11.00	10.30	10.05	9.88	9.48	
27	10.02	11.11	10.10	11.19	11.59	13.47	11.18	10.98	10.31	10.05	9.88	9.48	
28	10.09	11.64	10.13	10.62	11.35	13.15	13.36	12.47	10.31	10.05	9.87	9.48	
29	10.09	12.48	10.12	10.41	11.22	12.45	13.87	12.98	10.31	10.04		9.48	
30	10.03	12.89	10.12	10.34	11.08	11.34	13.69	12.61	10.30	10.04		9.48	
31		12.60		10.32	10.85		13.18		10.30	10.04		9.48	
Mean	10.34	12.08	10.65	10.57	10.73	11.96	12.07	12.74	10.54	10.13	9.92	9.60	
Max	11.26	13.40	12.77	12.22	12.37	13.61	13.87	14.64	11.67	10.30	10.02	10.05	14.64
Min	10.01	10.03	10.06	9.94	9.99	10.73	10.92	10.85	10.28	10.04	9.84	9.48	9.48
Annual Max Momentary Gage Height	14.67		m. (MSL.) ,				at 18.00 Hours , on Nov 9 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	9.57		m. (MSL)				
Left Bank Elevation	18.90		m. (MSL.) ,										
Right Bank Elevation	18.31		m. (MSL.) ,			Drainage Area	866		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.84	1.63	23.67	1.55	2.51	5.94	8.78	13.60	12.43	2.95	1.59	1.73	
2	2.95	2.13	22.35	1.55	2.40	7.95	8.40	8.40	8.55	2.73	1.55	1.46	
3	2.09	4.84	19.40	1.50	2.09	6.50	8.92	6.15	7.50	2.35	1.50	1.26	
4	2.27	15.80	15.10	1.43	1.86	6.50	9.45	6.64	6.64	2.31	1.46	1.01	
5	2.51	14.50	11.40	1.43	1.81	5.38	14.00	22.90	6.50	2.31	1.46	0.84	
6	2.56	13.24	9.98	1.43	1.73	5.38	25.87	36.20	6.50	2.31	1.43	0.70	
7	2.79	12.25	8.25	1.29	1.63	9.98	30.05	41.60	6.50	2.31	1.40	0.55	
8	2.56	11.32	6.22	1.32	1.59	15.50	32.47	43.88	5.68	2.31	1.40	0.45	
9	2.62	10.68	4.84	1.86	1.46	14.70	30.60	45.08	4.96	2.27	1.36	0.35	
10	2.46	10.20	3.72	4.78	1.59	10.28	25.21	44.48	4.38	2.27	1.36	0.30	
11	2.27	10.60	2.68	5.50	2.04	18.10	22.35	35.60	4.05	2.22	1.26	0.27	
12	2.22	12.07	2.09	4.16	2.79	31.92	21.47	24.22	4.05	2.17	1.22	0.27	
13	2.17	17.10	1.99	7.72	2.35	32.91	26.42	17.80	3.89	2.13	1.18	0.24	
14	2.79	23.01	1.86	9.23	2.22	32.80	25.76	15.60	3.77	2.13	1.18	0.21	
15	4.27	29.17	1.86	10.13	2.04	28.62	20.59	17.00	3.55	2.09	1.12	0.18	
16	9.15	26.97	2.35	8.40	3.33	27.52	13.15	23.45	3.45	2.04	1.15	0.17	
17	8.55	27.85	3.01	6.43	9.53	24.11	8.10	30.71	3.33	1.99	1.08	0.15	
18	8.25	30.60	4.54	4.43	19.30	20.92	8.40	36.08	3.06	1.99	1.08	0.15	
19	6.29	29.06	4.11	3.01	16.10	16.80	8.32	38.00	2.90	1.99	1.08	0.15	
20	3.94	26.09	3.28	2.84	12.34	12.97	8.10	39.44	2.90	1.99	1.04	0.15	
21	3.17	24.33	2.68	2.68	10.20	8.62	7.42	37.16	2.90	1.91	1.01	0.13	
22	2.79	23.56	2.22	2.90	8.32	7.88	6.71	23.67	2.84	1.86	1.01	0.13	
23	2.51	22.24	1.95	3.28	5.14	6.92	6.64	16.40	2.84	1.81	0.94	0.13	
24	1.99	20.59	1.81	7.13	4.05	7.13	6.71	10.92	2.90	1.77	1.08	0.13	
25	1.86	16.00	1.77	17.80	10.36	7.58	6.78	8.32	2.95	1.77	1.08	0.13	
26	1.55	9.45	1.86	15.60	14.90	22.90	7.88	7.20	2.95	1.73	1.08	0.12	
27	1.59	8.02	1.95	8.62	11.72	31.37	8.55	7.06	3.01	1.73	1.08	0.12	
28	1.91	12.16	2.09	4.72	9.83	27.85	30.16	20.37	3.01	1.73	1.04	0.12	
29	1.91	20.48	2.04	3.55	8.85	20.15	35.84	25.98	3.01	1.68		0.12	
30	1.63	24.99	2.04	3.17	7.80	9.75	33.79	21.91	2.95	1.68		0.12	
31		21.80		3.06	6.15		28.18		2.95	1.68		0.12	
Total	98.46	532.73	173.11	152.50	188.03	484.93	535.07	725.82	136.90	64.21	34.22	11.96	3137.94 CMSDAY
Mean	3.28	17.18	5.77	4.92	6.07	16.16	17.26	24.19	4.42	2.07	1.22	0.39	8.60 CMS
Max	9.15	30.60	23.67	17.80	19.30	32.91	35.84	45.08	12.43	2.95	1.59	1.73	45.08 CMS
Min	1.55	1.63	1.77	1.29	1.46	5.38	6.64	6.15	2.84	1.68	0.94	0.12	0.12 CMS
Runoff	8.51	46.03	14.96	13.18	16.25	41.90	46.23	62.71	11.83	5.55	2.96	1.03	271.12 MCM
Momentary Peak	45.44 CMS. at 14.67 m. (MSL.) at 18.00 Hours , on Nov 9 , 2009												
Runoff Yield	9.93 Liters/Second/Square KM.			Momentary Peak Yield				52.471 Liters/Second/Square KM.					

WATER YEAR : 2009

TAPI RIVER BASIN

Khlong Chandee at Ban Pak Min , Nakhon Si Thammarat (X.257)

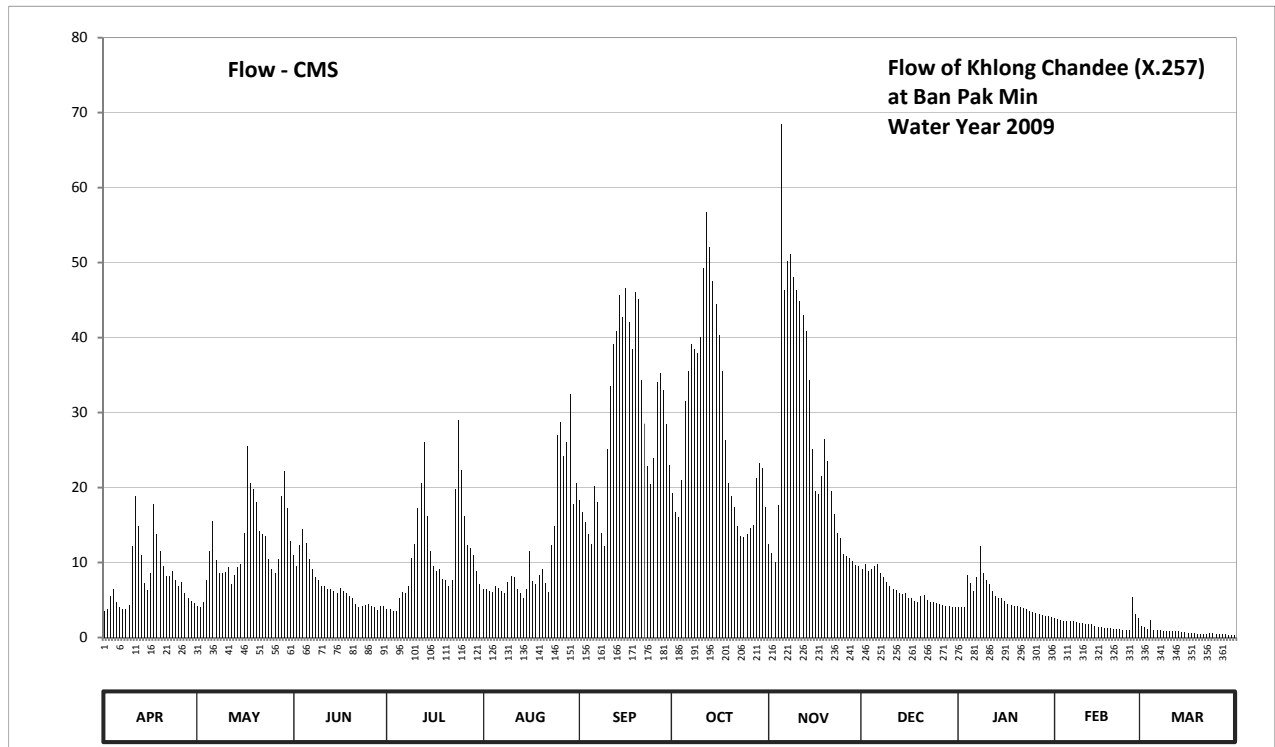
Lat 08 - 33 - 34 N Long 99 - 32 - 11 E

Location : on left bank at Ban Pak Min.

	Ban	Pak Min	Amphoe	Chawang	Changwat	Nakhon Si Thammarat
Drainage Area	510	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+29.438 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 means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.96	23.02	23.49	22.98	23.20	23.87	23.92	23.58	23.38	23.00	22.89	22.80	
2	22.98	23.00	23.40	22.98	23.20	23.80	23.80	23.51	23.42	23.00	22.88	22.78	
3	23.12	23.06	23.57	22.96	23.18	23.73	23.76	23.43	23.36	23.00	22.87	22.75	
4	23.20	23.28	23.68	22.96	23.17	23.65	24.00	23.84	23.38	23.32	22.86	22.87	
5	23.06	23.52	23.59	23.10	23.22	23.58	24.44	25.66	23.40	23.25	22.86	22.74	
6	23.00	23.74	23.46	23.17	23.21	23.96	24.60	24.96	23.42	23.18	22.86	22.74	
7	22.98	23.45	23.38	23.16	23.18	23.86	24.72	25.09	23.34	23.30	22.85	22.73	
8	22.98	23.34	23.30	23.22	23.16	23.66	24.70	25.12	23.30	23.56	22.84	22.72	
9	23.03	23.34	23.28	23.47	23.26	23.56	24.68	25.02	23.26	23.34	22.83	22.71	
10	23.56	23.35	23.22	23.58	23.31	24.18	24.75	24.96	23.22	23.28	22.83	22.71	
11	23.90	23.39	23.22	23.82	23.30	24.52	25.06	24.91	23.20	23.24	22.82	22.72	
12	23.70	23.24	23.20	23.98	23.20	24.72	25.30	24.85	23.19	23.18	22.82	22.72	
13	23.49	23.32	23.20	24.22	23.16	24.78	25.15	24.78	23.16	23.12	22.82	22.72	
14	23.25	23.39	23.18	23.77	23.10	24.94	25.00	24.55	23.14	23.10	22.80	22.70	
15	23.19	23.42	23.16	23.52	23.20	24.84	24.90	24.18	23.16	23.10	22.79	22.69	
16	23.34	23.66	23.21	23.40	23.52	24.97	24.76	23.93	23.10	23.07	22.78	22.68	
17	23.85	24.20	23.18	23.36	23.27	24.82	24.60	23.91	23.10	23.04	22.77	22.68	
18	23.65	23.98	23.16	23.38	23.24	24.70	24.23	24.02	23.07	23.03	22.77	22.67	
19	23.52	23.94	23.12	23.29	23.32	24.95	23.98	24.24	23.06	23.02	22.77	22.66	
20	23.40	23.86	23.10	23.28	23.38	24.92	23.90	24.11	23.12	23.01	22.76	22.66	
21	23.31	23.67	23.04	23.22	23.25	24.55	23.83	23.93	23.13	23.00	22.76	22.66	
22	23.31	23.65	23.00	23.28	23.17	24.32	23.70	23.78	23.08	22.99	22.75	22.66	
23	23.36	23.64	23.01	23.94	23.57	24.08	23.64	23.66	23.06	22.98	22.74	22.68	
24	23.28	23.46	23.03	24.34	23.70	23.97	23.63	23.62	23.06	22.96	22.74	22.68	
25	23.22	23.38	23.04	24.06	24.26	24.13	23.65	23.50	23.05	22.95	22.74	22.66	
26	23.26	23.34	23.02	23.77	24.33	24.54	23.69	23.48	23.04	22.94	23.11	22.66	
27	23.16	23.46	23.00	23.57	24.14	24.59	23.71	23.47	23.03	22.93	22.93	22.66	
28	23.10	23.90	22.97	23.55	24.22	24.50	24.01	23.44	23.02	22.92	22.89	22.66	
29	23.07	24.05	23.02	23.49	24.48	24.32	24.10	23.41	23.01	22.91		22.65	
30	23.05	23.82	23.01	23.36	23.85	24.09	24.07	23.40	23.00	22.91		22.65	
31	23.60	23.60	23.24	23.98	23.98	23.83	23.83	23.00	22.90			22.65	
Mean	23.28	23.53	23.21	23.47	23.48	24.30	24.26	24.14	23.17	23.08	22.83	22.70	
Max	23.90	24.20	23.68	24.34	24.48	24.97	25.30	25.66	23.42	23.56	23.11	22.87	25.66
Min	22.96	23.00	22.97	22.96	23.10	23.56	23.63	23.40	23.00	22.90	22.74	22.65	22.65
Annual Max Momentary Gage Height	25.90		m. (MSL.) ,			at 06.00 Hours , on Nov 5 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	22.19	m. (MSL)					
Left Bank Elevation	29.32		m. (MSL.) ,										
Right Bank Elevation	29.33		m. (MSL.) ,			Drainage Area	510	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.50	4.25	10.98	3.75	6.50	18.27	19.32	12.47	9.20	4.00	2.62	1.50	
2	3.75	4.00	9.50	3.75	6.50	16.80	16.80	11.32	9.83	4.00	2.50	1.35	
3	5.50	4.75	12.30	3.50	6.25	15.40	16.00	10.00	8.90	4.00	2.38	1.13	
4	6.50	7.70	14.40	3.50	6.12	13.80	21.00	17.64	9.20	8.30	2.25	2.38	
5	4.75	11.48	12.63	5.25	6.80	12.47	31.50	68.45	9.50	7.25	2.25	1.05	
6	4.00	15.60	10.49	6.12	6.65	20.16	35.50	46.30	9.83	6.25	2.25	1.05	
7	3.75	10.33	9.20	6.00	6.25	18.06	39.10	50.20	8.60	8.00	2.13	0.97	
8	3.75	8.60	8.00	6.80	6.00	14.00	38.50	51.10	8.00	12.14	2.00	0.90	
9	4.38	8.60	7.70	10.65	7.40	12.14	37.90	48.10	7.40	8.60	1.88	0.82	
10	12.14	8.75	6.80	12.47	8.15	25.05	40.00	46.30	6.80	7.70	1.88	0.82	
11	18.90	9.35	6.80	17.22	8.00	33.50	49.30	44.80	6.50	7.10	1.75	0.90	
12	14.80	7.10	6.50	20.58	6.50	39.10	56.75	43.00	6.37	6.25	1.75	0.90	
13	10.98	8.30	6.50	26.00	6.00	40.90	52.00	40.90	6.00	5.50	1.75	0.90	
14	7.25	9.35	6.25	16.20	5.25	45.70	47.50	34.25	5.75	5.25	1.50	0.75	
15	6.37	9.83	6.00	11.48	6.50	42.70	44.50	25.05	6.00	5.25	1.43	0.68	
16	8.60	14.00	6.65	9.50	11.48	46.60	40.30	19.53	5.25	4.87	1.35	0.60	
17	17.85	25.50	6.25	8.90	7.55	42.10	35.50	19.11	5.25	4.50	1.28	0.60	
18	13.80	20.58	6.00	9.20	7.10	38.50	26.25	21.45	4.87	4.38	1.28	0.53	
19	11.48	19.74	5.50	7.85	8.30	46.00	20.58	26.50	4.75	4.25	1.28	0.45	
20	9.50	18.06	5.25	7.70	9.20	45.10	18.90	23.48	5.50	4.13	1.20	0.45	
21	8.15	14.20	4.50	6.80	7.25	34.25	17.43	19.53	5.62	4.00	1.20	0.45	
22	8.15	13.80	4.00	7.70	6.12	28.50	14.80	16.40	5.00	3.87	1.13	0.45	
23	8.90	13.60	4.13	19.74	12.30	22.80	13.60	14.00	4.75	3.75	1.05	0.60	
24	7.70	10.49	4.38	29.00	14.80	20.37	13.40	13.20	4.75	3.50	1.05	0.60	
25	6.80	9.20	4.50	22.35	27.00	23.92	13.80	11.15	4.62	3.38	1.05	0.45	
26	7.40	8.60	4.25	16.20	28.75	34.00	14.60	10.82	4.50	3.25	5.38	0.45	
27	6.00	10.49	4.00	12.30	24.15	35.25	15.00	10.65	4.38	3.13	3.13	0.45	
28	5.25	18.90	3.62	11.97	26.00	33.00	21.23	10.16	4.25	3.00	2.62	0.45	
29	4.87	22.12	4.25	10.98	32.50	28.50	23.25	9.67	4.13	2.88		0.37	
30	4.62	17.22	4.13	8.90	17.85	23.02	22.57	9.50	4.00	2.88		0.37	
31		12.80		7.10	20.58		17.43		4.00	2.75		0.37	
Total	239.39	377.29	205.46	349.46	359.80	869.96	874.31	785.03	193.50	158.11	53.32	23.74	4489.37 CMSDAY
Mean	7.98	12.17	6.85	11.27	11.61	29.00	28.20	26.17	6.24	5.10	1.90	0.77	12.30 CMS
Max	18.90	25.50	14.40	29.00	32.50	46.60	56.75	68.45	9.83	12.14	5.38	2.38	68.45 CMS
Min	3.50	4.00	3.62	3.50	5.25	12.14	13.40	9.50	4.00	2.75	1.05	0.37	0.37 CMS
Runoff	20.68	32.60	17.75	30.19	31.09	75.17	75.54	67.83	16.72	13.66	4.61	2.05	387.88 MCM
Momentary Peak	76.25 CMS. at 25.90 m. (MSL) at 06.00 Hours , on Nov 5 , 2009												
Runoff Yield	24.12 Liters/Second/Square KM.			Momentary Peak Yield			149.510 Liters/Second/Square KM.						

WATER YEAR : 2009

TAPI RIVER BASIN

Khlong I - Pan at Ban Mai , Surat Thani (X.258)

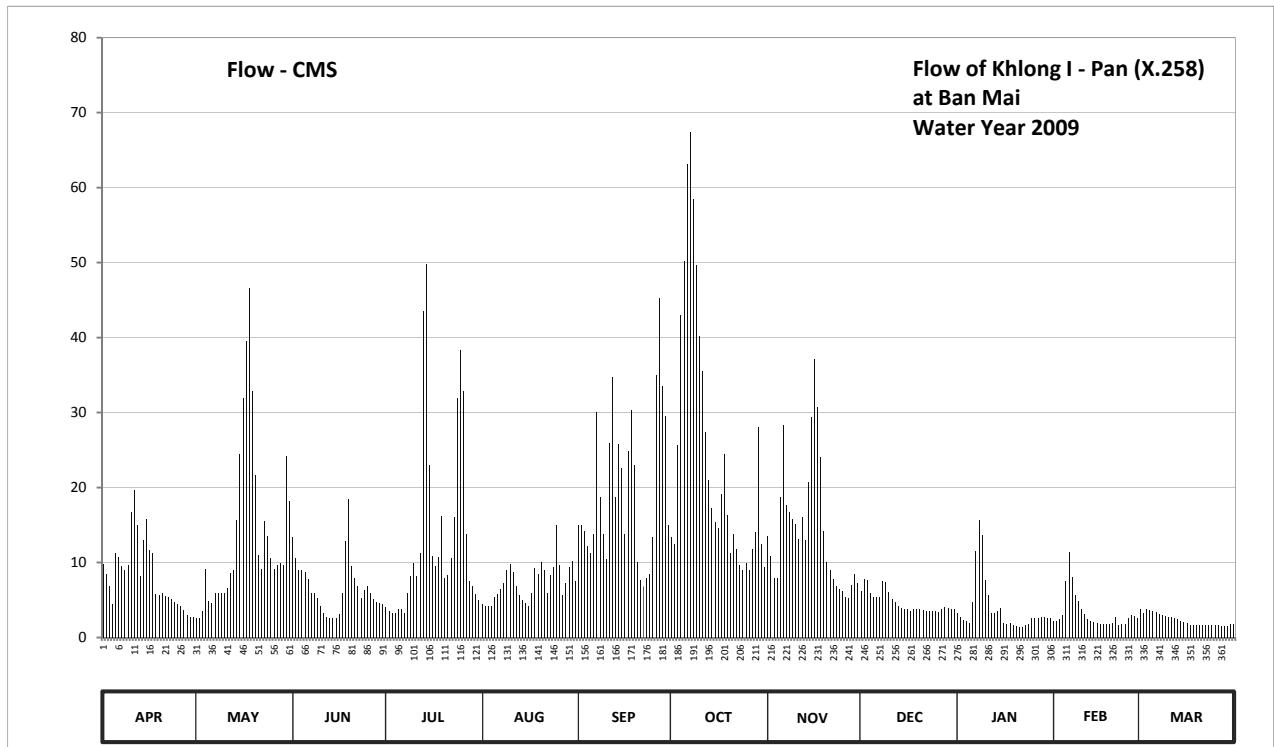
Lat 08 - 32 - 53 N Long 99 - 06 - 36 E

Location : on left bank at Ban Mai.

	Ban Mai	Amphoe Phrasaeng	Changwat	Surat Thani
Drainage Area	2,060	sq.km.		
Type of Gage	Staff gage			
Zero Gage at Bottom	+0.000	m. (MSL.)		
Bench Mark	B.M.-H.D.			
Location BM	On left bank downstream at the footpath			Elevation +61.081 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 means of 5 readings			
Period of Available Gage Records	2007 to date			
Rating Operation				
Period of Rating	2007 to date			
Rated by Flot	-			
Rated by Current Meter	2007 to date			
Stability of Channel Regimes	Fairly stable because of backwater effect.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.			

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.34	50.56	51.63	50.75	50.80	51.76	51.63	51.64	51.00	50.66	50.50	50.72	
2	51.22	50.56	51.41	50.69	50.76	51.76	51.56	51.43	51.15	50.58	50.50	50.66	
3	51.06	50.68	51.26	50.66	50.76	51.70	52.54	51.16	51.14	50.52	50.55	50.72	
4	50.80	51.27	51.26	50.66	50.76	51.54	53.63	51.16	50.96	50.50	50.62	50.70	
5	51.46	50.85	51.24	50.71	50.90	51.46	54.01	52.06	50.90	50.46	51.12	50.69	
6	51.42	50.81	51.15	50.71	50.95	51.66	54.63	52.72	50.90	50.83	51.47	50.67	
7	51.31	50.97	50.96	50.66	51.02	52.84	54.82	53.93	50.90	51.48	51.18	50.64	
8	51.26	50.96	50.96	50.96	51.10	52.06	54.42	53.74	51.13	51.81	50.94	50.62	
9	51.32	50.96	50.89	51.19	51.26	51.66	53.98	53.57	51.11	51.65	50.84	50.61	
10	51.90	50.96	50.76	51.35	51.34	51.40	53.47	53.44	50.98	51.14	50.72	50.60	
11	52.13	51.04	50.66	51.19	51.24	52.56	53.20	52.86	50.88	50.93	50.64	50.58	
12	51.76	51.23	50.60	51.46	51.06	53.15	52.66	51.85	50.82	50.66	50.55	50.56	
13	51.19	51.26	50.56	53.66	50.94	52.06	52.23	51.60	50.76	50.65	50.50	50.54	
14	51.60	51.81	50.56	53.99	50.86	52.55	51.94	52.21	50.74	50.69	50.47	50.51	
15	51.82	52.46	50.56	52.36	50.81	52.34	51.79	52.79	50.72	50.74	50.45	50.48	
16	51.49	52.96	50.63	51.43	50.76	51.66	51.73	53.29	50.72	50.46	50.44	50.45	
17	51.46	53.43	50.96	51.31	50.97	52.49	52.09	52.88	50.69	50.44	50.44	50.42	
18	50.95	53.83	51.59	51.42	51.29	52.85	52.46	52.44	50.71	50.46	50.44	50.42	
19	50.93	53.02	52.04	51.86	51.22	52.36	51.87	51.70	50.71	50.41	50.44	50.42	
20	50.96	52.27	51.31	51.16	51.36	51.36	51.46	51.36	50.71	50.38	50.45	50.40	
21	50.92	51.44	51.16	51.20	51.26	51.14	51.66	51.26	50.70	50.36	50.59	50.40	
22	50.90	51.28	51.06	51.41	50.96	51.06	51.50	51.15	50.69	50.36	50.42	50.40	
23	50.87	51.80	50.89	51.84	51.20	51.16	51.33	51.06	50.68	50.40	50.44	50.40	
24	50.83	51.64	51.01	52.96	51.30	51.22	51.26	51.03	50.68	50.44	50.44	50.40	
25	50.80	51.41	51.06	53.36	51.76	51.63	51.35	51.00	50.68	50.56	50.56	50.40	
26	50.76	51.28	50.96	53.02	51.32	53.17	51.26	50.90	50.67	50.56	50.62	50.40	
27	50.70	51.33	50.87	51.66	50.94	53.76	51.51	50.89	50.71	50.57	50.61	50.38	
28	50.62	51.35	50.82	51.12	51.10	53.07	51.69	51.08	50.75	50.58	50.57	50.38	
29	50.59	51.32	50.81	51.06	51.30	52.80	52.70	51.21	50.74	50.58		50.38	
30	50.59	52.45	50.80	50.95	51.37	51.76	51.56	51.10	50.72	50.57		50.43	
31		52.01		50.86	51.12		51.30		50.72	50.56		50.43	
Mean	51.17	51.59	51.01	51.54	51.09	52.07	52.36	51.95	50.82	50.68	50.63	50.51	
Max	52.13	53.83	52.04	53.99	51.76	53.76	54.82	53.93	51.15	51.81	51.47	50.72	54.82
Min	50.59	50.56	50.56	50.66	50.76	51.06	51.26	50.89	50.67	50.36	50.42	50.38	50.36
Annual Max Momentary Gage Height	54.90		m. (MSL.) ,				at 18.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	49.45	m. (MSL)					
Left Bank Elevation	60.83		m. (MSL.) ,										
Right Bank Elevation	60.83		m. (MSL.) ,			Drainage Area	2060	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.84	2.56	13.38	4.08	4.50	15.00	13.38	13.50	6.20	3.31	2.20	3.82	
2	8.52	2.56	10.62	3.56	4.16	15.00	12.50	10.87	7.78	2.68	2.20	3.31	
3	6.83	3.48	8.96	3.31	4.16	14.25	25.60	7.88	7.67	2.32	2.50	3.82	
4	4.50	9.07	8.96	3.31	4.16	12.25	43.03	7.88	5.86	2.20	2.97	3.65	
5	11.25	4.92	8.74	3.74	5.35	11.25	50.20	18.78	5.35	1.96	7.46	3.56	
6	10.75	4.59	7.78	3.74	5.78	13.75	63.18	28.30	5.35	4.76	11.37	3.39	
7	9.51	5.95	5.86	3.31	6.41	30.10	67.45	17.65	5.35	11.50	8.09	3.14	
8	8.96	5.86	5.86	5.86	7.25	18.78	58.45	16.70	7.57	15.63	5.69	2.97	
9	9.62	5.86	5.26	8.19	8.96	13.75	49.60	15.85	7.36	13.63	4.84	2.89	
10	16.75	5.86	4.16	9.95	9.84	10.50	40.23	15.20	6.03	7.67	3.82	2.80	
11	19.69	6.62	3.31	8.19	8.74	25.90	35.50	13.15	5.18	5.61	3.14	2.68	
12	15.00	8.63	2.80	11.25	6.83	34.75	27.40	16.12	4.67	3.31	2.50	2.56	
13	8.19	8.96	2.56	43.55	5.69	18.78	21.03	13.00	4.16	3.23	2.20	2.44	
14	13.00	15.63	2.56	49.80	5.01	25.75	17.25	20.74	3.99	3.56	2.02	2.26	
15	15.75	24.40	2.56	22.92	4.59	22.63	15.38	29.35	3.82	3.99	1.90	2.08	
16	11.63	31.90	3.06	10.87	4.16	13.75	14.62	37.08	3.82	1.96	1.84	1.90	
17	11.25	39.53	5.86	9.51	5.95	24.85	19.17	30.70	3.56	1.84	1.84	1.72	
18	5.78	46.60	12.87	10.75	9.29	30.25	24.40	24.10	3.74	1.96	1.84	1.72	
19	5.61	32.80	18.52	16.25	8.52	22.92	16.37	14.25	3.74	1.66	1.84	1.72	
20	5.86	21.61	9.51	7.88	10.06	10.06	11.25	10.06	3.74	1.51	1.90	1.60	
21	5.52	11.00	7.88	8.30	8.96	7.67	13.75	8.96	3.65	1.42	2.74	1.60	
22	5.35	9.18	6.83	10.62	5.86	6.83	11.75	7.78	3.56	1.42	1.72	1.60	
23	5.09	15.50	5.26	16.00	8.30	7.88	9.73	6.83	3.48	1.60	1.84	1.60	
24	4.76	13.50	6.30	31.90	9.40	8.52	8.96	6.51	3.48	1.84	1.84	1.60	
25	4.50	10.62	6.83	38.30	15.00	13.38	9.95	6.20	3.48	2.56	2.56	1.60	
26	4.16	9.18	5.86	32.80	9.62	35.05	8.96	5.35	3.39	2.56	2.97	1.60	
27	3.65	9.73	5.09	13.75	5.69	45.30	11.87	5.26	3.74	2.62	2.89	1.51	
28	2.97	9.95	4.67	7.46	7.25	33.55	14.12	7.04	4.08	2.68	2.62	1.51	
29	2.74	9.62	4.59	6.83	9.40	29.50	28.00	8.41	3.99	2.68		1.51	
30	2.74	24.25	4.50	5.78	10.17	15.00	12.50	7.25	3.82	2.62		1.78	
31		18.13		5.01	7.46		9.40		3.82	2.56		1.78	
Total	249.77	428.05	201.00	416.77	226.52	586.95	764.98	430.75	145.43	118.85	91.34	71.72	3732.13 CMSDAY
Mean	8.33	13.81	6.70	13.44	7.31	19.57	24.68	14.36	4.69	3.83	3.26	2.31	10.23 CMS
Max	19.69	46.60	18.52	49.80	15.00	45.30	67.45	37.08	7.78	15.63	11.37	3.82	67.45 CMS
Min	2.74	2.56	2.56	3.31	4.16	6.83	8.96	5.26	3.39	1.42	1.72	1.51	1.42 CMS
Runoff	21.58	36.98	17.37	36.01	19.57	50.71	66.09	37.22	12.57	10.27	7.89	6.20	322.46 MCM
Momentary Peak	69.25 CMS. at 54.90 m. (MSL.) at 18.00 Hours , on Oct 7 , 2009												
Runoff Yield	4.96 Liters/Second/Square KM.			Momentary Peak Yield			33.617 Liters/Second/Square KM.						

WATER YEAR : 2009

TAPI RIVER BASIN

Khlomg Trom at Ban Trom , Surat Thani (X.259)

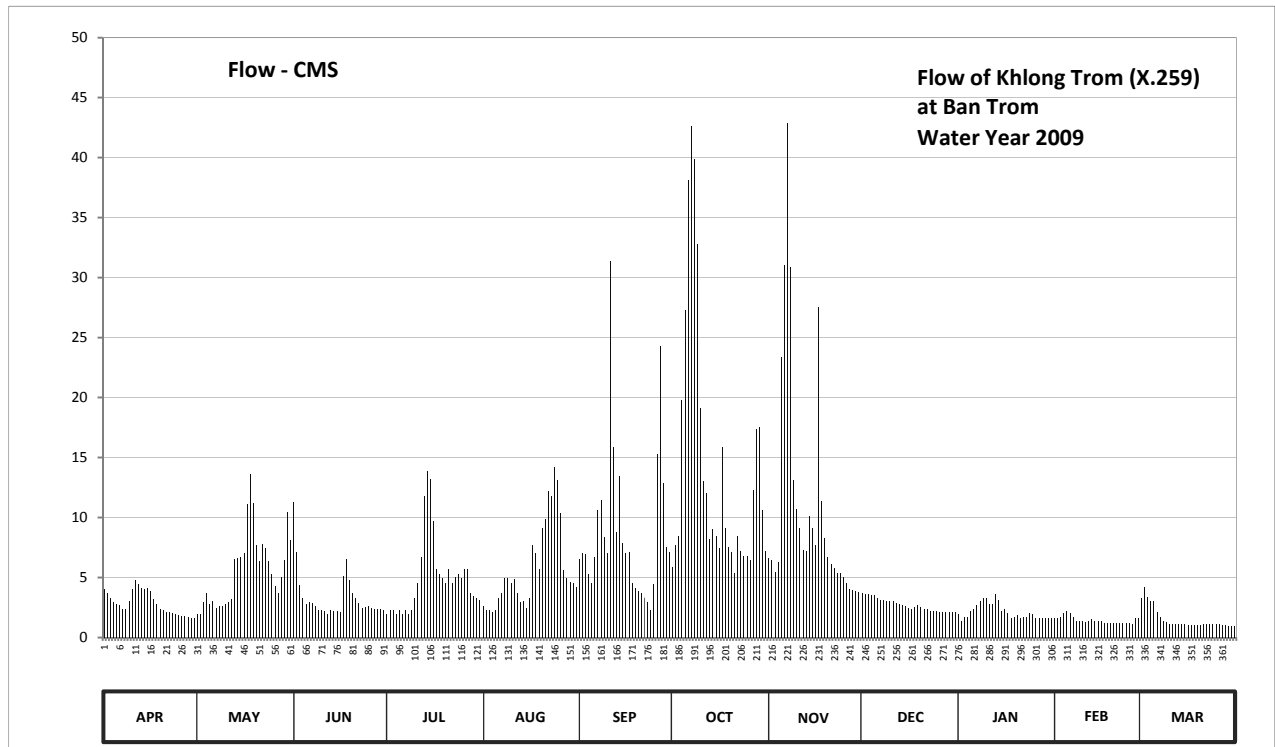
Lat 08 - 32 - 24 N Long 99 - 05 - 58 E

Location : on right bank at Ban Trom.

	Ban Trom	Amphoe Chai Buri	Changwat Surat Thani
Drainage Area	818	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank downstream at the footpath		Elevation +62.353 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 means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.73	53.44	54.53	53.44	53.54	54.04	53.96	54.05	53.69	53.44	53.39	53.64	
2	53.69	53.44	54.10	53.49	53.49	54.09	54.17	54.03	53.68	53.35	53.39	53.75	
3	53.64	53.59	53.77	53.49	53.49	54.08	54.25	53.91	53.68	53.40	53.40	53.65	
4	53.59	53.69	53.64	53.44	53.46	53.89	55.30	54.01	53.67	53.40	53.45	53.60	
5	53.57	53.57	53.57	53.49	53.49	53.79	55.90	55.59	53.67	53.48	53.48	53.60	
6	53.55	53.60	53.59	53.44	53.64	54.06	56.77	56.20	53.64	53.50	53.45	53.47	
7	53.51	53.52	53.58	53.49	53.69	54.46	57.13	57.15	53.62	53.55	53.40	53.40	
8	53.50	53.54	53.54	53.44	53.84	54.55	56.91	56.19	53.62	53.60	53.35	53.34	
9	53.60	53.54	53.49	53.49	53.84	54.24	56.34	54.71	53.61	53.64	53.35	53.33	
10	53.73	53.57	53.49	53.64	53.79	54.09	55.25	54.47	53.60	53.64	53.35	53.30	
11	53.82	53.59	53.48	53.79	53.83	56.23	54.70	54.31	53.60	53.57	53.33	53.31	
12	53.78	53.63	53.44	54.06	53.69	54.99	54.60	54.12	53.58	53.57	53.35	53.30	
13	53.74	54.04	53.49	54.58	53.59	54.28	54.22	54.11	53.57	53.68	53.37	53.30	
14	53.73	54.05	53.48	54.79	53.61	54.74	54.30	54.41	53.56	53.62	53.35	53.30	
15	53.74	54.06	53.48	54.72	53.52	54.19	54.25	54.31	53.54	53.48	53.34	53.30	
16	53.71	54.09	53.47	54.37	53.64	54.09	54.14	54.17	53.52	53.50	53.34	53.29	
17	53.63	54.51	53.87	53.94	54.17	54.10	54.99	55.92	53.50	53.45	53.32	53.29	
18	53.57	54.76	54.04	53.89	54.09	53.79	54.31	54.54	53.53	53.39	53.32	53.29	
19	53.50	54.52	53.82	53.84	53.94	53.74	54.15	54.23	53.55	53.40	53.32	53.29	
20	53.49	54.17	53.69	53.79	54.31	53.71	54.10	54.06	53.53	53.43	53.32	53.29	
21	53.47	54.02	53.64	53.94	54.39	53.69	53.90	53.99	53.51	53.38	53.32	53.31	
22	53.46	54.18	53.58	53.79	54.62	53.64	54.25	53.95	53.50	53.40	53.32	53.30	
23	53.45	54.14	53.52	53.85	54.58	53.59	54.11	53.90	53.48	53.40	53.32	53.30	
24	53.44	54.02	53.53	53.89	54.82	53.49	54.07	53.90	53.48	53.45	53.32	53.30	
25	53.43	53.89	53.54	53.84	54.71	53.78	54.07	53.86	53.48	53.44	53.32	53.30	
26	53.42	53.76	53.52	53.94	54.44	54.93	54.03	53.79	53.47	53.39	53.31	53.30	
27	53.41	53.69	53.51	53.94	53.93	55.66	54.63	53.73	53.47	53.39	53.38	53.29	
28	53.40	53.86	53.50	53.69	53.84	54.69	55.11	53.72	53.47	53.39	53.39	53.29	
29	53.39	54.03	53.50	53.66	53.80	54.15	55.12	53.71	53.46	53.38		53.28	
30	53.38	54.45	53.49	53.64	53.79	54.10	54.46	53.70	53.46	53.38		53.27	
31		54.21		53.62	53.75		54.11		53.46	53.38		53.27	
Mean	53.57	53.91	53.63	53.82	53.91	54.23	54.76	54.42	53.55	53.47	53.36	53.36	
Max	53.82	54.76	54.53	54.79	54.82	56.23	57.13	57.15	53.69	53.68	53.48	53.75	57.15
Min	53.38	53.44	53.44	53.44	53.46	53.49	53.90	53.70	53.46	53.35	53.31	53.27	53.27
Annual Max Momentary Gage Height		57.16		m. (MSL.) ,			at 06.00 Hours , on Oct 7 , 2009						
Zero Gage at Bottom Elevation		0.00		m. (MSL.) ,		River Bed	49.45		m. (MSL)				
Left Bank Elevation		62.07		m. (MSL.) ,									
Right Bank Elevation		62.03		m. (MSL.) ,		Drainage Area	818		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.04	1.96	11.30	1.96	2.61	6.56	5.88	6.65	3.72	1.96	1.64	3.32		
2	3.72	1.96	7.10	2.29	2.29	7.01	7.73	6.47	3.64	1.40	1.64	4.20		
3	3.32	2.94	4.36	2.29	2.29	6.92	8.50	5.48	3.64	1.70	1.70	3.40		
4	2.94	3.72	3.32	1.96	2.09	5.32	19.75	6.29	3.56	1.70	2.03	3.00		
5	2.81	2.81	2.81	2.29	2.29	4.52	27.25	23.38	3.56	2.22	2.22	3.00		
6	2.68	3.00	2.94	1.96	3.32	6.74	38.13	31.00	3.32	2.35	2.03	2.16		
7	2.41	2.48	2.87	2.29	3.72	10.60	42.63	42.88	3.16	2.68	1.70	1.70		
8	2.35	2.61	2.61	1.96	4.92	11.50	39.88	30.87	3.16	3.00	1.40	1.34		
9	3.00	2.61	2.29	2.29	4.92	8.40	32.75	13.10	3.08	3.32	1.40	1.28		
10	4.04	2.81	2.29	3.32	4.52	7.01	19.13	10.70	3.00	3.32	1.40	1.10		
11	4.76	2.94	2.22	4.52	4.84	31.37	13.00	9.10	3.00	2.81	1.28	1.16		
12	4.44	3.24	1.96	6.74	3.72	15.90	12.00	7.28	2.87	2.81	1.40	1.10		
13	4.12	6.56	2.29	11.80	2.94	8.80	8.20	7.19	2.81	3.64	1.52	1.10		
14	4.04	6.65	2.22	13.90	3.08	13.40	9.00	10.10	2.74	3.16	1.40	1.10		
15	4.12	6.74	2.22	13.20	2.48	7.91	8.50	9.10	2.61	2.22	1.34	1.10		
16	3.88	7.01	2.16	9.70	3.32	7.01	7.46	7.73	2.48	2.35	1.34	1.04		
17	3.24	11.10	5.16	5.72	7.73	7.10	15.90	27.50	2.35	2.03	1.22	1.04		
18	2.81	13.60	6.56	5.32	7.01	4.52	9.10	11.40	2.54	1.64	1.22	1.04		
19	2.35	11.20	4.76	4.92	5.72	4.12	7.55	8.30	2.68	1.70	1.22	1.04		
20	2.29	7.73	3.72	4.52	9.10	3.88	7.10	6.74	2.54	1.89	1.22	1.04		
21	2.16	6.38	3.32	5.72	9.90	3.72	5.40	6.12	2.41	1.58	1.22	1.16		
22	2.09	7.82	2.87	4.52	12.20	3.32	8.50	5.80	2.35	1.70	1.22	1.10		
23	2.03	7.46	2.48	5.00	11.80	2.94	7.19	5.40	2.22	1.70	1.22	1.10		
24	1.96	6.38	2.54	5.32	14.20	2.29	6.83	5.40	2.22	2.03	1.22	1.10		
25	1.89	5.32	2.61	4.92	13.10	4.44	6.83	5.08	2.22	1.96	1.22	1.10		
26	1.83	4.28	2.48	5.72	10.40	15.30	6.47	4.52	2.16	1.64	1.16	1.10		
27	1.76	3.72	2.41	5.72	5.64	24.25	12.30	4.04	2.16	1.64	1.58	1.04		
28	1.70	5.08	2.35	3.72	4.92	12.90	17.38	3.96	2.16	1.64	1.64	1.04		
29	1.64	6.47	2.35	3.48	4.60	7.55	17.50	3.88	2.09	1.58		0.98		
30	1.58	10.50	2.29	3.32	4.52	7.10	10.60	3.80	2.09	1.58		0.92		
31		8.10		3.16	4.20		7.19		2.09	1.58		0.92		
Total	86.00	175.18	100.86	153.55	178.39	262.40	445.63	329.26	84.63	66.53	40.80	46.82	1970.05	CMSDAY
Mean	2.87	5.65	3.36	4.95	5.75	8.75	14.38	10.98	2.73	2.15	1.46	1.51	5.40	CMS
Max	4.76	13.60	11.30	13.90	14.20	31.37	42.63	42.88	3.72	3.64	2.22	4.20	42.88	CMS
Min	1.58	1.96	1.96	1.96	2.09	2.29	5.40	3.80	2.09	1.40	1.16	0.92	0.92	CMS
Runoff	7.43	15.14	8.71	13.27	15.41	22.67	38.50	28.45	7.31	5.75	3.53	4.05	170.21	MCM
Momentary Peak	43.00 CMS. at 57.16 m. (MSL) at 06.00 Hours , on Oct 7 , 2009													
Runoff Yield	6.60 Liters/Second/Square KM.			Momentary Peak Yield			52.567 Liters/Second/Square KM.							

WATER YEAR : 2009

TAPI RIVER BASIN

Khlong I - Pan at Ban Arpart , Surat Thani (X.260)

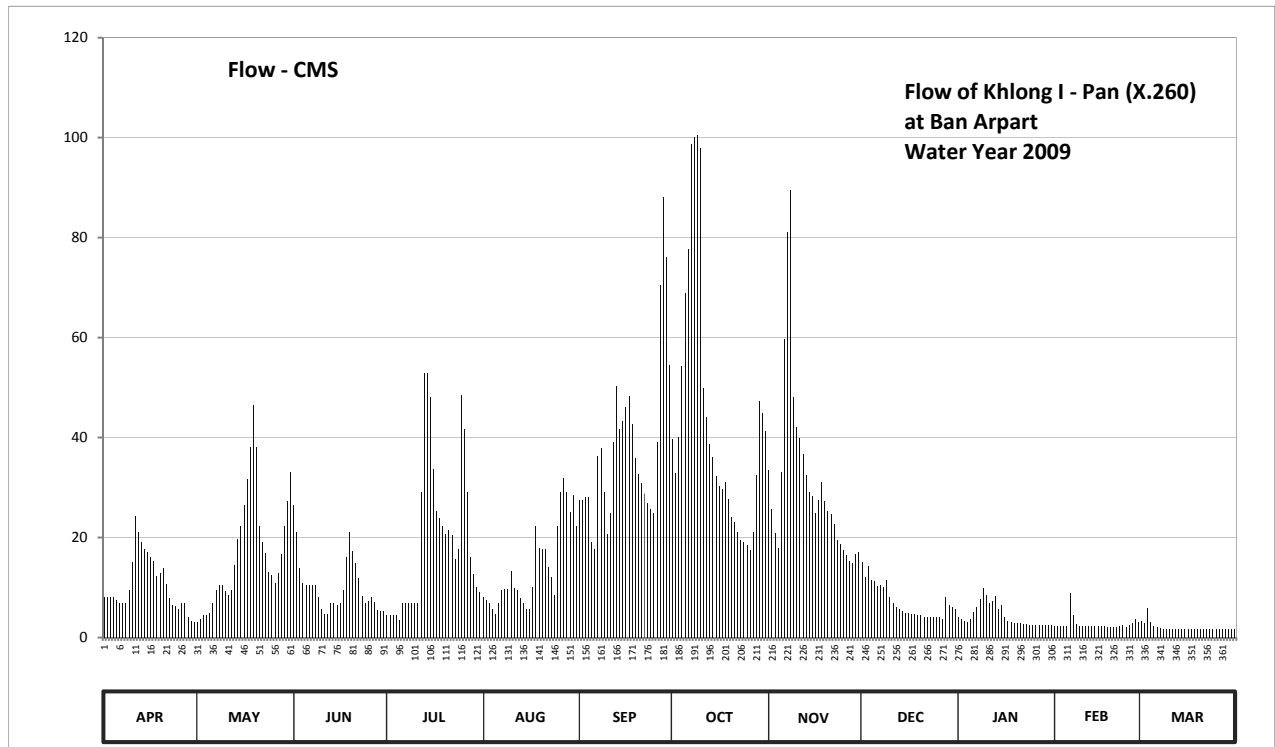
Lat 08 - 32 - 28 N Long 99 - 13 - 25 E

Location : on left bank at Ban Arpart.

	Ban Arpart	Amphoe Phrasaeng	Changwat	Surat Thani
Drainage Area	2,076	sq.km.		
Type of Gage	Staff gage			
Zero Gage at Bottom	+0.000	m. (MSL.)		
Bench Mark	B.M.-H.D.			
Location BM	On left bank near the top staff gage.		Elevation	+13.658 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 means of 5 readings			
Period of Available Gage Records	2007 to date			
Rating Operation				
Period of Rating	2007 to date			
Rated by Flot	-			
Rated by Current Meter	2007 to date			
Stability of Channel Regimes	Fairly stable because of backwater effect.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.			

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.01	5.61	7.25	5.71	6.01	7.31	7.94	7.65	6.54	5.68	5.46	5.62	
2	6.01	5.66	6.94	5.71	5.96	7.31	7.62	7.22	6.32	5.65	5.44	5.58	
3	6.01	5.71	6.46	5.71	5.91	7.34	7.96	6.93	6.49	5.62	5.44	5.83	
4	6.01	5.71	6.23	5.71	5.81	7.34	8.57	6.73	6.28	5.61	5.45	5.60	
5	5.96	5.76	6.20	5.64	5.73	6.81	9.08	7.63	6.26	5.65	5.46	5.44	
6	5.91	5.91	6.21	5.91	5.91	6.71	9.36	8.77	6.18	5.77	6.07	5.39	
7	5.91	6.11	6.21	5.91	6.11	7.79	9.94	9.46	6.19	5.85	5.72	5.37	
8	5.91	6.21	6.21	5.91	6.13	7.86	9.98	9.69	6.16	5.97	5.53	5.35	
9	6.11	6.21	6.01	5.91	6.13	7.41	9.99	9.50	6.28	6.15	5.47	5.34	
10	6.54	6.10	5.81	5.91	6.42	6.91	9.92	9.27	6.01	6.03	5.44	5.34	
11	7.13	6.04	5.73	5.91	6.15	7.17	9.56	9.16	5.91	5.91	5.44	5.33	
12	6.94	6.11	5.73	7.41	6.11	7.91	9.36	8.98	5.85	5.95	5.44	5.33	
13	6.80	6.50	5.91	8.51	5.98	8.41	9.09	8.68	5.81	6.02	5.44	5.33	
14	6.71	6.85	5.91	8.51	5.90	8.03	8.94	8.35	5.78	5.82	5.44	5.33	
15	6.67	7.01	5.88	8.31	5.81	8.10	8.66	8.29	5.76	5.87	5.44	5.33	
16	6.60	7.25	5.90	7.66	5.81	8.22	8.47	7.95	5.76	5.69	5.44	5.33	
17	6.56	7.55	6.11	7.19	6.17	8.32	8.41	8.19	5.73	5.63	5.44	5.32	
18	6.34	7.87	6.61	7.11	7.01	8.07	8.55	8.55	5.73	5.59	5.43	5.32	
19	6.38	8.24	6.94	7.01	6.73	7.77	8.22	8.17	5.71	5.56	5.43	5.31	
20	6.46	7.87	6.69	6.91	6.71	7.61	7.85	7.98	5.71	5.55	5.43	5.31	
21	6.22	7.01	6.52	6.96	6.71	7.50	7.75	7.91	5.70	5.55	5.42	5.31	
22	5.98	6.81	6.31	6.90	6.47	7.39	7.50	7.70	5.70	5.54	5.45	5.31	
23	5.89	6.66	6.02	6.57	6.33	7.28	7.26	7.28	5.70	5.53	5.48	5.31	
24	5.86	6.41	5.91	6.71	6.03	7.22	7.20	7.13	5.69	5.52	5.43	5.31	
25	5.81	6.36	5.95	8.33	7.01	7.16	7.08	6.89	5.69	5.51	5.52	5.31	
26	5.91	6.23	6.01	8.03	7.40	7.91	6.89	6.70	5.68	5.50	5.58	5.31	
27	5.91	6.38	5.92	7.41	7.56	9.13	6.94	6.56	5.66	5.50	5.65	5.31	
28	5.69	6.64	5.79	6.60	7.40	9.66	7.60	6.52	6.00	5.49	5.60	5.31	
29	5.62	7.01	5.78	6.37	7.18	9.31	8.28	6.64	5.88	5.48		5.31	
30	5.61	7.30	5.78	6.17	7.37	8.58	8.17	6.67	5.85	5.48		5.32	
31		7.63		6.09	7.01		8.01		5.82	5.48		5.31	
Mean	6.18	6.60	6.16	6.73	6.42	7.78	8.39	7.91	5.93	5.68	5.50	5.37	
Max	7.13	8.24	7.25	8.51	7.56	9.66	9.99	9.69	6.54	6.15	6.07	5.83	9.99
Min	5.61	5.61	5.73	5.64	5.73	6.71	6.89	6.52	5.66	5.48	5.42	5.31	5.31
Annual Max Momentary Gage Height	9.99		m. (MSL.) ,				at 12.00 Hours , on Oct 8 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	4.25	m. (MSL)					
Left Bank Elevation	13.60		m. (MSL.) ,										
Right Bank Elevation	13.61		m. (MSL.) ,			Drainage Area	2076	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.10	3.10	26.40	4.40	8.10	27.40	39.70	33.50	15.10	4.00	2.30	3.20	
2	8.10	3.70	21.10	4.40	7.50	27.40	32.90	25.80	12.00	3.60	2.20	2.90	
3	8.10	4.40	13.90	4.40	6.90	28.00	40.10	20.90	14.30	3.20	2.20	5.90	
4	8.10	4.40	10.90	4.40	5.60	28.00	54.20	18.00	11.50	3.10	2.20	3.00	
5	7.50	5.00	10.50	3.50	4.60	19.10	68.90	33.10	11.30	3.60	2.30	2.20	
6	6.90	6.90	10.60	6.90	6.90	17.60	77.70	59.70	10.20	5.10	8.90	2.00	
7	6.90	9.40	10.60	6.90	9.40	36.30	98.70	81.10	10.40	6.10	4.50	1.90	
8	6.90	10.60	10.60	6.90	9.60	37.80	100.20	89.40	10.00	7.60	2.70	1.80	
9	9.40	10.60	8.10	6.90	9.60	29.20	100.60	48.00	11.50	9.90	2.30	1.70	
10	15.10	9.20	5.60	6.90	13.30	20.60	98.00	42.10	8.10	8.40	2.20	1.70	
11	24.30	8.50	4.60	6.90	9.90	25.00	49.80	39.80	6.90	6.90	2.20	1.70	
12	21.10	9.40	4.60	29.20	9.40	39.00	44.10	36.70	6.10	7.40	2.20	1.70	
13	19.00	14.50	6.90	52.80	7.80	50.30	38.60	32.50	5.60	8.30	2.20	1.70	
14	17.60	19.70	6.90	52.80	6.80	41.70	36.10	29.00	5.30	5.80	2.20	1.70	
15	17.10	22.20	6.50	48.00	5.60	43.30	32.20	28.40	5.00	6.40	2.20	1.70	
16	16.00	26.40	6.80	33.70	5.60	46.00	30.20	25.00	5.00	4.10	2.20	1.70	
17	15.40	31.60	9.40	25.30	10.10	48.20	29.60	27.40	4.60	3.40	2.20	1.60	
18	12.30	38.10	16.20	23.90	22.20	42.60	31.00	31.00	4.60	3.00	2.10	1.60	
19	12.80	46.40	21.10	22.20	18.00	35.90	27.70	27.20	4.40	2.80	2.10	1.60	
20	13.90	38.10	17.30	20.60	17.60	32.70	24.00	25.30	4.40	2.80	2.10	1.60	
21	10.70	22.20	14.80	21.40	17.60	30.80	23.10	24.60	4.20	2.80	2.10	1.60	
22	7.80	19.10	11.90	20.50	14.00	28.80	21.20	22.70	4.20	2.70	2.20	1.60	
23	6.60	16.90	8.30	15.60	12.10	26.90	19.50	19.60	4.20	2.70	2.40	1.60	
24	6.30	13.10	6.90	17.60	8.40	25.80	19.00	18.70	4.10	2.60	2.10	1.60	
25	5.60	12.50	7.40	48.40	22.20	24.80	18.40	17.50	4.10	2.60	2.60	1.60	
26	6.90	10.90	8.10	41.70	29.00	39.00	17.50	16.50	4.00	2.50	2.90	1.60	
27	6.90	12.80	7.00	29.20	31.80	70.40	21.10	15.40	3.70	2.50	3.60	1.60	
28	4.10	16.60	5.40	16.00	29.00	88.20	32.50	14.80	8.00	2.40	3.00	1.60	
29	3.20	22.20	5.30	12.60	25.10	76.10	47.30	16.60	6.50	2.40		1.60	
30	3.10	27.30	5.30	10.10	28.50	54.50	44.80	17.10	6.10	2.40		1.60	
31		33.10		9.10	22.20		41.20		5.80	2.40		1.60	
Total	315.80	528.90	309.00	613.20	434.40	1141.40	1359.90	937.40	221.20	133.50	74.40	60.50	6129.60
Mean	10.50	17.10	10.30	19.80	14.00	38.00	43.90	31.20	7.10	4.30	2.70	2.00	16.80
Max	24.30	46.40	26.40	52.80	31.80	88.20	100.60	89.40	15.10	9.90	8.90	5.90	100.60
Min	3.10	3.10	4.60	3.50	4.60	17.60	17.50	14.80	3.70	2.40	2.10	1.60	1.60
Runoff	27.29	45.70	26.70	52.98	37.53	98.62	117.50	80.99	19.11	11.53	6.43	5.23	529.60
Momentary Peak	100.62 CMS. at 9.99 m. (MSL.) at 12.00 Hours , on Oct 8 , 2009												
Runoff Yield	8.09 Liters/Second/Square KM.			Momentary Peak Yield			48.468 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Hat Yai Nai , Songkhla (X.44)

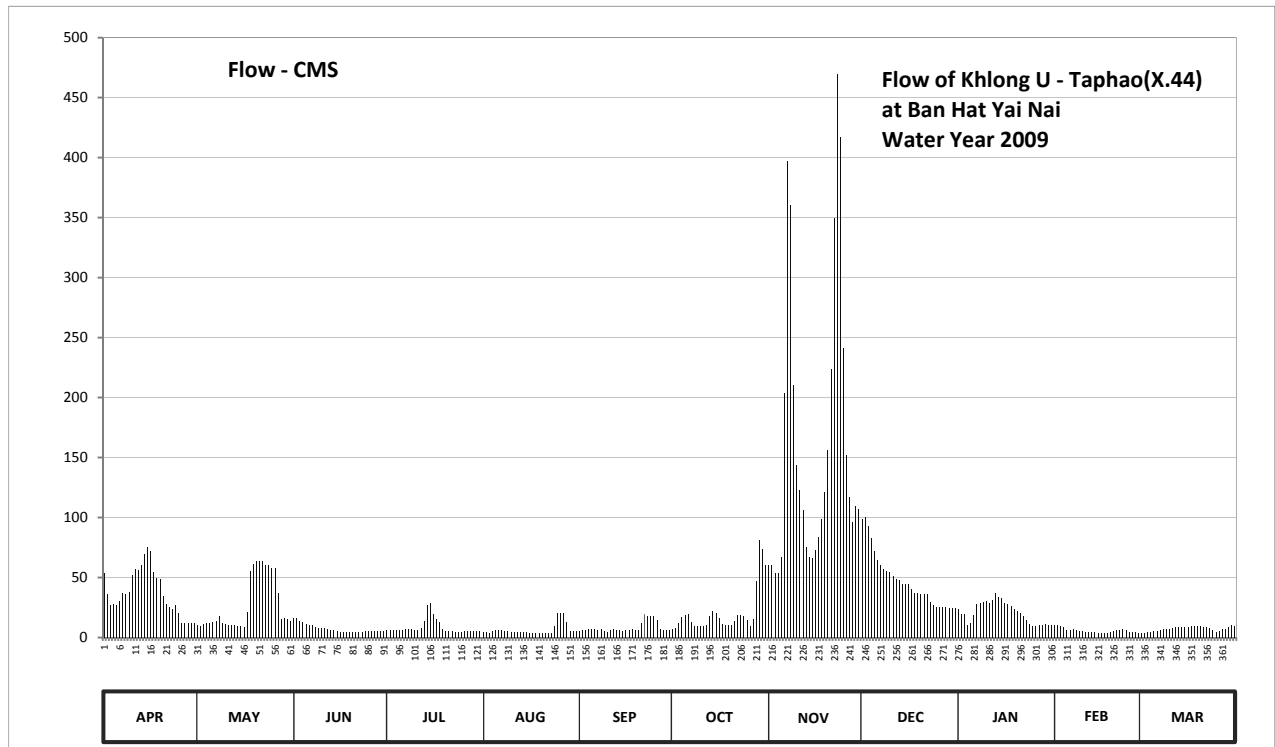
Lat 07 - 00 - 02 N Long 100 - 27 - 32 E

Location : on left bank at the bridge of Hat Yai - Rattaphum Highway.

	Ban Hat Yai Nai	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	1,720	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 200 meters from the top staff gage.		Elevation +7.439 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 means of 5 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 - 1972 , 1983 - 1988 , 1999 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1972 , 1983 - 1988 , 1999 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 49 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	0.18	0.34	0.03	-0.01	0.02	0.08	1.45	2.30	0.55	0.48	0.14	
2	0.88	0.15	0.34	0.05	-0.01	0.05	0.10	1.45	2.35	0.45	0.45	0.15	
3	0.65	0.20	0.28	0.04	-0.04	0.05	0.22	1.30	2.18	0.45	0.43	0.16	
4	0.68	0.22	0.26	0.04	0.02	0.07	0.38	1.30	1.95	0.45	0.39	0.18	
5	0.64	0.24	0.20	0.04	0.03	0.07	0.42	1.61	1.72	0.54	0.24	0.21	
6	0.74	0.25	0.18	0.05	0.03	0.07	0.45	4.28	1.55	0.87	0.26	0.23	
7	0.90	0.27	0.18	0.06	0.03	0.05	0.25	6.15	1.45	1.33	0.28	0.25	
8	0.87	0.40	0.12	0.08	0.02	0.08	0.15	5.88	1.37	1.37	0.24	0.28	
9	0.92	0.23	0.10	0.08	0.01	0.01	0.15	4.39	1.35	1.42	0.22	0.30	
10	1.26	0.20	0.10	0.05	-0.02	-0.02	0.15	3.24	1.32	1.45	0.20	0.32	
11	1.38	0.18	0.10	0.05	-0.03	0.05	0.16	2.84	1.25	1.38	0.18	0.36	
12	1.36	0.18	0.07	0.10	-0.03	0.08	0.18	2.48	1.20	1.52	0.16	0.38	
13	1.45	0.17	0.05	0.27	-0.03	0.05	0.39	1.78	1.18	1.73	0.16	0.39	
14	1.65	0.15	0.04	0.64	-0.03	0.03	0.52	1.60	1.09	1.63	0.16	0.40	
15	1.78	0.15	0.01	0.70	-0.03	0.01	0.48	1.58	1.09	1.60	0.13	0.40	
16	1.71	0.13	-0.02	0.45	-0.04	0.03	0.35	1.73	1.09	1.37	0.12	0.40	
17	1.32	0.50	-0.02	0.33	-0.04	0.03	0.21	1.98	0.98	1.33	0.12	0.42	
18	1.22	1.35	-0.03	0.26	-0.04	0.08	0.18	2.31	0.91	1.27	0.13	0.43	
19	1.19	1.47	-0.03	0.06	-0.04	0.05	0.18	2.80	0.91	1.15	0.18	0.44	
20	0.84	1.53	-0.03	0.02	-0.04	0.05	0.18	3.48	0.87	1.07	0.22	0.43	
21	0.67	1.53	-0.02	0.02	-0.04	0.24	0.27	4.57	0.87	0.96	0.27	0.40	
22	0.60	1.52	-0.02	0.01	-0.04	0.44	0.42	5.80	0.87	0.84	0.27	0.37	
23	0.57	1.45	-0.01	-0.01	-0.04	0.40	0.43	6.64	0.72	0.68	0.28	0.33	
24	0.65	1.45	0.01	-0.01	0.14	0.40	0.40	6.29	0.64	0.51	0.25	0.26	
25	0.48	1.40	0.02	-0.01	0.47	0.40	0.30	4.79	0.60	0.41	0.18	0.18	
26	0.24	1.39	0.02	0.01	0.46	0.31	0.15	3.40	0.60	0.44	0.16	0.22	
27	0.22	0.90	0.02	0.01	0.46	0.06	0.33	2.71	0.60	0.48	0.16	0.28	
28	0.24	0.32	0.02	0.01	0.26	0.03	1.14	2.25	0.60	0.49	0.15	0.32	
29	0.23	0.34	0.02	0.01	0.01	0.04	1.92	2.55	0.58	0.50		0.39	
30	0.23	0.33	0.02	0.01	0.01	0.05	1.74	2.50	0.58	0.48		0.45	
31		0.29		0.01	0.02		1.45		0.58	0.48		0.42	
Mean	0.90	0.62	0.08	0.11	0.05	0.11	0.44	3.17	1.14	0.94	0.23	0.32	
Max	1.78	1.53	0.34	0.70	0.47	0.44	1.92	6.64	2.35	1.73	0.48	0.45	6.64
Min	0.22	0.13	-0.03	-0.01	-0.04	-0.02	0.08	1.30	0.58	0.41	0.12	0.14	-0.04
Annual Max Momentary Gage Height	6.68		m. (MSL.) ,					at 12.00 Hours , on Nov 23 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-1.68	m. (MSL)					
Left Bank Elevation	8.93		m. (MSL.) ,										
Right Bank Elevation	8.94		m. (MSL.) ,			Drainage Area	1720	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.50	10.40	15.90	5.90	4.75	5.60	7.40	60.25	98.50	23.25	10.60	3.80	
2	36.20	9.50	15.90	6.50	4.75	6.50	8.00	60.25	100.75	19.75	10.00	4.00	
3	27.00	11.00	13.80	6.20	4.00	6.50	11.70	53.50	93.10	19.75	9.60	4.20	
4	28.20	11.70	13.10	6.20	5.60	7.10	17.30	53.50	82.75	10.00	8.80	4.60	
5	26.60	12.40	11.00	6.20	5.90	7.10	18.70	67.45	72.40	11.80	5.80	5.20	
6	30.60	12.75	10.40	6.50	5.90	7.10	19.75	203.20	64.75	18.40	6.20	5.60	
7	37.00	13.45	10.40	6.80	5.90	6.50	12.75	397.00	60.25	27.60	6.60	6.00	
8	35.80	18.00	8.60	7.40	5.60	7.40	9.50	360.40	56.65	28.40	5.80	6.60	
9	37.80	12.05	8.00	7.40	5.30	5.30	9.50	210.35	55.75	29.40	5.40	7.00	
10	51.70	11.00	8.00	6.50	4.50	4.50	9.50	143.20	54.40	30.00	5.00	7.40	
11	57.10	10.40	8.00	6.50	4.25	6.50	9.80	123.00	51.25	28.60	4.60	8.20	
12	56.20	10.40	7.10	8.00	4.25	7.40	10.40	106.60	49.00	31.40	4.20	8.60	
13	60.25	10.10	6.50	13.45	4.25	6.50	17.65	75.10	48.20	36.90	4.20	8.80	
14	69.25	9.50	6.20	26.60	4.25	5.90	22.20	67.00	44.60	33.90	4.20	9.00	
15	75.10	9.50	5.30	29.00	4.25	5.30	20.80	66.10	44.60	33.00	3.60	9.00	
16	71.95	8.90	4.50	19.75	4.00	5.90	16.25	72.85	44.60	28.40	3.40	9.00	
17	54.40	21.50	4.50	15.55	4.00	5.90	11.35	84.10	40.20	27.60	3.40	9.40	
18	49.90	55.75	4.25	13.10	4.00	7.40	10.40	98.95	37.40	26.40	3.60	9.60	
19	48.60	61.15	4.25	6.80	4.00	6.50	10.40	121.00	37.40	24.00	4.60	9.80	
20	34.60	63.85	4.25	5.60	4.00	6.50	10.40	156.40	35.80	22.40	5.40	9.60	
21	27.80	63.85	4.50	5.60	4.00	12.40	13.45	223.75	35.80	20.20	6.40	9.00	
22	25.00	63.40	4.50	5.30	4.00	19.40	18.70	350.00	35.80	17.80	6.40	8.40	
23	23.95	60.25	4.75	4.75	4.00	18.00	19.05	470.00	29.80	14.60	6.60	7.60	
24	27.00	60.25	5.30	4.75	9.20	18.00	18.00	417.50	26.60	11.20	6.00	6.20	
25	20.80	58.00	5.60	4.75	20.45	18.00	14.50	241.20	25.00	9.20	4.60	4.60	
26	12.40	57.55	5.60	5.30	20.10	14.85	9.50	152.00	25.00	9.80	4.20	5.40	
27	11.70	37.00	5.60	5.30	20.10	6.80	15.55	116.95	25.00	10.60	4.20	6.60	
28	12.40	15.20	5.60	5.30	13.10	5.90	46.60	96.25	25.00	10.80	4.00	7.40	
29	12.05	15.90	5.60	5.30	5.30	6.20	81.40	109.75	24.30	11.00		8.80	
30	12.05	15.55	5.60	5.30	5.30	6.50	73.30	107.50	24.30	10.60		10.00	
31		14.15		5.30	5.60		60.25		24.30	10.60		9.40	
Total	1126.90	844.40	222.60	266.90	204.60	253.45	634.05	4865.10	1473.25	647.35	157.40	228.80	10924.80 CMSDAY
Mean	37.56	27.24	7.42	8.61	6.60	8.45	20.45	162.17	47.52	20.88	5.62	7.38	29.93 CMS
Max	75.10	63.85	15.90	29.00	20.45	19.40	81.40	470.00	100.75	36.90	10.60	10.00	470.00 CMS
Min	11.70	8.90	4.25	4.75	4.00	4.50	7.40	53.50	24.30	9.20	3.40	3.80	3.40 CMS
Runoff	97.36	72.96	19.23	23.06	17.68	21.90	54.78	420.35	127.29	55.93	13.60	19.77	943.90 MCM
Momentary Peak	476.00 CMS. at 6.68 m. (MSL.) at 12.00 Hours , on Nov 23 , 2009												
Runoff Yield	17.40 Liters/Second/Square KM.			Momentary Peak Yield				276.744 Liters/Second/Square KM.					

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Rattthaphum at Ban Kampheang Phet , Songkhla (X.67A)

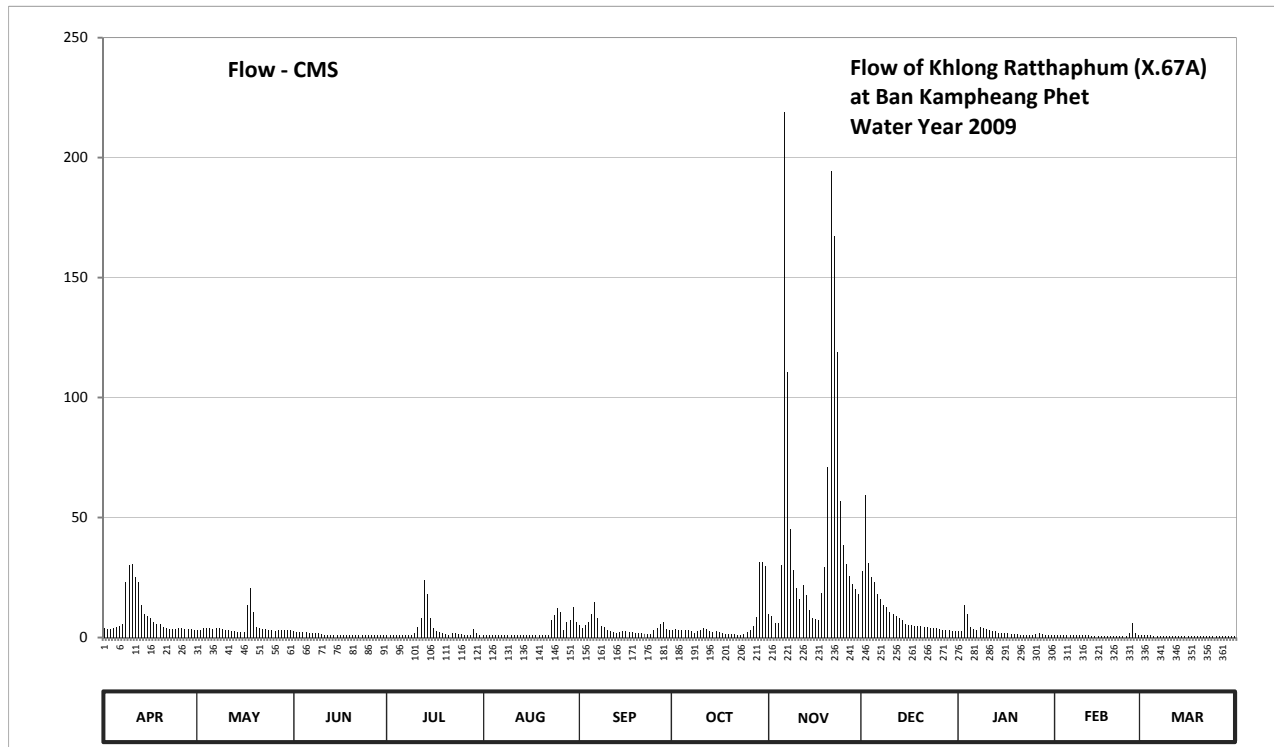
Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Kampheang Phet.

	Ban Kampheang Phet	Amphoe Rattthaphum	Changwat Songkhla
Drainage Area	248 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	Elevation	+5.845 m. (A.D.)
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 means of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2009.		

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.48	0.40	0.35	0.14	0.20	0.60	0.40	0.90	1.70	0.35	0.20	0.20	
2	0.46	0.40	0.34	0.14	0.20	0.50	0.45	0.85	2.75	0.35	0.19	0.18	
3	0.45	0.49	0.32	0.13	0.19	0.60	0.42	0.67	1.83	1.10	0.16	0.15	
4	0.50	0.49	0.32	0.14	0.18	0.70	0.40	0.68	1.60	0.90	0.16	0.13	
5	0.55	0.48	0.31	0.15	0.20	0.90	0.39	1.79	1.50	0.55	0.15	0.10	
6	0.58	0.47	0.30	0.16	0.18	1.14	0.40	5.22	1.30	0.45	0.15	0.10	
7	0.65	0.50	0.29	0.17	0.17	0.80	0.35	3.86	1.20	0.40	0.15	0.09	
8	1.50	0.48	0.28	0.18	0.16	0.58	0.30	2.34	1.10	0.53	0.14	0.09	
9	1.80	0.45	0.27	0.20	0.18	0.55	0.36	1.71	1.05	0.50	0.13	0.08	
10	1.81	0.40	0.24	0.29	0.19	0.40	0.42	1.40	0.95	0.45	0.13	0.07	
11	1.60	0.39	0.22	0.55	0.18	0.37	0.48	1.20	0.90	0.40	0.13	0.07	
12	1.50	0.38	0.21	0.80	0.16	0.34	0.47	1.45	0.85	0.38	0.13	0.07	
13	1.10	0.35	0.20	1.54	0.15	0.30	0.35	1.27	0.80	0.35	0.12	0.07	
14	0.90	0.34	0.20	1.30	0.14	0.32	0.32	1.00	0.75	0.30	0.12	0.08	
15	0.85	0.33	0.19	0.80	0.14	0.37	0.35	0.80	0.65	0.30	0.12	0.08	
16	0.80	0.32	0.18	0.50	0.13	0.35	0.32	0.78	0.60	0.28	0.11	0.08	
17	0.70	1.10	0.18	0.35	0.15	0.32	0.30	0.75	0.60	0.27	0.10	0.07	
18	0.65	1.40	0.18	0.33	0.20	0.31	0.26	1.31	0.59	0.26	0.09	0.07	
19	0.63	0.94	0.19	0.30	0.22	0.30	0.24	1.77	0.58	0.25	0.09	0.06	
20	0.55	0.55	0.19	0.25	0.20	0.29	0.24	3.05	0.56	0.23	0.09	0.05	
21	0.49	0.50	0.20	0.22	0.19	0.28	0.23	4.96	0.55	0.20	0.08	0.04	
22	0.45	0.45	0.20	0.30	0.19	0.25	0.22	4.66	0.53	0.19	0.08	0.03	
23	0.43	0.43	0.19	0.28	0.74	0.23	0.20	4.00	0.51	0.19	0.08	0.01	
24	0.47	0.40	0.17	0.26	0.87	0.25	0.25	2.68	0.50	0.18	0.08	0.01	
25	0.48	0.39	0.16	0.25	1.04	0.40	0.33	2.11	0.48	0.20	0.28	0.01	
26	0.48	0.38	0.15	0.22	0.95	0.50	0.40	1.82	0.45	0.25	0.66	0.00	
27	0.47	0.40	0.15	0.21	0.40	0.63	0.58	1.62	0.42	0.30	0.28	0.00	
28	0.46	0.41	0.14	0.20	0.70	0.69	0.83	1.47	0.40	0.24	0.20	-0.01	
29	0.45	0.42	0.14	0.44	0.75	0.45	1.84	1.39	0.39	0.21		-0.01	
30	0.40	0.40	0.14	0.30	1.06	0.42	1.84	1.29	0.38	0.20		-0.02	
31		0.40		0.21	0.70		1.78		0.38	0.18		-0.02	
Mean	0.75	0.49	0.22	0.36	0.36	0.47	0.51	1.96	0.87	0.35	0.16	0.06	
Max	1.81	1.40	0.35	1.54	1.06	1.14	1.84	5.22	2.75	1.10	0.66	0.20	5.22
Min	0.40	0.32	0.14	0.13	0.13	0.23	0.20	0.67	0.38	0.18	0.08	-0.02	-0.02
Annual Max Momentary Gage Height	5.55		m. (A.D.) ,			at 12.00 Hours , on Nov 6 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed -1.36	m. (A.D.)						
Left Bank Elevation	6.28		m. (A.D.) ,										
Right Bank Elevation	6.29		m. (A.D.) ,			Drainage Area 248	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.80	3.00	2.50	0.85	1.00	5.00	3.00	9.75	27.80	2.50	1.00	1.00	
2	3.60	3.00	2.40	0.85	1.00	4.00	3.50	8.88	59.25	2.50	0.98	0.95	
3	3.50	3.90	2.20	0.83	0.98	5.00	3.20	6.05	31.08	13.75	0.90	0.88	
4	4.00	3.90	2.20	0.85	0.95	6.50	3.00	6.20	25.30	9.75	0.90	0.83	
5	4.50	3.80	2.10	0.88	1.00	9.75	2.90	30.05	22.90	4.50	0.88	0.75	
6	4.80	3.70	2.00	0.90	0.95	14.65	3.00	219.10	18.25	3.50	0.88	0.75	
7	5.75	4.00	1.90	0.93	0.93	8.00	2.50	110.60	16.00	3.00	0.88	0.73	
8	22.90	3.80	1.80	0.95	0.90	4.80	2.00	45.20	13.75	4.30	0.85	0.73	
9	30.30	3.50	1.70	1.00	0.95	4.50	2.60	28.05	12.62	4.00	0.83	0.70	
10	30.56	3.00	1.40	1.90	0.98	3.00	3.20	20.50	10.63	3.50	0.83	0.68	
11	25.30	2.90	1.20	4.50	0.95	2.70	3.80	16.00	9.75	3.00	0.83	0.68	
12	22.90	2.80	1.10	8.00	0.90	2.40	3.70	21.70	8.88	2.80	0.83	0.68	
13	13.75	2.50	1.00	23.86	0.88	2.00	2.50	17.57	8.00	2.50	0.80	0.68	
14	9.75	2.40	1.00	18.25	0.85	2.20	2.20	11.50	7.25	2.00	0.80	0.70	
15	8.88	2.30	0.98	8.00	0.85	2.70	2.50	8.00	5.75	2.00	0.80	0.70	
16	8.00	2.20	0.95	4.00	0.83	2.50	2.20	7.70	5.00	1.80	0.78	0.70	
17	6.50	13.75	0.95	2.50	0.88	2.20	2.00	7.25	5.00	1.70	0.75	0.68	
18	5.75	20.50	0.95	2.30	1.00	2.10	1.60	18.47	4.90	1.60	0.73	0.68	
19	5.45	10.45	0.98	2.00	1.20	2.00	1.40	29.55	4.80	1.50	0.73	0.65	
20	4.50	4.50	0.98	1.50	1.00	1.90	1.40	71.00	4.60	1.30	0.73	0.63	
21	3.90	4.00	1.00	1.20	0.98	1.80	1.30	194.40	4.50	1.00	0.70	0.60	
22	3.50	3.50	1.00	2.00	0.98	1.50	1.20	167.40	4.30	0.98	0.70	0.58	
23	3.30	3.30	0.98	1.80	7.10	1.30	1.00	119.00	4.10	0.98	0.70	0.53	
24	3.70	3.00	0.93	1.60	9.23	1.50	1.50	56.80	4.00	0.95	0.70	0.53	
25	3.80	2.90	0.90	1.50	12.40	3.00	2.30	38.52	3.80	1.00	1.80	0.53	
26	3.80	2.80	0.88	1.20	10.63	4.00	3.00	30.82	3.50	1.50	5.90	0.50	
27	3.70	3.00	0.88	1.10	3.00	5.45	4.80	25.80	3.20	2.00	1.80	0.50	
28	3.60	3.10	0.85	1.00	6.50	6.35	8.52	22.18	3.00	1.40	1.00	0.48	
29	3.50	3.20	0.85	3.40	7.25	3.50	31.34	20.28	2.90	1.10		0.48	
30	3.00	3.00	0.85	2.00	12.85	3.20	31.34	18.02	2.80	1.00		0.45	
31	3.00		1.10	6.50		29.80			2.80	0.95		0.45	
Total	260.29	134.70	39.41	102.75	96.40	119.50	168.30	1386.34	340.41	84.36	30.01	20.41	2782.88 CMSDAY
Mean	8.68	4.35	1.31	3.31	3.11	3.98	5.43	46.21	10.98	2.72	1.07	0.66	7.62 CMS
Max	30.56	20.50	2.50	23.86	12.85	14.65	31.34	219.10	59.25	13.75	5.90	1.00	219.10 CMS
Min	3.00	2.20	0.85	0.83	0.83	1.30	1.00	6.05	2.80	0.95	0.70	0.45	0.45 CMS
Runoff	22.49	11.64	3.41	8.88	8.33	10.33	14.54	119.78	29.41	7.29	2.59	1.76	240.44 MCM
Momentary Peak	254.50 CMS. at 5.55 m. (A.D.) at 12.00 Hours , on Nov 6 , 2009												
Runoff Yield	30.65 Liters/Second/Square KM.			Momentary Peak Yield			123.116 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Tha Khae at Ban Tha Khae , Phatthalung (X.68)

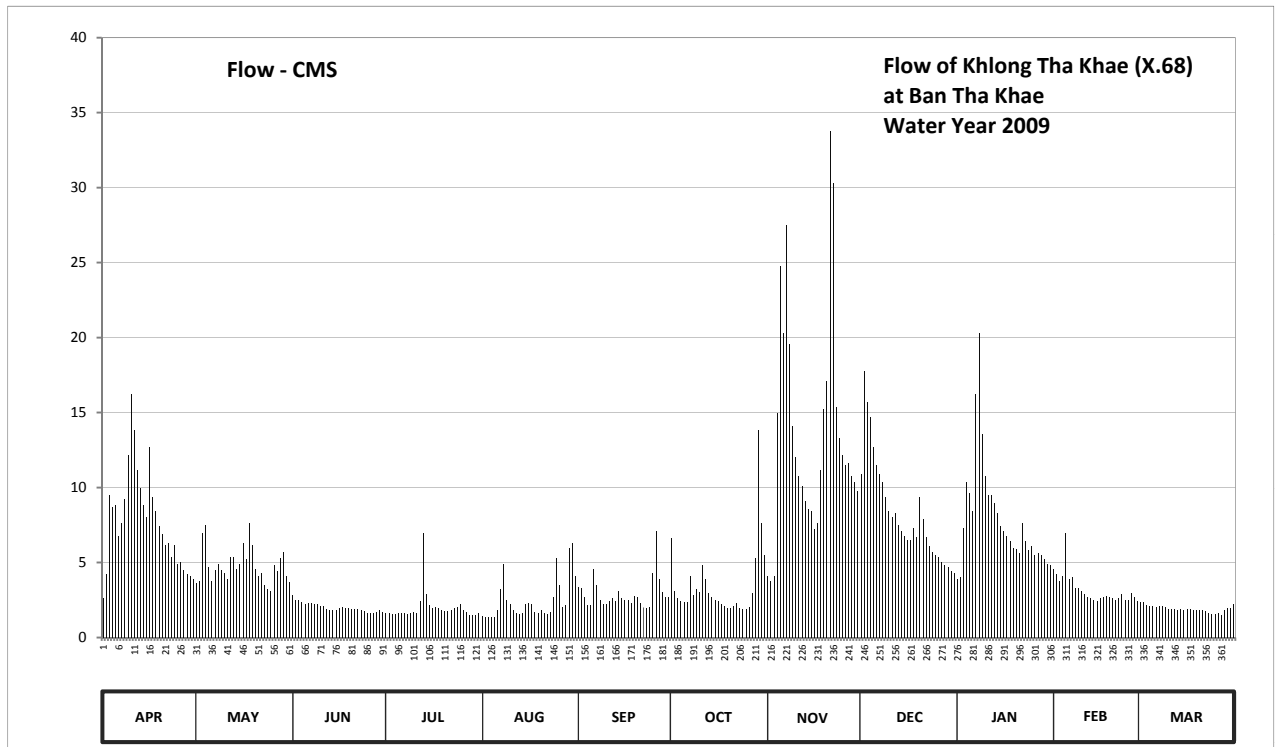
Lat 07 - 34 - 01 N Long 100 - 03 - 05 E

Location : on left bank downstream side of the bridge of Phatthalung - Hat Yai Highway.

	Ban Tha Khae	Amphoe Mueang	Changwat Phatthalung
Drainage Area	302 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage observer's house.	Elevation	+15.966 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 - 1972 , 1983 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1972 , 1983 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Tha Khae Weir. Stage-discharge relation defined by 39 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.88	13.01	12.91	12.73	12.69	12.98	13.31	13.06	13.65	13.04	13.11	12.85	
2	13.07	13.03	12.87	12.72	12.68	12.97	12.95	13.03	14.14	13.05	13.07	12.85	
3	13.55	13.35	12.87	12.71	12.68	12.89	12.88	13.06	13.99	13.38	13.03	12.82	
4	13.49	13.40	12.85	12.71	12.67	12.82	12.86	13.94	13.92	13.61	13.06	12.81	
5	13.50	13.12	12.83	12.72	12.68	12.82	12.85	14.57	13.78	13.56	13.35	12.81	
6	13.33	13.03	12.84	12.73	12.77	13.11	12.85	14.31	13.69	13.47	13.04	12.80	
7	13.41	13.10	12.84	12.72	12.96	13.00	13.06	14.72	13.65	14.03	13.05	12.81	
8	13.53	13.14	12.83	12.71	13.14	12.87	12.91	14.26	13.61	14.31	12.97	12.81	
9	13.74	13.10	12.83	12.73	12.87	12.83	12.96	13.88	13.54	13.84	12.97	12.80	
10	14.03	13.08	12.81	12.74	12.83	12.83	12.94	13.73	13.47	13.64	12.95	12.78	
11	13.86	13.04	12.81	12.72	12.77	12.86	13.13	13.64	13.44	13.55	12.92	12.78	
12	13.67	13.19	12.78	12.86	12.72	12.88	13.04	13.59	13.46	13.55	12.89	12.78	
13	13.58	13.19	12.77	13.35	12.71	12.86	12.93	13.52	13.40	13.51	12.88	12.77	
14	13.50	13.11	12.77	12.92	12.72	12.95	12.89	13.48	13.36	13.46	12.87	12.78	
15	13.44	13.14	12.77	12.82	12.83	12.88	12.87	13.47	13.33	13.39	12.86	12.77	
16	13.78	13.28	12.79	12.79	12.84	12.87	12.86	13.37	13.30	13.36	12.88	12.78	
17	13.54	13.17	12.80	12.80	12.83	12.87	12.83	13.41	13.30	13.33	12.89	12.78	
18	13.47	13.41	12.79	12.79	12.74	12.84	12.81	13.67	13.38	13.29	12.90	12.77	
19	13.39	13.27	12.79	12.76	12.73	12.90	12.79	13.96	13.32	13.25	12.89	12.76	
20	13.34	13.11	12.78	12.75	12.77	12.89	12.79	14.09	13.54	13.24	12.88	12.77	
21	13.27	13.06	12.78	12.75	12.73	12.84	12.81	15.05	13.43	13.21	12.87	12.76	
22	13.28	13.08	12.78	12.77	12.71	12.80	12.84	14.87	13.32	13.41	12.88	12.75	
23	13.19	13.00	12.77	12.79	12.74	12.79	12.79	13.97	13.26	13.29	12.92	12.73	
24	13.27	12.96	12.75	12.80	12.89	12.80	12.78	13.82	13.22	13.23	12.87	12.71	
25	13.14	12.95	12.73	12.83	13.18	13.08	12.78	13.74	13.20	13.26	12.87	12.71	
26	13.15	13.13	12.73	12.76	13.00	13.36	12.80	13.69	13.19	13.20	12.93	12.72	
27	13.10	13.09	12.73	12.74	12.80	13.04	12.93	13.70	13.15	13.21	12.89	12.70	
28	13.07	13.18	12.74	12.70	12.82	12.94	13.18	13.64	13.13	13.20	12.86	12.76	
29	13.06	13.22	12.76	12.70	13.25	12.89	13.86	13.61	13.12	13.17		12.79	
30	13.04	13.06	12.74	12.70	13.28	12.89	13.41	13.57	13.09	13.14		12.79	
31		13.02		12.72	13.06		13.20		13.08	13.13		12.83	
Mean	13.39	13.13	12.79	12.78	12.84	12.91	12.96	13.81	13.43	13.40	12.95	12.78	
Max	14.03	13.41	12.91	13.35	13.28	13.36	13.86	15.05	14.14	14.31	13.35	12.85	15.05
Min	12.88	12.95	12.73	12.70	12.67	12.79	12.78	13.03	13.08	13.04	12.86	12.70	12.67
Annual Max Momentary Gage Height		15.48		m. (MSL.) ,									at 02.00 Hours , on Nov 22 , 2009
Zero Gage at Bottom Elevation		0.00		m. (MSL.) ,		River Bed	11.48		m. (MSL)				
Left Bank Elevation		18.34		m. (MSL.) ,									
Right Bank Elevation		18.58		m. (MSL.) ,		Drainage Area	302		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.60	3.60	2.82	1.65	1.45	3.35	6.60	4.10	10.90	3.90	4.60	2.38		
2	4.20	3.80	2.52	1.60	1.40	3.28	3.12	3.80	17.76	4.00	4.20	2.38		
3	9.52	7.00	2.52	1.55	1.40	2.68	2.60	4.10	15.66	7.30	3.80	2.15		
4	8.71	7.50	2.38	1.55	1.35	2.15	2.45	14.96	14.68	10.34	4.10	2.08		
5	8.85	4.70	2.22	1.60	1.40	2.15	2.38	24.76	12.72	9.66	7.00	2.08		
6	6.80	3.80	2.30	1.65	1.85	4.60	2.38	20.31	11.46	8.45	3.90	2.00		
7	7.64	4.50	2.30	1.60	3.20	3.50	4.10	27.52	10.90	16.22	4.00	2.08		
8	9.25	4.90	2.22	1.55	4.90	2.52	2.82	19.53	10.34	20.31	3.28	2.08		
9	12.16	4.50	2.22	1.65	2.52	2.22	3.20	14.12	9.39	13.56	3.28	2.00		
10	16.22	4.30	2.08	1.70	2.22	2.22	3.05	12.02	8.45	10.76	3.12	1.90		
11	13.84	3.90	2.08	1.60	1.85	2.45	4.80	10.76	8.04	9.52	2.90	1.90		
12	11.18	5.40	1.90	2.45	1.60	2.60	3.90	10.06	8.31	9.52	2.68	1.90		
13	9.93	5.40	1.85	7.00	1.55	2.45	2.98	9.12	7.50	8.99	2.60	1.85		
14	8.85	4.60	1.85	2.90	1.60	3.12	2.68	8.58	7.10	8.31	2.52	1.90		
15	8.04	4.90	1.85	2.15	2.22	2.60	2.52	8.45	6.80	7.40	2.45	1.85		
16	12.72	6.30	1.95	1.95	2.30	2.52	2.45	7.20	6.50	7.10	2.60	1.90		
17	9.39	5.20	2.00	2.00	2.22	2.52	2.22	7.64	6.50	6.80	2.68	1.90		
18	8.45	7.64	1.95	1.95	1.70	2.30	2.08	11.18	7.30	6.40	2.75	1.85		
19	7.40	6.20	1.95	1.80	1.65	2.75	1.95	15.24	6.70	6.00	2.68	1.80		
20	6.90	4.60	1.90	1.75	1.85	2.68	1.95	17.06	9.39	5.90	2.60	1.85		
21	6.20	4.10	1.90	1.75	1.65	2.30	2.08	33.80	7.91	5.60	2.52	1.80		
22	6.30	4.30	1.90	1.85	1.55	2.00	2.30	30.33	6.70	7.64	2.60	1.75		
23	5.40	3.50	1.85	1.95	1.70	1.95	1.95	15.38	6.10	6.40	2.90	1.65		
24	6.20	3.20	1.75	2.00	2.68	2.00	1.90	13.28	5.70	5.80	2.52	1.55		
25	4.90	3.12	1.65	2.22	5.30	4.30	1.90	12.16	5.50	6.10	2.52	1.55		
26	5.00	4.80	1.65	1.80	3.50	7.10	2.00	11.46	5.40	5.50	2.98	1.60		
27	4.50	4.40	1.65	1.70	2.00	3.90	2.98	11.60	5.00	5.60	2.68	1.50		
28	4.20	5.30	1.70	1.50	2.15	3.05	5.30	10.76	4.80	5.50	2.45	1.80		
29	4.10	5.70	1.80	1.50	6.00	2.68	13.84	10.34	4.70	5.20		1.95		
30	3.90	4.10	1.70	1.50	6.30	2.68	7.64	9.79	4.40	4.90		1.95		
31	3.70		1.60	4.10		5.50		4.30	4.80		2.22			
Total	233.35	148.96	60.41	61.02	77.16	86.62	107.62	409.41	256.91	243.48	88.91	59.15	1833.00	CMSDAY
Mean	7.78	4.81	2.01	1.97	2.49	2.89	3.47	13.65	8.29	7.85	3.18	1.91	5.02	CMS
Max	16.22	7.64	2.82	7.00	6.30	7.10	13.84	33.80	17.76	20.31	7.00	2.38	33.80	CMS
Min	2.60	3.12	1.65	1.50	1.35	1.95	1.90	3.80	4.30	3.90	2.45	1.50	1.35	CMS
Runoff	20.16	12.87	5.22	5.27	6.67	7.48	9.30	35.37	22.20	21.04	7.68	5.11	158.37	MCM
Momentary Peak	42.40 CMS. at 15.48 m. (MSL) at 02.00 Hours , on Nov 22 , 2009													
Runoff Yield	16.61 Liters/Second/Square KM.			Momentary Peak Yield			140.272 Liters/Second/Square KM.							

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlomg Tam at Ban Khuan Lang , Songkhla (X.71B)

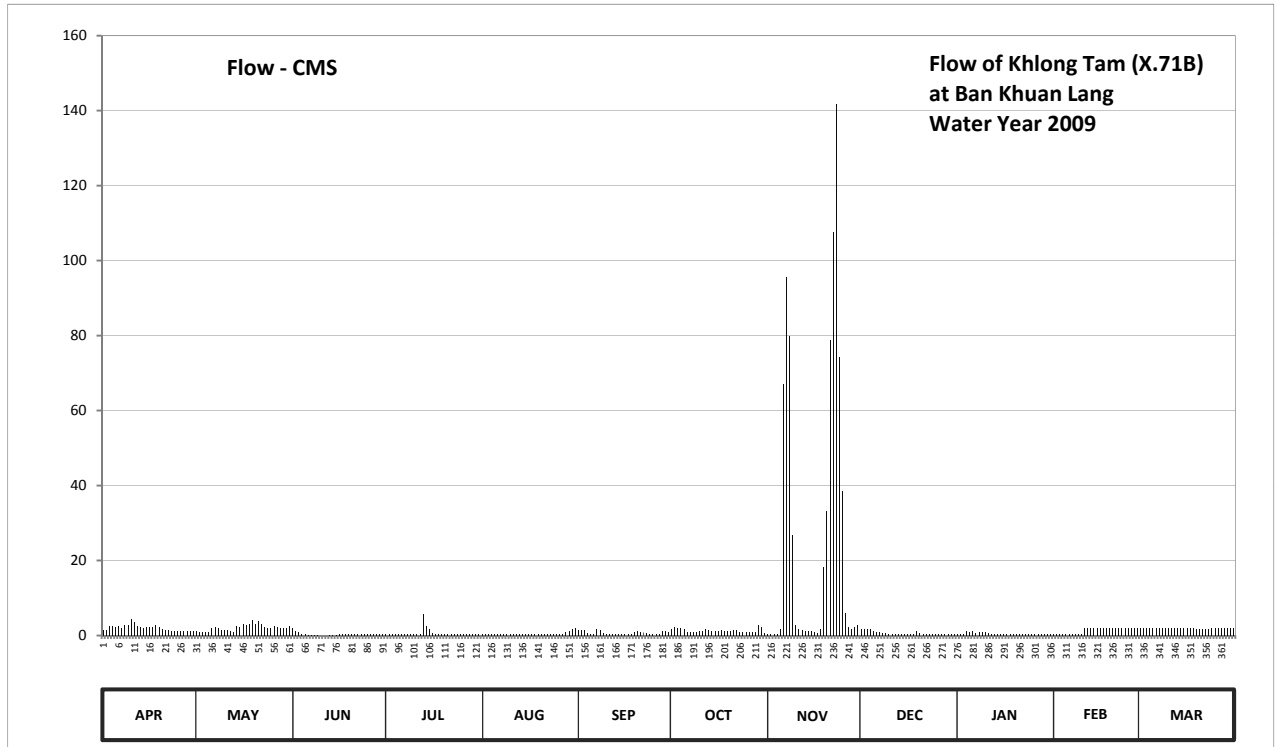
Lat 06 - 59 - 16 N Long 100 - 25 - 29 E

Location : on left bank at the bridge.

	Ban Khuan Lang	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	193 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	Elevation	+11.204 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 means of 5 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.35	5.22	5.54	4.65	4.63	5.40	5.50	4.85	5.50	4.71	4.65	5.60	
2	5.35	5.21	5.31	4.65	4.62	5.35	5.73	4.78	5.52	4.69	4.63	5.57	
3	5.86	5.17	5.14	4.65	4.62	5.35	5.63	4.81	5.52	4.93	4.62	5.57	
4	5.78	5.19	4.92	4.65	4.62	5.07	5.55	4.86	5.46	5.23	4.62	5.57	
5	5.67	5.19	4.69	4.65	4.62	4.72	5.52	5.53	5.31	5.18	4.62	5.57	
6	5.84	5.61	4.49	4.65	4.61	4.95	5.15	8.40	5.17	5.23	4.62	5.56	
7	5.61	5.72	4.34	4.65	4.60	5.52	5.16	8.86	5.12	5.07	4.60	5.56	
8	5.90	5.58	4.33	4.65	4.64	5.43	5.13	8.63	5.07	5.12	4.61	5.56	
9	5.96	5.41	4.30	4.65	4.62	5.04	5.16	7.45	5.02	5.21	4.62	5.56	
10	6.24	5.37	4.00	4.67	4.65	4.72	5.23	5.90	4.98	5.16	4.71	5.56	
11	6.13	5.34	4.00	4.67	4.62	4.73	5.25	5.49	4.95	5.01	5.64	5.55	
12	5.85	5.23	4.00	4.92	4.61	4.62	5.44	5.36	4.95	4.92	5.64	5.55	
13	5.67	5.20	4.09	6.42	4.57	4.73	5.40	5.31	4.92	4.87	5.63	5.55	
14	5.61	5.83	4.15	5.79	4.56	4.69	5.32	5.33	4.92	4.82	5.63	5.55	
15	5.65	5.68	4.20	5.44	4.63	4.62	5.29	5.25	4.92	4.80	5.62	5.54	
16	5.75	5.97	4.73	5.06	4.60	4.76	5.32	5.12	4.87	4.77	5.62	5.54	
17	5.75	5.90	4.73	4.87	4.64	4.83	5.42	5.06	4.87	4.77	5.61	5.54	
18	5.91	6.00	4.72	4.85	4.62	4.96	5.25	5.48	4.93	4.75	5.60	5.54	
19	5.65	6.21	4.72	4.80	4.59	5.18	5.22	7.15	5.24	4.74	5.60	5.53	
20	5.46	5.98	4.71	4.77	4.57	5.26	5.26	7.63	5.10	4.73	5.59	5.53	
21	5.41	6.17	4.70	4.74	4.57	5.21	5.40	8.61	4.97	4.73	5.59	5.52	
22	5.36	5.98	4.70	4.72	4.57	5.12	5.42	9.02	4.92	4.71	5.58	5.52	
23	5.31	5.72	4.67	4.75	4.57	5.04	5.21	9.37	4.88	4.63	5.59	5.52	
24	5.29	5.59	4.67	4.75	4.59	4.96	5.20	8.53	4.85	4.65	5.58	5.55	
25	5.25	5.57	4.67	4.72	4.65	4.79	5.16	7.76	4.83	4.64	5.58	5.55	
26	5.24	5.82	4.67	4.71	4.77	4.65	5.13	6.43	4.83	4.64	5.59	5.55	
27	5.24	5.72	4.65	4.70	4.83	4.72	5.12	5.74	4.81	4.65	5.63	5.55	
28	5.23	5.62	4.67	4.68	5.17	5.27	5.13	5.53	4.77	4.73	5.62	5.55	
29	5.23	5.62	4.67	4.67	5.33	5.29	5.96	5.65	4.75	4.71		5.55	
30	5.23	5.62	4.66	4.67	5.51	5.18	5.72	5.88	4.72	4.70		5.55	
31		5.80		4.66	5.55		5.10		4.71	4.67		5.55	
Mean	5.59	5.62	4.59	4.83	4.72	5.01	5.34	6.46	5.01	4.84	5.26	5.55	
Max	6.24	6.21	5.54	6.42	5.55	5.52	5.96	9.37	5.52	5.23	5.64	5.60	9.37
Min	5.23	5.17	4.00	4.65	4.56	4.62	5.10	4.78	4.71	4.63	4.60	5.52	4.00
Annual Max Momentary Gage Height	10.00		m. (MSL.) ,			at 12.00 Hours , on Nov 23 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	3.67	m. (MSL)						
Left Bank Elevation		11.22		m. (MSL.) ,									
Right Bank Elevation		11.38		m. (MSL.) ,	Drainage Area	193	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.37	1.05	1.85	0.33	0.32	1.50	1.75	0.42	1.75	0.36	0.33	2.00	
2	1.37	1.03	1.27	0.33	0.31	1.37	2.33	0.39	1.80	0.35	0.32	1.93	
3	2.65	0.93	0.85	0.33	0.31	1.37	2.08	0.40	1.80	0.46	0.31	1.93	
4	2.45	0.98	0.46	0.33	0.31	0.68	1.88	0.43	1.65	1.08	0.31	1.93	
5	2.18	0.98	0.35	0.33	0.31	0.36	1.80	1.83	1.27	0.95	0.31	1.93	
6	2.60	2.03	0.24	0.33	0.31	0.47	0.88	67.00	0.93	1.08	0.31	1.90	
7	2.03	2.30	0.17	0.33	0.30	1.80	0.90	95.50	0.80	0.68	0.30	1.90	
8	2.75	1.95	0.16	0.33	0.32	1.57	0.83	79.95	0.68	0.80	0.31	1.90	
9	2.90	1.52	0.15	0.33	0.31	0.60	0.90	26.75	0.55	1.03	0.31	1.90	
10	4.30	1.42	0.00	0.34	0.33	0.36	1.08	2.75	0.49	0.90	0.36	1.90	
11	3.65	1.35	0.00	0.34	0.31	0.37	1.13	1.72	0.47	0.53	2.10	1.88	
12	2.62	1.08	0.00	0.46	0.31	0.31	1.60	1.40	0.47	0.46	2.10	1.88	
13	2.18	1.00	0.05	5.75	0.29	0.37	1.50	1.27	0.46	0.43	2.08	1.88	
14	2.03	2.57	0.08	2.48	0.28	0.35	1.30	1.32	0.46	0.41	2.08	1.88	
15	2.13	2.20	0.10	1.60	0.32	0.31	1.22	1.13	0.46	0.40	2.05	1.85	
16	2.38	2.92	0.37	0.65	0.30	0.38	1.30	0.80	0.43	0.39	2.05	1.85	
17	2.38	2.75	0.37	0.43	0.32	0.41	1.55	0.65	0.43	0.39	2.03	1.85	
18	2.77	3.00	0.36	0.42	0.31	0.48	1.13	1.70	0.46	0.38	2.00	1.85	
19	2.13	4.08	0.36	0.40	0.30	0.95	1.05	18.38	1.10	0.37	2.00	1.83	
20	1.65	2.95	0.36	0.39	0.29	1.15	1.15	33.20	0.75	0.37	1.98	1.83	
21	1.52	3.85	0.35	0.37	0.29	1.03	1.50	78.65	0.48	0.37	1.98	1.80	
22	1.40	2.95	0.35	0.36	0.29	0.80	1.55	107.70	0.46	0.36	1.95	1.80	
23	1.27	2.30	0.34	0.38	0.29	0.60	1.03	141.70	0.44	0.32	1.98	1.80	
24	1.22	1.98	0.34	0.38	0.30	0.48	1.00	74.15	0.42	0.33	1.95	1.88	
25	1.13	1.93	0.34	0.36	0.33	0.39	0.90	38.40	0.41	0.32	1.95	1.88	
26	1.10	2.55	0.34	0.36	0.39	0.33	0.83	5.87	0.41	0.32	1.98	1.88	
27	1.10	2.30	0.33	0.35	0.41	0.36	0.80	2.35	0.40	0.33	2.08	1.88	
28	1.08	2.05	0.34	0.34	0.93	1.17	0.83	1.83	0.39	0.37	2.05	1.88	
29	1.08	2.05	0.34	0.34	1.32	1.22	2.90	2.13	0.38	0.36		1.88	
30	1.08	2.05	0.33	0.34	1.78	0.95	2.30	2.70	0.36	0.35		1.88	
31		2.50		0.33	1.88		0.75		0.36	0.34		1.88	
Total	60.50	64.60	10.95	20.14	14.37	22.49	41.75	792.47	21.72	15.59	39.56	58.24	1162.38 CMSDAY
Mean	2.02	2.08	0.37	0.65	0.46	0.75	1.35	26.42	0.70	0.50	1.41	1.88	3.18 CMS
Max	4.30	4.08	1.85	5.75	1.88	1.80	2.90	141.70	1.80	1.08	2.10	2.00	141.70 CMS
Min	1.08	0.93	0.00	0.33	0.28	0.31	0.75	0.39	0.36	0.32	0.30	1.80	0.00 CMS
Runoff	5.23	5.58	0.95	1.74	1.24	1.94	3.61	68.47	1.88	1.35	3.42	5.03	100.43 MCM
Momentary Peak	255.00 CMS. at 10.00 m. (MSL) at 12.00 Hours , on Nov 23 , 2009												
Runoff Yield	16.50 Liters/Second/Square KM.			Momentary Peak Yield			1321.244 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)

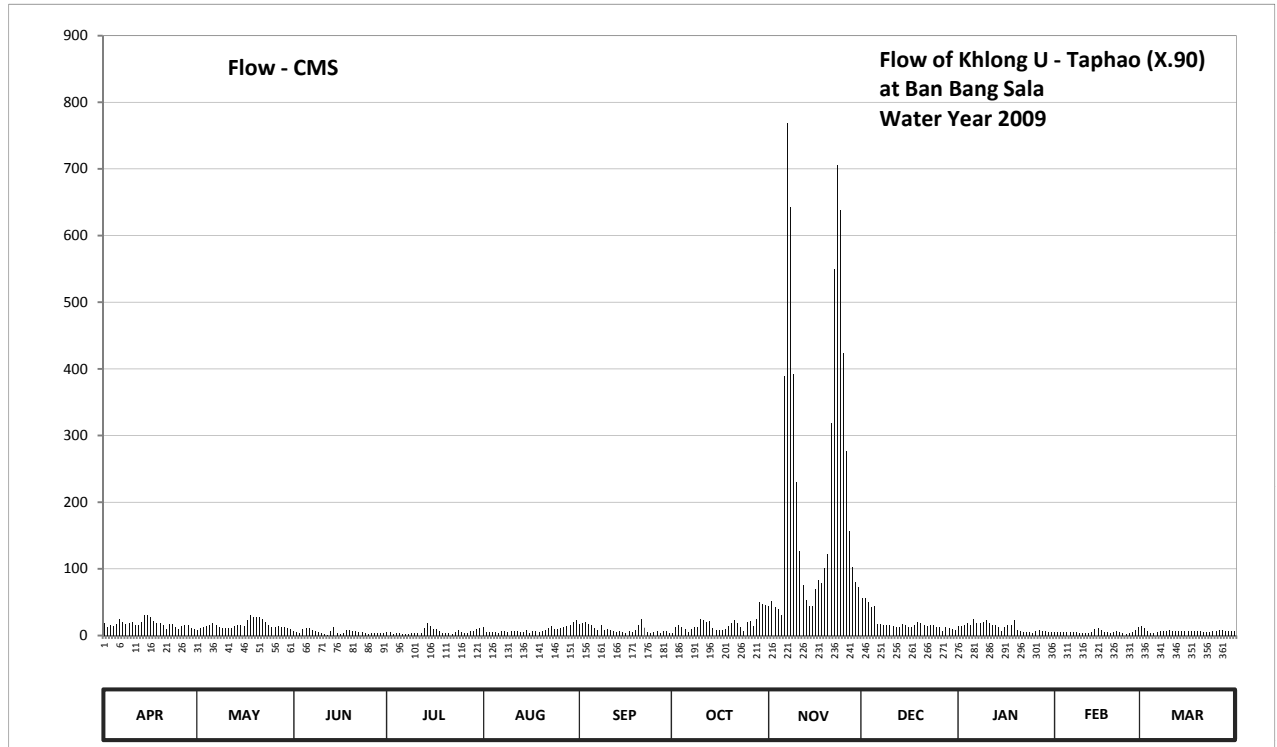
Lat 06 - 55 - 39 N Long 100 - 26 - 37 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

	Ban	Bang Sala	Amphoe	Khlong Hoi Khong	Changwat	Songkhla
Drainage Area	1,547	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 20 meters from the top staff gage.				Elevation	+9.744 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 means of 5 readings					
Period of Available Gage Records	1971 to date					
Rating Operation						
Period of Rating	1971 - 1972 , 1979 to date					
Rated by Flot	-					
Rated by Current Meter	1971 - 1972 , 1979 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.46	2.47	2.23	1.98	2.39	2.62	1.83	3.59	3.92	3.00	2.12	3.08	
2	2.88	2.69	2.10	1.95	1.97	2.71	2.42	3.81	3.92	3.08	2.18	2.73	
3	3.11	2.94	1.95	1.74	1.97	2.75	2.54	3.52	3.76	3.21	2.15	2.23	
4	2.99	2.99	2.53	1.82	1.94	2.57	2.40	3.43	3.51	3.49	2.14	1.90	
5	3.33	3.19	2.77	1.87	1.91	2.51	2.26	3.15	3.56	3.17	2.10	1.91	
6	3.95	3.41	2.74	1.76	1.85	2.32	1.97	7.84	3.36	3.93	2.10	2.07	
7	3.60	3.17	2.45	1.74	2.02	2.18	2.25	9.45	3.25	3.50	2.08	2.21	
8	3.32	2.94	2.34	1.79	2.04	2.50	2.41	8.98	3.19	3.51	2.05	2.31	
9	3.48	2.75	2.15	1.80	1.93	2.17	2.41	7.85	3.10	3.58	2.00	2.35	
10	3.62	2.71	1.95	1.86	2.02	2.24	2.97	6.74	3.14	3.79	2.00	2.39	
11	3.22	2.68	1.75	1.80	2.02	2.16	2.91	5.54	3.00	3.48	1.98	2.26	
12	3.10	2.65	1.65	1.86	2.02	2.00	2.77	4.43	2.81	3.13	1.95	2.24	
13	3.58	2.96	2.03	2.29	1.97	1.96	2.80	3.82	2.82	3.19	2.08	2.26	
14	4.35	3.15	2.37	2.70	1.97	2.01	2.31	3.57	3.28	2.94	2.54	2.30	
15	4.26	3.21	1.89	2.44	2.16	1.96	2.18	3.57	3.16	2.25	2.72	2.27	
16	4.07	2.97	1.67	2.26	1.86	1.87	2.17	4.28	2.85	2.92	2.44	2.25	
17	3.68	3.76	1.87	2.21	2.06	2.03	2.15	4.60	2.82	3.11	2.15	2.33	
18	3.55	4.30	2.15	2.04	2.03	1.94	2.23	4.50	3.15	3.19	2.04	2.33	
19	3.50	4.11	2.18	1.82	1.96	2.17	2.47	5.02	3.61	3.80	2.01	2.29	
20	3.10	4.15	2.08	1.80	2.02	2.52	2.66	5.45	3.45	2.46	2.18	2.24	
21	2.55	4.11	2.02	1.88	2.13	2.93	2.87	7.44	3.16	2.29	2.29	2.16	
22	3.32	3.87	1.90	1.72	2.34	2.34	2.67	8.61	2.96	2.18	2.12	2.14	
23	3.29	3.57	1.97	1.90	2.44	1.95	2.39	9.22	3.13	2.13	2.02	2.16	
24	2.87	3.20	1.86	2.19	2.25	1.88	2.03	8.96	3.11	2.06	1.89	2.24	
25	2.55	2.93	1.70	1.96	2.21	1.90	2.78	8.02	2.95	2.01	2.02	2.33	
26	2.98	2.89	1.85	1.86	2.28	2.00	2.84	7.14	2.79	2.22	2.13	2.43	
27	3.23	2.96	1.88	1.81	2.41	1.84	2.44	5.97	2.34	2.40	2.36	2.42	
28	3.10	2.88	1.89	2.03	2.46	2.09	2.95	5.07	2.90	2.33	2.79	2.28	
29	2.74	2.84	1.83	2.04	2.54	2.02	3.73	4.53	2.76	2.21		2.19	
30	2.63	2.72	1.82	2.23	2.78	1.84	3.68	4.34	2.55	2.05		2.25	
31	2.57			2.28	2.88		3.63		2.47	2.09		2.33	
Mean	3.31	3.15	2.05	1.98	2.16	2.20	2.58	5.75	3.12	2.86	2.17	2.29	
Max	4.35	4.30	2.77	2.70	2.88	2.93	3.73	9.45	3.92	3.93	2.79	3.08	9.45
Min	2.55	2.47	1.65	1.72	1.85	1.84	1.83	3.15	2.34	2.01	1.89	1.90	1.65
Annual Max Momentary Gage Height	9.55		m. (MSL.) ,				at 18.00 Hours , on Nov 7 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-0.81	m. (MSL)					
Left Bank Elevation	11.04		m. (MSL.) ,										
Right Bank Elevation	11.94		m. (MSL.) ,			Drainage Area	1547	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.60	8.70	6.30	5.70	12.80	17.40	3.45	44.65	56.20	14.00	5.20	14.80	
2	12.80	10.90	5.00	5.25	5.55	19.20	13.40	52.35	56.20	14.80	5.80	11.30	
3	15.10	13.40	3.50	2.40	5.55	20.00	15.80	42.20	50.60	16.10	5.50	6.30	
4	13.90	13.90	9.30	3.30	5.10	16.40	13.00	39.05	41.85	18.90	5.40	3.00	
5	17.30	15.90	11.70	4.05	4.65	15.20	10.20	30.50	43.60	15.70	5.00	3.10	
6	25.25	18.10	11.40	2.60	3.75	11.40	5.55	389.60	17.60	24.95	5.00	4.70	
7	20.00	15.70	8.50	2.40	6.30	8.70	10.00	768.50	16.50	19.00	4.80	6.10	
8	17.20	13.40	7.40	2.90	6.60	15.00	13.20	642.80	15.90	19.10	4.50	7.10	
9	18.80	11.50	5.50	3.00	4.95	8.55	13.20	391.50	15.00	19.80	4.00	7.50	
10	20.30	11.10	3.50	3.90	6.30	9.80	25.25	229.40	15.40	22.85	4.00	7.90	
11	16.20	10.80	1.70	3.00	6.30	8.40	23.75	126.70	14.00	18.80	3.80	6.60	
12	15.00	10.50	1.10	3.90	6.30	6.00	20.40	76.20	12.10	15.30	3.50	6.40	
13	19.80	13.60	6.45	10.80	5.55	5.40	21.00	52.70	12.20	15.90	4.80	6.60	
14	31.25	15.50	12.40	19.00	5.55	6.15	11.20	43.95	16.80	13.40	9.40	7.00	
15	29.90	16.10	4.35	13.80	8.40	5.40	8.70	43.95	15.60	6.50	11.20	6.70	
16	27.05	13.70	1.70	10.20	3.90	4.05	8.55	70.20	12.50	13.20	8.40	6.50	
17	21.20	22.40	4.05	9.20	6.90	6.45	8.25	83.00	12.20	15.10	5.50	7.30	
18	19.50	30.50	8.25	6.60	6.45	5.10	9.60	79.00	15.50	15.90	4.40	7.30	
19	19.00	27.65	8.70	3.30	5.40	8.55	14.40	100.90	20.15	23.00	4.10	6.90	
20	15.00	28.25	7.20	3.00	6.30	15.40	18.20	121.75	18.50	8.60	5.80	6.40	
21	9.50	27.65	6.30	4.20	7.95	24.25	22.75	318.80	15.60	6.90	6.90	5.60	
22	17.20	24.05	4.50	2.20	11.80	11.80	18.40	550.40	13.60	5.80	5.20	5.40	
23	16.90	19.70	5.55	4.50	13.80	5.25	12.80	705.40	15.30	5.30	4.20	5.60	
24	12.70	16.00	3.90	8.85	10.00	4.20	6.45	637.60	15.10	4.60	2.90	6.40	
25	9.50	13.30	2.00	5.40	9.20	4.50	20.60	424.00	13.50	4.10	4.20	7.30	
26	13.80	12.90	3.75	3.90	10.60	6.00	22.00	276.20	11.90	6.20	5.30	8.30	
27	16.30	13.60	4.20	3.15	13.20	3.60	13.80	156.75	7.40	8.00	7.60	8.20	
28	15.00	12.80	4.35	6.45	14.20	7.35	24.75	103.15	13.00	7.30	11.90	6.80	
29	11.40	12.40	3.45	6.60	15.80	6.30	49.55	80.20	11.60	6.10		5.90	
30	10.30	11.20	3.30	9.60	20.60	3.60	47.80	72.60	9.50	4.50		6.50	
31		9.70		10.60	23.00		46.05		8.70	4.90		7.30	
Total	525.75	494.90	169.30	183.75	272.75	289.40	552.05	6754.00	613.60	394.60	158.30	212.80	10621.20 CMSDAY
Mean	17.52	15.96	5.64	5.93	8.80	9.65	17.81	225.13	19.79	12.73	5.65	6.86	29.10 CMS
Max	31.25	30.50	12.40	19.00	23.00	24.25	49.55	768.50	56.20	24.95	11.90	14.80	768.50 CMS
Min	9.50	8.70	1.10	2.20	3.75	3.60	3.45	30.50	7.40	4.10	2.90	3.00	1.10 CMS
Runoff	45.43	42.76	14.63	15.88	23.57	25.00	47.70	583.55	53.02	34.09	13.68	18.39	917.67 MCM
Momentary Peak	797.50 CMS. at 9.55 m. (MSL.) at 18.00 Hours , on Nov 7 , 2009												
Runoff Yield	18.81 Liters/Second/Square KM.			Momentary Peak Yield				515.514 Liters/Second/Square KM.					

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Lam at Ban Takian Pao , Songkhla (X.112)

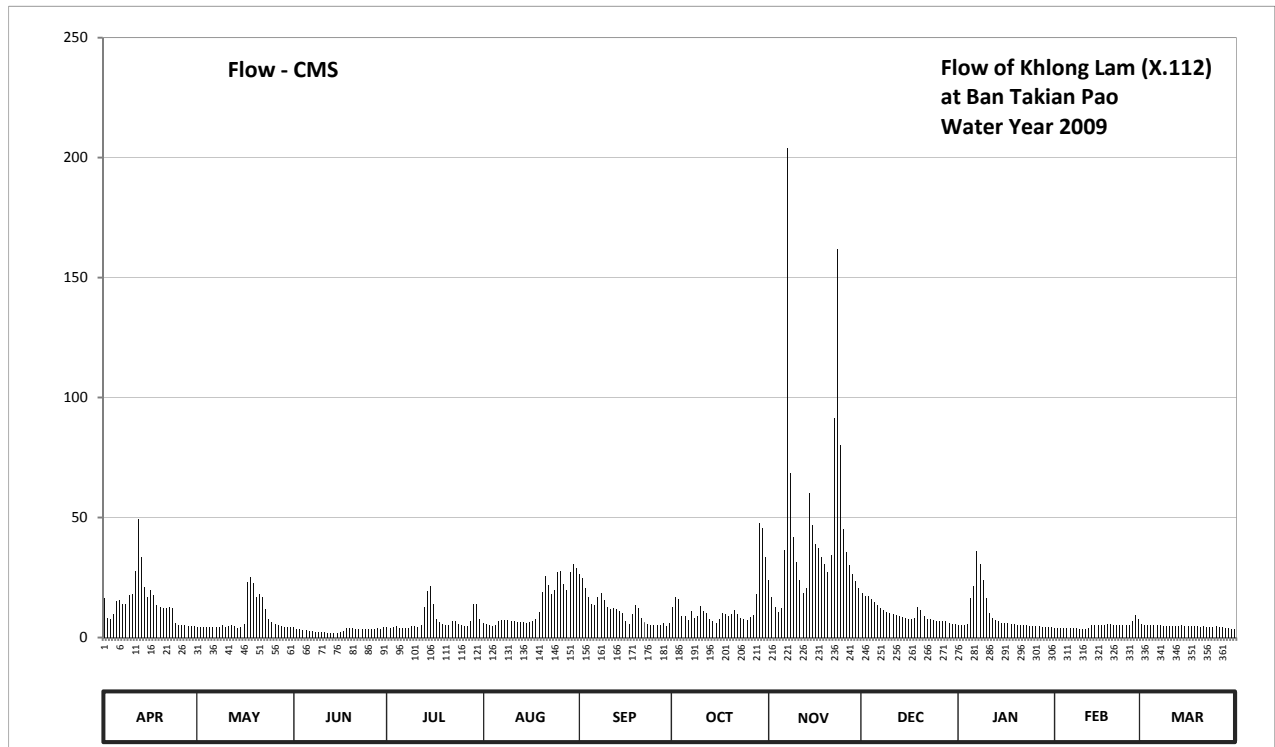
Lat 06 - 42 - 11 N Long 100 - 26 - 10 E

Location : on right bank at Ban Takian Pao.

	Ban Takian Pao	Amphoe Sadao	Changwat Songkhla
Drainage Area	493 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.	Elevation	+24.840 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 means of 5 readings		
Period of Available Gage Records	1979 - 1996 , 2006 to date		
Rating Operation			
Period of Rating	1979 - 1996 , 2006 to date		
Rated by Flot	-		
Rated by Current Meter	1979 - 1996 , 2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +26.120 m.(MSL.) and is including overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.12	21.25	21.26	21.28	21.60	24.06	22.61	23.87	23.39	21.45	21.22	21.52	
2	22.00	21.25	21.13	21.16	21.50	23.93	23.16	23.18	23.25	21.42	21.21	21.48	
3	21.96	21.24	21.08	21.30	21.44	23.62	23.05	22.64	23.23	21.43	21.20	21.44	
4	22.26	21.24	21.00	21.34	21.38	23.21	22.12	22.34	23.09	21.52	21.19	21.42	
5	22.95	21.25	21.00	21.22	21.42	22.80	22.15	22.59	22.92	23.10	21.18	21.42	
6	23.04	21.29	20.97	21.19	21.74	22.74	21.87	24.62	22.74	23.66	21.18	21.42	
7	22.80	21.29	20.93	21.16	21.83	23.19	22.41	25.95	22.55	24.60	21.16	21.40	
8	22.80	21.28	20.89	21.16	21.86	23.38	22.00	25.28	22.48	24.35	21.16	21.37	
9	23.29	21.41	20.86	21.36	21.88	22.99	22.14	24.80	22.36	23.89	21.14	21.36	
10	23.33	21.29	20.84	21.36	21.80	22.61	22.67	24.40	22.30	23.13	21.14	21.36	
11	24.17	21.32	20.82	21.30	21.74	22.52	22.39	23.88	22.23	22.32	21.12	21.32	
12	25.01	21.48	20.80	21.43	21.70	22.58	22.32	23.38	22.17	21.99	21.18	21.32	
13	24.50	21.37	20.78	22.64	21.66	22.54	21.93	23.61	22.11	21.84	21.41	21.35	
14	23.64	21.19	20.76	23.50	21.65	22.42	21.79	25.20	22.07	21.74	21.43	21.42	
15	23.20	21.30	20.79	23.66	21.64	22.32	21.60	24.94	22.00	21.64	21.43	21.38	
16	23.52	21.56	20.88	22.80	21.66	21.73	21.90	24.70	21.97	21.62	21.42	21.36	
17	23.27	23.81	20.94	21.92	21.74	21.56	22.29	24.65	21.94	21.58	21.45	21.34	
18	22.71	23.96	21.18	21.72	21.93	22.26	22.26	24.50	22.02	21.54	21.52	21.32	
19	22.63	23.79	21.17	21.56	22.37	22.73	22.12	24.34	22.61	21.49	21.49	21.32	
20	22.58	23.18	21.16	21.41	23.44	22.59	22.22	24.15	22.44	21.46	21.46	21.30	
21	22.58	23.34	21.15	21.43	24.02	22.02	22.48	24.53	22.12	21.43	21.44	21.32	
22	22.63	23.17	21.14	21.76	23.69	21.68	22.23	25.46	21.95	21.41	21.43	21.31	
23	22.58	22.53	21.13	21.78	23.33	21.54	22.00	25.81	21.90	21.40	21.42	21.31	
24	21.57	21.91	21.12	21.56	23.53	21.48	21.94	25.39	21.86	21.38	21.42	21.31	
25	21.46	21.70	21.11	21.41	24.15	21.46	21.89	24.89	21.81	21.35	21.46	21.32	
26	21.48	21.54	21.10	21.36	24.16	21.40	22.06	24.58	21.78	21.32	21.76	21.29	
27	21.45	21.42	21.10	21.32	23.74	21.45	22.16	24.32	21.76	21.32	22.20	21.27	
28	21.38	21.37	21.18	21.81	23.52	21.58	23.33	24.06	21.74	21.30	21.91	21.22	
29	21.35	21.31	21.14	22.81	24.13	21.36	24.96	23.84	21.63	21.30		21.16	
30	21.37	21.28	21.29	22.82	24.36	21.64	24.90	23.60	21.54	21.30		21.13	
31		21.27		21.97	24.26		24.49		21.52	21.29		21.12	
Mean	22.69	21.83	21.02	21.76	22.54	22.38	22.50	24.32	22.24	21.95	21.38	21.33	
Max	25.01	23.96	21.29	23.66	24.36	24.06	24.96	25.95	23.39	24.60	22.20	21.52	25.95
Min	21.35	21.19	20.76	21.16	21.38	21.36	21.60	22.34	21.52	21.29	21.12	21.12	20.76
Annual Max Momentary Gage Height		26.12		m. (MSL.) ,				at 06.00 Hours , on Nov 7 , 2009					
Zero Gage at Bottom Elevation		0.00		m. (MSL.) ,		River Bed	20.11	m. (MSL)					
Left Bank Elevation		26.18		m. (MSL.) ,									
Right Bank Elevation		26.12		m. (MSL.) ,		Drainage Area	493	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.40	4.25	4.30	4.40	6.00	26.25	12.58	23.88	18.42	5.25	4.10	5.60		
2	8.00	4.25	3.65	3.80	5.50	24.62	16.70	16.85	17.38	5.10	4.05	5.40		
3	7.80	4.20	3.40	4.50	5.20	20.75	15.87	12.80	17.22	5.15	4.00	5.20		
4	9.95	4.20	3.00	4.70	4.90	17.07	8.90	10.55	16.18	5.60	3.95	5.10		
5	15.13	4.25	3.00	4.10	5.10	14.00	9.12	12.43	14.90	16.25	3.90	5.10		
6	15.80	4.45	2.85	3.95	6.70	13.55	7.35	36.60	13.55	21.25	3.90	5.10		
7	14.00	4.45	2.65	3.80	7.15	16.93	11.07	204.00	12.12	36.00	3.80	5.00		
8	14.00	4.40	2.45	3.80	7.30	18.35	8.00	68.40	11.60	30.63	3.80	4.85		
9	17.68	5.05	2.30	4.80	7.40	15.43	9.05	42.00	10.70	24.12	3.70	4.80		
10	17.98	4.45	2.20	4.80	7.00	12.58	13.03	31.50	10.25	16.47	3.70	4.80		
11	27.62	4.60	2.10	4.50	6.70	11.90	10.92	24.00	9.72	10.40	3.60	4.60		
12	49.55	5.40	2.00	5.15	6.50	12.35	10.40	18.35	9.28	7.95	3.90	4.60		
13	33.75	4.85	1.90	12.80	6.30	12.05	7.65	20.63	8.83	7.20	5.05	4.75		
14	21.00	3.95	1.80	19.50	6.25	11.15	6.95	60.00	8.52	6.70	5.15	5.10		
15	17.00	4.50	1.95	21.25	6.20	10.40	6.00	46.90	8.00	6.20	5.15	4.90		
16	19.70	5.80	2.40	14.00	6.30	6.65	7.50	39.00	7.85	6.10	5.10	4.80		
17	17.53	23.12	2.70	7.60	6.70	5.80	10.18	37.50	7.70	5.90	5.25	4.70		
18	13.32	25.00	3.90	6.60	7.65	9.95	9.95	33.75	8.15	5.70	5.60	4.60		
19	12.72	22.88	3.85	5.80	10.78	13.47	8.90	30.45	12.58	5.45	5.45	4.60		
20	12.35	16.85	3.80	5.05	18.90	12.43	9.65	27.37	11.30	5.30	5.30	4.50		
21	12.35	18.05	3.75	5.15	25.75	8.15	11.60	34.43	8.90	5.15	5.20	4.60		
22	12.72	16.78	3.70	6.80	21.63	6.40	9.72	91.50	7.75	5.05	5.15	4.55		
23	12.35	11.98	3.65	6.90	17.98	5.70	8.00	162.00	7.50	5.00	5.10	4.55		
24	5.85	7.55	3.60	5.80	19.80	5.40	7.70	79.95	7.30	4.90	5.10	4.55		
25	5.30	6.50	3.55	5.05	27.37	5.30	7.45	45.15	7.05	4.75	5.30	4.60		
26	5.40	5.70	3.50	4.80	27.50	5.00	8.45	35.55	6.90	4.60	6.80	4.45		
27	5.25	5.10	3.50	4.60	22.25	5.25	9.20	30.10	6.80	4.60	9.50	4.35		
28	4.90	4.85	3.90	7.05	19.70	5.90	17.98	26.25	6.70	4.50	7.55	4.10		
29	4.75	4.55	3.70	14.07	27.12	4.80	47.60	23.50	6.15	4.50		3.80		
30	4.85	4.40	4.45	14.15	30.80	6.20	45.50	20.50	5.70	4.50		3.65		
31	4.35			7.85	29.05		33.52		5.60	4.45		3.60		
Total	435.00	250.71	93.50	227.12	413.48	343.78	406.49	1345.89	310.60	284.72	138.15	144.90	4394.34	CMSDAY
Mean	14.50	8.09	3.12	7.33	13.34	11.46	13.11	44.86	10.02	9.18	4.93	4.67	12.04	CMS
Max	49.55	25.00	4.45	21.25	30.80	26.25	47.60	204.00	18.42	36.00	9.50	5.60	204.00	CMS
Min	4.75	3.95	1.80	3.80	4.90	4.80	6.00	10.55	5.60	4.45	3.60	3.60	1.80	CMS
Runoff	37.58	21.66	8.08	19.62	35.73	29.70	35.12	116.29	26.84	24.60	11.94	12.52	379.67	MCM
Momentary Peak	271.20 CMS. at 26.12 m. (MSL.) at 06.00 Hours , on Nov 7 , 2009													
Runoff Yield	24.42 Liters/Second/Square KM.			Momentary Peak Yield			550.101 Liters/Second/Square KM.							

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong La Pang at Ban Thung Prap , Songkhla (X.113)

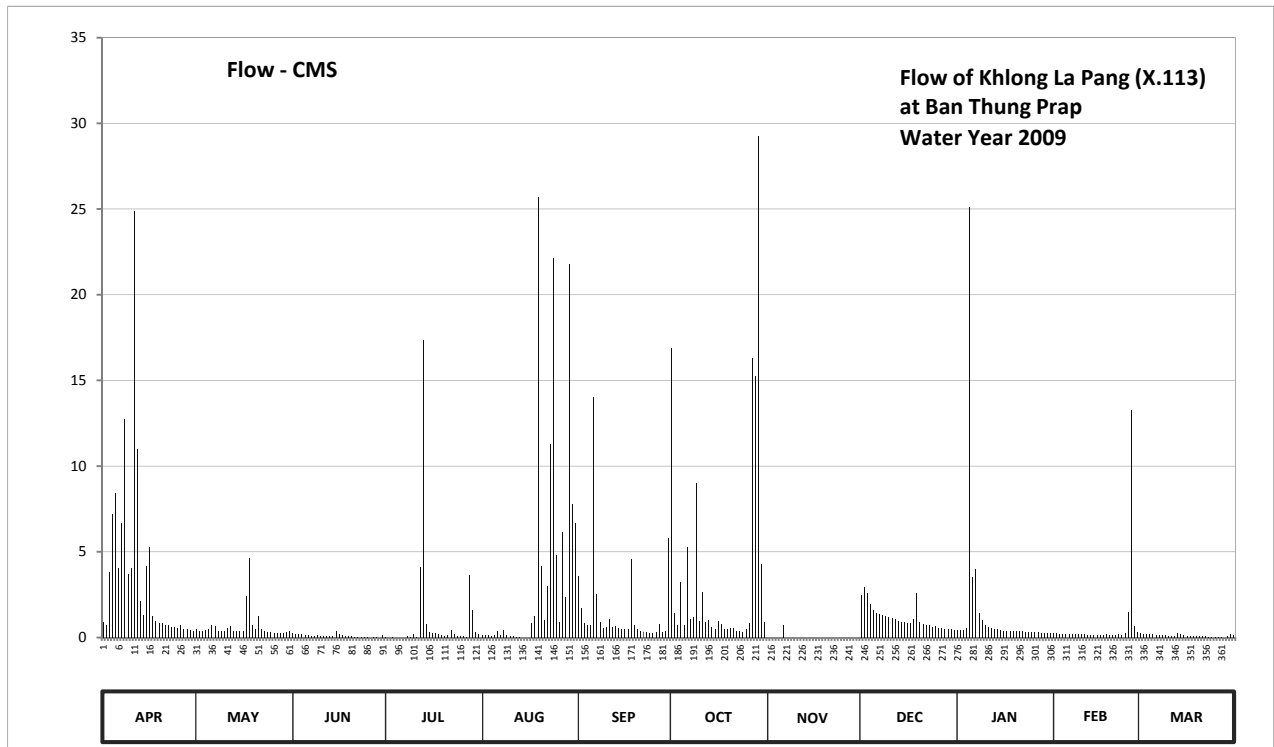
Lat 06 - 37 - 59 N Long 100 - 23 - 46 E

Location : on right bank at Ban Thung Prap.

	Ban	Thung Prap	Amphoe	Sadao	Changwat	Songkhla
Drainage Area	118	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 15 meters from the gage observer's house.				Elevation	+37.552 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 means of 5 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1979 to date					
Rated by Flot	-					
Rated by Current Meter	1979 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.16	31.99	31.90	31.81	31.85	32.82	34.26	21.95	32.59	31.97	31.90	31.91	
2	32.10	31.96	31.89	31.80	31.86	32.44	32.38	21.95	32.69	31.97	31.90	31.89	
3	32.86	31.95	31.87	31.81	31.85	32.14	32.09	21.91	32.62	31.98	31.89	31.87	
4	33.42	31.98	31.87	31.80	31.83	32.08	32.75	21.92	32.49	32.02	31.89	31.87	
5	33.54	32.00	31.86	31.80	31.86	32.10	32.09	22.86	32.42	34.73	31.89	31.87	
6	32.91	32.09	31.85	31.80	31.94	34.04	33.16	32.09	32.37	32.80	31.88	31.86	
7	33.36	32.07	31.84	31.79	31.86	32.61	32.22	25.91	32.34	32.90	31.88	31.85	
8	33.94	31.96	31.84	31.83	31.97	32.15	32.29	23.45	32.32	32.38	31.88	31.85	
9	32.84	31.95	31.85	31.82	31.86	32.03	33.60	22.75	32.30	32.20	31.88	31.85	
10	32.91	31.95	31.84	31.89	31.84	32.04	32.19	22.33	32.27	32.08	31.87	31.84	
11	34.72	32.02	31.83	31.81	31.83	32.23	32.63	22.36	32.25	32.04	31.87	31.84	
12	33.80	32.06	31.83	32.92	31.82	32.05	32.15	30.13	32.22	32.02	31.86	31.83	
13	32.53	31.95	31.83	34.29	31.82	32.06	32.20	24.59	32.19	32.01	31.86	31.90	
14	32.33	31.95	31.83	32.12	31.80	32.02	32.04	23.44	32.17	32.01	31.86	31.87	
15	32.93	31.96	31.94	31.93	31.80	32.01	32.00	23.49	32.15	31.98	31.86	31.85	
16	33.16	31.96	31.87	31.90	31.80	31.99	32.19	22.98	32.13	31.96	31.85	31.84	
17	32.30	32.58	31.85	31.90	32.14	32.00	32.11	23.29	32.13	31.96	31.86	31.83	
18	32.19	33.03	31.84	31.89	32.30	33.01	32.00	22.89	32.22	31.95	31.88	31.83	
19	32.13	32.09	31.83	31.86	34.76	32.08	32.00	22.92	32.62	31.94	31.86	31.83	
20	32.13	31.99	31.83	31.83	32.93	31.99	32.03	22.49	32.15	31.94	31.86	31.83	
21	32.09	32.30	31.82	31.85	32.20	31.95	32.02	29.14	32.12	31.94	31.86	31.83	
22	32.09	31.99	31.82	31.97	32.70	31.93	31.96	27.79	32.10	31.94	31.88	31.83	
23	32.05	31.95	31.81	31.89	33.82	31.92	31.94	24.42	32.09	31.93	31.85	31.82	
24	32.04	31.93	31.81	31.84	34.58	31.90	31.93	23.41	32.05	31.93	31.90	31.82	
25	32.03	31.92	31.81	31.83	33.06	31.91	32.00	23.24	32.06	31.93	32.40	31.81	
26	32.09	31.91	31.80	31.83	32.17	31.92	32.13	22.82	32.03	31.92	33.98	31.81	
27	32.00	31.91	31.81	31.81	33.29	32.11	34.22	22.55	32.02	31.92	32.06	31.81	
28	31.99	31.91	31.81	32.83	32.57	31.93	34.14	22.47	32.01	31.91	31.93	31.80	
29	31.98	31.90	31.80	32.42	34.56	31.96	34.91	22.39	32.01	31.91		31.84	
30	31.96	31.93	31.85	31.92	33.48	33.24	32.96	22.34	31.99	31.91		31.88	
31	31.96	31.96		31.87	33.36		32.17		31.97	31.90		31.85	
Mean	32.62	32.04	31.84	32.02	32.50	32.22	32.54	23.88	32.23	32.13	31.98	31.85	
Max	34.72	33.03	31.94	34.29	34.76	34.04	34.91	32.09	32.69	34.73	33.98	31.91	34.91
Min	31.96	31.90	31.80	31.79	31.80	31.90	31.93	21.91	31.97	31.90	31.85	31.80	21.91
Annual Max Momentary Gage Height	36.94		m. (MSL.) ,				at 21.00 Hours , on Nov 6 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	31.72		m. (MSL)				
Left Bank Elevation	37.96		m. (MSL.) ,										
Right Bank Elevation	38.01		m. (MSL.) ,			Drainage Area	118		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.90	0.47	0.25	0.03	0.13	3.60	16.90	0.00	2.45	0.42	0.25	0.28	
2	0.75	0.40	0.22	0.00	0.15	1.70	1.45	0.00	2.95	0.42	0.25	0.22	
3	3.80	0.38	0.18	0.03	0.13	0.85	0.72	0.00	2.60	0.45	0.22	0.18	
4	7.20	0.45	0.18	0.00	0.08	0.70	3.25	0.00	1.95	0.55	0.22	0.18	
5	8.40	0.50	0.15	0.00	0.15	0.75	0.72	0.00	1.60	25.10	0.22	0.18	
6	4.05	0.72	0.13	0.00	0.35	14.00	5.30	0.72	1.42	3.50	0.20	0.15	
7	6.70	0.67	0.10	0.00	0.15	2.55	1.05	0.00	1.35	4.00	0.20	0.13	
8	12.75	0.40	0.10	0.08	0.42	0.88	1.22	0.00	1.30	1.45	0.20	0.13	
9	3.70	0.38	0.13	0.05	0.15	0.57	9.00	0.00	1.25	1.00	0.20	0.13	
10	4.05	0.38	0.10	0.22	0.10	0.60	0.97	0.00	1.17	0.70	0.18	0.10	
11	24.90	0.55	0.08	0.03	0.08	1.07	2.65	0.00	1.12	0.60	0.18	0.10	
12	11.00	0.65	0.08	4.10	0.05	0.62	0.88	0.00	1.05	0.55	0.15	0.08	
13	2.15	0.38	0.08	17.35	0.05	0.65	1.00	0.00	0.97	0.52	0.15	0.25	
14	1.33	0.38	0.08	0.80	0.00	0.55	0.60	0.00	0.92	0.52	0.15	0.18	
15	4.15	0.40	0.35	0.33	0.00	0.52	0.50	0.00	0.88	0.45	0.15	0.13	
16	5.30	0.40	0.18	0.25	0.00	0.47	0.97	0.00	0.83	0.40	0.13	0.10	
17	1.25	2.40	0.13	0.25	0.85	0.50	0.78	0.00	0.83	0.40	0.15	0.08	
18	0.97	4.65	0.10	0.22	1.25	4.55	0.50	0.00	1.05	0.38	0.20	0.08	
19	0.83	0.72	0.08	0.15	25.70	0.70	0.50	0.00	2.60	0.35	0.15	0.08	
20	0.83	0.47	0.08	0.08	4.15	0.47	0.57	0.00	0.88	0.35	0.15	0.08	
21	0.72	1.25	0.05	0.13	1.00	0.38	0.55	0.00	0.80	0.35	0.15	0.08	
22	0.72	0.47	0.05	0.42	3.00	0.33	0.40	0.00	0.75	0.35	0.20	0.08	
23	0.62	0.38	0.03	0.22	11.25	0.30	0.35	0.00	0.72	0.33	0.13	0.05	
24	0.60	0.33	0.03	0.10	22.15	0.25	0.33	0.00	0.62	0.33	0.25	0.05	
25	0.57	0.30	0.03	0.08	4.80	0.28	0.50	0.00	0.65	0.33	1.50	0.03	
26	0.72	0.28	0.00	0.08	0.92	0.30	0.83	0.00	0.57	0.30	13.25	0.03	
27	0.50	0.28	0.03	0.03	6.17	0.78	16.30	0.00	0.55	0.30	0.65	0.03	
28	0.47	0.28	0.03	3.65	2.35	0.33	15.25	0.00	0.52	0.28	0.33	0.00	
29	0.45	0.25	0.00	1.60	21.80	0.40	29.25	0.00	0.52	0.28		0.10	
30	0.40	0.33	0.13	0.30	7.80	5.80	4.30	0.00	0.47	0.28		0.20	
31		0.40		0.18	6.70		0.92		0.42	0.25		0.13	
Total	110.78	20.30	3.16	30.76	121.88	45.45	118.51	0.72	35.76	45.49	20.16	3.62	556.59 CMSDAY
Mean	3.69	0.65	0.11	0.99	3.93	1.51	3.82	0.02	1.15	1.47	0.72	0.12	1.52 CMS
Max	24.90	4.65	0.35	17.35	25.70	14.00	29.25	0.72	2.95	25.10	13.25	0.28	29.25 CMS
Min	0.40	0.25	0.00	0.00	0.00	0.25	0.33	0.00	0.42	0.25	0.13	0.00	0.00 CMS
Runoff	9.57	1.75	0.27	2.66	10.53	3.93	10.24	0.06	3.09	3.93	1.74	0.31	48.09 MCM
Momentary Peak	227.10 CMS. at 36.94 m. (MSL) at 21.00 Hours , on Nov 6 , 2009												
Runoff Yield	12.87 Liters/Second/Square KM.			Momentary Peak Yield			1917.265 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlung Lam at Ban Khlung Lam , Phatthalung (X.170)

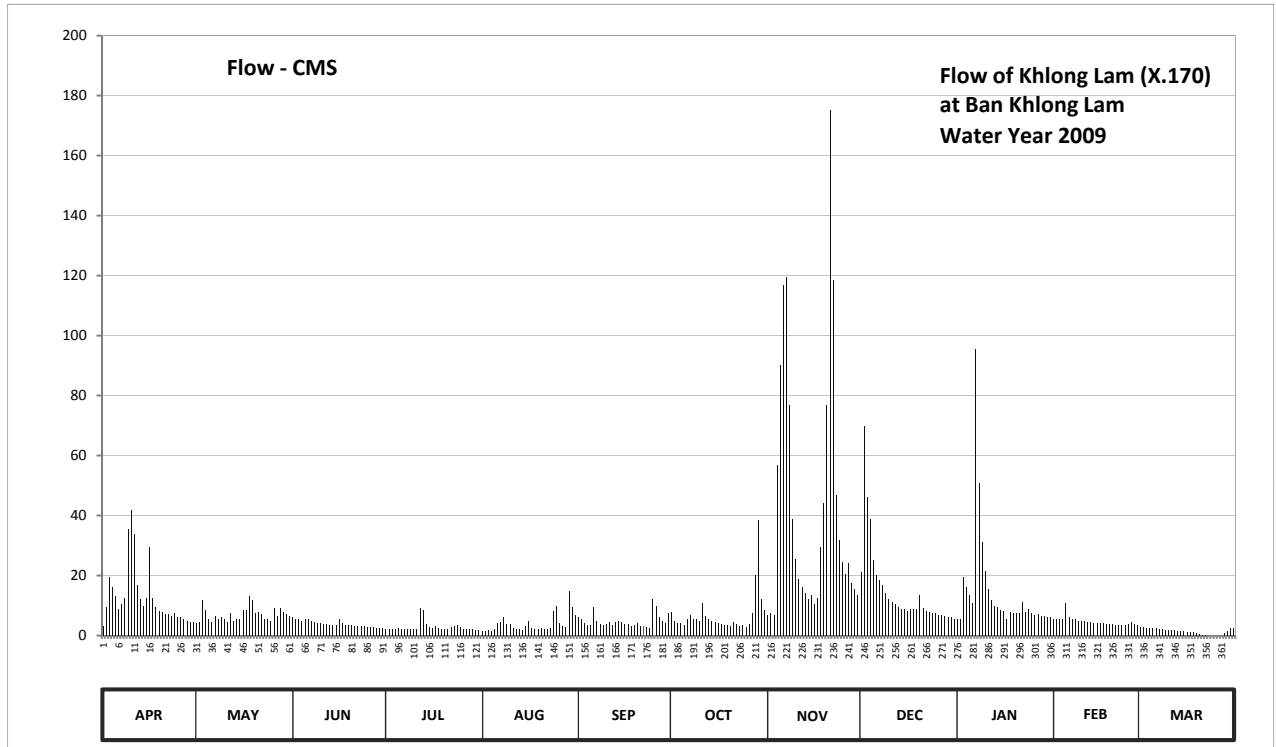
Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

Location : on left bank at the bridge.

	Ban Khlung Lam	Amphoe Srinagarindra	Changwat Phatthalung
Drainage Area	258 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 21 meters from the top staff gage.	Elevation	+27.274 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.42	20.45	20.50	20.39	20.36	20.50	20.55	20.52	20.85	20.49	20.49	20.41	
2	20.60	20.46	20.48	20.39	20.36	20.48	20.47	20.54	21.69	20.49	20.49	20.41	
3	20.82	20.65	20.48	20.39	20.37	20.45	20.45	20.52	21.31	20.82	20.48	20.40	
4	20.75	20.57	20.47	20.38	20.36	20.43	20.45	21.49	21.19	20.75	20.48	20.40	
5	20.68	20.48	20.49	20.40	20.38	20.43	20.43	21.98	20.93	20.69	20.63	20.40	
6	20.58	20.46	20.48	20.39	20.45	20.60	20.48	22.31	20.83	20.63	20.50	20.40	
7	20.62	20.51	20.47	20.38	20.46	20.47	20.52	22.34	20.80	22.05	20.49	20.39	
8	20.67	20.48	20.46	20.38	20.50	20.44	20.48	21.79	20.76	21.39	20.48	20.38	
9	21.13	20.50	20.45	20.39	20.44	20.43	20.49	21.19	20.70	21.05	20.47	20.37	
10	21.24	20.48	20.45	20.39	20.44	20.44	20.47	20.94	20.66	20.86	20.47	20.37	
11	21.10	20.46	20.44	20.39	20.40	20.46	20.63	20.81	20.64	20.73	20.47	20.37	
12	20.76	20.54	20.44	20.59	20.39	20.43	20.51	20.75	20.62	20.65	20.46	20.37	
13	20.66	20.47	20.43	20.57	20.38	20.46	20.48	20.70	20.60	20.61	20.46	20.36	
14	20.61	20.48	20.43	20.44	20.37	20.47	20.47	20.66	20.58	20.60	20.45	20.36	
15	20.67	20.48	20.43	20.41	20.42	20.46	20.46	20.69	20.58	20.57	20.45	20.36	
16	21.02	20.57	20.48	20.40	20.47	20.44	20.45	20.62	20.56	20.56	20.45	20.35	
17	20.67	20.57	20.45	20.42	20.40	20.44	20.44	20.67	20.58	20.49	20.45	20.35	
18	20.60	20.68	20.43	20.40	20.38	20.42	20.43	21.02	20.58	20.55	20.44	20.34	
19	20.56	20.65	20.43	20.39	20.39	20.43	20.43	21.28	20.58	20.54	20.44	20.33	
20	20.55	20.54	20.43	20.38	20.40	20.45	20.42	21.79	20.69	20.54	20.44	20.32	
21	20.53	20.55	20.42	20.38	20.39	20.42	20.46	22.88	20.59	20.54	20.43	20.31	
22	20.53	20.53	20.42	20.41	20.38	20.42	20.44	22.33	20.56	20.64	20.43	20.31	
23	20.51	20.49	20.42	20.42	20.40	20.41	20.42	21.32	20.55	20.55	20.43	20.30	
24	20.54	20.48	20.42	20.43	20.56	20.40	20.43	21.06	20.54	20.58	20.43	20.30	
25	20.50	20.47	20.41	20.41	20.61	20.66	20.41	20.92	20.54	20.54	20.44	20.30	
26	20.50	20.59	20.41	20.39	20.45	20.61	20.44	20.84	20.52	20.52	20.46	20.30	
27	20.48	20.51	20.41	20.38	20.42	20.50	20.54	20.91	20.52	20.53	20.44	20.29	
28	20.47	20.59	20.40	20.38	20.41	20.47	20.83	20.78	20.51	20.51	20.43	20.33	
29	20.46	20.55	20.40	20.38	20.72	20.45	21.18	20.73	20.50	20.51		20.36	
30	20.46	20.53	20.40	20.37	20.60	20.54	20.66	20.69	20.50	20.50		20.40	
31		20.51		20.37	20.52		20.57		20.49	20.50		20.40	
Mean	20.66	20.53	20.44	20.41	20.44	20.47	20.51	21.17	20.70	20.68	20.46	20.36	
Max	21.24	20.68	20.50	20.59	20.72	20.66	21.18	22.88	21.69	22.05	20.63	20.41	22.88
Min	20.42	20.45	20.40	20.37	20.36	20.40	20.41	20.52	20.49	20.49	20.43	20.29	20.29
Annual Max Momentary Gage Height	23.78		m. (MSL.) ,				at 22.00 Hours , on Nov 21 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	18.77	m. (MSL)					
Left Bank Elevation	28.85		m. (MSL.) ,										
Right Bank Elevation	29.06		m. (MSL.) ,			Drainage Area	258	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	4.25	6.00	2.25	1.50	6.00	7.75	6.70	21.00	5.65	5.65	2.85		
2	9.50	4.60	5.30	2.25	1.50	5.30	4.95	7.40	69.80	5.65	5.65	2.85		
3	19.50	11.75	5.30	2.25	1.75	4.25	4.25	6.70	46.10	19.50	5.30	2.50		
4	16.25	8.45	4.95	2.00	1.50	3.55	4.25	56.90	38.95	16.25	5.30	2.50		
5	13.10	5.30	5.65	2.50	2.00	3.55	3.55	90.10	25.00	13.55	10.85	2.50		
6	8.80	4.60	5.30	2.25	4.25	9.50	5.30	116.85	20.00	10.85	6.00	2.50		
7	10.40	6.35	4.95	2.00	4.60	4.95	6.70	119.40	18.50	95.50	5.65	2.25		
8	12.65	5.30	4.60	2.00	6.00	3.90	5.30	76.80	16.70	50.90	5.30	2.00		
9	35.65	6.00	4.25	2.25	3.90	3.55	5.65	38.95	14.00	31.25	4.95	1.75		
10	41.90	5.30	4.25	2.25	3.90	3.90	4.95	25.50	12.20	21.50	4.95	1.75		
11	34.00	4.60	3.90	2.25	2.50	4.60	10.85	19.00	11.30	15.35	4.95	1.75		
12	16.70	7.40	3.90	9.15	2.25	3.55	6.35	16.25	10.40	11.75	4.60	1.75		
13	12.20	4.95	3.55	8.45	2.00	4.60	5.30	14.00	9.50	9.95	4.60	1.50		
14	9.95	5.30	3.55	3.90	1.75	4.95	4.95	12.20	8.80	9.50	4.25	1.50		
15	12.65	5.30	3.55	2.85	3.20	4.60	4.60	13.55	8.80	8.45	4.25	1.50		
16	29.60	8.45	5.30	2.50	4.95	3.90	4.25	10.40	8.10	8.10	4.25	1.25		
17	12.65	8.45	4.25	3.20	2.50	3.90	3.90	12.65	8.80	5.65	4.25	1.25		
18	9.50	13.10	3.55	2.50	2.00	3.20	3.55	29.60	8.80	7.75	3.90	1.00		
19	8.10	11.75	3.55	2.25	2.25	3.55	3.55	44.30	8.80	7.40	3.90	0.75		
20	7.75	7.40	3.55	2.00	2.50	4.25	3.20	76.80	13.55	7.40	3.90	0.50		
21	7.05	7.75	3.20	2.00	2.25	3.20	4.60	175.30	9.15	7.40	3.55	0.25		
22	7.05	7.05	3.20	2.85	2.00	3.20	3.90	118.55	8.10	11.30	3.55	0.25		
23	6.35	5.65	3.20	3.20	2.50	2.85	3.20	46.70	7.75	7.75	3.55	0.00		
24	7.40	5.30	3.20	3.55	8.10	2.50	3.55	31.80	7.40	8.80	3.55	0.00		
25	6.00	4.95	2.85	2.85	9.95	12.20	2.85	24.50	7.40	7.40	3.90	0.00		
26	6.00	9.15	2.85	2.25	4.25	9.95	3.90	20.50	6.70	6.70	4.60	0.00		
27	5.30	6.35	2.85	2.00	3.20	6.00	7.40	24.00	6.70	7.05	3.90	0.00		
28	4.95	9.15	2.50	2.00	2.85	4.95	20.00	17.60	6.35	6.35	3.55	0.75		
29	4.60	7.75	2.50	2.00	14.90	4.25	38.40	15.35	6.00	6.35		1.50		
30	4.60	7.05	2.50	1.75	9.50	7.40	12.20	13.55	6.00	6.00		2.50		
31		6.35		1.75	6.70		8.45		5.65	6.00		2.50		
Total	383.35	215.10	118.05	87.25	123.00	146.05	211.60	1281.90	456.30	443.00	132.60	43.95	3642.15	CMSDAY
Mean	12.78	6.94	3.94	2.81	3.97	4.87	6.83	42.73	14.72	14.29	4.74	1.42	9.98	CMS
Max	41.90	13.10	6.00	9.15	14.90	12.20	38.40	175.30	69.80	95.50	10.85	2.85	175.30	CMS
Min	3.20	4.25	2.50	1.75	1.50	2.50	2.85	6.70	5.65	5.65	3.55	0.00	0.00	CMS
Runoff	33.12	18.59	10.20	7.54	10.63	12.62	18.28	110.76	39.42	38.28	11.46	3.80	314.68	MCM
Momentary Peak	296.39 CMS. at 23.78 m. (MSL.) at 22.00 Hours , on Nov 21 , 2009													
Runoff Yield	38.68 Liters/Second/Square KM.			Momentary Peak Yield				1148.798 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Muang Kong , Songkhla (X.173A)

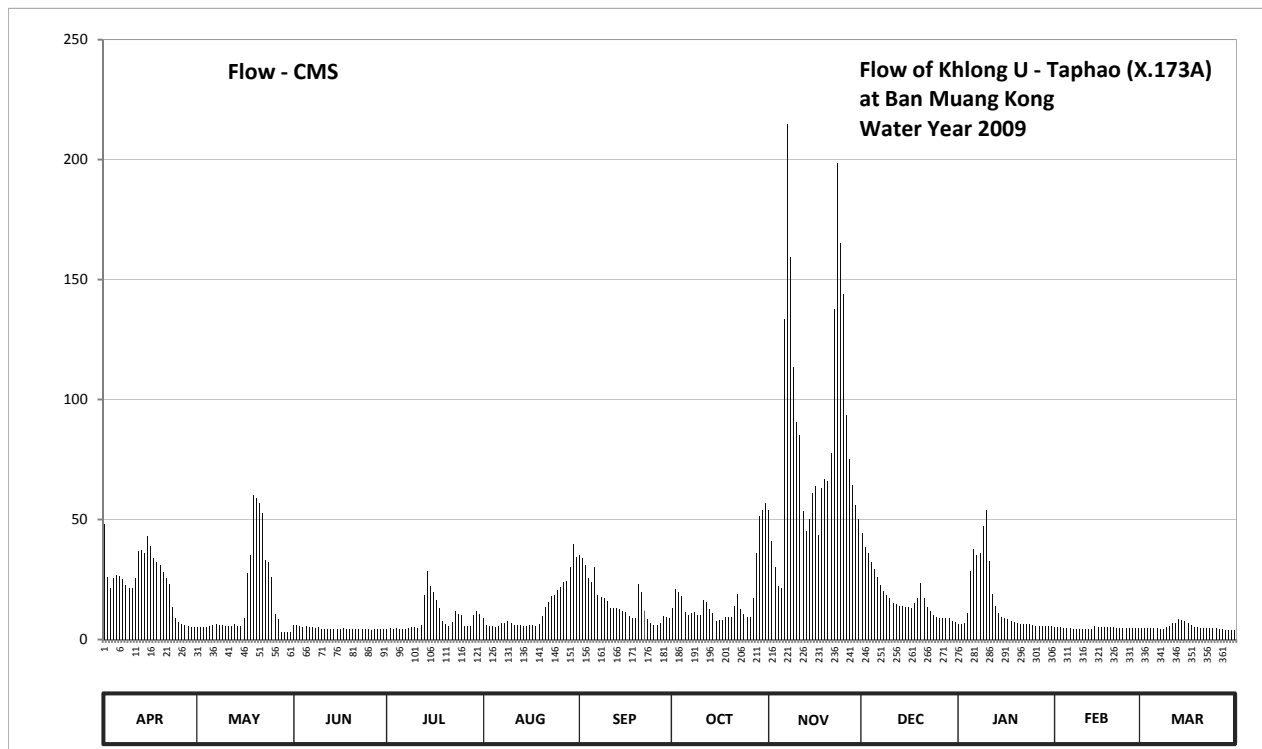
Lat 06 - 49 - 26 N Long 100 - 26 - 17 E

Location : on right bank at the bridge on Hat Yai - Sadao Highway.

	Ban Muang Kong	Amphoe Sadao	Changwat Songkhla
Drainage Area	1,063 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 1.13 meters from the top staff gage.	Elevation	+16.125 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 means of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.48	10.40	10.60	10.30	10.89	12.90	11.30	13.70	13.33	10.65	10.45	10.36	
2	12.33	10.42	10.60	10.35	10.60	12.85	11.97	13.20	13.08	10.65	10.45	10.36	
3	12.00	10.43	10.50	10.30	10.50	12.66	11.86	12.60	12.96	10.70	10.44	10.36	
4	12.32	10.45	10.45	10.35	10.50	12.30	11.73	12.06	12.76	11.10	10.38	10.35	
5	12.40	10.52	10.50	10.30	10.40	12.20	11.15	11.99	12.56	12.50	10.34	10.35	
6	12.35	10.61	10.45	10.25	10.49	12.61	11.00	15.44	12.34	13.04	10.32	10.33	
7	12.28	10.63	10.40	10.30	10.70	11.75	11.09	16.57	12.11	12.90	10.31	10.31	
8	12.10	10.60	10.35	10.35	10.70	11.70	11.16	15.82	11.91	12.95	10.30	10.30	
9	12.00	10.57	10.40	10.40	10.75	11.67	11.00	15.10	11.78	13.45	10.28	10.40	
10	12.00	10.56	10.30	10.40	10.68	11.55	11.04	14.65	11.66	13.70	10.26	10.50	
11	12.30	10.55	10.29	10.37	10.60	11.30	11.60	14.54	11.50	12.78	10.26	10.70	
12	12.99	10.56	10.29	10.58	10.60	11.30	11.54	13.69	11.45	11.80	10.25	10.70	
13	13.02	10.65	10.28	11.78	10.58	11.30	11.28	13.37	11.40	11.40	10.25	10.85	
14	12.95	10.54	10.27	12.50	10.53	11.27	11.12	13.57	11.40	11.11	10.52	10.80	
15	13.28	10.50	10.28	12.05	10.50	11.20	10.78	13.92	11.35	10.95	10.46	10.75	
16	13.10	10.91	10.29	11.85	10.60	11.16	10.80	14.00	11.35	10.90	10.42	10.70	
17	12.85	12.44	10.32	11.60	10.60	10.98	10.80	13.30	11.30	10.85	10.41	10.60	
18	12.76	12.91	10.30	11.31	10.55	10.90	10.95	13.97	11.50	10.78	10.41	10.48	
19	12.68	13.89	10.29	10.78	10.65	10.90	10.95	14.08	11.65	10.72	10.40	10.40	
20	12.46	13.86	10.29	10.65	10.96	12.13	10.93	14.06	12.16	10.69	10.40	10.35	
21	12.30	13.80	10.28	10.55	11.34	11.86	11.41	14.37	11.65	10.65	10.39	10.35	
22	12.13	13.66	10.28	10.73	11.54	11.20	11.79	15.50	11.36	10.65	10.38	10.35	
23	11.35	12.80	10.27	11.17	11.73	10.86	11.26	16.37	11.20	10.65	10.37	10.35	
24	10.90	12.74	10.27	11.05	11.75	10.68	11.05	15.90	11.02	10.64	10.37	10.35	
25	10.74	12.33	10.25	11.00	11.93	10.60	10.95	15.60	10.92	10.59	10.36	10.33	
26	10.64	11.06	10.20	10.50	12.04	10.60	10.93	14.71	10.90	10.55	10.36	10.29	
27	10.59	10.86	10.30	10.50	12.20	10.67	11.66	14.30	10.90	10.55	10.35	10.25	
28	10.50	10.04	10.25	10.56	12.22	10.96	12.96	14.01	10.90	10.54	10.35	10.20	
29	10.46	10.03	10.25	11.04	12.60	10.95	13.61	13.77	10.90	10.50		10.18	
30	10.46	10.02	10.25	11.20	13.14	10.90	13.70	13.56	10.78	10.50		10.18	
31		10.01		11.06	12.86		13.80		10.74	10.50		10.17	
Mean	12.06	11.27	10.34	10.84	11.15	11.46	11.52	14.26	11.64	11.29	10.37	10.42	
Max	13.48	13.89	10.60	12.50	13.14	12.90	13.80	16.57	13.33	13.70	10.52	10.85	16.57
Min	10.46	10.01	10.20	10.25	10.40	10.60	10.78	11.99	10.74	10.50	10.25	10.17	10.01
Annual Max Momentary Gage Height	16.70		m. (MSL.) ,				at 18.00 Hours , on Nov 7 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	9.28		m. (MSL)				
Left Bank Elevation	17.27		m. (MSL.) ,										
Right Bank Elevation	17.31		m. (MSL.) ,			Drainage Area	1063		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.00	5.00	6.00	4.50	8.90	35.00	13.00	54.00	44.25	6.50	5.25	4.80	
2	25.95	5.10	6.00	4.75	6.00	34.00	21.13	41.00	38.60	6.50	5.25	4.80	
3	21.50	5.15	5.50	4.50	5.50	30.90	19.75	30.00	36.20	7.00	5.20	4.80	
4	25.80	5.25	5.25	4.75	5.50	25.50	18.12	22.25	32.40	11.00	4.90	4.75	
5	27.00	5.60	5.50	4.50	5.00	24.00	11.50	21.37	29.40	28.50	4.70	4.75	
6	26.25	6.10	5.25	4.25	5.45	30.15	10.00	133.60	26.10	37.80	4.60	4.65	
7	25.20	6.30	5.00	4.50	7.00	18.38	10.90	214.60	22.87	35.00	4.55	4.55	
8	22.75	6.00	4.75	4.75	7.00	17.75	11.60	159.40	20.38	36.00	4.50	4.50	
9	21.50	5.85	5.00	5.00	7.50	17.38	10.00	113.50	18.75	47.25	4.40	5.00	
10	21.50	5.80	4.50	5.00	6.80	15.88	10.40	90.50	17.25	54.00	4.30	5.50	
11	25.50	5.75	4.45	4.85	6.00	13.00	16.50	85.30	15.25	32.70	4.30	7.00	
12	36.80	5.80	4.45	5.90	6.00	13.00	15.75	53.70	14.63	19.00	4.25	7.00	
13	37.40	6.50	4.40	18.75	5.90	13.00	12.80	45.25	14.00	14.00	4.25	8.50	
14	36.00	5.70	4.35	28.50	5.65	12.70	11.20	50.25	14.00	11.10	5.60	8.00	
15	43.00	5.50	4.40	22.13	5.50	12.00	7.80	61.20	13.50	9.50	5.30	7.50	
16	39.00	9.10	4.45	19.63	6.00	11.60	8.00	64.00	13.50	9.00	5.10	7.00	
17	34.00	27.60	4.60	16.50	6.00	9.80	8.00	43.50	13.00	8.50	5.05	6.00	
18	32.40	35.20	4.50	13.10	5.75	9.00	9.50	62.95	15.25	7.80	5.05	5.40	
19	31.20	60.15	4.45	7.80	6.50	9.00	9.50	66.80	17.12	7.20	5.00	5.00	
20	27.90	59.10	4.45	6.50	9.60	23.13	9.30	66.10	23.50	6.90	5.00	4.75	
21	25.50	57.00	4.40	5.75	13.40	19.75	14.13	77.80	17.12	6.50	4.95	4.75	
22	23.13	52.80	4.40	7.30	15.75	12.00	18.88	137.50	13.60	6.50	4.90	4.75	
23	13.50	33.00	4.35	11.70	18.12	8.60	12.60	198.75	12.00	6.50	4.85	4.75	
24	9.00	32.10	4.35	10.50	18.38	6.80	10.50	165.00	10.20	6.40	4.85	4.75	
25	7.40	25.95	4.25	10.00	20.63	6.00	9.50	144.00	9.20	5.95	4.80	4.65	
26	6.40	10.60	4.00	5.50	22.00	6.00	9.30	93.50	9.00	5.75	4.80	4.45	
27	5.95	8.60	4.50	5.50	24.00	6.70	17.25	75.00	9.00	5.75	4.75	4.25	
28	5.50	3.20	4.25	5.80	24.30	9.60	36.20	64.35	9.00	5.70	4.75	4.00	
29	5.30	3.15	4.25	10.40	30.00	9.50	51.30	56.10	9.00	5.50		3.90	
30	5.30	3.10	4.25	12.00	39.80	9.00	54.00	50.00	7.80	5.50		3.90	
31		3.05		10.60	34.20		57.00		7.40	5.50		3.85	
Total	715.63	509.10	140.25	285.21	388.13	469.12	535.41	2541.27	553.27	460.80	135.20	162.25	6895.64 CMSDAY
Mean	23.85	16.42	4.68	9.20	12.52	15.64	17.27	84.71	17.85	14.86	4.83	5.23	18.89 CMS
Max	48.00	60.15	6.00	28.50	39.80	35.00	57.00	214.60	44.25	54.00	5.60	8.50	214.60 CMS
Min	5.30	3.05	4.00	4.25	5.00	6.00	7.80	21.37	7.40	5.50	4.25	3.85	3.05 CMS
Runoff	61.83	43.99	12.12	24.64	33.53	40.53	46.26	219.57	47.80	39.81	11.68	14.02	595.78 MCM
Momentary Peak	226.00 CMS. at 16.70 m. (MSL) at 18.00 Hours , on Nov 7 , 2009												
Runoff Yield	17.77 Liters/Second/Square KM.			Momentary Peak Yield			212.606 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Wa at Ban Khlong Wa , Songkhla (X.174)

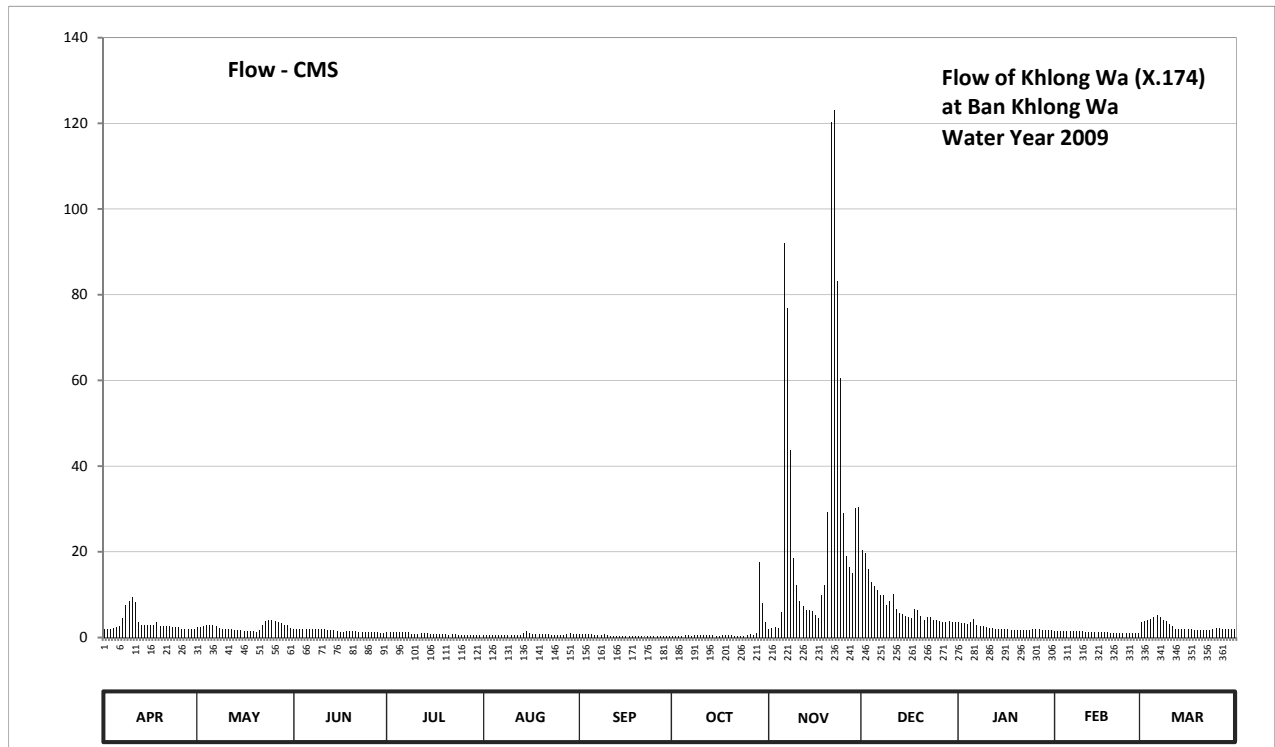
Lat 06 - 59 - 42 N Long 100 - 29 - 05 E

Location : on right bank at the bridge.

	Ban Khlong Wa	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	116 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+10.954 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1989 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.80	4.84	4.80	4.65	4.47	4.53	4.41	4.80	5.88	4.95	4.72	4.95	
2	4.80	4.85	4.80	4.65	4.46	4.52	4.40	4.82	5.85	4.93	4.72	4.98	
3	4.80	4.86	4.79	4.65	4.44	4.51	4.39	4.84	5.67	4.94	4.71	5.00	
4	4.82	4.88	4.78	4.65	4.45	4.52	4.40	4.82	5.52	4.92	4.71	5.02	
5	4.84	4.90	4.78	4.65	4.45	4.50	4.44	5.13	5.47	4.95	4.70	5.05	
6	4.86	4.90	4.78	4.65	4.45	4.49	4.45	7.94	5.43	5.02	4.69	5.09	
7	5.03	4.86	4.77	4.65	4.45	4.46	4.41	7.63	5.36	4.89	4.69	5.05	
8	5.24	4.83	4.77	4.65	4.45	4.47	4.45	6.74	5.37	4.87	4.68	5.00	
9	5.29	4.81	4.77	4.54	4.45	4.50	4.45	5.80	5.24	4.86	4.68	4.98	
10	5.34	4.80	4.80	4.51	4.45	4.42	4.45	5.49	5.28	4.84	4.68	4.91	
11	5.27	4.80	4.77	4.53	4.45	4.41	4.44	5.28	5.38	4.83	4.67	4.86	
12	4.96	4.79	4.75	4.59	4.45	4.41	4.46	5.22	5.17	4.82	4.66	4.81	
13	4.90	4.76	4.74	4.61	4.45	4.40	4.45	5.16	5.12	4.80	4.66	4.81	
14	4.90	4.75	4.73	4.59	4.61	4.39	4.43	5.16	5.10	4.79	4.66	4.79	
15	4.90	4.73	4.71	4.56	4.71	4.39	4.39	5.15	5.07	4.79	4.65	4.79	
16	4.89	4.72	4.67	4.55	4.57	4.39	4.41	5.09	5.06	4.78	4.65	4.78	
17	4.90	4.69	4.66	4.54	4.54	4.40	4.42	5.03	5.03	4.77	4.64	4.77	
18	4.95	4.68	4.69	4.53	4.54	4.40	4.42	5.36	5.17	4.76	4.64	4.76	
19	4.87	4.68	4.69	4.53	4.53	4.40	4.42	5.49	5.16	4.76	4.63	4.76	
20	4.86	4.65	4.68	4.52	4.51	4.39	4.43	6.23	5.07	4.75	4.62	4.75	
21	4.86	4.75	4.68	4.48	4.50	4.38	4.41	8.41	5.01	4.75	4.62	4.75	
22	4.86	4.89	4.67	4.50	4.50	4.38	4.39	8.45	5.06	4.75	4.61	4.75	
23	4.85	4.98	4.67	4.50	4.49	4.39	4.39	7.76	5.06	4.74	4.60	4.75	
24	4.85	5.00	4.66	4.49	4.49	4.41	4.39	7.24	5.01	4.75	4.59	4.78	
25	4.84	5.01	4.66	4.49	4.49	4.40	4.44	6.22	5.00	4.79	4.60	4.82	
26	4.81	4.99	4.65	4.49	4.48	4.40	4.51	5.82	4.99	4.77	4.60	4.82	
27	4.81	4.96	4.65	4.48	4.49	4.41	4.45	5.70	4.97	4.77	4.60	4.80	
28	4.81	4.93	4.64	4.49	4.53	4.40	4.60	5.63	4.97	4.75	4.59	4.80	
29	4.81	4.90	4.63	4.48	4.59	4.39	5.76	6.26	4.99	4.75		4.80	
30	4.81	4.88	4.63	4.48	4.52	4.39	5.26	6.27	4.97	4.74		4.80	
31		4.83		4.47	4.54		4.97		4.95	4.73		4.80	
Mean	4.92	4.84	4.72	4.55	4.50	4.43	4.52	5.96	5.21	4.82	4.65	4.86	
Max	5.34	5.01	4.80	4.65	4.71	4.53	5.76	8.45	5.88	5.02	4.72	5.09	8.45
Min	4.80	4.65	4.63	4.47	4.44	4.38	4.39	4.80	4.95	4.73	4.59	4.75	4.38
Annual Max Momentary Gage Height	9.72		m. (MSL.) ,				at 01.00 Hours , on Nov 22 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	3.38	m. (MSL)					
Left Bank Elevation	11.40		m. (MSL.) ,										
Right Bank Elevation	11.32		m. (MSL.) ,			Drainage Area	116	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	2.40	2.00	1.25	0.61	0.79	0.43	2.00	20.50	3.50	1.60	3.50	
2	2.00	2.50	2.00	1.25	0.58	0.76	0.40	2.20	19.75	3.30	1.60	3.80	
3	2.00	2.60	1.95	1.25	0.52	0.73	0.38	2.40	15.90	3.40	1.55	4.00	
4	2.20	2.80	1.90	1.25	0.55	0.76	0.40	2.20	12.90	3.20	1.55	4.30	
5	2.40	3.00	1.90	1.25	0.55	0.70	0.52	5.95	11.90	3.50	1.50	4.75	
6	2.60	3.00	1.90	1.25	0.55	0.67	0.55	92.00	11.10	4.30	1.45	5.35	
7	4.45	2.60	1.85	1.25	0.55	0.58	0.43	76.93	9.80	2.90	1.45	4.75	
8	7.70	2.30	1.85	1.25	0.55	0.61	0.55	43.70	9.97	2.70	1.40	4.00	
9	8.58	2.10	1.85	0.82	0.55	0.70	0.55	18.50	7.70	2.60	1.40	3.80	
10	9.45	2.00	2.00	0.73	0.55	0.46	0.55	12.30	8.40	2.40	1.40	3.10	
11	8.23	2.00	1.85	0.79	0.55	0.43	0.52	8.40	10.15	2.30	1.35	2.60	
12	3.60	1.95	1.75	0.97	0.55	0.43	0.58	7.35	6.55	2.20	1.30	2.10	
13	3.00	1.80	1.70	1.05	0.55	0.40	0.55	6.40	5.80	2.00	1.30	2.10	
14	3.00	1.75	1.65	0.97	1.05	0.38	0.49	6.40	5.50	1.95	1.30	1.95	
15	3.00	1.65	1.55	0.88	1.55	0.38	0.38	6.25	5.05	1.95	1.25	1.95	
16	2.90	1.60	1.35	0.85	0.91	0.38	0.43	5.35	4.90	1.90	1.25	1.90	
17	3.00	1.45	1.30	0.82	0.82	0.40	0.46	4.45	4.45	1.85	1.20	1.85	
18	3.50	1.40	1.45	0.79	0.82	0.40	0.46	9.80	6.55	1.80	1.20	1.80	
19	2.70	1.40	1.45	0.79	0.79	0.40	0.46	12.30	6.40	1.80	1.15	1.80	
20	2.60	1.25	1.40	0.76	0.73	0.38	0.49	29.33	5.05	1.75	1.10	1.75	
21	2.60	1.75	1.40	0.64	0.70	0.36	0.43	120.23	4.15	1.75	1.10	1.75	
22	2.60	2.90	1.35	0.70	0.70	0.36	0.38	123.12	4.90	1.75	1.05	1.75	
23	2.50	3.80	1.35	0.70	0.67	0.38	0.38	83.10	4.90	1.70	1.00	1.75	
24	2.50	4.00	1.30	0.67	0.67	0.43	0.38	60.60	4.15	1.75	0.97	1.90	
25	2.40	4.15	1.30	0.67	0.67	0.40	0.52	29.05	4.00	1.95	1.00	2.20	
26	2.10	3.90	1.25	0.67	0.64	0.40	0.73	19.00	3.90	1.85	1.00	2.20	
27	2.10	3.60	1.25	0.64	0.67	0.43	0.55	16.50	3.70	1.85	1.00	2.00	
28	2.10	3.30	1.20	0.67	0.79	0.40	1.00	15.10	3.70	1.75	0.97	2.00	
29	2.10	3.00	1.15	0.64	0.97	0.38	17.70	30.15	3.90	1.75		2.00	
30	2.10	2.80	1.15	0.64	0.76	0.38	8.05	30.43	3.70	1.70		2.00	
31		2.30		0.61	0.82		3.70		3.50	1.65		2.00	
Total	102.01	77.05	47.35	27.47	21.94	14.66	43.40	881.49	232.82	70.75	35.39	82.70	1637.03 CMSDAY
Mean	3.40	2.49	1.58	0.89	0.71	0.49	1.40	29.38	7.51	2.28	1.26	2.67	4.49 CMS
Max	9.45	4.15	2.00	1.25	1.55	0.79	17.70	123.12	20.50	4.30	1.60	5.35	123.12 CMS
Min	2.00	1.25	1.15	0.61	0.52	0.36	0.38	2.00	3.50	1.65	0.97	1.75	0.36 CMS
Runoff	8.81	6.66	4.09	2.37	1.90	1.27	3.75	76.16	20.12	6.11	3.06	7.15	141.44 MCM
Momentary Peak	271.00 CMS. at 9.72 m. (MSL.) at 01.00 Hours , on Nov 22 , 2009												
Runoff Yield	38.66 Liters/Second/Square KM.			Momentary Peak Yield			2336.207 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)

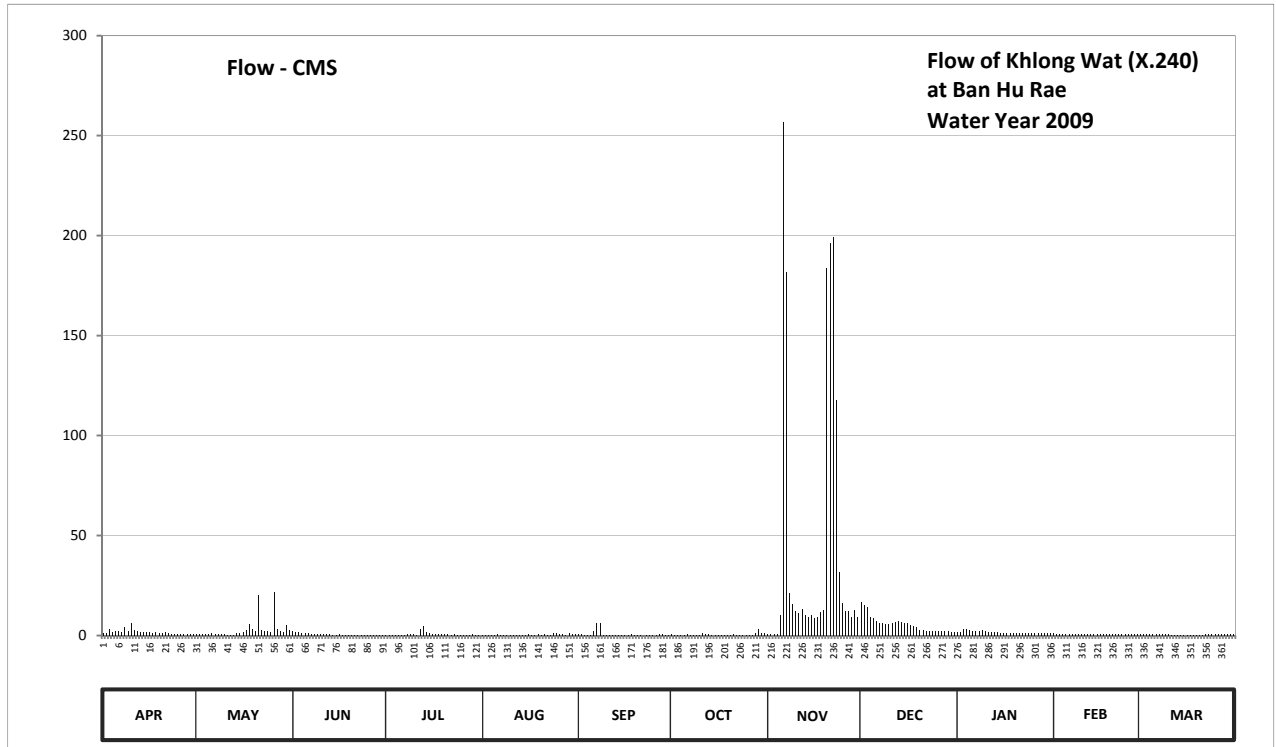
Lat 06 - 59 - 03 N Long 100 - 19 - 44 E

Location : on right bank at the bridge.

	Ban Hu Rae	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	127	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the top staff gage.		Elevation +25.224 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 means of 5 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.00	17.92	18.19	17.84	17.85	17.94	17.93	17.95	20.15	18.16	18.00	17.92	
2	18.01	17.91	18.11	17.83	17.84	17.91	17.87	17.94	20.03	18.15	17.99	17.92	
3	18.41	17.92	18.10	17.83	17.83	17.88	17.85	17.92	19.95	18.49	17.99	17.92	
4	18.15	17.92	18.07	17.82	17.83	17.88	17.87	17.92	19.37	18.46	17.98	17.91	
5	18.25	17.94	18.02	17.84	17.86	17.86	17.84	19.48	19.33	18.32	17.98	17.91	
6	18.19	18.01	18.00	17.83	17.93	18.22	17.90	23.95	19.07	18.27	17.97	17.91	
7	18.14	17.95	17.98	17.82	17.85	18.97	17.86	23.26	18.99	18.23	17.97	17.90	
8	18.59	17.93	17.96	17.97	17.86	18.93	17.84	20.48	18.95	18.19	17.97	17.90	
9	18.23	17.91	17.94	17.92	17.87	17.89	17.86	20.06	18.91	18.35	17.97	17.90	
10	18.96	17.91	17.93	17.97	17.86	17.88	17.84	19.77	18.88	18.19	17.97	17.90	
11	18.38	17.89	17.92	17.87	17.83	17.87	18.00	19.62	19.00	18.17	17.97	17.89	
12	18.22	17.88	17.91	18.41	17.83	17.85	17.96	19.83	19.06	18.14	17.97	17.89	
13	18.14	17.88	17.90	18.71	17.83	17.88	17.93	19.49	19.09	18.13	17.96	17.89	
14	18.10	18.01	17.89	18.10	17.83	17.85	17.88	19.39	19.05	18.10	17.96	17.88	
15	18.10	18.00	17.89	18.00	17.84	17.87	17.88	19.49	19.00	18.09	17.96	17.88	
16	18.12	18.17	17.93	17.96	17.90	17.84	17.87	19.30	18.93	18.04	17.96	17.88	
17	18.07	18.39	17.89	17.97	17.84	17.84	17.88	19.34	18.77	18.02	17.96	17.87	
18	18.10	18.87	17.88	17.94	17.84	17.95	17.84	19.70	18.69	18.06	17.95	17.87	
19	18.03	18.49	17.87	17.91	17.93	17.86	17.85	19.81	18.59	18.05	17.95	17.87	
20	18.04	18.23	17.87	17.90	17.85	17.85	17.84	23.28	18.39	18.05	17.95	17.87	
21	18.11	20.43	17.86	17.90	17.91	17.83	17.92	23.41	18.34	18.05	17.95	17.88	
22	18.00	18.39	17.85	17.88	17.84	17.82	17.84	23.44	18.30	18.04	17.95	17.91	
23	17.99	18.21	17.84	17.94	17.83	17.82	17.83	22.52	18.27	18.04	17.94	17.94	
24	17.98	18.19	17.84	17.89	18.04	17.81	17.83	21.05	18.25	18.04	17.94	17.91	
25	17.97	18.10	17.84	17.87	18.09	17.85	17.82	20.09	18.24	18.03	17.94	17.91	
26	17.99	20.53	17.84	17.87	17.93	17.89	17.89	19.73	18.23	18.03	17.93	17.91	
27	17.95	18.42	17.84	17.86	17.93	17.98	17.85	19.76	18.21	18.03	17.93	17.91	
28	17.96	18.21	17.86	17.87	17.88	17.91	18.04	19.37	18.20	18.02	17.93	17.91	
29	17.93	18.14	17.85	17.94	18.09	17.84	18.47	19.81	18.19	18.02		17.91	
30	17.90	18.83	17.84	17.88	17.97	17.87	18.05	19.36	18.18	18.02		17.91	
31		18.39		17.86	17.94		18.00		18.17	18.02		17.91	
Mean	18.13	18.29	17.92	17.94	17.89	17.95	17.91	20.22	18.80	18.13	17.96	17.90	
Max	18.96	20.53	18.19	18.71	18.09	18.97	18.47	23.95	20.15	18.49	18.00	17.94	23.95
Min	17.90	17.88	17.84	17.82	17.83	17.81	17.82	17.92	18.17	18.02	17.93	17.87	17.81
Annual Max Momentary Gage Height	24.03		m. (MSL.) ,					at 09.00 Hours , on Nov 6 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed	20.13		m. (MSL)			
Left Bank Elevation	25.08		m. (MSL.) ,										
Right Bank Elevation	25.06		m. (MSL.) ,				Drainage Area	127		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	0.60	1.95	0.20	0.25	0.70	0.65	0.75	16.72	1.80	1.00	0.60	
2	1.05	0.55	1.55	0.15	0.20	0.55	0.35	0.70	15.35	1.75	0.95	0.60	
3	3.05	0.60	1.50	0.15	0.15	0.40	0.25	0.60	14.43	3.45	0.95	0.60	
4	1.75	0.60	1.35	0.10	0.15	0.40	0.35	0.60	9.28	3.30	0.90	0.55	
5	2.25	0.70	1.10	0.20	0.30	0.30	0.20	10.10	8.97	2.60	0.90	0.55	
6	1.95	1.05	1.00	0.15	0.65	2.10	0.50	256.75	7.02	2.35	0.85	0.55	
7	1.70	0.75	0.90	0.10	0.25	6.30	0.30	181.70	6.43	2.15	0.85	0.50	
8	3.95	0.65	0.80	0.85	0.30	6.05	0.20	21.20	6.18	1.95	0.85	0.50	
9	2.15	0.55	0.70	0.60	0.35	0.45	0.30	15.69	5.92	2.75	0.85	0.50	
10	6.24	0.55	0.65	0.85	0.30	0.40	0.20	12.45	5.72	1.95	0.85	0.50	
11	2.90	0.45	0.60	0.35	0.15	0.35	1.00	11.17	6.50	1.85	0.85	0.45	
12	2.10	0.40	0.55	3.05	0.15	0.25	0.80	13.05	6.95	1.70	0.85	0.45	
13	1.70	0.40	0.50	4.66	0.15	0.40	0.65	10.17	7.18	1.65	0.80	0.45	
14	1.50	1.05	0.45	1.50	0.15	0.25	0.40	9.42	6.87	1.50	0.80	0.40	
15	1.50	1.00	0.45	1.00	0.20	0.35	0.40	10.17	6.50	1.45	0.80	0.40	
16	1.60	1.85	0.65	0.80	0.50	0.20	0.35	8.75	6.05	1.20	0.80	0.40	
17	1.35	2.95	0.45	0.85	0.20	0.20	0.40	9.05	5.02	1.10	0.80	0.35	
18	1.50	5.66	0.40	0.70	0.20	0.75	0.20	11.85	4.54	1.30	0.75	0.35	
19	1.15	3.45	0.35	0.55	0.65	0.30	0.25	12.82	3.95	1.25	0.75	0.35	
20	1.20	2.15	0.35	0.50	0.25	0.25	0.20	183.60	2.95	1.25	0.75	0.35	
21	1.55	20.45	0.30	0.50	0.55	0.15	0.60	196.05	2.70	1.25	0.75	0.40	
22	1.00	2.95	0.25	0.40	0.20	0.10	0.20	199.20	2.50	1.20	0.75	0.55	
23	0.95	2.05	0.20	0.70	0.15	0.10	0.15	117.60	2.35	1.20	0.70	0.70	
24	0.90	1.95	0.20	0.45	1.20	0.05	0.15	31.50	2.25	1.20	0.70	0.55	
25	0.85	1.50	0.20	0.35	1.45	0.25	0.10	16.03	2.20	1.15	0.70	0.55	
26	0.95	21.95	0.20	0.35	0.65	0.45	0.45	12.10	2.15	1.15	0.65	0.55	
27	0.75	3.10	0.20	0.30	0.65	0.90	0.25	12.36	2.05	1.15	0.65	0.55	
28	0.80	2.05	0.30	0.35	0.40	0.55	1.20	9.28	2.00	1.10	0.65	0.55	
29	0.65	1.70	0.25	0.70	1.45	0.20	3.35	12.82	1.95	1.10		0.55	
30	0.50	5.40	0.20	0.40	0.85	0.35	1.25	9.20	1.90	1.10		0.55	
31		2.95		0.30	0.70		1.00		1.85	1.10		0.55	
Total	50.49	92.01	18.55	22.11	13.75	24.05	16.65	1396.73	176.43	51.00	22.45	15.45	1899.67 CMSDAY
Mean	1.68	2.97	0.62	0.71	0.44	0.80	0.54	46.56	5.69	1.65	0.80	0.50	5.20 CMS
Max	6.24	21.95	1.95	4.66	1.45	6.30	3.35	256.75	16.72	3.45	1.00	0.70	256.75 CMS
Min	0.50	0.40	0.20	0.10	0.15	0.05	0.10	0.60	1.85	1.10	0.65	0.35	0.05 CMS
Runoff	4.36	7.95	1.60	1.91	1.19	2.08	1.44	120.68	15.24	4.41	1.94	1.34	164.13 MCM
Momentary Peak	266.90 CMS. at 24.03 m. (MSL) at 09.00 Hours , on Nov 6 , 2009												
Runoff Yield	40.85 Liters/Second/Square KM.			Momentary Peak Yield				294.648 Liters/Second/Square KM.					

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Pa Bon at Ban Lo Han , Phatthalung (X.266)

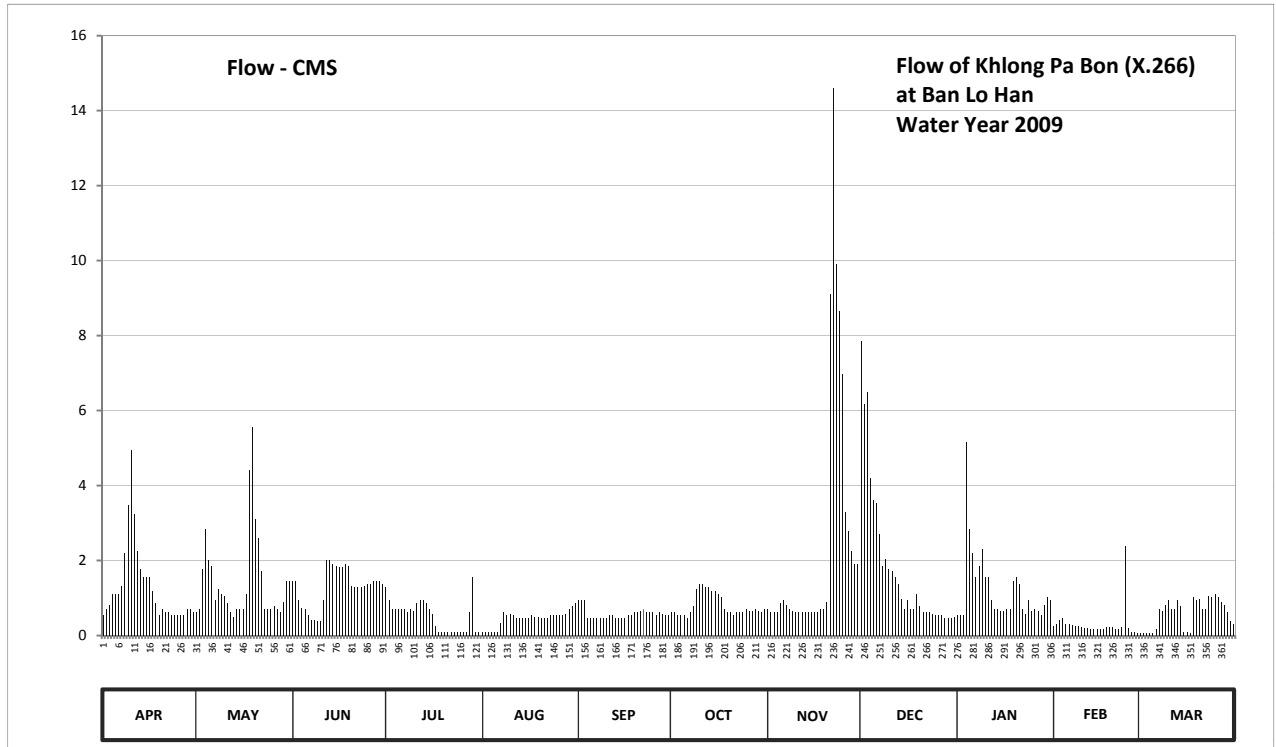
Lat 07 - 01 - 35 N Long 100 - 05 - 51 E

Location : on left bank at Ban Lo Han.

	Ban Lo Han	Amphoe Pa Bon	Changwat Phatthalung
Drainage Area	38	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		Elevation +7.165 m. (A.D.)
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 means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2009.		

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.28	0.48	0.44	0.10	0.36	0.28	0.30	1.46	0.26	0.18	0.08	
2	0.30	0.30	0.48	0.36	0.10	0.36	0.28	0.28	1.26	0.26	0.20	0.08	
3	0.33	0.55	0.36	0.30	0.10	0.36	0.26	0.28	1.30	0.26	0.23	0.08	
4	0.40	0.77	0.31	0.30	0.10	0.24	0.26	0.28	1.00	1.13	0.24	0.08	
5	0.40	0.60	0.30	0.30	0.10	0.24	0.26	0.34	0.90	0.77	0.20	0.08	
6	0.40	0.57	0.26	0.30	0.10	0.24	0.24	0.36	0.89	0.64	0.20	0.13	
7	0.45	0.36	0.23	0.30	0.21	0.24	0.28	0.33	0.74	0.50	0.19	0.30	
8	0.64	0.43	0.23	0.28	0.28	0.24	0.32	0.30	0.57	0.57	0.18	0.29	
9	0.88	0.40	0.22	0.30	0.26	0.24	0.43	0.29	0.61	0.66	0.18	0.33	
10	1.10	0.39	0.22	0.29	0.27	0.24	0.46	0.28	0.55	0.50	0.17	0.36	
11	0.84	0.34	0.36	0.34	0.26	0.26	0.46	0.28	0.54	0.50	0.15	0.30	
12	0.65	0.28	0.60	0.36	0.24	0.26	0.44	0.28	0.50	0.36	0.15	0.30	
13	0.55	0.25	0.60	0.36	0.24	0.24	0.44	0.28	0.46	0.30	0.14	0.36	
14	0.50	0.30	0.58	0.34	0.24	0.24	0.42	0.28	0.37	0.30	0.14	0.32	
15	0.50	0.30	0.57	0.30	0.24	0.24	0.42	0.28	0.30	0.29	0.14	0.10	
16	0.50	0.30	0.56	0.27	0.24	0.24	0.40	0.28	0.36	0.29	0.14	0.10	
17	0.42	0.40	0.56	0.18	0.26	0.26	0.38	0.28	0.30	0.30	0.14	0.08	
18	0.34	1.03	0.58	0.10	0.25	0.26	0.30	0.30	0.30	0.30	0.16	0.38	
19	0.26	1.18	0.57	0.10	0.25	0.28	0.28	0.30	0.40	0.48	0.16	0.36	
20	0.30	0.82	0.45	0.10	0.24	0.28	0.28	0.35	0.32	0.50	0.16	0.37	
21	0.28	0.72	0.44	0.10	0.24	0.29	0.26	1.60	0.28	0.46	0.14	0.30	
22	0.28	0.54	0.44	0.10	0.24	0.30	0.28	2.18	0.28	0.30	0.14	0.30	
23	0.26	0.30	0.44	0.10	0.26	0.28	0.28	1.69	0.28	0.27	0.16	0.39	
24	0.26	0.30	0.45	0.10	0.26	0.28	0.28	1.55	0.27	0.36	0.68	0.38	
25	0.26	0.30	0.46	0.10	0.26	0.28	0.30	1.36	0.26	0.29	0.15	0.40	
26	0.26	0.32	0.46	0.10	0.26	0.26	0.29	0.85	0.26	0.30	0.09	0.38	
27	0.26	0.30	0.48	0.10	0.26	0.28	0.29	0.76	0.26	0.29	0.09	0.35	
28	0.30	0.28	0.48	0.28	0.27	0.27	0.30	0.65	0.24	0.26	0.08	0.33	
29	0.30	0.35	0.48	0.50	0.30	0.26	0.29	0.58	0.24	0.33		0.28	
30	0.28	0.48	0.46	0.10	0.32	0.26	0.28	0.58	0.24	0.38		0.22	
31		0.48		0.10	0.34		0.30		0.25	0.36		0.20	
Mean	0.43	0.46	0.44	0.24	0.23	0.27	0.32	0.59	0.52	0.41	0.18	0.26	
Max	1.10	1.18	0.60	0.50	0.34	0.36	0.46	2.18	1.46	1.13	0.68	0.40	2.18
Min	0.26	0.25	0.22	0.10	0.10	0.24	0.24	0.28	0.24	0.26	0.08	0.08	0.08
Annual Max Momentary Gage Height	2.20		m. (A.D.) ,					at 06.00 Hours , on Nov 22 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	0.02	m. (A.D.)					
Left Bank Elevation	7.11		m. (A.D.) ,										
Right Bank Elevation	7.10		m. (A.D.) ,			Drainage Area	38	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	0.62	1.46	1.28	0.10	0.94	0.62	0.70	7.84	0.54	0.26	0.06	
2	0.70	0.70	1.46	0.94	0.10	0.94	0.62	0.62	6.18	0.54	0.30	0.06	
3	0.82	1.78	0.94	0.70	0.10	0.94	0.54	0.62	6.50	0.54	0.42	0.06	
4	1.10	2.85	0.74	0.70	0.10	0.46	0.54	0.62	4.20	5.17	0.46	0.06	
5	1.10	2.00	0.70	0.70	0.10	0.46	0.54	0.86	3.60	2.85	0.30	0.06	
6	1.10	1.86	0.54	0.70	0.10	0.46	0.46	0.94	3.54	2.20	0.30	0.16	
7	1.32	0.94	0.42	0.70	0.34	0.46	0.62	0.82	2.70	1.55	0.28	0.70	
8	2.20	1.24	0.42	0.62	0.62	0.46	0.78	0.70	1.86	1.86	0.26	0.66	
9	3.48	1.10	0.38	0.70	0.54	0.46	1.24	0.66	2.05	2.30	0.26	0.82	
10	4.95	1.06	0.38	0.66	0.58	0.46	1.37	0.62	1.78	1.55	0.24	0.94	
11	3.24	0.86	0.94	0.86	0.54	0.54	1.37	0.62	1.73	1.55	0.20	0.70	
12	2.25	0.62	2.00	0.94	0.46	0.54	1.28	0.62	1.55	0.94	0.20	0.70	
13	1.78	0.50	2.00	0.94	0.46	0.46	1.28	0.62	1.37	0.70	0.18	0.94	
14	1.55	0.70	1.91	0.86	0.46	0.46	1.19	0.62	0.98	0.70	0.18	0.78	
15	1.55	0.70	1.86	0.70	0.46	0.46	1.19	0.62	0.70	0.66	0.18	0.10	
16	1.55	0.70	1.82	0.58	0.46	0.46	1.10	0.62	0.94	0.66	0.18	0.10	
17	1.19	1.10	1.82	0.26	0.54	0.54	1.02	0.62	0.70	0.70	0.18	0.06	
18	0.86	4.42	1.91	0.10	0.50	0.54	0.70	0.70	0.70	0.70	0.22	1.02	
19	0.54	5.55	1.86	0.10	0.50	0.62	0.62	0.70	1.10	1.46	0.22	0.94	
20	0.70	3.12	1.32	0.10	0.46	0.62	0.62	0.90	0.78	1.55	0.22	0.98	
21	0.62	2.60	1.28	0.10	0.46	0.66	0.54	9.10	0.62	1.37	0.18	0.70	
22	0.62	1.73	1.28	0.10	0.46	0.70	0.62	14.59	0.62	0.70	0.18	0.70	
23	0.54	0.70	1.28	0.10	0.54	0.62	0.62	9.91	0.62	0.58	0.22	1.06	
24	0.54	0.70	1.32	0.10	0.54	0.62	0.62	8.65	0.58	0.94	2.40	1.02	
25	0.54	0.70	1.37	0.10	0.54	0.62	0.70	6.98	0.54	0.66	0.20	1.10	
26	0.54	0.78	1.37	0.10	0.54	0.54	0.66	3.30	0.54	0.70	0.08	1.02	
27	0.54	0.70	1.46	0.10	0.54	0.62	0.66	2.80	0.54	0.66	0.08	0.90	
28	0.70	0.62	1.46	0.62	0.58	0.58	0.70	2.25	0.46	0.54	0.06	0.82	
29	0.70	0.90	1.46	1.55	0.70	0.54	0.66	1.91	0.46	0.82		0.62	
30	0.62	1.46	1.37	0.10	0.78	0.54	0.62	1.91	0.46	1.02		0.38	
31		1.46		0.10	0.86		0.70		0.50	0.94		0.30	
Total	38.48	44.77	38.53	16.21	14.06	17.32	24.80	75.20	56.74	37.65	8.44	18.52	390.72 CMSDAY
Mean	1.28	1.44	1.28	0.52	0.45	0.58	0.80	2.51	1.83	1.21	0.30	0.60	1.07 CMS
Max	4.95	5.55	2.00	1.55	0.86	0.94	1.37	14.59	7.84	5.17	2.40	1.10	14.59 CMS
Min	0.54	0.50	0.38	0.10	0.10	0.46	0.46	0.62	0.46	0.54	0.06	0.06	0.06 CMS
Runoff	3.33	3.87	3.33	1.40	1.22	1.50	2.14	6.50	4.90	3.25	0.73	1.60	33.76 MCM
Momentary Peak	14.80 CMS. at 2.20 m. (A.D.) at 06.00 Hours , on Nov 22 , 2009												
Runoff Yield	28.17 Liters/Second/Square KM.			Momentary Peak Yield			389.474 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Tamot at Ban Mae Khree , Phatthalung (X.267)

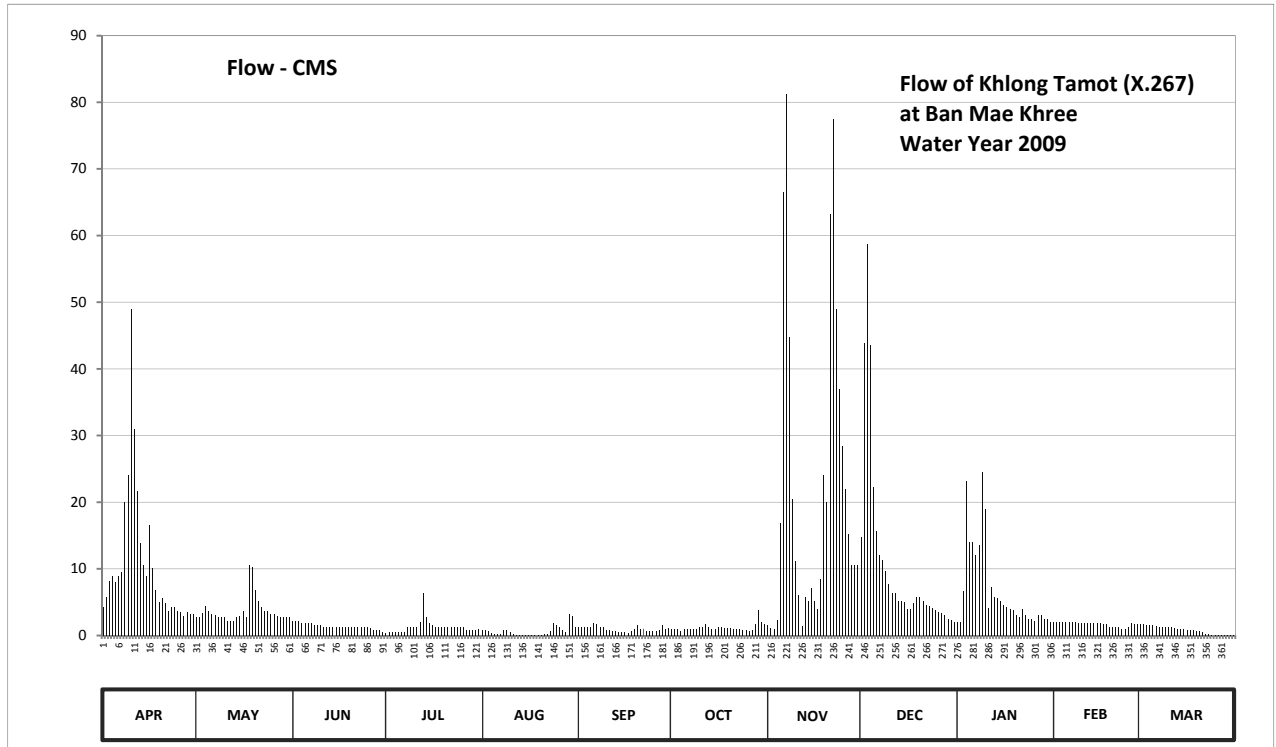
Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

	Ban	Mae Khree	Amphoe	Tamot	Changwat	Phatthalung
Drainage Area	295	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+27.878 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 means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.22	22.07	22.02	21.64	21.77	21.87	21.80	21.90	22.94	22.00	22.00	21.95	
2	22.35	22.07	22.02	21.67	21.77	21.87	21.80	21.82	24.18	22.00	22.00	21.93	
3	22.54	22.14	22.02	21.67	21.72	21.87	21.80	21.79	24.65	22.42	22.00	21.90	
4	22.59	22.23	21.97	21.67	21.64	21.87	21.73	22.03	24.17	23.36	22.00	21.90	
5	22.52	22.17	21.97	21.67	21.59	21.84	21.80	23.04	23.31	22.90	22.00	21.90	
6	22.59	22.12	21.97	21.67	21.62	21.97	21.80	24.87	22.98	22.90	22.00	21.89	
7	22.63	22.11	21.97	21.67	21.61	21.93	21.80	25.27	22.80	22.80	22.00	21.87	
8	23.20	22.07	21.92	21.87	21.77	21.87	21.80	24.21	22.75	22.88	22.00	21.87	
9	23.40	22.07	21.92	21.87	21.75	21.87	21.80	23.22	22.65	23.42	21.99	21.86	
10	24.35	22.07	21.92	21.87	21.68	21.77	21.85	22.74	22.50	23.15	21.99	21.85	
11	23.70	22.02	21.87	21.87	21.62	21.77	21.85	22.37	22.40	22.21	21.98	21.85	
12	23.28	22.02	21.87	22.00	21.57	21.72	21.93	21.89	22.40	22.47	21.98	21.83	
13	22.89	22.02	21.87	22.40	21.57	21.71	21.85	22.35	22.30	22.35	21.98	21.80	
14	22.70	22.07	21.87	22.08	21.57	21.67	21.80	22.30	22.30	22.33	21.98	21.80	
15	22.59	22.09	21.87	21.97	21.57	21.67	21.80	22.46	22.28	22.30	21.98	21.78	
16	23.03	22.17	21.87	21.92	21.57	21.69	21.85	22.30	22.20	22.25	21.98	21.77	
17	22.67	22.07	21.87	21.87	21.57	21.65	21.85	22.20	22.20	22.22	21.95	21.75	
18	22.43	22.70	21.87	21.87	21.55	21.70	21.83	22.56	22.27	22.20	21.94	21.74	
19	22.29	22.68	21.87	21.87	21.52	21.80	21.82	23.40	22.35	22.18	21.85	21.72	
20	22.33	22.43	21.87	21.87	21.51	21.90	21.81	23.20	22.35	22.10	21.85	21.70	
21	22.27	22.30	21.87	21.87	21.62	21.80	21.80	24.78	22.30	22.08	21.85	21.66	
22	22.17	22.22	21.87	21.87	21.62	21.80	21.80	25.17	22.25	22.20	21.85	21.62	
23	22.22	22.17	21.87	21.87	21.72	21.70	21.80	24.35	22.23	22.10	21.80	21.58	
24	22.22	22.17	21.87	21.87	21.96	21.70	21.77	23.93	22.21	22.05	21.80	21.57	
25	22.17	22.12	21.87	21.87	21.92	21.70	21.75	23.60	22.18	22.05	21.84	21.57	
26	22.15	22.12	21.83	21.87	21.87	21.70	21.70	23.30	22.15	22.02	21.96	21.56	
27	22.09	22.09	21.77	21.77	21.77	21.77	21.74	22.96	22.13	22.10	21.95	21.56	
28	22.15	22.07	21.77	21.77	21.69	21.90	21.95	22.70	22.10	22.10	21.95	21.55	
29	22.12	22.07	21.77	21.77	22.12	21.80	22.18	22.70	22.04	22.05		21.55	
30	22.12	22.07	21.69	21.77	22.09	21.83	22.00	22.70	22.03	22.05		21.55	
31		22.07		21.78	21.87		21.95		22.00	22.00		21.55	
Mean	22.60	22.16	21.89	21.84	21.70	21.79	21.83	23.07	22.57	22.36	21.94	21.74	
Max	24.35	22.70	22.02	22.40	22.12	21.97	22.18	25.27	24.65	23.42	22.00	21.95	25.27
Min	22.09	22.02	21.69	21.64	21.51	21.65	21.70	21.79	22.00	22.00	21.80	21.55	21.51
Annual Max Momentary Gage Height		25.47		m. (MSL.) ,				at 01.00 Hours , on Nov 7 , 2009					
Zero Gage at Bottom Elevation		0.00		m. (MSL.) ,		River Bed	20.46	m. (MSL)					
Left Bank Elevation		27.88		m. (MSL.) ,									
Right Bank Elevation		27.92		m. (MSL.) ,		Drainage Area	295	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.24	2.70	2.20	0.36	0.88	1.35	1.00	1.50	14.80	2.00	2.00	1.75		
2	5.80	2.70	2.20	0.48	0.88	1.35	1.00	1.10	43.84	2.00	2.00	1.65		
3	8.22	3.40	2.20	0.48	0.68	1.35	1.00	0.96	58.75	6.66	2.00	1.50		
4	8.87	4.36	1.85	0.48	0.36	1.35	0.72	2.30	43.56	23.20	2.00	1.50		
5	7.96	3.70	1.85	0.48	0.18	1.20	1.00	16.80	22.20	14.00	2.00	1.50		
6	8.87	3.20	1.85	0.48	0.28	1.85	1.00	66.52	15.60	14.00	2.00	1.45		
7	9.45	3.10	1.85	0.48	0.24	1.65	1.00	81.26	12.00	12.00	2.00	1.35		
8	20.00	2.70	1.60	1.35	0.88	1.35	1.00	44.70	11.25	13.60	2.00	1.35		
9	24.00	2.70	1.60	1.35	0.80	1.35	1.00	20.40	9.75	24.44	1.95	1.30		
10	48.90	2.70	1.60	1.35	0.52	0.88	1.25	11.10	7.70	19.00	1.95	1.25		
11	30.90	2.20	1.35	1.35	0.28	0.88	1.25	6.04	6.40	4.12	1.90	1.25		
12	21.60	2.20	1.35	2.00	0.14	0.68	1.65	1.45	6.40	7.31	1.90	1.15		
13	13.80	2.20	1.35	6.40	0.14	0.64	1.25	5.80	5.20	5.80	1.90	1.00		
14	10.50	2.70	1.35	2.80	0.14	0.48	1.00	5.20	5.20	5.56	1.90	1.00		
15	8.87	2.90	1.35	1.85	0.14	0.48	1.00	7.18	4.96	5.20	1.90	0.92		
16	16.60	3.70	1.35	1.60	0.14	0.56	1.25	5.20	4.00	4.60	1.90	0.88		
17	10.05	2.70	1.35	1.35	0.14	0.40	1.25	4.00	4.00	4.24	1.75	0.80		
18	6.79	10.50	1.35	1.35	0.10	0.60	1.15	8.48	4.84	4.00	1.70	0.76		
19	5.08	10.20	1.35	1.35	0.04	1.00	1.10	24.00	5.80	3.80	1.25	0.68		
20	5.56	6.79	1.35	1.35	0.02	1.50	1.05	20.00	5.80	3.00	1.25	0.60		
21	4.84	5.20	1.35	1.35	0.28	1.00	1.00	63.30	5.20	2.80	1.25	0.44		
22	3.70	4.24	1.35	1.35	0.28	1.00	1.00	77.49	4.60	4.00	1.25	0.28		
23	4.24	3.70	1.35	1.35	0.68	0.60	1.00	48.90	4.36	3.00	1.00	0.16		
24	4.24	3.70	1.35	1.35	1.80	0.60	0.88	36.91	4.12	2.50	1.00	0.14		
25	3.70	3.20	1.35	1.35	1.60	0.60	0.80	28.40	3.80	2.50	1.20	0.14		
26	3.50	3.20	1.15	1.35	1.35	0.60	0.60	22.00	3.50	2.20	1.80	0.12		
27	2.90	2.90	0.88	0.88	0.88	0.88	0.76	15.20	3.30	3.00	1.75	0.12		
28	3.50	2.70	0.88	0.88	0.56	1.50	1.75	10.50	3.00	3.00	1.75	0.10		
29	3.20	2.70	0.88	0.88	3.20	1.00	3.80	10.50	2.40	2.50		0.10		
30	3.20	2.70	0.56	0.88	2.90	1.15	2.00	10.50	2.30	2.50		0.10		
31	2.70		0.92	1.35		1.75			2.00	2.00		0.10		
Total	313.08	114.29	43.40	41.23	21.86	29.83	37.26	657.69	330.63	208.53	48.25	25.44	1871.49	CMSDAY
Mean	10.44	3.69	1.45	1.33	0.71	0.99	1.20	21.92	10.67	6.73	1.72	0.82	5.13	CMS
Max	48.90	10.50	2.20	6.40	3.20	1.85	3.80	81.26	58.75	24.44	2.00	1.75	81.26	CMS
Min	2.90	2.20	0.56	0.36	0.02	0.40	0.60	0.96	2.00	2.00	1.00	0.10	0.02	CMS
Runoff	27.05	9.88	3.75	3.56	1.89	2.58	3.22	56.82	28.57	18.02	4.17	2.20	161.70	MCM
Momentary Peak	88.93 CMS. at 25.47 m. (MSL.) at 01.00 Hours , on Nov 7 , 2009													
Runoff Yield	17.38 Liters/Second/Square KM.			Momentary Peak Yield				301.458 Liters/Second/Square KM.						

WATER YEAR : 2009

THALE SAP SONGKHLA

Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)

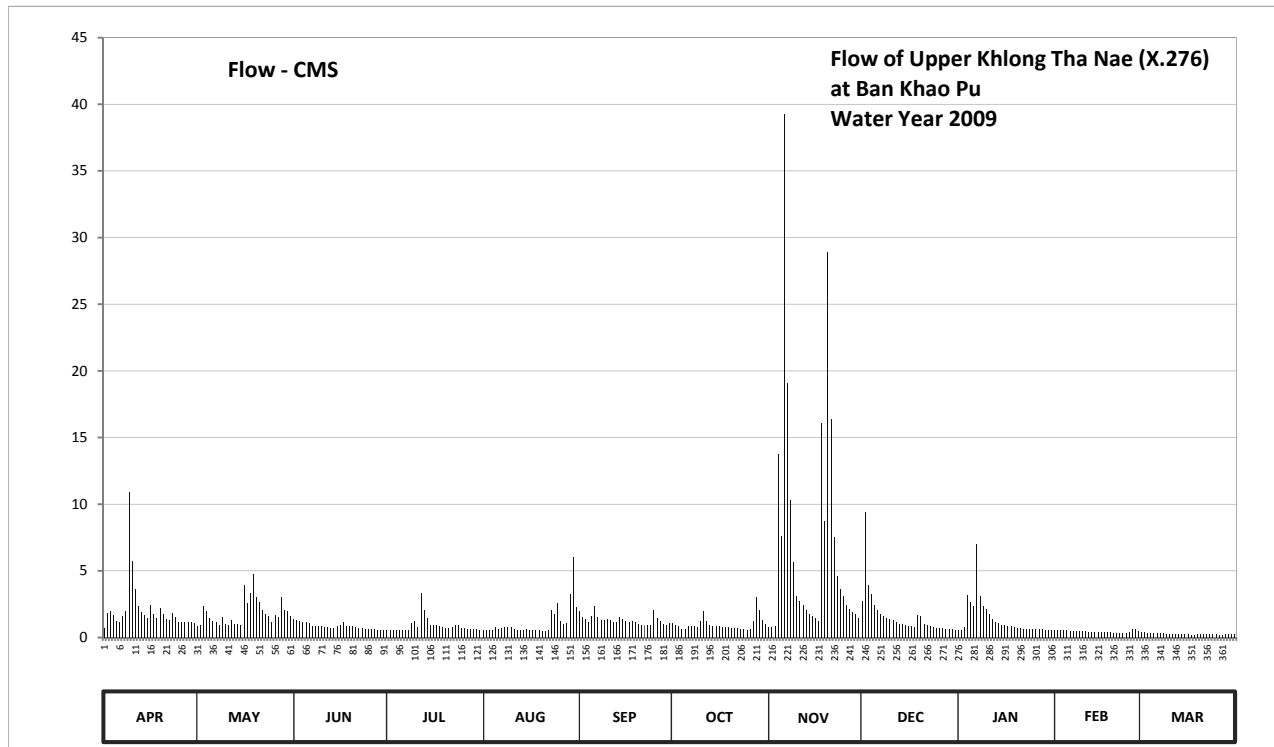
Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

	Ban Khao Pu	Amphoe Si Banphot	Changwat Phatthalung
Drainage Area	47	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.		Elevation +57.060 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 means of 5 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.51	50.55	50.66	50.45	50.46	50.76	50.61	50.52	50.86	50.45	50.45	50.39	
2	50.74	50.57	50.65	50.45	50.45	50.69	50.59	50.53	51.43	50.44	50.44	50.39	
3	50.76	50.82	50.64	50.45	50.45	50.66	50.54	50.54	50.99	50.52	50.44	50.38	
4	50.71	50.76	50.62	50.45	50.45	50.63	50.48	51.71	50.92	50.91	50.44	50.38	
5	50.64	50.67	50.63	50.45	50.52	50.70	50.49	51.29	50.83	50.85	50.44	50.37	
6	50.63	50.64	50.61	50.45	50.47	50.82	50.56	52.99	50.77	50.82	50.43	50.36	
7	50.70	50.63	50.56	50.44	50.51	50.69	50.55	52.03	50.73	51.24	50.43	50.35	
8	50.76	50.59	50.55	50.44	50.52	50.65	50.54	51.49	50.70	50.90	50.42	50.35	
9	51.53	50.69	50.55	50.61	50.52	50.65	50.53	51.13	50.68	50.82	50.42	50.33	
10	51.14	50.60	50.54	50.64	50.52	50.66	50.64	50.90	50.66	50.79	50.42	50.33	
11	50.96	50.59	50.53	50.52	50.49	50.65	50.76	50.86	50.65	50.72	50.42	50.32	
12	50.82	50.65	50.52	50.93	50.46	50.63	50.64	50.83	50.63	50.66	50.40	50.32	
13	50.75	50.60	50.51	50.77	50.46	50.62	50.59	50.78	50.60	50.63	50.40	50.32	
14	50.71	50.60	50.51	50.68	50.46	50.69	50.56	50.72	50.60	50.61	50.40	50.32	
15	50.67	50.58	50.54	50.58	50.47	50.66	50.56	50.70	50.58	50.58	50.40	50.32	
16	50.83	50.99	50.57	50.58	50.46	50.64	50.56	50.67	50.56	50.57	50.40	50.32	
17	50.72	50.84	50.63	50.59	50.45	50.62	50.53	50.64	50.56	50.55	50.40	50.30	
18	50.67	50.93	50.55	50.55	50.44	50.64	50.53	51.85	50.53	50.55	50.39	50.30	
19	50.80	51.06	50.55	50.53	50.44	50.62	50.52	51.38	50.71	50.52	50.39	50.32	
20	50.72	50.89	50.54	50.51	50.43	50.60	50.50	52.53	50.70	50.51	50.38	50.33	
21	50.66	50.85	50.52	50.50	50.43	50.58	50.51	51.87	50.60	50.50	50.38	50.33	
22	50.65	50.77	50.51	50.52	50.44	50.57	50.50	51.28	50.59	50.49	50.38	50.33	
23	50.74	50.73	50.50	50.58	50.77	50.57	50.48	51.05	50.55	50.49	50.38	50.32	
24	50.69	50.70	50.49	50.59	50.73	50.57	50.47	50.96	50.53	50.48	50.37	50.32	
25	50.63	50.63	50.48	50.51	50.84	50.77	50.46	50.90	50.51	50.48	50.41	50.32	
26	50.63	50.71	50.48	50.50	50.64	50.68	50.48	50.83	50.50	50.47	50.47	50.30	
27	50.63	50.69	50.47	50.49	50.60	50.64	50.64	50.79	50.50	50.47	50.49	50.30	
28	50.63	50.89	50.46	50.49	50.61	50.60	50.89	50.75	50.49	50.48	50.43	50.33	
29	50.62	50.77	50.45	50.48	50.92	50.59	50.78	50.72	50.49	50.46		50.34	
30	50.61	50.76	50.45	50.47	51.16	50.61	50.65	50.67	50.48	50.45		50.31	
31		50.70		50.46	50.81		50.60		50.45	50.44		50.31	
Mean	50.74	50.72	50.54	50.54	50.56	50.65	50.57	51.13	50.66	50.61	50.42	50.33	
Max	51.53	51.06	50.66	50.93	51.16	50.82	50.89	52.99	51.43	51.24	50.49	50.39	52.99
Min	50.51	50.55	50.45	50.44	50.43	50.57	50.46	50.52	50.45	50.44	50.37	50.30	50.30
Annual Max Momentary Gage Height	54.72		m. (MSL.) ,				at 11.00 Hours , on Nov 6 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	49.63	m. (MSL)					
Left Bank Elevation		57.20		m. (MSL.) ,									
Right Bank Elevation		57.02		m. (MSL.) ,		Drainage Area	47	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	0.85	1.36	0.55	0.58	1.96	1.06	0.76	2.74	0.55	0.55	0.38	
2	1.84	0.91	1.30	0.55	0.55	1.54	0.97	0.79	9.45	0.52	0.52	0.38	
3	1.96	2.38	1.24	0.55	0.55	1.36	0.82	0.82	3.91	0.76	0.52	0.36	
4	1.66	1.96	1.12	0.55	0.55	1.18	0.64	13.76	3.28	3.19	0.52	0.36	
5	1.24	1.42	1.18	0.55	0.76	1.60	0.67	7.62	2.47	2.65	0.52	0.34	
6	1.18	1.24	1.06	0.55	0.61	2.38	0.88	39.28	2.02	2.38	0.49	0.32	
7	1.60	1.18	0.88	0.52	0.73	1.54	0.85	19.11	1.78	7.00	0.49	0.30	
8	1.96	0.97	0.85	0.52	0.76	1.30	0.82	10.35	1.60	3.10	0.46	0.30	
9	10.95	1.54	0.85	1.06	0.76	1.30	0.79	5.63	1.48	2.38	0.46	0.26	
10	5.75	1.00	0.82	1.24	0.76	1.36	1.24	3.10	1.36	2.14	0.46	0.26	
11	3.64	0.97	0.79	0.76	0.67	1.30	1.96	2.74	1.30	1.72	0.46	0.24	
12	2.38	1.30	0.76	3.37	0.58	1.18	1.24	2.47	1.18	1.36	0.40	0.24	
13	1.90	1.00	0.73	2.02	0.58	1.12	0.97	2.08	1.00	1.18	0.40	0.24	
14	1.66	1.00	0.73	1.48	0.58	1.54	0.88	1.72	1.00	1.06	0.40	0.24	
15	1.42	0.94	0.82	0.94	0.61	1.36	0.88	1.60	0.94	0.94	0.40	0.24	
16	2.47	3.91	0.91	0.94	0.58	1.24	0.88	1.42	0.88	0.91	0.40	0.24	
17	1.72	2.56	1.18	0.97	0.55	1.12	0.79	1.24	0.88	0.85	0.40	0.20	
18	1.42	3.37	0.85	0.85	0.52	1.24	0.79	16.05	0.79	0.85	0.38	0.20	
19	2.20	4.75	0.85	0.79	0.52	1.12	0.76	8.75	1.66	0.76	0.38	0.24	
20	1.72	3.01	0.82	0.73	0.49	1.00	0.70	28.92	1.60	0.73	0.36	0.26	
21	1.36	2.65	0.76	0.70	0.49	0.94	0.73	16.39	1.00	0.70	0.36	0.26	
22	1.30	2.02	0.73	0.76	0.52	0.91	0.70	7.50	0.97	0.67	0.36	0.26	
23	1.84	1.78	0.70	0.94	2.02	0.91	0.64	4.62	0.85	0.67	0.36	0.24	
24	1.54	1.60	0.67	0.97	1.78	0.91	0.61	3.64	0.79	0.64	0.34	0.24	
25	1.18	1.18	0.64	0.73	2.56	2.02	0.58	3.10	0.73	0.64	0.43	0.24	
26	1.18	1.66	0.64	0.70	1.24	1.48	0.64	2.47	0.70	0.61	0.61	0.20	
27	1.18	1.54	0.61	0.67	1.00	1.24	1.24	2.14	0.70	0.61	0.67	0.20	
28	1.18	3.01	0.58	0.67	1.06	1.00	3.01	1.90	0.67	0.64	0.49	0.26	
29	1.12	2.02	0.55	0.64	3.28	0.97	2.08	1.72	0.67	0.58		0.28	
30	1.06	1.96	0.55	0.61	6.00	1.06	1.30	1.42	0.64	0.55		0.22	
31		1.60		0.58	2.29		1.00		0.55	0.52		0.22	
Total	62.34	57.28	25.53	27.46	34.53	39.18	31.12	213.11	49.59	41.86	12.59	8.22	602.81 CMSDAY
Mean	2.08	1.85	0.85	0.89	1.11	1.31	1.00	7.10	1.60	1.35	0.45	0.27	1.65 CMS
Max	10.95	4.75	1.36	3.37	6.00	2.38	3.01	39.28	9.45	7.00	0.67	0.38	39.28 CMS
Min	0.73	0.85	0.55	0.52	0.49	0.91	0.58	0.76	0.55	0.52	0.34	0.20	0.20 CMS
Runoff	5.39	4.95	2.21	2.37	2.98	3.39	2.69	18.41	4.29	3.62	1.09	0.71	52.08 MCM
Momentary Peak	92.50 CMS. at 54.72 m. (MSL.) at 11.00 Hours , on Nov 6 , 2009												
Runoff Yield	34.77 Liters/Second/Square KM.			Momentary Peak Yield 1947.368 Liters/Second/Square KM.									

WATER YEAR : 2009

THALE SAP SONGKHLA

Lower Khlong Tha Nae at Ban Phikul Thong , Phatthalung (X.277)

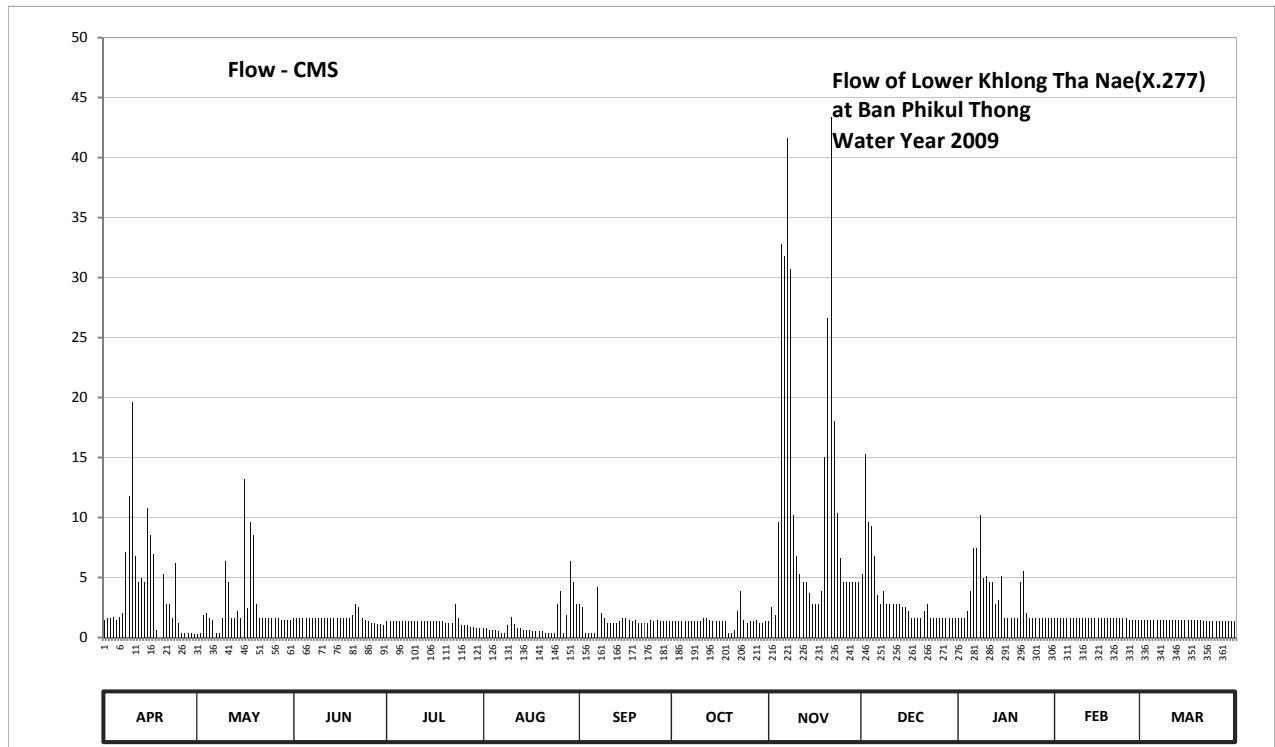
Lat 07 - 44 - 25 N Long 99 - 58 - 48 E

Location : on right bank at the bridge.

	Ban Phikul Thong	Amphoe Khuan Khanun	Changwat Phatthalung
Drainage Area	91 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation +3.644 m. (A.D.)	
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 means of 5 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2009.		

Gage Height in Meter (A.D.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.89	0.77	0.90	0.88	0.83	1.00	0.88	0.88	1.14	0.90	0.90	0.89	
2	0.90	0.80	0.90	0.88	0.83	0.98	0.88	0.98	1.66	0.90	0.90	0.89	
3	0.90	0.92	0.90	0.88	0.82	0.80	0.88	0.92	1.38	0.90	0.90	0.89	
4	0.91	0.94	0.90	0.88	0.82	0.80	0.88	1.38	1.36	0.95	0.90	0.89	
5	0.89	0.90	0.90	0.88	0.82	0.80	0.88	2.40	1.22	1.06	0.90	0.89	
6	0.91	0.89	0.90	0.88	0.81	0.80	0.88	2.36	1.04	1.26	0.90	0.89	
7	0.94	0.80	0.90	0.88	0.80	1.08	0.88	2.72	1.00	1.26	0.90	0.89	
8	1.24	0.80	0.90	0.88	0.80	0.94	0.88	2.32	1.06	1.41	0.90	0.89	
9	1.49	0.90	0.90	0.88	0.85	0.90	0.88	1.41	1.00	1.12	0.90	0.89	
10	1.86	1.20	0.90	0.88	0.91	0.87	0.88	1.22	1.00	1.13	0.90	0.89	
11	1.22	1.10	0.90	0.88	0.86	0.87	0.90	1.14	1.00	1.10	0.90	0.89	
12	1.10	0.90	0.90	0.88	0.83	0.87	0.90	1.10	1.00	1.10	0.90	0.89	
13	1.12	0.90	0.90	0.88	0.83	0.87	0.89	1.10	1.00	1.00	0.90	0.89	
14	1.10	0.95	0.90	0.88	0.82	0.88	0.88	1.05	0.98	1.02	0.90	0.89	
15	1.44	0.90	0.90	0.88	0.82	0.90	0.88	1.00	0.98	1.13	0.90	0.89	
16	1.32	1.56	0.90	0.88	0.82	0.90	0.88	1.00	0.95	0.90	0.90	0.89	
17	1.23	0.97	0.90	0.88	0.81	0.89	0.88	1.00	0.90	0.90	0.90	0.89	
18	0.82	1.38	0.90	0.88	0.81	0.88	0.88	1.06	0.90	0.90	0.90	0.89	
19	0.70	1.32	0.90	0.88	0.81	0.89	0.80	1.65	0.90	0.90	0.90	0.89	
20	1.14	1.00	0.92	0.87	0.81	0.87	0.80	2.16	0.90	0.90	0.90	0.89	
21	1.00	0.90	1.00	0.87	0.80	0.87	0.82	2.78	0.95	1.10	0.90	0.88	
22	1.00	0.90	0.98	0.87	0.80	0.87	0.95	1.79	1.00	1.15	0.90	0.88	
23	0.90	0.90	0.90	1.00	0.80	0.87	1.06	1.42	0.90	0.94	0.90	0.88	
24	1.19	0.90	0.89	0.90	0.80	0.89	0.89	1.21	0.90	0.90	0.90	0.88	
25	0.87	0.90	0.88	0.85	1.00	0.88	0.87	1.10	0.90	0.90	0.89	0.88	
26	0.80	0.90	0.87	0.85	1.06	0.89	0.88	1.10	0.90	0.90	0.89	0.88	
27	0.80	0.90	0.87	0.85	0.80	0.88	0.88	1.10	0.90	0.90	0.89	0.88	
28	0.80	0.89	0.86	0.84	0.92	0.88	0.89	1.10	0.90	0.90	0.89	0.88	
29	0.80	0.89	0.86	0.84	1.20	0.88	0.87	1.10	0.90	0.90	0.90	0.88	
30	0.77	0.89	0.85	0.83	1.10	0.88	0.87	1.10	0.90	0.90	0.90	0.88	
31		0.89		0.83	1.00		0.88		0.90	0.90		0.88	
Mean	1.03	0.96	0.90	0.87	0.86	0.89	0.88	1.42	1.01	1.00	0.90	0.89	
Max	1.86	1.56	1.00	1.00	1.20	1.08	1.06	2.78	1.66	1.41	0.90	0.89	2.78
Min	0.70	0.77	0.85	0.83	0.80	0.80	0.80	0.88	0.90	0.90	0.89	0.88	0.70
Annual Max Momentary Gage Height	3.00		m. (A.D.) ,					at 18.00 Hours , on Nov 6 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,					River Bed -0.07 m. (A.D.)					
Left Bank Elevation	3.69		m. (A.D.) ,										
Right Bank Elevation	3.70		m. (A.D.) ,					Drainage Area 91 Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.48	0.28	1.60	1.36	0.76	2.80	1.36	1.36	5.32	1.60	1.60	1.48	
2	1.60	0.40	1.60	1.36	0.76	2.56	1.36	2.56	15.26	1.60	1.60	1.48	
3	1.60	1.84	1.60	1.36	0.64	0.40	1.36	1.84	9.64	1.60	1.60	1.48	
4	1.72	2.08	1.60	1.36	0.64	0.40	1.36	9.64	9.28	2.20	1.60	1.48	
5	1.48	1.60	1.60	1.36	0.64	0.40	1.36	32.80	6.76	3.88	1.60	1.48	
6	1.72	1.48	1.60	1.36	0.52	0.40	1.36	31.76	3.52	7.48	1.60	1.48	
7	2.08	0.40	1.60	1.36	0.40	4.24	1.36	41.60	2.80	7.48	1.60	1.48	
8	7.12	0.40	1.60	1.36	0.40	2.08	1.36	30.72	3.88	10.20	1.60	1.48	
9	11.80	1.60	1.60	1.36	1.00	1.60	1.36	10.20	2.80	4.96	1.60	1.48	
10	19.58	6.40	1.60	1.36	1.72	1.24	1.36	6.76	2.80	5.14	1.60	1.48	
11	6.76	4.60	1.60	1.36	1.12	1.24	1.60	5.32	2.80	4.60	1.60	1.48	
12	4.60	1.60	1.60	1.36	0.76	1.24	1.60	4.60	2.80	4.60	1.60	1.48	
13	4.96	1.60	1.60	1.36	0.76	1.24	1.48	4.60	2.80	2.80	1.60	1.48	
14	4.60	2.20	1.60	1.36	0.64	1.36	1.36	3.70	2.56	3.16	1.60	1.48	
15	10.80	1.60	1.60	1.36	0.64	1.60	1.36	2.80	2.56	5.14	1.60	1.48	
16	8.56	13.20	1.60	1.36	0.64	1.60	1.36	2.80	2.20	1.60	1.60	1.48	
17	6.94	2.44	1.60	1.36	0.52	1.48	1.36	2.80	1.60	1.60	1.60	1.48	
18	0.64	9.64	1.60	1.36	0.52	1.36	1.36	3.88	1.60	1.60	1.60	1.48	
19	0.00	8.56	1.60	1.36	0.52	1.48	0.40	15.05	1.60	1.60	1.60	1.48	
20	5.32	2.80	1.84	1.24	0.52	1.24	0.40	26.64	1.60	1.60	1.60	1.48	
21	2.80	1.60	2.80	1.24	0.40	1.24	0.64	43.40	2.20	4.60	1.60	1.36	
22	2.80	1.60	2.56	1.24	0.40	1.24	2.20	17.99	2.80	5.50	1.60	1.36	
23	1.60	1.60	1.60	2.80	0.40	1.24	3.88	10.40	1.60	2.08	1.60	1.36	
24	6.22	1.60	1.48	1.60	0.40	1.48	1.48	6.58	1.60	1.60	1.60	1.36	
25	1.24	1.60	1.36	1.00	2.80	1.36	1.24	4.60	1.60	1.60	1.48	1.36	
26	0.40	1.60	1.24	1.00	3.88	1.48	1.36	4.60	1.60	1.60	1.48	1.36	
27	0.40	1.60	1.24	1.00	0.40	1.36	1.36	4.60	1.60	1.60	1.48	1.36	
28	0.40	1.48	1.12	0.88	1.84	1.36	1.48	4.60	1.60	1.60	1.48	1.36	
29	0.40	1.48	1.12	0.88	6.40	1.36	1.24	4.60	1.60	1.60		1.36	
30	0.28	1.48	1.00	0.76	4.60	1.36	1.24	4.60	1.60	1.60		1.36	
31	1.48			0.76	2.80		1.36		1.60	1.60		1.36	
Total	119.90	81.84	47.76	40.24	38.44	43.44	43.36	347.40	103.58	99.42	44.32	44.56	1054.26 CMSDAY
Mean	4.00	2.64	1.59	1.30	1.24	1.45	1.40	11.58	3.34	3.21	1.58	1.44	2.89 CMS
Max	19.58	13.20	2.80	2.80	6.40	4.24	3.88	43.40	15.26	10.20	1.60	1.48	43.40 CMS
Min	0.00	0.28	1.00	0.76	0.40	0.40	0.40	1.36	1.60	1.60	1.48	1.36	0.00 CMS
Runoff	10.36	7.07	4.13	3.48	3.32	3.75	3.75	30.02	8.95	8.59	3.83	3.85	91.09 MCM
Momentary Peak	50.00 CMS. at 3.00 m. (A.D.) at 18.00 Hours , on Nov 6 , 2009												
Runoff Yield	31.53 Liters/Second/Square KM.			Momentary Peak Yield				545,852 Liters/Second/Square KM.					

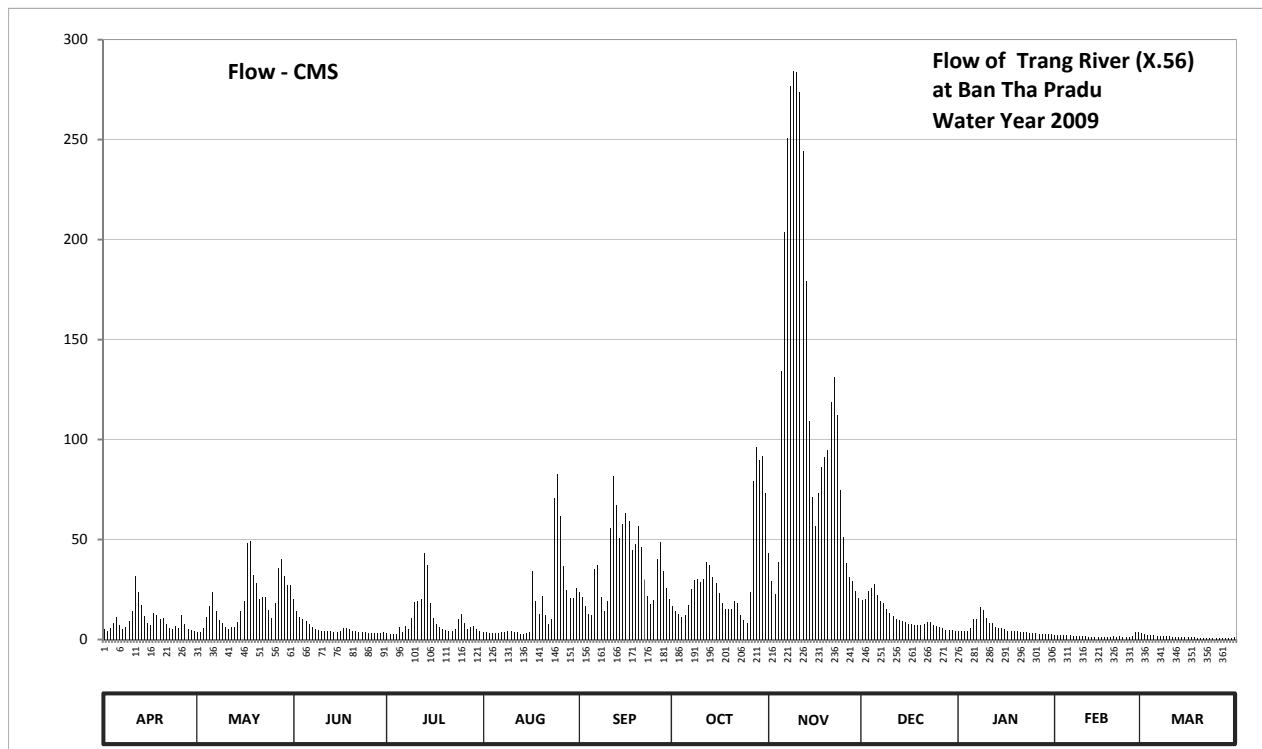
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Tha Pradu , Trang (X.56)
 Lat 07 - 46 - 01 N Long 99 - 32 - 25 E

Location : on left bank at Ban Tha Pradu.

	Ban	Tha Pradu	Amphoe	Huai Yot	Changwat	Trang
Drainage Area	1,801 sq.km.					
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+19.353 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 47 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.33	7.17	8.17	7.09	7.18	8.32	7.99	9.08	8.13	7.23	6.97	7.08	
2	7.20	7.18	7.85	7.03	7.13	8.22	7.86	8.56	8.16	7.20	6.96	7.01	
3	7.38	7.35	7.70	7.01	7.12	7.98	7.78	8.28	8.35	7.22	6.96	6.98	
4	7.54	7.71	7.63	7.01	7.10	7.78	7.70	8.92	8.40	7.24	6.95	6.95	
5	7.69	7.98	7.58	7.40	7.09	7.76	7.77	11.46	8.50	7.39	6.94	6.93	
6	7.46	8.31	7.51	7.16	7.08	8.81	8.01	12.72	8.25	7.63	6.93	6.92	
7	7.34	7.87	7.41	7.45	7.13	8.87	8.39	13.44	8.12	7.65	6.92	6.90	
8	7.42	7.60	7.34	7.32	7.16	8.20	8.59	13.81	8.05	7.97	6.92	6.88	
9	7.58	7.53	7.28	7.68	7.22	7.85	8.62	13.92	7.90	7.89	6.90	6.88	
10	7.87	7.41	7.24	8.09	7.20	8.12	8.55	13.91	7.80	7.67	6.89	6.87	
11	8.66	7.34	7.22	8.11	7.16	9.49	8.61	13.77	7.72	7.53	6.87	6.85	
12	8.33	7.42	7.24	8.16	7.13	10.27	8.92	13.34	7.64	7.53	6.85	6.85	
13	8.00	7.40	7.22	9.08	7.06	9.86	8.88	12.31	7.60	7.41	6.84	6.85	
14	7.72	7.57	7.19	8.87	7.04	9.32	8.65	10.92	7.58	7.39	6.84	6.84	
15	7.53	7.85	7.17	8.07	7.08	9.55	8.53	9.98	7.55	7.37	6.84	6.82	
16	7.48	8.12	7.20	7.68	7.18	9.74	8.30	9.53	7.49	7.33	6.84	6.81	
17	7.82	9.25	7.35	7.51	8.78	9.61	8.05	10.03	7.49	7.25	6.84	6.81	
18	7.75	9.28	7.35	7.40	8.12	9.12	7.92	10.38	7.48	7.23	6.85	6.80	
19	7.63	8.68	7.31	7.32	7.78	9.23	7.90	10.50	7.46	7.23	6.85	6.79	
20	7.66	8.53	7.25	7.26	8.24	9.53	7.90	10.59	7.46	7.20	6.88	6.78	
21	7.49	8.17	7.20	7.24	7.76	9.17	8.12	11.13	7.51	7.18	6.83	6.78	
22	7.36	8.22	7.16	7.22	7.50	8.60	8.06	11.40	7.56	7.15	6.87	6.78	
23	7.33	8.21	7.15	7.32	7.65	8.23	7.75	10.98	7.55	7.14	6.85	6.77	
24	7.44	7.88	7.13	7.65	9.97	8.04	7.60	10.08	7.48	7.11	6.86	6.77	
25	7.37	7.66	7.10	7.79	10.29	8.13	7.52	9.34	7.43	7.09	6.86	6.76	
26	7.76	8.05	7.09	7.54	9.69	8.97	8.32	8.91	7.40	7.08	6.89	6.76	
27	7.50	8.83	7.09	7.32	8.86	9.26	10.20	8.65	7.35	7.06	7.17	6.75	
28	7.34	8.97	7.07	7.42	8.37	8.78	10.63	8.56	7.29	7.05	7.17	6.77	
29	7.29	8.67	7.07	7.45	8.18	8.40	10.47	8.35	7.28	7.04		6.78	
30	7.24	8.48	7.14	7.32	8.18	8.16	10.52	8.19	7.27	7.03		6.78	
31		8.48		7.25	8.40		10.03		7.24	7.01		6.81	
Mean	7.58	8.04	7.31	7.56	7.80	8.78	8.52	10.70	7.69	7.31	6.91	6.84	
Max	8.66	9.28	8.17	9.08	10.29	10.27	10.63	13.92	8.50	7.97	7.17	7.08	13.92
Min	7.20	7.17	7.07	7.01	7.04	7.76	7.52	8.19	7.24	7.01	6.83	6.75	6.75
Annual Max Momentary Gage Height	13.95		m. (MSL.) ,				at 04.00 Hours , on Nov 10 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	5.48	m. (MSL)					
Left Bank Elevation	19.66		m. (MSL.) ,										
Right Bank Elevation	19.71		m. (MSL.) ,			Drainage Area	1801	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.30	3.78	20.40	3.18	3.85	23.70	16.80	43.40	19.60	4.30	2.27	3.10		
2	4.00	3.85	14.00	2.73	3.48	21.45	14.20	29.10	20.20	4.00	2.20	2.58		
3	5.80	5.50	11.25	2.58	3.40	16.60	12.65	22.80	24.38	4.20	2.20	2.35		
4	8.45	11.42	10.02	2.58	3.25	12.65	11.25	38.60	25.50	4.40	2.12	2.12		
5	11.07	16.60	9.15	6.00	3.18	12.30	12.47	134.00	27.75	5.90	2.05	1.97		
6	7.05	23.48	7.93	3.70	3.10	35.30	17.20	203.80	22.13	10.02	1.97	1.90		
7	5.40	14.40	6.17	6.87	3.48	37.10	25.28	250.80	19.40	10.37	1.90	1.75		
8	6.35	9.50	5.40	5.20	3.70	21.00	29.77	276.70	18.00	16.40	1.90	1.60		
9	9.15	8.28	4.80	10.90	4.20	14.00	30.50	284.40	15.00	14.80	1.75	1.60		
10	14.40	6.17	4.40	18.80	4.00	19.40	28.87	283.70	13.00	10.72	1.67	1.52		
11	31.50	5.40	4.20	19.20	3.70	55.70	30.25	273.90	11.60	8.28	1.52	1.37		
12	23.92	6.35	4.40	20.20	3.48	81.80	38.60	244.10	10.20	8.28	1.37	1.37		
13	17.00	6.00	4.20	43.40	2.95	67.10	37.40	179.05	9.50	6.17	1.30	1.37		
14	11.60	8.98	3.93	37.10	2.80	50.60	31.25	109.40	9.15	5.90	1.30	1.30		
15	8.28	14.00	3.78	18.40	3.10	57.50	28.42	71.30	8.63	5.70	1.30	1.15		
16	7.40	19.40	4.00	10.90	3.85	63.20	23.25	56.90	7.57	5.30	1.30	1.07		
17	13.40	48.50	5.50	7.93	34.50	59.30	18.00	73.05	7.57	4.50	1.30	1.07		
18	12.12	49.40	5.50	6.00	19.40	44.60	15.40	86.20	7.40	4.30	1.37	1.00		
19	10.02	32.00	5.10	5.20	12.65	47.90	15.00	91.00	7.05	4.30	1.37	0.97		
20	10.55	28.42	4.50	4.60	21.90	56.90	15.00	94.60	7.05	4.00	1.60	0.95		
21	7.57	20.40	4.00	4.40	12.30	46.10	19.40	118.85	7.93	3.85	1.22	0.95		
22	5.60	21.45	3.70	4.20	7.75	30.00	18.20	131.00	8.80	3.63	1.52	0.95		
23	5.30	21.23	3.63	5.20	10.37	21.67	12.12	112.10	8.63	3.55	1.37	0.92		
24	6.70	14.60	3.48	10.37	70.95	17.80	9.50	74.80	7.40	3.33	1.45	0.92		
25	5.70	10.55	3.25	12.82	82.60	19.60	8.10	51.20	6.52	3.18	1.45	0.90		
26	12.30	18.00	3.18	8.45	61.70	40.10	23.70	38.30	6.00	3.10	1.67	0.90		
27	7.75	35.90	3.18	5.20	36.80	48.80	79.00	31.25	5.50	2.95	3.78	0.87		
28	5.40	40.10	3.03	6.35	24.82	34.50	96.35	29.10	4.90	2.88	3.78	0.92		
29	4.90	31.75	3.03	6.87	20.60	25.50	89.80	24.38	4.80	2.80		0.95		
30	4.40	27.30	3.55	5.20	20.60	20.20	91.80	20.80	4.70	2.73		0.95		
31		27.30		4.50	25.50		73.05		4.40	2.58		1.07		
Total	288.38	590.01	172.66	309.03	517.96	1102.37	972.58	3478.58	360.26	176.42	50.00	42.41	8060.66 C	CMSDAY
Mean	9.61	19.03	5.76	9.97	16.71	36.75	31.37	115.95	11.62	5.69	1.79	1.37	22.08	CMS
Max	31.50	49.40	20.40	43.40	82.60	81.80	96.35	284.40	27.75	16.40	3.78	3.10	284.40	CMS
Min	4.00	3.78	3.03	2.58	2.80	12.30	8.10	20.80	4.40	2.58	1.22	0.87	0.87	CMS
Runoff	24.92	50.98	14.92	26.70	44.75	95.25	84.03	300.55	31.13	15.24	4.32	3.66	696.44	MCM
Momentary Peak	286.50 CMS. at 13.95 m. (MSL) at 04.00 Hours , on Nov 10 , 2009													
Runoff Yield	12.26 Liters/Second/Square KM.			Momentary Peak Yield			159.078 Liters/Second/Square KM.							

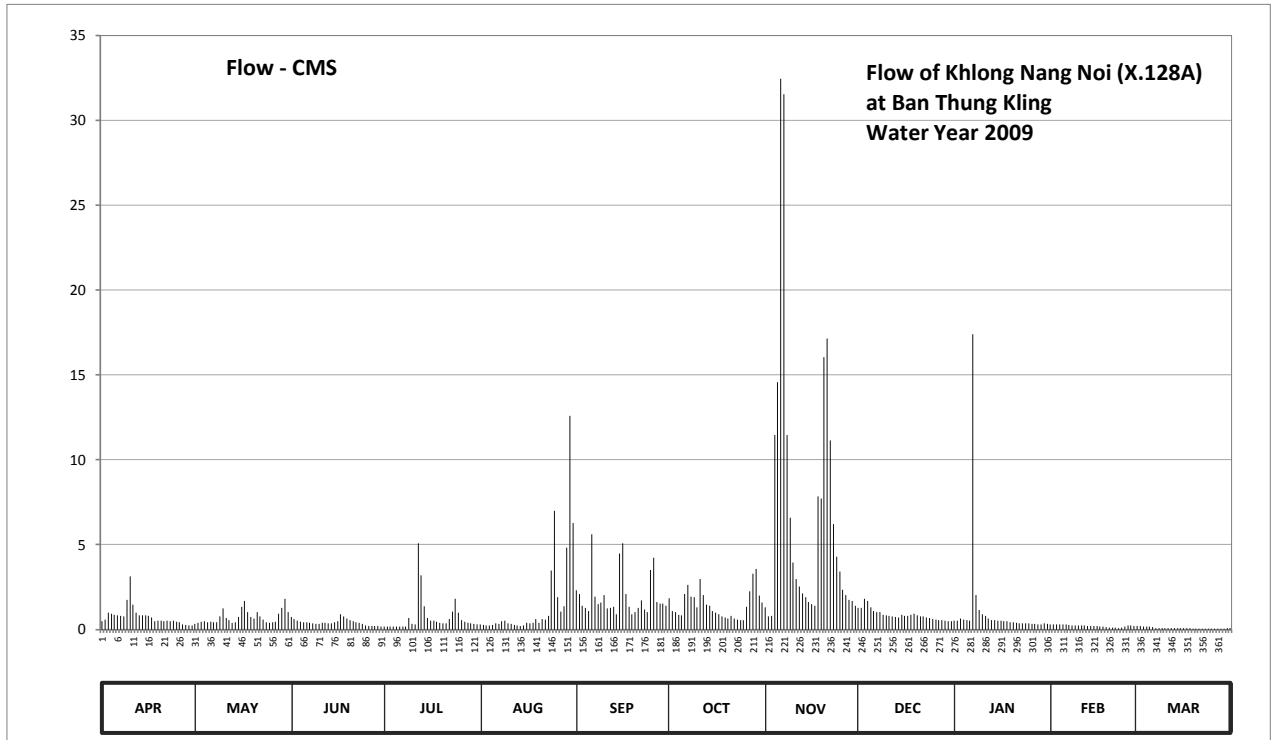
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Nang Noi at Ban Thung Kling , Trang (X.128A)
 Lat 06 - 35 - 28 N Long 99 - 44 - 13 E

Location : on right bank at Ban Thung Kling.

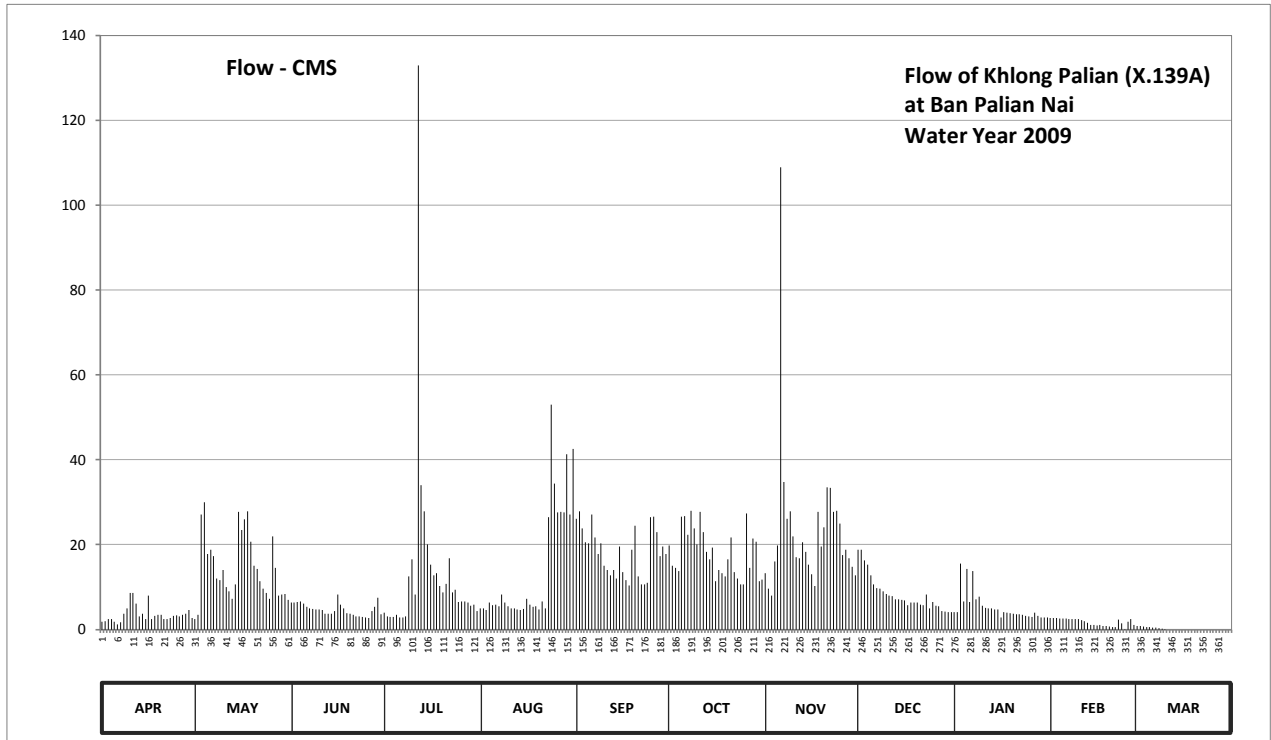
	Ban	Thung Kling	Amphoe	Na Yong	Changwat	Trang
Drainage Area	75	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the top staff gage.				Elevation	+40.999 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.53	35.48	35.61	35.43	35.47	36.00	35.90	35.77	35.76	35.54	35.47	35.44	
2	35.56	35.50	35.57	35.43	35.46	35.95	35.71	35.62	35.76	35.54	35.47	35.44	
3	35.68	35.52	35.54	35.43	35.45	35.80	35.69	35.63	35.89	35.58	35.47	35.43	
4	35.67	35.53	35.52	35.43	35.45	35.76	35.65	37.46	35.86	35.56	35.47	35.43	
5	35.65	35.51	35.51	35.43	35.46	35.71	35.64	37.86	35.77	35.55	35.47	35.42	
6	35.64	35.52	35.51	35.43	35.49	36.57	35.95	39.61	35.71	35.54	35.47	35.41	
7	35.63	35.51	35.50	35.43	35.48	35.92	36.06	39.54	35.69	38.19	35.46	35.39	
8	35.62	35.51	35.49	35.43	35.53	35.82	35.92	37.46	35.69	35.94	35.45	35.38	
9	35.88	35.62	35.48	35.59	35.54	35.84	35.91	36.73	35.65	35.73	35.45	35.38	
10	36.15	35.75	35.48	35.48	35.49	35.94	35.77	36.29	35.64	35.66	35.45	35.38	
11	35.81	35.59	35.50	35.47	35.48	35.75	36.12	36.12	35.63	35.63	35.45	35.38	
12	35.68	35.55	35.50	36.48	35.46	35.76	35.94	36.04	35.62	35.58	35.45	35.37	
13	35.64	35.50	35.49	36.16	35.45	35.78	35.81	35.96	35.61	35.55	35.44	35.37	
14	35.64	35.51	35.49	35.79	35.44	35.66	35.80	35.91	35.60	35.55	35.44	35.37	
15	35.64	35.61	35.51	35.59	35.45	36.38	35.71	35.85	35.65	35.54	35.44	35.37	
16	35.63	35.78	35.53	35.54	35.50	36.48	35.68	35.82	35.63	35.54	35.44	35.37	
17	35.60	35.86	35.66	35.54	35.49	35.95	35.66	35.80	35.63	35.53	35.43	35.37	
18	35.53	35.69	35.62	35.52	35.50	35.78	35.62	36.94	35.65	35.53	35.43	35.37	
19	35.54	35.61	35.58	35.50	35.57	35.66	35.60	36.92	35.67	35.51	35.41	35.36	
20	35.54	35.58	35.55	35.49	35.50	35.69	35.58	38.04	35.64	35.51	35.40	35.36	
21	35.53	35.69	35.53	35.49	35.57	35.76	35.63	38.16	35.62	35.50	35.40	35.36	
22	35.54	35.62	35.51	35.57	35.56	35.87	35.58	37.42	35.62	35.49	35.40	35.36	
23	35.53	35.56	35.50	35.70	35.63	35.74	35.56	36.67	35.60	35.49	35.39	35.36	
24	35.54	35.51	35.48	35.89	36.21	35.69	35.55	36.35	35.59	35.49	35.40	35.36	
25	35.52	35.50	35.45	35.68	36.80	36.22	35.55	36.20	35.57	35.49	35.43	35.36	
26	35.51	35.51	35.44	35.55	35.91	36.34	35.78	36.01	35.56	35.48	35.45	35.36	
27	35.47	35.52	35.44	35.52	35.70	35.85	35.99	35.94	35.55	35.48	35.45	35.36	
28	35.46	35.67	35.44	35.50	35.79	35.83	36.18	35.88	35.55	35.47	35.44	35.36	
29	35.45	35.76	35.44	35.49	36.44	35.83	36.23	35.86	35.54	35.47		35.36	
30	35.45	35.89	35.43	35.48	37.61	35.80	35.93	35.80	35.53	35.49		35.38	
31		35.69		35.47	36.68		35.84		35.53	35.48		35.38	
Mean	35.61	35.60	35.51	35.58	35.73	35.90	35.79	36.66	35.65	35.63	35.44	35.38	
Max	36.15	35.89	35.66	36.48	37.61	36.57	36.23	39.61	35.89	38.19	35.47	35.44	39.61
Min	35.45	35.48	35.43	35.43	35.44	35.66	35.55	35.62	35.53	35.47	35.39	35.36	35.36
Annual Max Momentary Gage Height	40.12		m. (MSL.) ,				at 18.00 Hours , on Nov 6 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	35.06	m. (MSL)					
Left Bank Elevation	43.35		m. (MSL.) ,										
Right Bank Elevation	43.37		m. (MSL.) ,			Drainage Area	75	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.34	0.74	0.19	0.31	2.30	1.85	1.30	1.26	0.52	0.31	0.22	
2	0.58	0.40	0.61	0.19	0.28	2.08	1.09	0.77	1.26	0.52	0.31	0.22	
3	0.98	0.46	0.52	0.19	0.25	1.40	1.01	0.81	1.80	0.64	0.31	0.19	
4	0.94	0.49	0.46	0.19	0.25	1.26	0.88	11.45	1.67	0.58	0.31	0.19	
5	0.88	0.43	0.43	0.19	0.28	1.09	0.84	14.58	1.30	0.55	0.31	0.16	
6	0.84	0.46	0.43	0.19	0.37	5.62	2.08	32.44	1.09	0.52	0.31	0.13	
7	0.81	0.43	0.40	0.19	0.34	1.94	2.63	31.55	1.01	17.41	0.28	0.09	
8	0.77	0.43	0.37	0.19	0.49	1.49	1.94	11.45	1.01	2.03	0.25	0.08	
9	1.76	0.77	0.34	0.67	0.52	1.58	1.90	6.58	0.88	1.16	0.25	0.08	
10	3.13	1.23	0.34	0.34	0.37	2.03	1.30	3.94	0.84	0.91	0.25	0.08	
11	1.45	0.67	0.40	0.31	0.34	1.23	2.96	2.96	0.81	0.81	0.25	0.08	
12	0.98	0.55	0.40	5.08	0.28	1.26	2.03	2.52	0.77	0.64	0.25	0.07	
13	0.84	0.40	0.37	3.18	0.25	1.33	1.45	2.12	0.74	0.55	0.22	0.07	
14	0.84	0.43	0.37	1.37	0.22	0.91	1.40	1.90	0.70	0.55	0.22	0.07	
15	0.84	0.74	0.43	0.67	0.25	4.48	1.09	1.62	0.88	0.52	0.22	0.07	
16	0.81	1.33	0.49	0.52	0.40	5.08	0.98	1.49	0.81	0.52	0.22	0.07	
17	0.70	1.67	0.91	0.52	0.37	2.08	0.91	1.40	0.81	0.49	0.19	0.07	
18	0.49	1.01	0.77	0.46	0.40	1.33	0.77	7.84	0.88	0.49	0.19	0.07	
19	0.52	0.74	0.64	0.40	0.61	0.91	0.70	7.72	0.94	0.43	0.13	0.06	
20	0.52	0.64	0.55	0.37	0.40	1.01	0.64	16.06	0.84	0.43	0.10	0.06	
21	0.49	1.01	0.49	0.37	0.61	1.26	0.81	17.14	0.77	0.40	0.10	0.06	
22	0.52	0.77	0.43	0.61	0.58	1.71	0.64	11.15	0.77	0.37	0.10	0.06	
23	0.49	0.58	0.40	1.05	0.81	1.19	0.58	6.22	0.70	0.37	0.09	0.06	
24	0.52	0.43	0.34	1.80	3.46	1.01	0.55	4.30	0.67	0.37	0.10	0.06	
25	0.46	0.40	0.25	0.98	7.00	3.52	0.55	3.40	0.61	0.37	0.19	0.06	
26	0.43	0.43	0.22	0.55	1.90	4.24	1.33	2.35	0.58	0.34	0.25	0.06	
27	0.31	0.46	0.22	0.46	1.05	1.62	2.26	2.03	0.55	0.34	0.25	0.06	
28	0.28	0.94	0.22	0.40	1.37	1.54	3.29	1.76	0.55	0.31	0.22	0.06	
29	0.25	1.26	0.22	0.37	4.84	1.54	3.58	1.67	0.52	0.31	0.22	0.06	
30	0.25	1.80	0.19	0.34	12.58	1.40	1.99	1.40	0.49	0.37	0.25	0.08	
31		1.01		0.31	6.28		1.58		0.49	0.34		0.08	
Total	23.17	22.71	12.95	22.65	47.46	59.44	45.61	211.92	27.00	34.16	6.18	2.83	516.08 CMSDAY
Mean	0.77	0.73	0.43	0.73	1.53	1.98	1.47	7.06	0.87	1.10	0.22	0.09	1.41 CMS
Max	3.13	1.80	0.91	5.08	12.58	5.62	3.58	32.44	1.80	17.41	0.31	0.22	32.44 CMS
Min	0.25	0.34	0.19	0.19	0.22	0.91	0.55	0.77	0.49	0.31	0.09	0.06	0.06 CMS
Runoff	2.00	1.96	1.12	1.96	4.10	5.14	3.94	18.31	2.33	2.95	0.53	0.25	44.59 MCM
Momentary Peak	39.60 CMS. at 40.12 m. (MSL.) at 18.00 Hours , on Nov 6 , 2009												
Runoff Yield	18.85 Liters/Second/Square KM.			Momentary Peak Yield			528.000 Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.87	2.50	6.35	4.00	5.00	26.10	19.75	13.25	18.75	4.13	2.75	0.88		
2	2.00	3.50	6.35	3.13	5.00	27.80	15.00	9.60	18.75	4.13	2.75	0.88		
3	2.50	27.15	6.50	3.00	4.63	23.80	14.50	8.00	16.25	15.50	2.75	0.75		
4	2.50	29.96	6.65	3.00	6.35	20.50	13.75	16.00	15.25	6.65	2.63	0.62		
5	1.87	17.75	6.05	3.50	5.75	20.25	26.55	19.75	12.75	14.25	2.63	0.62		
6	1.25	18.75	5.30	2.87	5.90	27.05	26.75	109.00	10.60	6.50	2.63	0.50		
7	1.75	17.25	5.00	2.87	5.45	21.75	22.30	34.80	9.80	13.75	2.50	0.50		
8	3.75	12.00	4.88	3.13	8.20	17.75	28.00	26.10	9.60	7.10	2.50	0.37		
9	5.00	11.60	4.75	12.50	6.35	20.25	23.80	27.85	9.00	7.70	2.50	0.25		
10	8.60	14.00	4.75	16.50	5.45	15.00	20.00	22.00	8.40	5.60	2.50	0.12		
11	8.60	10.00	4.63	8.20	5.00	14.00	27.75	17.00	8.00	5.15	2.25	0.00		
12	6.05	9.00	3.75	133.00	5.00	12.75	22.90	16.75	7.85	5.00	2.00	0.00		
13	3.13	7.25	3.75	34.00	4.75	14.00	18.25	20.50	7.10	5.00	1.63	0.00		
14	3.75	10.60	3.75	27.80	4.63	12.00	16.50	18.25	7.10	4.75	1.12	0.00		
15	2.50	27.70	4.38	20.00	4.88	19.50	19.25	15.25	6.95	4.75	1.12	0.00		
16	8.00	23.50	8.20	15.25	7.25	13.50	11.40	13.00	6.80	2.87	1.00	0.00		
17	2.50	26.00	5.90	12.75	5.90	11.60	14.00	10.20	5.75	4.13	1.12	0.00		
18	3.25	27.90	5.00	13.25	5.30	10.40	13.25	27.70	6.35	4.00	0.88	0.00		
19	3.50	20.75	3.88	10.20	5.45	18.75	12.50	19.50	6.35	3.88	0.88	0.00		
20	3.50	15.00	3.75	8.80	4.75	24.40	16.50	24.10	6.35	3.75	0.75	0.00		
21	2.50	14.25	3.50	10.80	6.65	12.50	21.75	33.52	5.90	3.62	0.62	0.00		
22	2.50	11.40	3.13	16.75	5.00	10.60	13.50	33.36	5.75	3.62	0.62	0.00		
23	2.75	9.60	3.13	8.80	26.45	10.60	12.00	27.75	8.20	3.50	2.38	0.00		
24	3.25	8.60	3.00	9.40	53.00	11.00	10.60	28.00	5.00	3.25	1.50	0.00		
25	3.38	7.25	2.87	6.50	34.40	26.50	10.60	25.00	6.50	3.13	0.12	0.00		
26	3.13	22.00	2.75	6.65	27.65	26.60	27.30	17.50	5.60	3.00	1.87	0.00		
27	3.50	14.50	4.38	6.65	27.75	22.90	14.50	18.75	5.45	4.00	2.50	0.00		
28	3.75	8.00	5.30	6.35	27.65	17.25	21.50	16.75	4.38	3.25	1.12	0.00		
29	4.63	8.20	7.55	5.60	41.25	19.50	20.75	14.75	4.25	2.87	0.00	0.00		
30	2.75	8.40	3.62	5.90	27.15	17.75	11.40	12.75	4.13	2.87	0.00	0.00		
31		6.95		4.38	42.50		11.80		4.13	2.87		0.00		
Total	108.01	451.31	142.80	425.53	430.44	546.35	558.40	696.73	257.04	164.57	49.62	5.49	3836.29	CMSDAY
Mean	3.60	14.56	4.76	13.73	13.89	18.21	18.01	23.22	8.29	5.31	1.77	0.18	10.51	CMS
Max	8.60	29.96	8.20	133.00	53.00	27.80	28.00	109.00	18.75	15.50	2.75	0.88	133.00	CMS
Min	1.25	2.50	2.75	2.87	4.63	10.40	10.60	8.00	4.13	2.87	0.12	0.00	0.00	CMS
Runoff	9.33	38.99	12.34	36.77	37.19	47.21	48.25	60.20	22.21	14.22	4.29	0.47	331.46	MCM
Momentary Peak	240.00 CMS. at 5.20 m. (A.D.) at 18.00 Hours , on Jul 12, 2009													
Runoff Yield	65.38 Liters/Second/Square KM.						Momentary Peak Yield 493.002 Liters/Second/Square KM.							

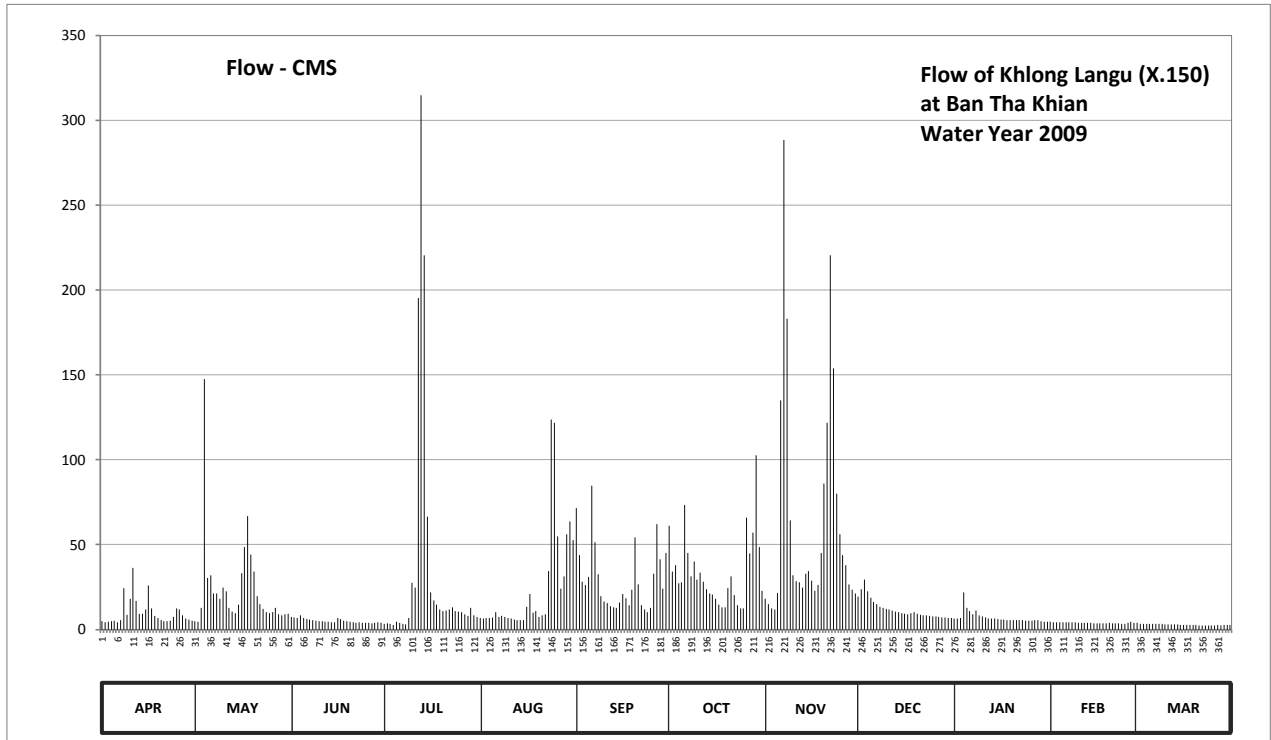
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Langu at Ban Tha Khian , Satun (X.150)
 Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Tha Khian.

	Ban	Tha Khian	Amphoe	Langu	Changwat	Satun
Drainage Area	480 sq.km.					
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5 meters from the top staff gage.				Elevation	+12.997 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 51 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.50	5.48	5.74	5.34	5.68	8.95	8.56	6.47	6.54	5.65	5.45	5.38	
2	5.43	5.47	5.70	5.35	5.66	7.80	7.31	6.28	6.79	5.65	5.44	5.34	
3	5.46	6.14	5.69	5.34	5.68	7.00	7.50	6.13	7.07	5.69	5.44	5.32	
4	5.50	11.14	5.83	5.28	5.68	6.91	6.96	6.08	6.71	6.67	5.44	5.33	
5	5.53	10.36	5.69	5.47	5.70	7.15	6.99	6.66	6.49	6.16	5.44	5.33	
6	5.43	7.19	5.62	5.38	5.99	9.43	9.01	10.90	6.36	6.02	5.44	5.33	
7	5.54	6.65	5.58	5.34	5.75	8.15	7.86	12.82	6.28	5.87	5.43	5.33	
8	6.82	6.64	5.54	5.31	5.80	7.23	7.16	11.69	6.20	6.04	5.43	5.33	
9	5.86	6.47	5.51	5.68	5.73	6.56	7.60	8.68	6.14	5.83	5.42	5.32	
10	6.47	6.83	5.50	6.98	5.69	6.37	7.07	7.20	6.11	5.76	5.41	5.31	
11	7.42	6.72	5.49	6.84	5.64	6.32	7.27	7.02	6.08	5.71	5.40	5.30	
12	6.39	6.16	5.46	11.84	5.59	6.21	7.00	6.99	6.04	5.66	5.39	5.29	
13	5.91	6.01	5.45	13.04	5.56	6.18	6.79	6.84	6.00	5.65	5.38	5.29	
14	5.90	5.92	5.43	12.14	5.54	6.15	6.65	7.25	5.97	5.64	5.38	5.29	
15	6.08	6.27	5.44	8.76	5.54	6.33	6.60	7.32	5.94	5.62	5.37	5.28	
16	6.89	7.26	5.69	6.68	6.20	6.62	6.46	7.04	5.91	5.59	5.37	5.27	
17	6.12	8.02	5.61	6.41	6.62	6.48	6.27	6.73	5.89	5.57	5.36	5.26	
18	5.80	8.78	5.52	6.27	5.95	6.25	6.18	6.92	5.92	5.56	5.36	5.26	
19	5.69	7.81	5.48	6.09	6.03	6.77	6.17	7.86	5.99	5.55	5.36	5.26	
20	5.56	7.31	5.45	6.03	5.75	8.28	6.82	9.47	5.91	5.56	5.40	5.26	
21	5.50	6.56	5.42	6.05	5.84	6.93	7.16	10.62	5.86	5.56	5.35	5.25	
22	5.50	6.28	5.41	6.08	5.87	6.24	6.58	12.14	5.83	5.54	5.37	5.25	
23	5.51	6.11	5.42	6.17	7.32	6.08	6.25	11.25	5.82	5.54	5.36	5.24	
24	5.75	5.99	5.41	6.03	10.66	5.97	6.12	9.25	5.79	5.53	5.34	5.24	
25	6.12	5.94	5.40	6.00	10.62	6.15	6.13	8.36	5.78	5.51	5.34	5.23	
26	6.09	5.99	5.38	5.97	8.30	7.24	8.74	7.80	5.76	5.51	5.38	5.24	
27	5.82	6.15	5.37	5.88	6.80	8.60	7.84	7.49	5.74	5.55	5.45	5.26	
28	5.66	5.89	5.39	5.79	7.17	7.66	8.40	6.93	5.72	5.56	5.40	5.25	
29	5.59	5.84	5.42	6.16	8.36	6.81	10.07	6.76	5.70	5.50		5.26	
30	5.52	5.88	5.39	5.82	8.66	7.86	8.02	6.65	5.68	5.47		5.26	
31		5.90		5.75	8.21		6.74		5.67	5.46		5.28	
Mean	5.88	6.75	5.51	6.62	6.57	7.02	7.23	8.12	6.05	5.68	5.40	5.29	
Max	7.42	11.14	5.83	13.04	10.66	9.43	10.07	12.82	7.07	6.67	5.45	5.38	13.04
Min	5.43	5.47	5.37	5.28	5.54	5.97	6.12	6.08	5.67	5.46	5.34	5.23	5.23
Annual Max Momentary Gage Height	13.12		m. (MSL.) ,					at 12.00 Hours , on Jul 13 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	4.38	m. (MSL)					
Left Bank Elevation	15.85		m. (MSL.) ,										
Right Bank Elevation	15.81		m. (MSL.) ,			Drainage Area	480	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.00	4.80	7.40	3.40	6.80	71.62	61.00	18.22	19.45	6.50	4.50	3.80	
2	4.30	4.70	7.00	3.50	6.60	44.00	34.20	14.90	23.82	6.50	4.40	3.40	
3	4.60	12.60	6.90	3.40	6.80	28.00	38.00	12.45	29.40	6.90	4.40	3.20	
4	5.00	147.70	8.37	2.80	6.80	26.20	27.20	11.70	22.42	21.72	4.40	3.30	
5	5.30	30.38	6.90	4.70	7.00	31.00	27.80	21.55	18.57	12.90	4.40	3.30	
6	4.30	31.80	6.20	3.80	10.37	84.83	73.27	135.00	16.30	10.80	4.40	3.30	
7	5.40	21.37	5.80	3.40	7.50	51.37	45.20	288.40	14.90	8.87	4.30	3.30	
8	24.40	21.20	5.40	3.10	8.00	32.60	31.20	183.20	13.50	11.10	4.30	3.30	
9	8.75	18.22	5.10	6.80	7.30	19.80	40.00	64.20	12.60	8.37	4.20	3.20	
10	18.22	24.60	5.00	27.60	6.90	16.47	29.40	32.00	12.15	7.60	4.10	3.10	
11	36.40	22.60	4.90	24.80	6.40	15.60	33.40	28.40	11.70	7.10	4.00	3.00	
12	16.82	12.90	4.60	195.20	5.90	13.68	28.00	27.80	11.10	6.60	3.90	2.90	
13	9.37	10.65	4.50	314.80	5.60	13.20	23.82	24.80	10.50	6.50	3.80	2.90	
14	9.25	9.50	4.30	220.60	5.40	12.75	21.37	33.00	10.12	6.40	3.80	2.90	
15	11.70	14.73	4.40	66.40	5.40	15.78	20.50	34.40	9.75	6.20	3.70	2.80	
16	25.80	33.20	6.90	21.90	13.50	20.85	18.05	28.80	9.37	5.90	3.70	2.70	
17	12.30	48.45	6.10	17.17	20.85	18.40	14.73	22.77	9.12	5.70	3.60	2.60	
18	8.00	66.95	5.20	14.73	9.87	14.38	13.20	26.40	9.50	5.60	3.60	2.60	
19	6.90	44.20	4.80	11.85	10.95	23.47	13.05	45.20	10.37	5.50	3.60	2.60	
20	5.60	34.20	4.50	10.95	7.50	54.30	24.40	85.93	9.37	5.60	4.00	2.60	
21	5.00	19.80	4.20	11.25	8.50	26.60	31.20	121.90	8.75	5.60	3.50	2.50	
22	5.00	14.90	4.10	11.70	8.87	14.20	20.15	220.60	8.37	5.40	3.70	2.50	
23	5.10	12.15	4.20	13.05	34.40	11.70	14.38	154.00	8.25	5.40	3.60	2.40	
24	7.50	10.37	4.10	10.95	123.70	10.12	12.30	79.87	7.90	5.30	3.40	2.40	
25	12.30	9.75	4.00	10.50	121.90	12.75	12.45	56.10	7.80	5.10	3.40	2.30	
26	11.85	10.37	3.80	10.12	54.75	32.80	65.85	44.00	7.60	5.10	3.80	2.40	
27	8.25	12.75	3.70	9.00	24.00	62.00	44.80	37.80	7.40	5.50	4.50	2.60	
28	6.60	9.12	3.90	7.90	31.40	41.20	57.00	26.60	7.20	5.60	4.00	2.50	
29	5.90	8.50	4.20	12.90	56.10	24.20	102.60	23.30	7.00	5.00		2.60	
30	5.20	9.00	3.90	8.25	63.65	45.20	48.45	21.37	6.80	4.70		2.60	
31		9.25		7.50	52.73		22.95		6.70	4.60		2.80	
Total	300.11	740.71	154.37	1074.02	745.44	889.07	1049.92	1924.66	367.78	219.66	111.00	88.40	7665.14 CMSDAY
Mean	10.00	23.89	5.15	34.65	24.05	29.64	33.87	64.16	11.86	7.09	3.96	2.85	21.00 CMS
Max	36.40	147.70	8.37	314.80	123.70	84.83	102.60	288.40	29.40	21.72	4.50	3.80	314.80 CMS
Min	4.30	4.70	3.70	2.80	5.40	10.12	12.30	11.70	6.70	4.60	3.40	2.30	2.30 CMS
Runoff	25.93	64.00	13.34	92.80	64.41	76.82	90.71	166.29	31.78	18.98	9.59	7.64	662.27 MCM
Momentary Peak	324.40 CMS. at 13.12 m. (MSL.) at 12.00 Hours , on Jul 13 , 2009												
Runoff Yield	43.73 Liters/Second/Square KM. Momentary Peak Yield 675.482 Liters/Second/Square KM.												

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Talat Kao , Phang Nga (X.186)

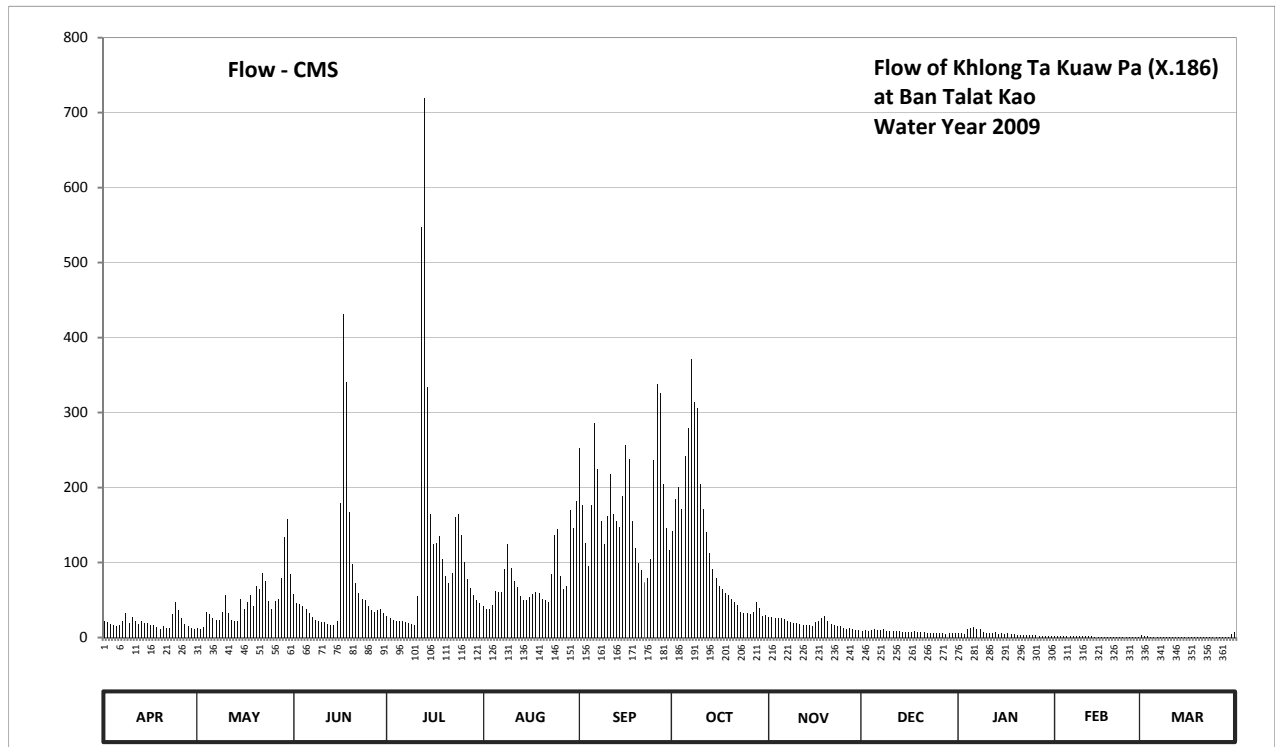
Lat 08 - 49 - 47 N Long 98 - 22 - 17 E

Location : on left bank at Ban Talat Kao.

	Ban	Talat Kao	Amphoe	Ta Kuaw Pa	Changwat	Phang Nga
Drainage Area	734	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+4.980 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2001 to March 31, 2002

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.19	-0.02	0.75	0.31	0.52	2.65	1.67	0.30	-0.10	-0.22	-0.33	-0.28	
2	0.18	-0.05	0.58	0.26	0.47	2.01	2.10	0.28	-0.08	-0.22	-0.33	-0.32	
3	0.13	0.01	0.56	0.23	0.47	1.51	2.25	0.27	-0.10	-0.23	-0.34	-0.34	
4	0.09	0.39	0.52	0.21	0.55	1.20	1.96	0.27	-0.09	-0.03	-0.34	-0.39	
5	0.05	0.36	0.47	0.20	0.82	2.02	2.58	0.27	-0.04	0.00	-0.35	-0.42	
6	0.10	0.27	0.37	0.21	0.80	2.89	2.84	0.24	-0.08	0.02	-0.35	-0.44	
7	0.19	0.22	0.29	0.17	0.80	2.45	3.45	0.20	-0.09	-0.05	-0.35	-0.44	
8	0.38	0.23	0.23	0.14	1.16	1.80	3.08	0.17	-0.06	-0.06	-0.36	-0.45	
9	0.15	0.40	0.19	0.12	1.50	1.50	3.03	0.14	-0.10	-0.14	-0.36	-0.45	
10	0.30	0.73	0.17	0.10	1.18	1.87	2.30	0.14	-0.11	-0.18	-0.36	-0.45	
11	0.21	0.38	0.17	0.71	0.99	2.40	1.97	0.11	-0.11	-0.21	-0.37	-0.45	
12	0.11	0.23	0.12	4.28	0.89	1.90	1.66	0.10	-0.12	-0.22	-0.38	-0.45	
13	0.20	0.20	0.09	4.93	0.72	1.80	1.37	0.08	-0.13	-0.16	-0.38	-0.46	
14	0.15	0.21	0.08	3.21	0.64	1.72	1.17	0.08	-0.15	-0.23	-0.39	-0.46	
15	0.15	0.67	0.19	1.90	0.64	2.14	1.03	0.07	-0.16	-0.21	-0.40	-0.46	
16	0.10	0.46	2.04	1.50	0.70	2.68	0.91	0.17	-0.17	-0.23	-0.41	-0.47	
17	0.08	0.61	3.77	1.51	0.76	2.55	0.85	0.20	-0.17	-0.22	-0.42	-0.47	
18	0.01	0.74	3.26	1.60	0.80	1.81	0.78	0.27	-0.12	-0.24	-0.43	-0.47	
19	-0.04	0.52	1.93	1.29	0.78	1.44	0.74	0.31	-0.16	-0.27	-0.43	-0.47	
20	0.07	0.90	1.23	1.07	0.66	1.24	0.66	0.21	-0.17	-0.29	-0.43	-0.48	
21	-0.02	0.86	0.95	0.96	0.64	1.15	0.60	0.11	-0.17	-0.30	-0.43	-0.48	
22	-0.01	1.11	0.77	1.11	0.61	0.97	0.54	0.08	-0.19	-0.30	-0.43	-0.48	
23	0.35	1.00	0.67	1.85	1.10	1.03	0.40	0.06	-0.19	-0.30	-0.43	-0.48	
24	0.60	0.63	0.65	1.90	1.62	1.30	0.38	0.05	-0.20	-0.30	-0.44	-0.48	
25	0.45	0.47	0.53	1.62	1.69	2.54	0.38	-0.01	-0.22	-0.31	-0.43	-0.48	
26	0.26	0.62	0.45	1.25	1.06	3.24	0.36	-0.03	-0.22	-0.31	-0.44	-0.48	
27	0.12	0.66	0.40	1.02	0.86	3.16	0.40	-0.01	-0.22	-0.32	-0.44	-0.48	
28	0.04	1.04	0.44	0.87	0.90	2.30	0.61	-0.04	-0.23	-0.32	-0.43	-0.48	
29	-0.01	1.59	0.47	0.74	1.95	1.71	0.48	-0.07	-0.21	-0.32	-0.43	-0.48	
30	-0.03	1.83	0.37	0.65	1.71	1.41	0.32	-0.09	-0.22	-0.32	-0.43	-0.48	
31		1.10		0.58	2.07		0.34		-0.22	-0.32	-0.43	-0.48	
Mean	0.15	0.59	0.76	1.18	0.97	1.95	1.33	0.13	-0.15	-0.22	-0.39	-0.43	
Max	0.60	1.83	3.77	4.93	2.07	3.24	3.45	0.31	-0.04	0.02	-0.33	-0.15	4.93
Min	-0.04	-0.05	0.08	0.10	0.47	0.97	0.32	-0.09	-0.23	-0.32	-0.44	-0.48	-0.48
Annual Max Momentary Gage Height	5.40	m. (MSL.) , at 03.00 Hours , on Jul 13 , 2009											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed -0.96 m. (MSL)											
Left Bank Elevation	5.79	m. (MSL.) ,											
Right Bank Elevation	5.82	m. (MSL.) , Drainage Area 734 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.50	12.20	57.50	28.60	41.40	252.00	142.00	28.00	9.00	5.40	2.40	3.60	
2	21.00	11.00	45.60	25.60	38.20	176.00	185.00	26.80	9.80	5.40	2.40	2.60	
3	18.50	13.40	44.20	23.80	38.20	126.00	200.00	26.20	9.00	5.10	2.20	2.20	
4	16.60	33.40	41.40	22.60	43.50	95.00	171.00	26.20	9.40	11.80	2.20	1.20	
5	15.00	31.60	38.20	22.00	62.40	177.00	242.20	26.20	11.40	13.00	2.00	0.80	
6	17.00	26.20	32.20	22.60	61.00	285.60	278.60	24.40	9.80	13.80	2.00	0.60	
7	21.50	23.20	27.40	20.50	61.00	224.50	371.50	22.00	9.40	11.00	2.00	0.60	
8	32.80	23.80	23.80	19.00	91.00	155.00	314.00	20.50	10.60	10.60	1.80	0.50	
9	19.50	34.00	21.50	18.00	125.00	125.00	306.50	19.00	9.00	7.80	1.80	0.50	
10	28.00	56.10	20.50	17.00	93.00	162.00	205.00	19.00	8.70	6.60	1.80	0.50	
11	22.60	32.80	20.50	54.70	75.20	218.00	172.00	17.50	8.70	5.70	1.60	0.50	
12	17.50	23.80	18.00	547.40	67.30	165.00	141.00	17.00	8.40	5.40	1.40	0.50	
13	22.00	22.00	16.60	719.00	55.40	155.00	112.00	16.20	8.10	7.20	1.40	0.40	
14	19.50	22.60	16.20	333.50	49.80	147.00	92.00	16.20	7.50	5.10	1.20	0.40	
15	19.50	51.90	21.50	165.00	49.80	189.00	78.70	15.80	7.20	5.70	1.00	0.40	
16	17.00	37.60	179.00	125.00	54.00	256.20	68.80	20.50	6.90	5.10	0.90	0.30	
17	16.20	47.70	431.00	126.00	58.20	238.00	64.50	22.00	6.90	5.40	0.80	0.30	
18	13.40	56.80	341.00	135.00	61.00	156.00	59.60	26.20	8.40	4.80	0.70	0.30	
19	11.40	41.40	168.00	104.00	59.60	119.00	56.80	28.60	7.20	3.90	0.70	0.30	
20	15.80	68.00	98.00	82.30	51.20	99.00	51.20	22.60	6.90	3.30	0.70	0.20	
21	12.20	65.20	72.00	72.80	49.80	90.00	47.00	17.50	6.90	3.00	0.70	0.20	
22	12.60	86.00	58.90	86.00	47.70	73.60	42.80	16.20	6.30	3.00	0.70	0.20	
23	31.00	76.00	51.90	160.00	85.00	78.70	34.00	15.40	6.30	3.00	0.70	0.20	
24	47.00	49.10	50.50	165.00	137.00	105.00	32.80	15.00	6.00	3.00	0.60	0.20	
25	37.00	38.20	42.10	137.00	144.00	236.60	32.80	12.60	5.40	2.80	0.70	0.20	
26	25.60	48.40	37.00	100.00	81.40	338.00	31.60	11.80	5.40	2.80	0.60	0.20	
27	18.00	51.20	34.00	77.80	65.20	326.00	34.00	12.60	5.40	2.60	0.60	0.20	
28	14.60	79.60	36.40	65.90	68.00	205.00	47.70	11.40	5.10	2.60	0.70	0.20	
29	12.60	134.00	38.20	56.80	170.00	146.00	38.80	10.20	5.70	2.60		0.20	
30	11.80	158.00	32.20	50.50	146.00	116.00	29.20	9.40	5.40	2.60		4.20	
31		85.00		45.60	182.00		30.40		5.40	2.60		7.50	
Total	608.70	1540.20	2115.30	3629.00	2412.30	5235.20	3713.50	573.00	235.60	172.70	36.30	30.20	20302.00 CMSDAY
Mean	20.29	49.68	70.51	117.06	77.82	174.51	119.79	19.10	7.60	5.57	1.30	0.97	55.62 CMS
Max	47.00	158.00	431.00	719.00	182.00	338.00	371.50	28.60	11.40	13.80	2.40	7.50	719.00 CMS
Min	11.40	11.00	16.20	17.00	38.20	73.60	29.20	9.40	5.10	2.60	0.60	0.20	0.20 CMS
Runoff	52.59	133.07	182.76	313.55	208.42	452.32	320.85	49.51	20.36	14.92	3.14	2.61	1754.09 MCM
Momentary Peak	880.00 CMS. at 5.40 m. (MSL.) at 03.00 Hours , on Jul 13 , 2009												
Runoff Yield	75.78 Liters/Second/Square KM.			Momentary Peak Yield			1198.910 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST

Khlong Rommanee at Ban Rommanee , Phang Nga (X.188A)

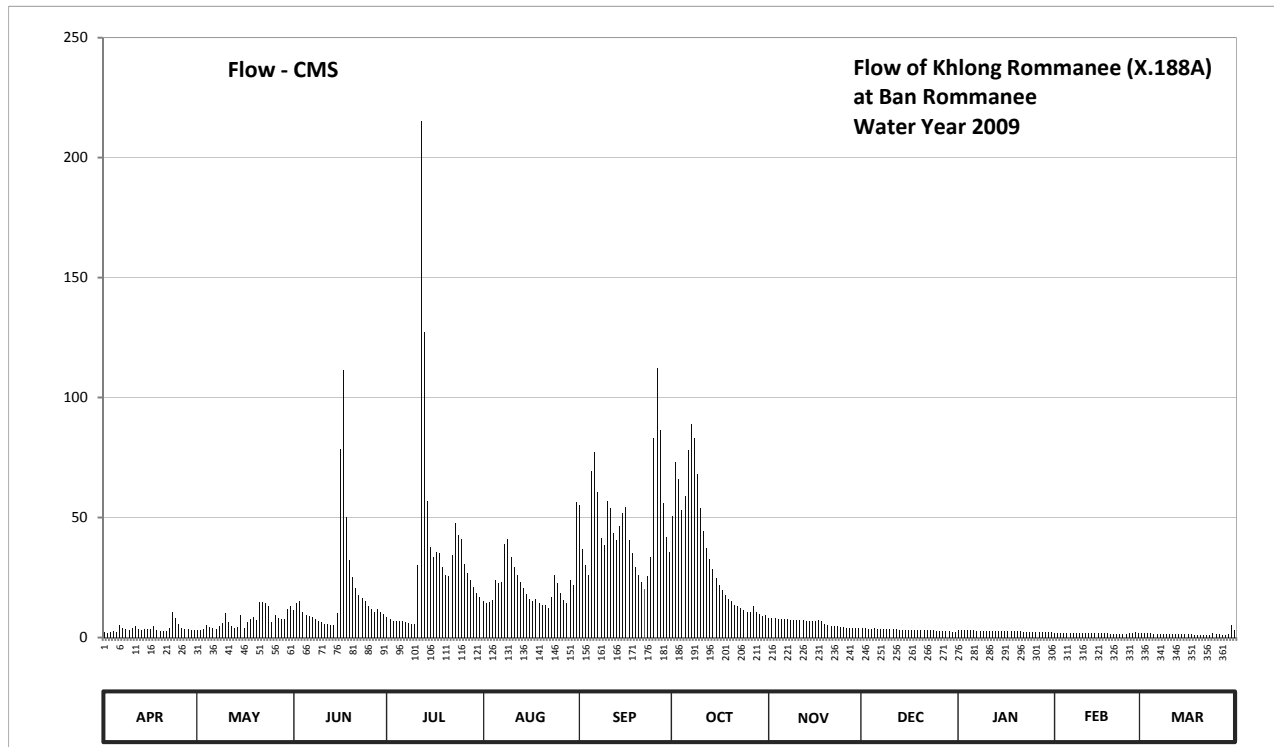
Lat 08 - 45 - 50 N Long 98 - 27 - 35 E

Location : on left bank at the bridge.

	Ban Rommanee	Amphoe Kapong	Changwat Phang Nga
Drainage Area	232	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.		Elevation +18.740 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +18.640 m.(MSL.) and is including overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.62	13.70	14.21	14.08	14.37	15.58	15.47	14.06	13.78	13.70	13.60	13.60	
2	13.60	13.69	14.33	14.03	14.33	15.10	16.00	14.05	13.78	13.70	13.60	13.60	
3	13.63	13.77	14.37	14.00	14.35	14.88	15.84	14.05	13.77	13.70	13.59	13.58	
4	13.68	13.88	14.19	14.00	14.39	14.74	15.53	14.04	13.77	13.69	13.59	13.57	
5	13.63	13.83	14.11	13.99	14.67	15.92	15.67	14.04	13.80	13.69	13.59	13.56	
6	13.89	13.79	14.09	13.98	14.62	16.09	16.11	14.03	13.77	13.69	13.58	13.55	
7	13.78	13.76	14.07	13.95	14.63	15.72	16.34	14.03	13.75	13.68	13.58	13.55	
8	13.74	13.84	14.04	13.94	15.16	15.24	16.22	14.02	13.75	13.68	13.59	13.55	
9	13.70	13.94	14.00	13.91	15.23	15.15	15.89	14.02	13.74	13.68	13.59	13.55	
10	13.78	14.17	13.97	13.90	14.98	15.62	15.55	14.01	13.74	13.68	13.59	13.55	
11	13.84	13.96	13.92	14.87	14.84	15.55	15.31	14.01	13.73	13.68	13.59	13.55	
12	13.73	13.84	13.90	18.42	14.74	15.29	15.11	14.01	13.73	13.68	13.59	13.55	
13	13.69	13.79	13.87	17.06	14.63	15.22	14.95	14.00	13.70	13.66	13.59	13.55	
14	13.73	13.82	13.88	15.62	14.55	15.36	14.81	14.00	13.70	13.66	13.59	13.54	
15	13.77	14.11	14.17	15.12	14.47	15.50	14.69	14.00	13.70	13.66	13.58	13.53	
16	13.77	13.81	16.12	14.98	14.40	15.56	14.60	14.00	13.70	13.66	13.58	13.53	
17	13.84	13.97	16.77	15.06	14.37	15.22	14.52	14.01	13.69	13.65	13.57	13.53	
18	13.72	14.03	15.46	15.04	14.40	15.04	14.46	14.00	13.69	13.65	13.57	13.52	
19	13.68	14.07	14.94	14.85	14.33	14.85	14.40	13.90	13.69	13.65	13.56	13.52	
20	13.67	14.02	14.71	14.73	14.30	14.73	14.36	13.88	13.69	13.65	13.56	13.52	
21	13.68	14.35	14.56	14.72	14.31	14.63	14.31	13.86	13.69	13.65	13.56	13.52	
22	13.78	14.35	14.46	15.01	14.25	14.54	14.29	13.85	13.69	13.64	13.56	13.52	
23	14.19	14.34	14.42	15.39	14.43	14.72	14.25	13.84	13.69	13.64	13.55	13.52	
24	14.06	14.28	14.36	15.27	14.74	14.99	14.21	13.83	13.69	13.64	13.55	13.57	
25	13.90	13.95	14.29	15.23	14.62	16.22	14.19	13.82	13.68	13.64	13.57	13.56	
26	13.81	14.12	14.23	14.89	14.48	16.79	14.19	13.81	13.68	13.64	13.57	13.53	
27	13.76	14.05	14.19	14.76	14.38	16.29	14.28	13.81	13.68	13.64	13.62	13.52	
28	13.73	14.04	14.23	14.66	14.33	15.60	14.18	13.81	13.67	13.63	13.59	13.52	
29	13.70	14.03	14.19	14.57	14.67	15.25	14.13	13.80	13.65	13.63		13.54	
30	13.70	14.23	14.13	14.49	14.60	15.06	14.10	13.80	13.64	13.63		13.88	
31		14.28		14.43	15.61		14.12		13.64	13.63		13.71	
Mean	13.76	13.99	14.41	14.80	14.59	15.35	14.91	13.95	13.71	13.66	13.58	13.56	
Max	14.19	14.35	16.77	18.42	15.61	16.79	16.34	14.06	13.80	13.70	13.62	13.88	18.42
Min	13.60	13.69	13.87	13.90	14.25	14.54	14.10	13.80	13.64	13.63	13.55	13.52	13.52
Annual Max Momentary Gage Height	19.10		m. (MSL.) ,				at 18.00 Hours , on Jul 12 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	12.84	m. (MSL)					
Left Bank Elevation		18.63		m. (MSL.) ,									
Right Bank Elevation		18.64		m. (MSL.) ,		Drainage Area	232	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.20	3.00	11.25	8.60	15.25	55.20	50.80	8.20	3.80	3.00	2.00	2.00		
2	2.00	2.90	14.25	7.60	14.25	37.00	73.00	8.00	3.80	3.00	2.00	2.00		
3	2.30	3.70	15.25	7.00	14.75	30.40	65.80	8.00	3.70	3.00	1.90	1.80		
4	2.80	5.20	10.80	7.00	15.75	26.20	53.20	7.80	3.70	2.90	1.90	1.70		
5	2.30	4.45	9.20	6.85	24.10	69.40	58.80	7.80	4.00	2.90	1.90	1.60		
6	5.35	3.90	8.80	6.70	22.60	77.05	77.95	7.60	3.70	2.90	1.80	1.50		
7	3.80	3.60	8.40	6.25	22.90	60.80	89.00	7.60	3.50	2.80	1.80	1.50		
8	3.40	4.60	7.80	6.10	38.80	41.60	83.00	7.40	3.50	2.80	1.90	1.50		
9	3.00	6.10	7.00	5.65	41.20	38.50	68.05	7.40	3.40	2.80	1.90	1.50		
10	3.80	10.40	6.55	5.50	33.40	56.80	54.00	7.20	3.40	2.80	1.90	1.50		
11	4.60	6.40	5.80	30.10	29.20	54.00	44.40	7.20	3.30	2.80	1.90	1.50		
12	3.30	4.60	5.50	215.40	26.20	43.60	37.30	7.20	3.30	2.80	1.90	1.50		
13	2.90	3.90	5.05	127.30	22.90	40.80	32.50	7.00	3.00	2.60	1.90	1.50		
14	3.30	4.30	5.20	56.80	20.50	46.40	28.30	7.00	3.00	2.60	1.90	1.40		
15	3.70	9.20	10.40	37.60	18.10	52.00	24.70	7.00	3.00	2.60	1.80	1.30		
16	3.70	4.15	78.40	33.40	16.00	54.40	22.00	7.00	3.00	2.60	1.80	1.30		
17	4.60	6.55	111.35	35.80	15.25	40.80	19.60	7.20	2.90	2.50	1.70	1.30		
18	3.20	7.60	50.40	35.20	16.00	35.20	17.80	7.00	2.90	2.50	1.70	1.20		
19	2.80	8.40	32.20	29.50	14.25	29.50	16.00	5.50	2.90	2.50	1.60	1.20		
20	2.70	7.40	25.30	25.90	13.50	25.90	15.00	5.20	2.90	2.50	1.60	1.20		
21	2.80	14.75	20.80	25.60	13.75	22.90	13.75	4.90	2.90	2.50	1.60	1.20		
22	3.80	14.75	17.80	34.30	12.25	20.20	13.25	4.75	2.90	2.40	1.60	1.20		
23	10.80	14.50	16.60	47.60	16.90	25.60	12.25	4.60	2.90	2.40	1.50	1.20		
24	8.20	13.00	15.00	42.80	26.20	33.70	11.25	4.45	2.90	2.40	1.50	1.70		
25	5.50	6.25	13.25	41.20	22.60	83.00	10.80	4.30	2.80	2.40	1.70	1.60		
26	4.15	9.40	11.75	30.70	18.40	112.45	10.80	4.15	2.80	2.40	1.70	1.30		
27	3.60	8.00	10.80	26.80	15.50	86.50	13.00	4.15	2.80	2.40	2.20	1.20		
28	3.30	7.80	11.75	23.80	14.25	56.00	10.60	4.15	2.70	2.30	1.90	1.20		
29	3.00	7.60	10.80	21.10	24.10	42.00	9.60	4.00	2.50	2.30		1.40		
30	3.00	11.75	9.60	18.70	22.00	35.80	9.00	4.00	2.40	2.30		5.20		
31		13.00		16.90	56.40		9.40		2.40	2.30		3.10		
Total	113.90	231.15	567.05	1023.75	677.25	1433.70	1054.90	187.75	96.70	81.00	50.50	50.30	5567.95	CMSDAY
Mean	3.80	7.46	18.90	33.02	21.85	47.79	34.03	6.26	3.12	2.61	1.80	1.62	15.25	CMS
Max	10.80	14.75	111.35	215.40	56.40	112.45	89.00	8.20	4.00	3.00	2.20	5.20	215.40	CMS
Min	2.00	2.90	5.05	5.50	12.25	20.20	9.00	4.00	2.40	2.30	1.50	1.20	1.20	CMS
Runoff	9.84	19.97	48.99	88.45	58.51	123.87	91.14	16.22	8.36	7.00	4.36	4.35	481.07	MCM
Momentary Peak	266.00 CMS. at 19.10 m. (MSL) at 18.00 Hours , on Jul 12 , 2009													
Runoff Yield	65.67 Liters/Second/Square KM.			Momentary Peak Yield				1145.071 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)

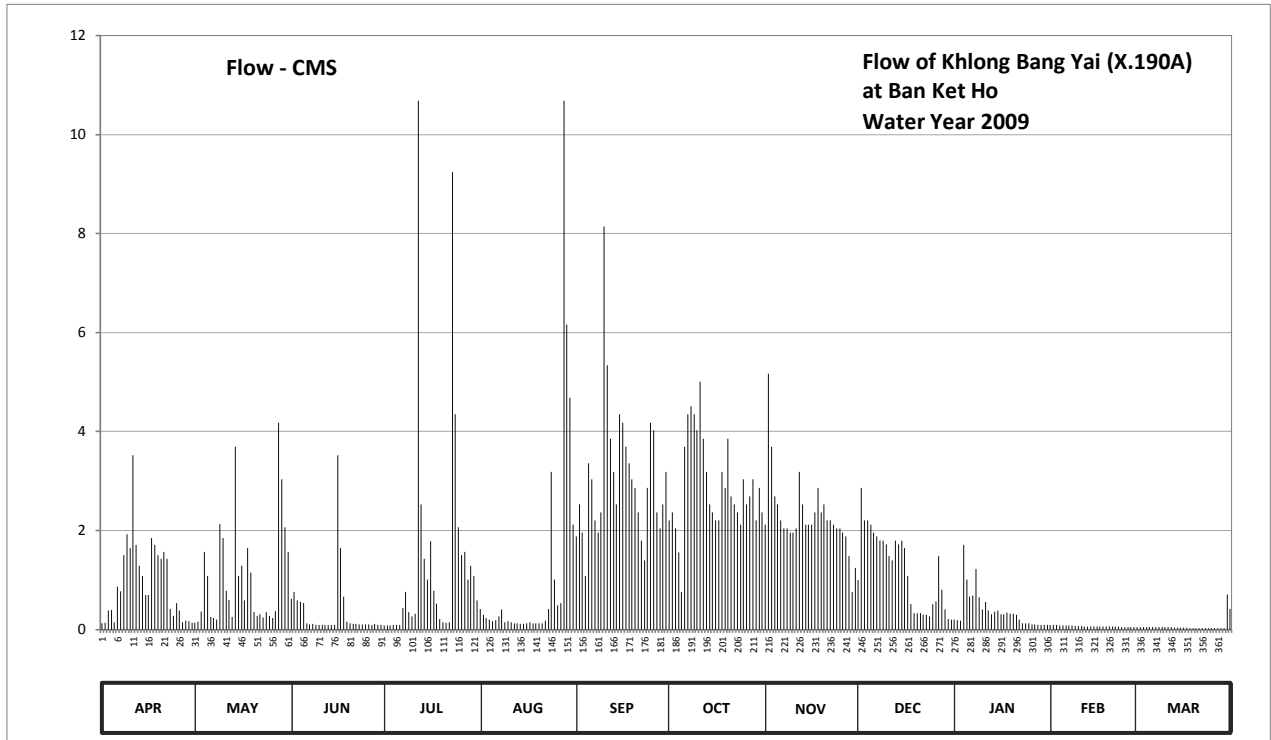
Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

Location : on left bank at Ban Ket Ho.

	Ban Ket Ho	Amphoe Kathu	Changwat Phuket
Drainage Area	28	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+17.360 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 means of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.33	14.37	14.88	14.26	14.72	15.16	15.20	15.19	15.05	14.46	14.27	14.21	
2	14.38	14.41	14.97	14.26	14.60	15.22	15.21	15.38	15.24	14.45	14.27	14.21	
3	14.68	14.66	14.86	14.26	14.50	15.17	15.18	15.29	15.20	14.44	14.27	14.21	
4	14.69	15.11	14.84	14.27	14.47	15.06	15.12	15.23	15.20	15.13	14.26	14.21	
5	14.39	15.04	14.82	14.27	14.43	15.27	15.02	15.22	15.19	15.03	14.26	14.21	
6	15.01	14.53	14.36	14.27	14.45	15.25	15.29	15.20	15.17	14.91	14.26	14.21	
7	14.98	14.51	14.30	14.74	14.55	15.20	15.33	15.18	15.16	14.92	14.25	14.21	
8	15.10	14.46	14.31	14.97	14.70	15.17	15.34	15.18	15.15	15.06	14.25	14.21	
9	15.16	15.19	14.28	14.65	14.39	15.21	15.33	15.17	15.15	14.90	14.24	14.20	
10	15.12	15.15	14.28	14.55	14.42	15.52	15.31	15.17	15.14	14.71	14.24	14.20	
11	15.28	14.99	14.28	14.62	14.39	15.39	15.37	15.18	15.11	14.84	14.24	14.20	
12	15.13	14.87	14.27	15.63	14.36	15.30	15.30	15.26	15.10	14.68	14.23	14.20	
13	15.07	14.53	14.27	15.22	14.34	15.26	15.26	15.22	15.15	14.61	14.23	14.19	
14	15.04	15.29	14.27	15.09	14.32	15.22	15.22	15.19	15.14	14.66	14.23	14.19	
15	14.93	15.04	14.28	15.03	14.32	15.33	15.21	15.19	15.15	14.68	14.22	14.19	
16	14.93	15.07	15.28	15.14	14.33	15.32	15.20	15.19	15.13	14.61	14.22	14.18	
17	15.15	14.86	15.12	14.99	14.39	15.29	15.20	15.21	15.06	14.61	14.22	14.18	
18	15.13	15.12	14.91	14.81	14.33	15.27	15.26	15.24	14.97	14.64	14.22	14.17	
19	15.10	15.05	14.41	14.48	14.35	15.25	15.24	15.21	14.91	14.62	14.22	14.17	
20	15.09	14.65	14.33	14.40	14.35	15.24	15.30	15.22	14.91	14.62	14.22	14.17	
21	15.11	14.57	14.31	14.37	14.35	15.21	15.23	15.20	14.91	14.60	14.22	14.17	
22	15.09	14.61	14.31	14.40	14.44	15.15	15.22	15.20	14.90	14.46	14.22	14.17	
23	14.72	14.52	14.30	15.57	14.72	15.10	15.21	15.19	14.90	14.35	14.22	14.17	
24	14.57	14.65	14.30	15.33	15.26	15.24	15.19	15.18	14.89	14.35	14.21	14.17	
25	14.82	14.57	14.29	15.18	15.03	15.32	15.25	15.18	14.97	14.35	14.21	14.17	
26	14.68	14.51	14.29	15.10	14.79	15.31	15.22	15.17	14.99	14.29	14.21	14.17	
27	14.39	14.67	14.28	15.11	14.82	15.21	15.23	15.16	15.11	14.29	14.21	14.17	
28	14.44	15.32	14.32	15.03	15.63	15.18	15.25	15.11	15.00	14.28	14.21	14.17	
29	14.42	15.25	14.28	15.07	15.43	15.22	15.20	15.02	14.71	14.28		14.17	
30	14.37	15.18	14.27	15.04	15.35	15.26	15.24	15.08	14.48	14.28		14.94	
31		15.11		14.86	15.19		15.21		14.47	14.27		14.72	
Mean	14.84	14.83	14.48	14.81	14.64	15.24	15.24	15.19	15.02	14.59	14.23	14.23	
Max	15.28	15.32	15.28	15.63	15.63	15.52	15.37	15.38	15.24	15.13	14.27	14.94	15.63
Min	14.33	14.37	14.27	14.26	14.32	15.06	15.02	15.02	14.47	14.27	14.21	14.17	14.17
Annual Max Momentary Gage Height	16.20	m. (MSL.) , at 18.00 Hours , on Aug 28 , 2009											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed 13.99 m. (MSL)											
Left Bank Elevation		17.27	m. (MSL.) ,										
Right Bank Elevation		17.24	m. (MSL.) , Drainage Area 28 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.14	0.62	0.08	0.42	1.88	2.20	2.12	1.00	0.20	0.09	0.05	
2	0.14	0.16	0.76	0.08	0.30	2.53	2.37	5.17	2.86	0.19	0.09	0.05	
3	0.38	0.36	0.59	0.08	0.23	1.96	2.04	3.69	2.20	0.18	0.09	0.05	
4	0.39	1.57	0.56	0.09	0.20	1.08	1.56	2.69	2.20	1.71	0.08	0.05	
5	0.15	1.08	0.53	0.09	0.17	3.36	0.76	2.53	2.12	1.01	0.08	0.05	
6	0.87	0.25	0.13	0.09	0.19	3.03	3.69	2.20	1.96	0.66	0.08	0.05	
7	0.77	0.23	0.10	0.44	0.26	2.20	4.35	2.04	1.88	0.68	0.08	0.05	
8	1.50	0.20	0.11	0.76	0.40	1.96	4.51	2.04	1.80	1.22	0.08	0.05	
9	1.92	2.13	0.09	0.35	0.15	2.37	4.35	1.96	1.80	0.65	0.07	0.05	
10	1.64	1.85	0.09	0.26	0.17	8.14	4.02	1.96	1.72	0.41	0.07	0.05	
11	3.52	0.78	0.09	0.32	0.15	5.34	5.01	2.04	1.48	0.56	0.07	0.05	
12	1.71	0.60	0.09	10.68	0.13	3.85	3.85	3.19	1.40	0.38	0.06	0.05	
13	1.29	0.25	0.09	2.53	0.12	3.19	3.19	2.53	1.80	0.31	0.06	0.04	
14	1.08	3.69	0.09	1.43	0.11	2.53	2.53	2.12	1.72	0.36	0.06	0.04	
15	0.70	1.08	0.09	1.01	0.11	4.35	2.37	2.12	1.80	0.38	0.06	0.04	
16	0.70	1.29	3.52	1.78	0.12	4.18	2.20	2.12	1.64	0.31	0.06	0.04	
17	1.85	0.59	1.64	0.78	0.15	3.69	2.20	2.37	1.08	0.31	0.06	0.04	
18	1.71	1.64	0.66	0.52	0.12	3.36	3.19	2.86	0.51	0.34	0.06	0.03	
19	1.50	1.15	0.16	0.21	0.13	3.03	2.86	2.37	0.33	0.32	0.06	0.03	
20	1.43	0.35	0.12	0.15	0.13	2.86	3.85	2.53	0.33	0.32	0.06	0.03	
21	1.57	0.28	0.11	0.14	0.13	2.37	2.69	2.20	0.33	0.30	0.06	0.03	
22	1.43	0.31	0.11	0.15	0.18	1.80	2.53	2.20	0.30	0.20	0.06	0.03	
23	0.42	0.24	0.10	9.24	0.42	1.40	2.37	2.12	0.30	0.13	0.06	0.03	
24	0.28	0.35	0.10	4.35	3.19	2.86	2.12	2.04	0.27	0.13	0.05	0.03	
25	0.53	0.28	0.10	2.06	1.01	4.18	3.03	2.04	0.51	0.13	0.05	0.03	
26	0.38	0.23	0.10	1.50	0.49	4.02	2.53	1.96	0.57	0.10	0.05	0.03	
27	0.15	0.37	0.09	1.57	0.53	2.37	2.69	1.88	1.48	0.10	0.05	0.03	
28	0.18	4.18	0.11	1.01	10.68	2.04	3.03	1.48	0.80	0.09	0.05	0.03	
29	0.17	3.03	0.09	1.29	6.16	2.53	2.20	0.76	0.41	0.09	0.05	0.03	
30	0.14	2.06	0.09	1.08	4.68	3.19	2.86	1.24	0.21	0.09	0.05	0.03	
31		1.57		0.59	2.12		2.37		0.20	0.09		0.42	
Total	28.62	32.29	11.13	44.71	33.35	91.65	89.52	68.57	37.01	11.95	1.85	2.29	452.94 CMSDAY
Mean	0.95	1.04	0.37	1.44	1.08	3.06	2.89	2.29	1.19	0.39	0.07	0.07	1.24 CMS
Max	3.52	4.18	3.52	10.68	10.68	8.14	5.01	5.17	2.86	1.71	0.09	0.71	10.68 CMS
Min	0.12	0.14	0.09	0.08	0.11	1.08	0.76	0.76	0.20	0.09	0.05	0.03	0.03 CMS
Runoff	2.47	2.79	0.96	3.86	2.88	7.92	7.74	5.92	3.20	1.03	0.16	0.20	39.13 MCM
Momentary Peak	28.00 CMS. at 16.20 m. (MSL.) at 18.00 Hours , on Aug 28 , 2009												
Runoff Yield	42.91 Liters/Second/Square KM.			Momentary Peak Yield			968.188 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST

Khlong Bang Yai at Satree Phuket School , Phuket (X.191)

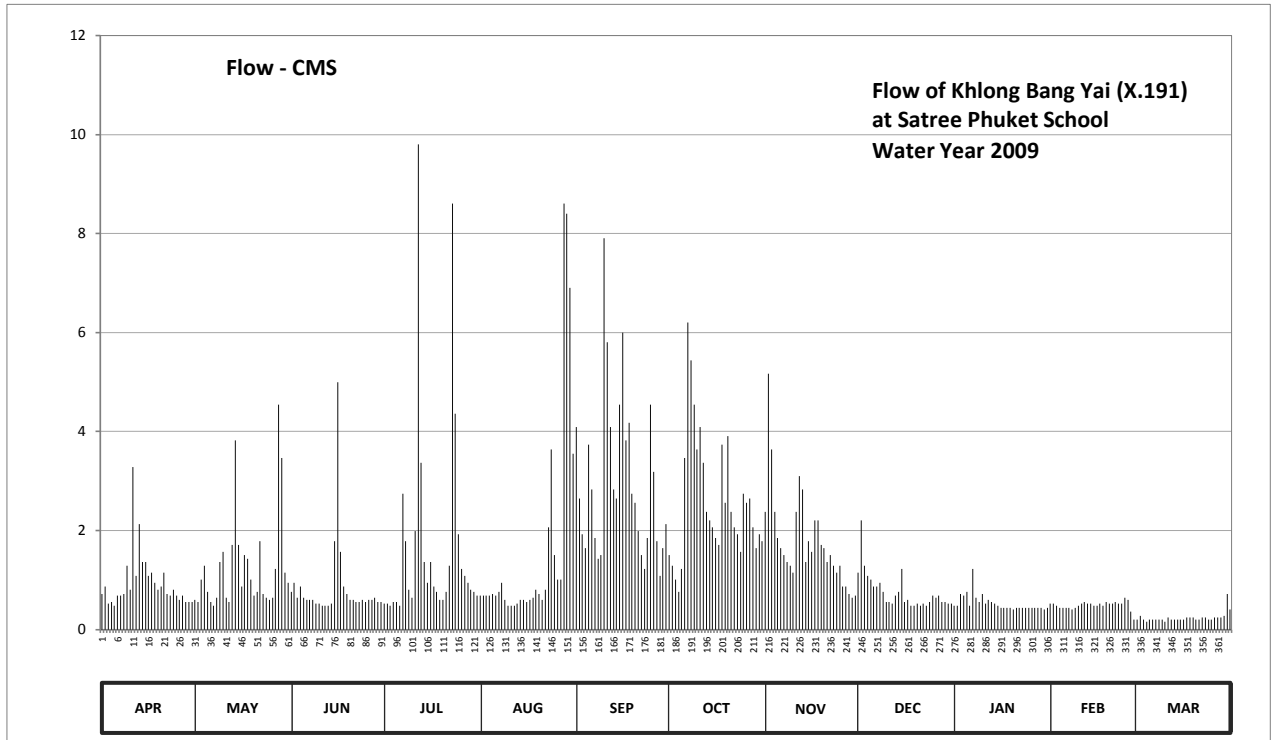
Lat 07 - 53 - 20 N Long 98 - 23 - 40 E

Location : on left bank at Satree Phuket School.

	Ban -	Amphoe Mueang	Changwat Phuket
Drainage Area	54	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 8 meters from the top staff gage.		Elevation +4.964 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.58	1.55	1.59	1.53	1.57	2.01	1.70	1.82	1.65	1.52	1.53	1.45	
2	1.61	1.54	1.62	1.53	1.57	1.85	1.67	2.13	1.80	1.52	1.53	1.47	
3	1.53	1.63	1.56	1.52	1.57	1.76	1.63	1.96	1.67	1.58	1.52	1.45	
4	1.54	1.67	1.61	1.54	1.57	1.72	1.59	1.82	1.64	1.57	1.51	1.44	
5	1.52	1.59	1.56	1.54	1.58	1.97	1.66	1.75	1.63	1.59	1.51	1.45	
6	1.57	1.54	1.55	1.52	1.57	1.87	1.94	1.72	1.61	1.52	1.51	1.45	
7	1.57	1.52	1.55	1.86	1.59	1.75	2.24	1.70	1.61	1.66	1.51	1.45	
8	1.58	1.56	1.55	1.74	1.62	1.69	2.16	1.68	1.62	1.56	1.50	1.45	
9	1.67	1.68	1.53	1.60	1.55	1.70	2.06	1.67	1.59	1.54	1.51	1.45	
10	1.60	1.71	1.53	1.56	1.52	2.41	1.96	1.65	1.54	1.58	1.52	1.44	
11	1.92	1.56	1.52	1.77	1.52	2.20	2.01	1.82	1.54	1.53	1.53	1.46	
12	1.64	1.54	1.52	2.60	1.52	2.01	1.93	1.90	1.53	1.55	1.54	1.45	
13	1.79	1.73	1.52	1.93	1.53	1.87	1.82	1.87	1.57	1.54	1.53	1.45	
14	1.68	1.98	1.53	1.68	1.55	1.85	1.80	1.68	1.59	1.53	1.53	1.45	
15	1.68	1.73	1.74	1.62	1.55	2.06	1.78	1.74	1.66	1.52	1.52	1.45	
16	1.64	1.61	2.11	1.68	1.54	2.22	1.75	1.71	1.54	1.51	1.52	1.45	
17	1.65	1.70	1.71	1.61	1.55	1.98	1.73	1.80	1.55	1.51	1.53	1.46	
18	1.62	1.69	1.61	1.59	1.56	2.02	1.97	1.80	1.52	1.51	1.52	1.46	
19	1.60	1.63	1.58	1.55	1.60	1.86	1.84	1.73	1.52	1.51	1.54	1.46	
20	1.61	1.57	1.55	1.55	1.58	1.84	1.99	1.72	1.53	1.50	1.53	1.45	
21	1.65	1.59	1.55	1.59	1.55	1.77	1.82	1.68	1.52	1.51	1.53	1.45	
22	1.58	1.74	1.54	1.67	1.60	1.70	1.78	1.70	1.53	1.51	1.54	1.46	
23	1.57	1.58	1.54	2.48	1.78	1.66	1.76	1.67	1.52	1.51	1.53	1.46	
24	1.60	1.56	1.55	2.04	1.96	1.75	1.71	1.65	1.54	1.51	1.53	1.45	
25	1.57	1.55	1.54	1.76	1.70	2.06	1.86	1.67	1.57	1.51	1.56	1.45	
26	1.55	1.56	1.55	1.66	1.63	1.91	1.84	1.61	1.56	1.51	1.55	1.46	
27	1.57	1.66	1.55	1.64	1.63	1.74	1.85	1.61	1.57	1.51	1.49	1.46	
28	1.54	2.06	1.56	1.62	2.48	1.64	1.78	1.58	1.54	1.51	1.45	1.46	
29	1.54	1.94	1.54	1.60	2.46	1.72	1.72	1.56	1.54	1.51		1.47	
30	1.54	1.65	1.54	1.59	2.31	1.79	1.76	1.57	1.53	1.50		1.58	
31		1.62		1.57	1.95		1.74		1.53	1.51		1.50	
Mean	1.61	1.65	1.58	1.70	1.69	1.88	1.83	1.73	1.58	1.53	1.52	1.46	
Max	1.92	2.06	2.11	2.60	2.48	2.41	2.24	2.13	1.80	1.66	1.56	1.58	2.60
Min	1.52	1.52	1.52	1.52	1.52	1.64	1.59	1.56	1.52	1.50	1.45	1.44	1.44
Annual Max Momentary Gage Height	3.79		m. (MSL.) ,				at 17.00 Hours , on Aug 28 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	1.04		m. (MSL)				
Left Bank Elevation	4.90		m. (MSL.) ,										
Right Bank Elevation	4.89		m. (MSL.) ,			Drainage Area	54		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.60	0.76	0.52	0.68	4.09	1.50	2.38	1.15	0.48	0.52	0.20	
2	0.87	0.56	0.94	0.52	0.68	2.65	1.29	5.17	2.20	0.48	0.52	0.28	
3	0.52	1.01	0.64	0.48	0.68	1.92	1.01	3.64	1.29	0.72	0.48	0.20	
4	0.56	1.29	0.87	0.56	0.68	1.64	0.76	2.38	1.08	0.68	0.44	0.16	
5	0.48	0.76	0.64	0.56	0.72	3.73	1.22	1.85	1.01	0.76	0.44	0.20	
6	0.68	0.56	0.60	0.48	0.68	2.83	3.46	1.64	0.87	0.48	0.44	0.20	
7	0.68	0.48	0.60	2.74	0.76	1.85	6.20	1.50	0.87	1.22	0.44	0.20	
8	0.72	0.64	0.60	1.78	0.94	1.43	5.44	1.36	0.94	0.64	0.40	0.20	
9	1.29	1.36	0.52	0.80	0.60	1.50	4.54	1.29	0.76	0.56	0.44	0.20	
10	0.80	1.57	0.52	0.64	0.48	7.90	3.64	1.15	0.56	0.72	0.48	0.16	
11	3.28	0.64	0.48	1.99	0.48	5.80	4.09	2.38	0.56	0.52	0.52	0.24	
12	1.08	0.56	0.48	9.80	0.48	4.09	3.37	3.10	0.52	0.60	0.56	0.20	
13	2.13	1.71	0.48	3.37	0.52	2.83	2.38	2.83	0.68	0.56	0.52	0.20	
14	1.36	3.82	0.52	1.36	0.60	2.65	2.20	1.36	0.76	0.52	0.52	0.20	
15	1.36	1.71	1.78	0.94	0.60	4.54	2.06	1.78	1.22	0.48	0.48	0.20	
16	1.08	0.87	4.99	1.36	0.56	6.00	1.85	1.57	0.56	0.44	0.48	0.20	
17	1.15	1.50	1.57	0.87	0.60	3.82	1.71	2.20	0.60	0.44	0.52	0.24	
18	0.94	1.43	0.87	0.76	0.64	4.18	3.73	2.20	0.48	0.44	0.48	0.24	
19	0.80	1.01	0.72	0.60	0.80	2.74	2.56	1.71	0.48	0.44	0.56	0.24	
20	0.87	0.68	0.60	0.60	0.72	2.56	3.91	1.64	0.52	0.40	0.52	0.20	
21	1.15	0.76	0.60	0.76	0.60	1.99	2.38	1.36	0.48	0.44	0.52	0.20	
22	0.72	1.78	0.56	1.29	0.80	1.50	2.06	1.50	0.52	0.44	0.56	0.24	
23	0.68	0.72	0.56	8.60	2.06	1.22	1.92	1.29	0.48	0.44	0.52	0.24	
24	0.80	0.64	0.60	4.36	3.64	1.85	1.57	1.15	0.56	0.44	0.52	0.20	
25	0.68	0.60	0.56	1.92	1.50	4.54	2.74	1.29	0.68	0.44	0.64	0.20	
26	0.60	0.64	0.60	1.22	1.01	3.19	2.56	0.87	0.64	0.44	0.60	0.24	
27	0.68	1.22	0.60	1.08	1.01	1.78	2.65	0.87	0.68	0.44	0.36	0.24	
28	0.56	4.54	0.64	0.94	8.60	1.08	2.06	0.72	0.56	0.44	0.20	0.24	
29	0.56	3.46	0.56	0.80	8.40	1.64	1.64	0.64	0.56	0.44		0.28	
30	0.56	1.15	0.56	0.76	6.90	2.13	1.92	0.68	0.52	0.40		0.72	
31		0.94		0.68	3.55		1.78		0.52	0.44		0.40	
Total	28.36	39.21	25.02	53.14	50.97	89.67	80.20	53.50	23.31	16.38	13.68	7.36	480.80 CMSDAY
Mean	0.95	1.26	0.83	1.71	1.64	2.99	2.59	1.78	0.75	0.53	0.49	0.24	1.32 CMS
Max	3.28	4.54	4.99	9.80	8.60	7.90	6.20	5.17	2.20	1.22	0.64	0.72	9.80 CMS
Min	0.48	0.48	0.48	0.48	0.48	1.08	0.76	0.64	0.48	0.40	0.20	0.16	0.16 CMS
Runoff	2.45	3.39	2.16	4.59	4.40	7.75	6.93	4.62	2.01	1.42	1.18	0.64	41.54 MCM
Momentary Peak	25.66 CMS. at 3.79 m. (MSL.) at 17.00 Hours , on Aug 28 , 2009												
Runoff Yield	24.37 Liters/Second/Square KM.			Momentary Peak Yield			474.658 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST

Khlong Kapong at Ban Tha Na , Phang Nga (X.196)

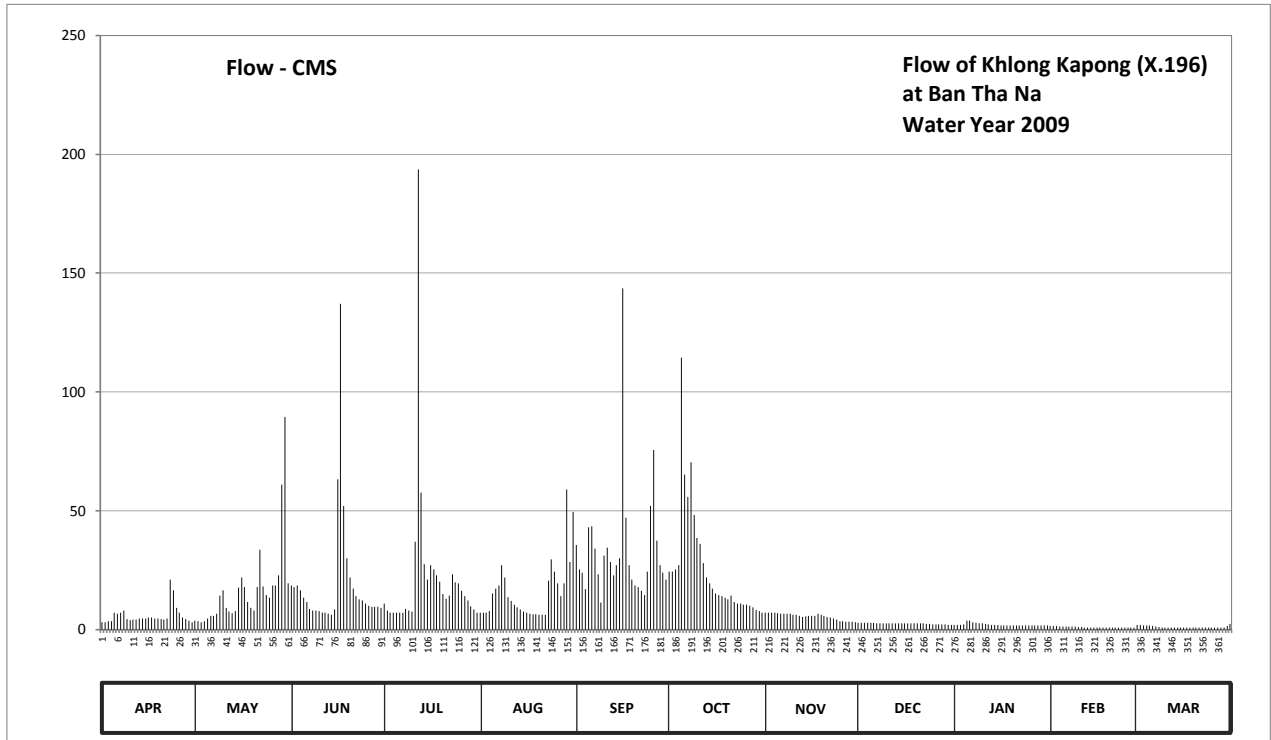
Lat 08 - 42 - 02 N Long 98 - 24 - 42 E

Location : on right bank at the bridge.

	Ban Tha Na	Amphoe Kapong	Changwat Phang Nga
Drainage Area	139 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.	Elevation	+20.010 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 means of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.80	15.84	16.40	16.16	16.00	16.77	16.54	16.00	15.79	15.70	15.64	15.70	
2	15.80	15.82	16.38	16.04	16.00	16.56	16.54	16.00	15.79	15.70	15.64	15.70	
3	15.82	15.80	16.40	16.00	16.00	16.53	16.56	16.00	15.79	15.70	15.64	15.68	
4	15.83	15.82	16.34	16.00	16.03	16.35	16.60	16.00	15.78	15.72	15.63	15.68	
5	16.00	15.88	16.24	16.00	16.30	16.92	17.88	15.99	15.78	15.84	15.63	15.66	
6	15.98	15.94	16.18	16.00	16.36	16.93	17.28	15.98	15.78	15.84	15.63	15.64	
7	16.00	15.94	16.07	16.00	16.40	16.74	17.14	15.98	15.77	15.80	15.62	15.62	
8	16.04	15.98	16.04	16.07	16.60	16.51	17.35	15.98	15.77	15.78	15.62	15.60	
9	15.87	16.27	16.04	16.04	16.48	16.17	17.02	15.98	15.77	15.77	15.62	15.58	
10	15.85	16.34	16.03	16.02	16.25	16.68	16.83	15.96	15.77	15.76	15.60	15.56	
11	15.86	16.08	16.00	16.80	16.20	16.75	16.78	15.96	15.77	15.74	15.59	15.56	
12	15.86	16.02	16.00	18.56	16.14	16.63	16.62	15.94	15.77	15.72	15.58	15.56	
13	15.88	15.99	15.98	17.17	16.09	16.50	16.48	15.92	15.76	15.70	15.57	15.56	
14	15.88	16.03	15.96	16.61	16.06	16.60	16.42	15.93	15.76	15.69	15.56	15.56	
15	15.88	16.37	16.06	16.46	16.02	16.66	16.36	15.94	15.76	15.69	15.56	15.54	
16	15.90	16.48	17.25	16.60	16.00	18.16	16.30	15.94	15.76	15.68	15.56	15.54	
17	15.90	16.38	18.10	16.56	15.98	17.00	16.28	15.94	15.76	15.68	15.56	15.54	
18	15.88	16.18	17.08	16.50	15.97	16.60	16.26	15.98	15.75	15.68	15.56	15.54	
19	15.88	16.08	16.66	16.44	15.97	16.46	16.24	15.96	15.75	15.68	15.56	15.54	
20	15.87	16.04	16.48	16.29	15.96	16.40	16.22	15.94	15.75	15.67	15.56	15.55	
21	15.86	16.38	16.36	16.23	15.96	16.38	16.27	15.92	15.75	15.67	15.56	15.55	
22	15.88	16.73	16.26	16.27	15.96	16.33	16.18	15.90	15.75	15.67	15.56	15.55	
23	16.46	16.39	16.22	16.51	16.45	16.28	16.16	15.88	15.74	15.67	15.56	15.55	
24	16.34	16.28	16.21	16.43	16.65	16.54	16.16	15.86	15.73	15.67	15.56	15.55	
25	16.08	16.24	16.16	16.42	16.54	17.08	16.14	15.83	15.72	15.67	15.56	15.54	
26	16.00	16.40	16.12	16.33	16.42	17.42	16.14	15.82	15.72	15.67	15.56	15.54	
27	15.90	16.40	16.10	16.26	16.26	16.81	16.12	15.81	15.71	15.66	15.56	15.54	
28	15.87	16.50	16.10	16.21	16.42	16.60	16.09	15.81	15.71	15.66	15.56	15.54	
29	15.84	17.22	16.10	16.11	17.19	16.53	16.05	15.81	15.71	15.66	15.56	15.54	
30	15.80	17.60	16.08	16.06	16.63	16.46	16.03	15.80	15.70	15.66	15.56	15.64	
31		16.42		16.00	17.04		16.00		15.70	15.66		15.73	
Mean	15.93	16.25	16.31	16.36	16.27	16.68	16.49	15.93	15.75	15.71	15.59	15.59	
Max	16.46	17.60	18.10	18.56	17.19	18.16	17.88	16.00	15.79	15.84	15.64	15.73	18.56
Min	15.80	15.80	15.96	16.00	15.96	16.17	16.00	15.80	15.70	15.66	15.56	15.54	15.54
Annual Max Momentary Gage Height	19.10		m. (MSL.) ,				at 18.00 Hours , on Jul 12 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	14.69	m. (MSL)					
Left Bank Elevation	19.93		m. (MSL.) ,										
Right Bank Elevation	19.93		m. (MSL.) ,			Drainage Area	139	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	3.80	18.50	11.00	7.00	35.50	24.45	7.00	2.90	2.00	1.40	2.00	
2	3.00	3.40	17.85	8.00	7.00	25.30	24.45	7.00	2.90	2.00	1.40	2.00	
3	3.40	3.00	18.50	7.00	7.00	24.03	25.30	7.00	2.90	2.00	1.40	1.80	
4	3.60	3.40	16.55	7.00	7.75	16.88	27.00	7.00	2.80	2.20	1.30	1.80	
5	7.00	4.60	13.30	7.00	15.25	43.00	114.30	6.80	2.80	3.80	1.30	1.60	
6	6.60	5.80	11.50	7.00	17.20	43.50	65.30	6.60	2.80	3.80	1.30	1.40	
7	7.00	5.80	8.75	7.00	18.50	34.00	55.75	6.60	2.70	3.00	1.20	1.20	
8	8.00	6.60	8.00	8.75	27.00	23.18	70.38	6.60	2.70	2.80	1.20	1.00	
9	4.40	14.28	8.00	8.00	21.90	11.25	48.25	6.60	2.70	2.70	1.20	0.90	
10	4.00	16.55	7.75	7.50	13.62	31.00	38.50	6.20	2.70	2.60	1.00	0.80	
11	4.20	9.00	7.00	37.00	12.00	34.50	36.00	6.20	2.70	2.40	0.95	0.80	
12	4.20	7.50	7.00	193.60	10.50	28.50	28.00	5.80	2.70	2.20	0.90	0.80	
13	4.60	6.80	6.60	57.62	9.25	22.75	21.90	5.40	2.60	2.00	0.85	0.80	
14	4.60	7.75	6.20	27.50	8.50	27.00	19.35	5.60	2.60	1.90	0.80	0.80	
15	4.60	17.53	8.50	21.05	7.50	30.00	17.20	5.80	2.60	1.90	0.80	0.70	
16	5.00	21.90	63.12	27.00	7.00	143.60	15.25	5.80	2.60	1.80	0.80	0.70	
17	5.00	17.85	137.00	25.30	6.60	47.00	14.60	5.80	2.60	1.80	0.80	0.70	
18	4.60	11.50	52.00	22.75	6.40	27.00	13.95	6.60	2.50	1.80	0.80	0.70	
19	4.60	9.00	30.00	20.20	6.40	21.05	13.30	6.20	2.50	1.80	0.80	0.70	
20	4.40	8.00	21.90	14.93	6.20	18.50	12.65	5.80	2.50	1.70	0.80	0.75	
21	4.20	17.85	17.20	12.97	6.20	17.85	14.28	5.40	2.50	1.70	0.80	0.75	
22	4.60	33.50	13.95	14.28	6.20	16.22	11.50	5.00	2.50	1.70	0.80	0.75	
23	21.05	18.17	12.65	23.18	20.63	14.60	11.00	4.60	2.40	1.70	0.80	0.75	
24	16.55	14.60	12.32	19.78	29.50	24.45	11.00	4.20	2.30	1.70	0.80	0.75	
25	9.00	13.30	11.00	19.35	24.45	52.00	10.50	3.60	2.20	1.70	0.80	0.70	
26	7.00	18.50	10.00	16.22	19.35	75.55	10.50	3.40	2.20	1.70	0.80	0.70	
27	5.00	18.50	9.50	13.95	13.95	37.50	10.00	3.20	2.10	1.60	0.80	0.70	
28	4.40	22.75	9.50	12.32	19.35	27.00	9.25	3.20	2.10	1.60	0.80	0.70	
29	3.80	60.95	9.50	9.75	58.87	24.03	8.25	3.20	2.10	1.60	0.80	0.70	
30	3.00	89.50	9.00	8.50	28.50	21.05	7.75	3.00	2.00	1.60	0.80	1.40	
31		19.35		7.00	49.50		7.00		2.00	1.60		2.30	
Total	174.40	511.03	582.64	682.50	499.07	997.79	796.91	165.20	78.20	64.40	27.40	32.15	4611.69 CMSDAY
Mean	5.81	16.48	19.42	22.02	16.10	33.26	25.71	5.51	2.52	2.08	0.98	1.04	12.63 CMS
Max	21.05	89.50	137.00	193.60	58.87	143.60	114.30	7.00	2.90	3.80	1.40	2.30	193.60 CMS
Min	3.00	3.00	6.20	7.00	6.20	11.25	7.00	3.00	2.00	1.60	0.80	0.70	0.70 CMS
Runoff	15.07	44.15	50.34	58.97	43.12	86.21	68.85	14.27	6.76	5.56	2.37	2.78	398.45 MCM
Momentary Peak	269.50 CMS. at 19.10 m. (MSL.) at 18.00 Hours , on Jul 12 , 2009												
Runoff Yield	90.90 Liters/Second/Square KM.			Momentary Peak Yield				1938.849 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST

Khlong Had Sompan at Ban Hat Sompan , Ranong (X.204)

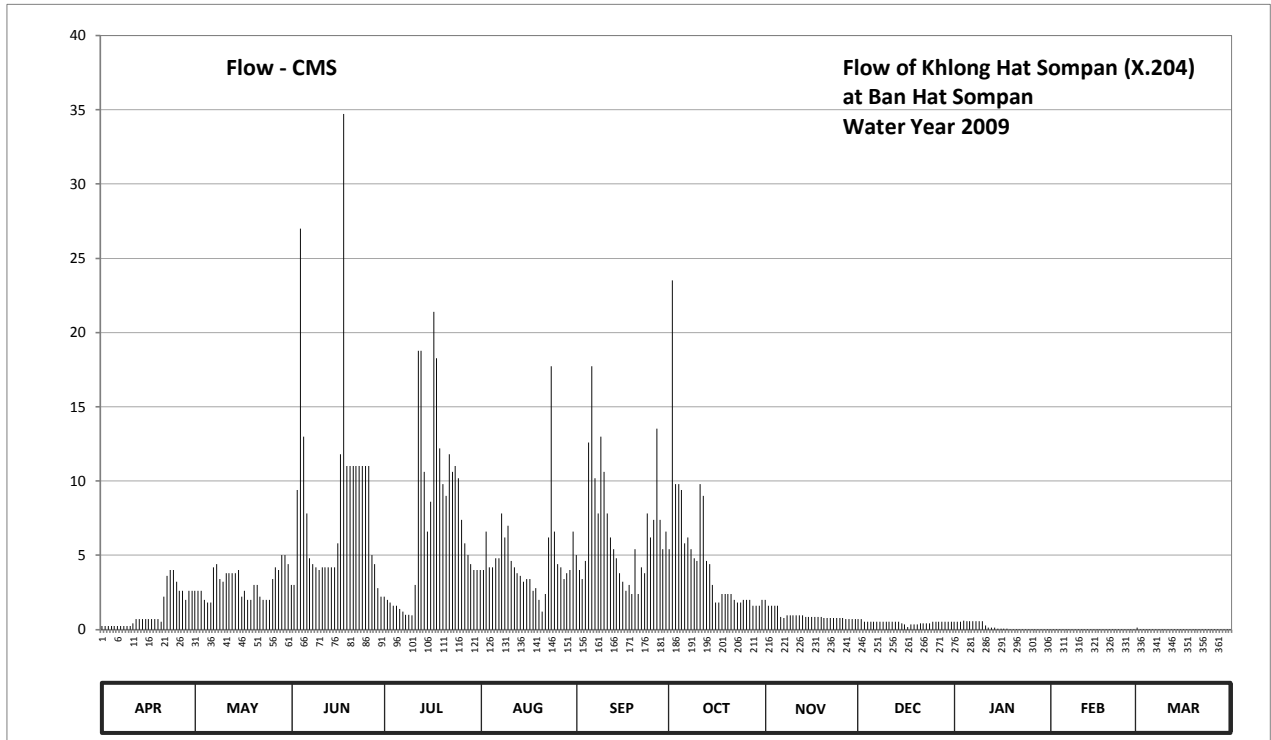
Lat 09 - 56 - 57 N Long 98 - 41 - 46 E

Location : on right bank at Ban Hat Sompan.

	Ban Had Sompan	Amphoe Mueang	Changwat Ranong
Drainage Area	23 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.	Elevation	+137.648 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.24	133.48	133.50	133.46	133.55	133.60	133.61	133.45	133.34	133.30	133.15	133.22	
2	133.24	133.48	133.50	133.45	133.55	133.55	134.00	133.43	133.34	133.30	133.15	133.17	
3	133.24	133.48	133.71	133.44	133.64	133.52	133.72	133.43	133.30	133.30	133.15	133.17	
4	133.24	133.45	134.05	133.43	133.56	133.58	133.72	133.43	133.30	133.32	133.15	133.17	
5	133.24	133.44	133.80	133.43	133.56	133.79	133.71	133.43	133.30	133.31	133.15	133.18	
6	133.24	133.44	133.67	133.42	133.59	133.89	133.62	133.37	133.30	133.31	133.15	133.17	
7	133.24	133.56	133.59	133.41	133.59	133.73	133.63	133.35	133.30	133.31	133.15	133.17	
8	133.24	133.57	133.57	133.40	133.67	133.67	133.61	133.39	133.30	133.31	133.15	133.17	
9	133.24	133.52	133.56	133.40	133.63	133.80	133.59	133.39	133.30	133.31	133.15	133.17	
10	133.24	133.51	133.55	133.39	133.65	133.74	133.58	133.39	133.30	133.31	133.15	133.17	
11	133.28	133.54	133.56	133.50	133.58	133.67	133.72	133.39	133.30	133.25	133.15	133.17	
12	133.34	133.54	133.56	133.91	133.56	133.63	133.70	133.39	133.30	133.22	133.13	133.17	
13	133.34	133.54	133.56	133.91	133.54	133.61	133.58	133.39	133.30	133.22	133.12	133.17	
14	133.34	133.54	133.56	133.74	133.53	133.59	133.57	133.37	133.30	133.22	133.12	133.17	
15	133.34	133.55	133.56	133.64	133.51	133.54	133.50	133.37	133.28	133.21	133.12	133.17	
16	133.34	133.46	133.62	133.69	133.52	133.51	133.44	133.37	133.27	133.21	133.12	133.17	
17	133.34	133.48	133.77	133.96	133.52	133.48	133.44	133.37	133.23	133.21	133.12	133.17	
18	133.34	133.45	134.16	133.90	133.48	133.50	133.47	133.37	133.27	133.21	133.12	133.17	
19	133.34	133.45	133.75	133.78	133.49	133.47	133.47	133.37	133.27	133.20	133.12	133.17	
20	133.30	133.50	133.75	133.72	133.45	133.61	133.47	133.35	133.27	133.20	133.12	133.17	
21	133.46	133.50	133.75	133.70	133.41	133.47	133.47	133.35	133.28	133.20	133.12	133.17	
22	133.53	133.46	133.75	133.77	133.47	133.56	133.45	133.35	133.28	133.19	133.12	133.17	
23	133.55	133.45	133.75	133.74	133.63	133.54	133.44	133.35	133.28	133.17	133.12	133.17	
24	133.55	133.45	133.75	133.75	133.89	133.67	133.44	133.35	133.28	133.15	133.12	133.17	
25	133.51	133.45	133.75	133.73	133.64	133.63	133.45	133.35	133.30	133.15	133.12	133.17	
26	133.48	133.52	133.75	133.66	133.57	133.66	133.45	133.35	133.30	133.15	133.12	133.16	
27	133.48	133.56	133.60	133.62	133.56	133.81	133.45	133.34	133.30	133.15	133.12	133.17	
28	133.45	133.55	133.57	133.60	133.52	133.66	133.43	133.34	133.30	133.15	133.12	133.19	
29	133.48	133.60	133.49	133.57	133.54	133.61	133.43	133.34	133.30	133.15		133.18	
30	133.48	133.60	133.46	133.55	133.55	133.64	133.43	133.34	133.30	133.15		133.17	
31		133.57		133.55	133.64		133.45		133.30	133.15		133.19	
Mean	133.36	133.51	133.67	133.62	133.57	133.62	133.55	133.38	133.29	133.23	133.13	133.17	
Max	133.55	133.60	134.16	133.96	133.89	133.89	134.00	133.45	133.34	133.32	133.15	133.22	134.16
Min	133.24	133.44	133.46	133.39	133.41	133.47	133.43	133.34	133.23	133.15	133.12	133.16	133.12
Annual Max Momentary Gage Height	134.65	m. (MSL.) , at 09.00 Hours , on Aug 24 , 2009											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed 132.76 m. (MSL)											
Left Bank Elevation	137.62	m. (MSL.) ,											
Right Bank Elevation	137.62	m. (MSL.) , Drainage Area 23 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	2.60	3.00	2.20	4.00	5.00	5.40	2.00	0.71	0.51	0.01	0.12	
2	0.22	2.60	3.00	2.00	4.00	4.00	23.50	1.60	0.71	0.51	0.01	0.02	
3	0.22	2.60	9.40	1.80	6.60	3.40	9.80	1.60	0.51	0.51	0.01	0.02	
4	0.22	2.00	27.00	1.60	4.20	4.60	9.80	1.60	0.51	0.61	0.01	0.02	
5	0.22	1.80	13.00	1.60	4.20	12.60	9.40	1.60	0.51	0.56	0.01	0.02	
6	0.22	1.80	7.80	1.40	4.80	17.72	5.80	0.85	0.51	0.56	0.01	0.02	
7	0.22	4.20	4.80	1.20	4.80	10.20	6.20	0.76	0.51	0.56	0.01	0.02	
8	0.22	4.40	4.40	1.00	7.80	7.80	5.40	0.95	0.51	0.56	0.01	0.02	
9	0.22	3.40	4.20	1.00	6.20	13.00	4.80	0.95	0.51	0.56	0.01	0.02	
10	0.22	3.20	4.00	0.95	7.00	10.60	4.60	0.95	0.51	0.56	0.01	0.02	
11	0.41	3.80	4.20	3.00	4.60	7.80	9.80	0.95	0.51	0.27	0.01	0.02	
12	0.71	3.80	4.20	18.78	4.20	6.20	9.00	0.95	0.51	0.12	0.01	0.02	
13	0.71	3.80	4.20	18.78	3.80	5.40	4.60	0.95	0.51	0.12	0.01	0.02	
14	0.71	3.80	4.20	10.60	3.60	4.80	4.40	0.85	0.51	0.12	0.01	0.02	
15	0.71	4.00	4.20	6.60	3.20	3.80	3.00	0.85	0.41	0.07	0.01	0.02	
16	0.71	2.20	5.80	8.60	3.40	3.20	1.80	0.85	0.36	0.07	0.01	0.02	
17	0.71	2.60	11.80	21.40	3.40	2.60	1.80	0.85	0.17	0.07	0.01	0.02	
18	0.71	2.00	34.70	18.25	2.60	3.00	2.40	0.85	0.36	0.07	0.01	0.02	
19	0.71	2.00	11.00	12.20	2.80	2.40	2.40	0.85	0.36	0.02	0.01	0.02	
20	0.51	3.00	11.00	9.80	2.00	5.40	2.40	0.76	0.36	0.02	0.01	0.02	
21	2.20	3.00	11.00	9.00	1.20	2.40	2.40	0.76	0.41	0.02	0.01	0.02	
22	3.60	2.20	11.00	11.80	2.40	4.20	2.00	0.76	0.41	0.02	0.01	0.02	
23	4.00	2.00	11.00	10.60	6.20	3.80	1.80	0.76	0.41	0.02	0.01	0.02	
24	4.00	2.00	11.00	11.00	17.72	7.80	1.80	0.76	0.41	0.01	0.01	0.02	
25	3.20	2.00	11.00	10.20	6.60	6.20	2.00	0.76	0.51	0.01	0.01	0.02	
26	2.60	3.40	11.00	7.40	4.40	7.40	2.00	0.76	0.51	0.01	0.01	0.02	
27	2.60	4.20	5.00	5.80	4.20	13.52	2.00	0.71	0.51	0.01	0.01	0.02	
28	2.00	4.00	4.40	5.00	3.40	7.40	1.60	0.71	0.51	0.01	0.01	0.02	
29	2.60	5.00	2.80	4.40	3.80	5.40	1.60	0.71	0.51	0.01	0.01	0.02	
30	2.60	5.00	2.20	4.00	4.00	6.60	1.60	0.71	0.51	0.01	0.01	0.02	
31		4.40		4.00	6.60		2.00		0.51	0.01		0.02	
Total	38.20	96.80	256.30	225.96	147.72	198.24	147.10	28.97	14.77	6.59	0.28	0.72	1161.65 CMSDAY
Mean	1.27	3.12	8.54	7.29	4.77	6.61	4.75	0.97	0.48	0.21	0.01	0.02	3.18 CMS
Max	4.00	5.00	34.70	21.40	17.72	17.72	23.50	2.00	0.71	0.61	0.12	0.12	34.70 CMS
Min	0.22	1.80	2.20	0.95	1.20	2.40	1.60	0.71	0.17	0.01	0.01	0.02	0.01 CMS
Runoff	3.30	8.36	22.14	19.52	12.76	17.13	12.71	2.50	1.28	0.57	0.02	0.06	100.37 MCM
Momentary Peak	98.00 CMS. at 134.65 m. (MSL.) at 09.00 Hours , on Aug 24 , 2009												
Runoff Yield	138.37 Liters/Second/Square KM.			Momentary Peak Yield				4260.870 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Had Sompan at Mueang , Ranong (X.209)

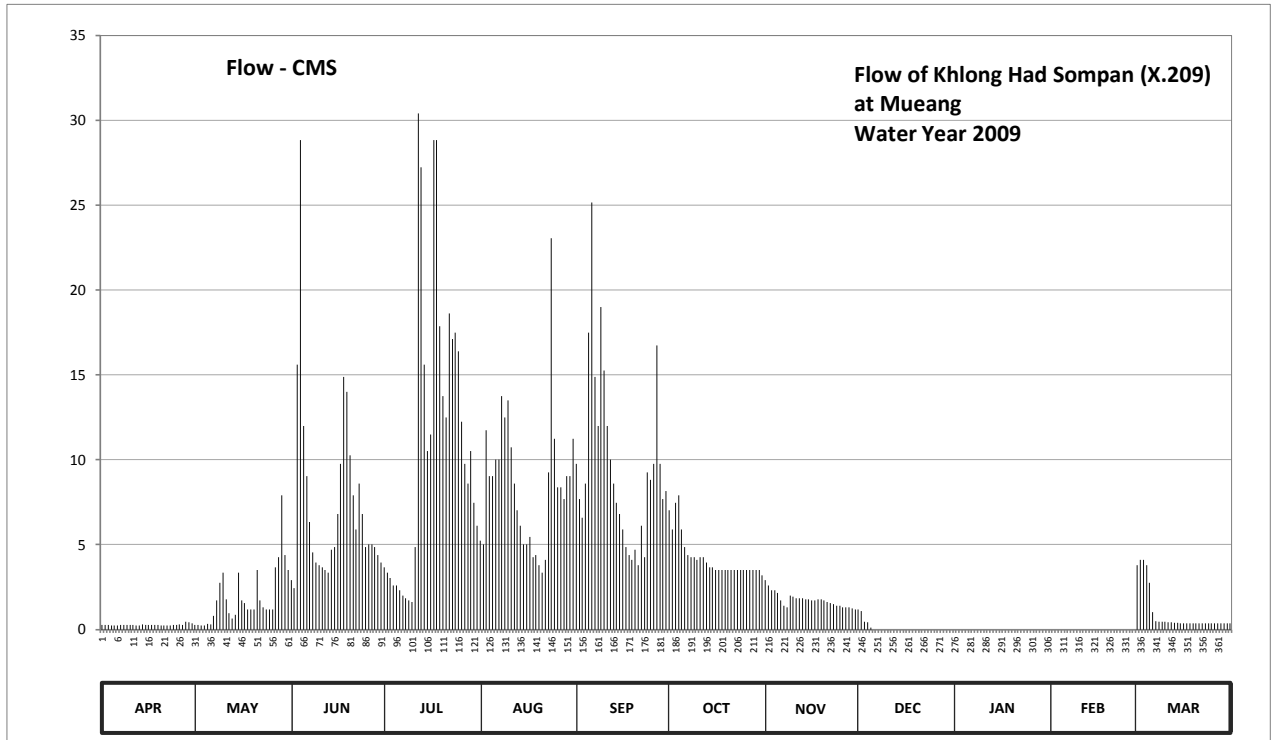
Lat 09 - 57 - 34 N Long 98 - 38 - 52 E

Location : on right bank at the bridge.

	Ban -	Amphoe Mueang	Changwat Ranong
Drainage Area	19	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+13.823 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 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 37 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.91	7.91	8.26	8.31	8.41	8.61	8.49	8.26	8.09	7.67	7.66	8.32	
2	7.91	7.91	8.23	8.29	8.40	8.52	8.44	8.24	8.08	7.67	7.66	8.34	
3	7.91	7.90	8.83	8.27	8.69	8.47	8.51	8.22	7.98	7.66	7.66	8.34	
4	7.90	7.90	9.13	8.24	8.58	8.56	8.53	8.22	7.97	7.66	7.66	8.32	
5	7.90	7.93	8.70	8.24	8.58	8.88	8.44	8.21	7.84	7.66	7.66	8.25	
6	7.90	7.92	8.58	8.22	8.62	9.06	8.39	8.16	7.69	7.66	7.66	8.07	
7	7.91	8.04	8.46	8.20	8.62	8.81	8.36	8.12	7.69	7.66	7.66	8.00	
8	7.91	8.16	8.37	8.18	8.77	8.70	8.35	8.11	7.69	7.66	7.66	7.99	
9	7.91	8.25	8.33	8.16	8.72	8.92	8.35	8.20	7.69	7.66	7.66	7.98	
10	7.91	8.29	8.32	8.15	8.76	8.82	8.34	8.19	7.69	7.67	7.66	7.98	
11	7.91	8.17	8.31	8.39	8.65	8.70	8.35	8.18	7.69	7.67	7.66	7.97	
12	7.90	8.06	8.30	9.16	8.56	8.62	8.35	8.18	7.69	7.67	7.66	7.97	
13	7.90	8.02	8.29	9.10	8.49	8.56	8.33	8.18	7.69	7.66	7.66	7.96	
14	7.92	8.05	8.38	8.83	8.45	8.51	8.31	8.17	7.69	7.66	7.66	7.96	
15	7.91	8.29	8.39	8.64	8.40	8.48	8.31	8.17	7.67	7.66	7.66	7.95	
16	7.91	8.16	8.48	8.68	8.40	8.44	8.30	8.16	7.66	7.66	7.66	7.95	
17	7.91	8.14	8.61	9.13	8.42	8.39	8.30	8.16	7.67	7.66	7.66	7.95	
18	7.91	8.09	8.81	9.13	8.35	8.36	8.30	8.17	7.67	7.66	7.66	7.95	
19	7.91	8.09	8.78	8.89	8.36	8.34	8.30	8.17	7.67	7.66	7.66	7.95	
20	7.90	8.09	8.63	8.77	8.32	8.38	8.30	8.16	7.67	7.66	7.66	7.95	
21	7.90	8.30	8.53	8.72	8.29	8.32	8.30	8.15	7.66	7.67	7.66	7.95	
22	7.90	8.16	8.44	8.91	8.34	8.45	8.30	8.14	7.66	7.67	7.66	7.95	
23	7.90	8.11	8.56	8.87	8.59	8.35	8.30	8.13	7.66	7.67	7.66	7.94	
24	7.91	8.09	8.48	8.88	9.02	8.59	8.30	8.12	7.66	7.67	7.66	7.94	
25	7.91	8.09	8.39	8.85	8.67	8.57	8.30	8.12	7.66	7.67	7.66	7.94	
26	7.92	8.09	8.40	8.71	8.55	8.61	8.30	8.11	7.66	7.67	7.66	7.94	
27	7.91	8.31	8.40	8.61	8.55	8.86	8.30	8.11	7.66	7.66	7.66	7.94	
28	7.99	8.35	8.39	8.56	8.52	8.61	8.30	8.11	7.66	7.66	7.66	7.94	
29	7.97	8.53	8.36	8.64	8.58	8.52	8.30	8.10	7.66	7.66	7.66	7.94	
30	7.94	8.36	8.33	8.51	8.58	8.54	8.30	8.09	7.66	7.66	7.66	7.94	
31		8.30		8.45	8.67		8.28		7.66	7.66		7.94	
Mean	7.91	8.13	8.48	8.60	8.55	8.59	8.34	8.16	7.72	7.66	7.66	8.02	
Max	7.99	8.53	9.13	9.16	9.02	9.06	8.53	8.26	8.09	7.67	7.66	8.34	9.16
Min	7.90	7.90	8.23	8.15	8.29	8.32	8.28	8.09	7.66	7.66	7.66	7.94	7.66
Annual Max Momentary Gage Height	10.06	m. (MSL.) , at 23.00 Hours , on Jun 3 , 2009											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed 7.32 m. (MSL)											
Left Bank Elevation	14.38	m. (MSL.) ,											
Right Bank Elevation	14.20	m. (MSL.) , Drainage Area 19 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.27	2.90	3.65	5.23	9.75	7.02	2.90	1.18	0.00	0.00	3.80	
2	0.27	0.27	2.45	3.35	5.00	7.70	5.90	2.60	1.10	0.00	0.00	4.10	
3	0.27	0.25	15.62	3.05	11.75	6.58	7.48	2.30	0.45	0.00	0.00	4.10	
4	0.25	0.25	28.83	2.60	9.05	8.60	7.92	2.30	0.42	0.00	0.00	3.80	
5	0.25	0.32	12.00	2.60	9.05	17.50	5.90	2.15	0.10	0.00	0.00	2.75	
6	0.25	0.30	9.05	2.30	10.00	25.15	4.85	1.70	0.00	0.00	0.00	1.02	
7	0.27	0.80	6.35	2.00	10.00	14.88	4.40	1.40	0.00	0.00	0.00	0.50	
8	0.27	1.70	4.55	1.85	13.75	12.00	4.25	1.32	0.00	0.00	0.00	0.47	
9	0.27	2.75	3.95	1.70	12.50	19.00	4.25	2.00	0.00	0.00	0.00	0.45	
10	0.27	3.35	3.80	1.62	13.50	15.25	4.10	1.92	0.00	0.00	0.00	0.45	
11	0.27	1.78	3.65	4.85	10.75	12.00	4.25	1.85	0.00	0.00	0.00	0.42	
12	0.25	0.95	3.50	30.40	8.60	10.00	4.25	1.85	0.00	0.00	0.00	0.42	
13	0.25	0.65	3.35	27.25	7.02	8.60	3.95	1.85	0.00	0.00	0.00	0.40	
14	0.30	0.88	4.70	15.62	6.13	7.48	3.65	1.78	0.00	0.00	0.00	0.40	
15	0.27	3.35	4.85	10.50	5.00	6.80	3.65	1.78	0.00	0.00	0.00	0.37	
16	0.27	1.70	6.80	11.50	5.00	5.90	3.50	1.70	0.00	0.00	0.00	0.37	
17	0.27	1.55	9.75	28.83	5.45	4.85	3.50	1.70	0.00	0.00	0.00	0.37	
18	0.27	1.18	14.88	28.83	4.25	4.40	3.50	1.78	0.00	0.00	0.00	0.37	
19	0.27	1.18	14.00	17.88	4.40	4.10	3.50	1.78	0.00	0.00	0.00	0.37	
20	0.25	1.18	10.25	13.75	3.80	4.70	3.50	1.70	0.00	0.00	0.00	0.37	
21	0.25	3.50	7.92	12.50	3.35	3.80	3.50	1.62	0.00	0.00	0.00	0.37	
22	0.25	1.70	5.90	18.62	4.10	6.13	3.50	1.55	0.00	0.00	0.00	0.37	
23	0.25	1.32	8.60	17.12	9.27	4.25	3.50	1.48	0.00	0.00	0.00	0.35	
24	0.27	1.18	6.80	17.50	23.05	9.27	3.50	1.40	0.00	0.00	0.00	0.35	
25	0.27	1.18	4.85	16.38	11.25	8.82	3.50	1.40	0.00	0.00	0.00	0.35	
26	0.30	1.18	5.00	12.25	8.38	9.75	3.50	1.32	0.00	0.00	0.00	0.35	
27	0.27	3.65	5.00	9.75	8.38	16.75	3.50	1.32	0.00	0.00	0.00	0.35	
28	0.47	4.25	4.85	8.60	7.70	9.75	3.50	1.32	0.00	0.00	0.00	0.35	
29	0.42	7.92	4.40	10.50	9.05	7.70	3.50	1.25	0.00	0.00	0.00	0.35	
30	0.35	4.40	3.95	7.48	9.05	8.15	3.50	1.18	0.00	0.00	0.00	0.35	
31		3.50		6.13	11.25		3.20		0.00	0.00		0.35	
Total	8.41	58.44	222.50	350.96	265.06	289.61	131.52	52.20	3.25	0.00	0.00	29.19	1411.14 CMSDAY
Mean	0.28	1.89	7.42	11.32	8.55	9.65	4.24	1.74	0.10	0.00	0.00	0.94	3.87 CMS
Max	0.47	7.92	28.83	30.40	23.05	25.15	7.92	2.90	1.18	0.00	0.00	4.10	30.40 CMS
Min	0.25	0.25	2.45	1.62	3.35	3.80	3.20	1.18	0.00	0.00	0.00	0.35	0.00 CMS
Runoff	0.73	5.05	19.22	30.32	22.90	25.02	11.36	4.51	0.28	0.00	0.00	2.52	121.92 MCM
Momentary Peak	97.75 CMS. at 10.06 m. (MSL.) at 23.00 Hours , on Jun 3 , 2009												
Runoff Yield	203.48 Liters/Second/Square KM.			Momentary Peak Yield			5144.737 Liters/Second/Square KM.						

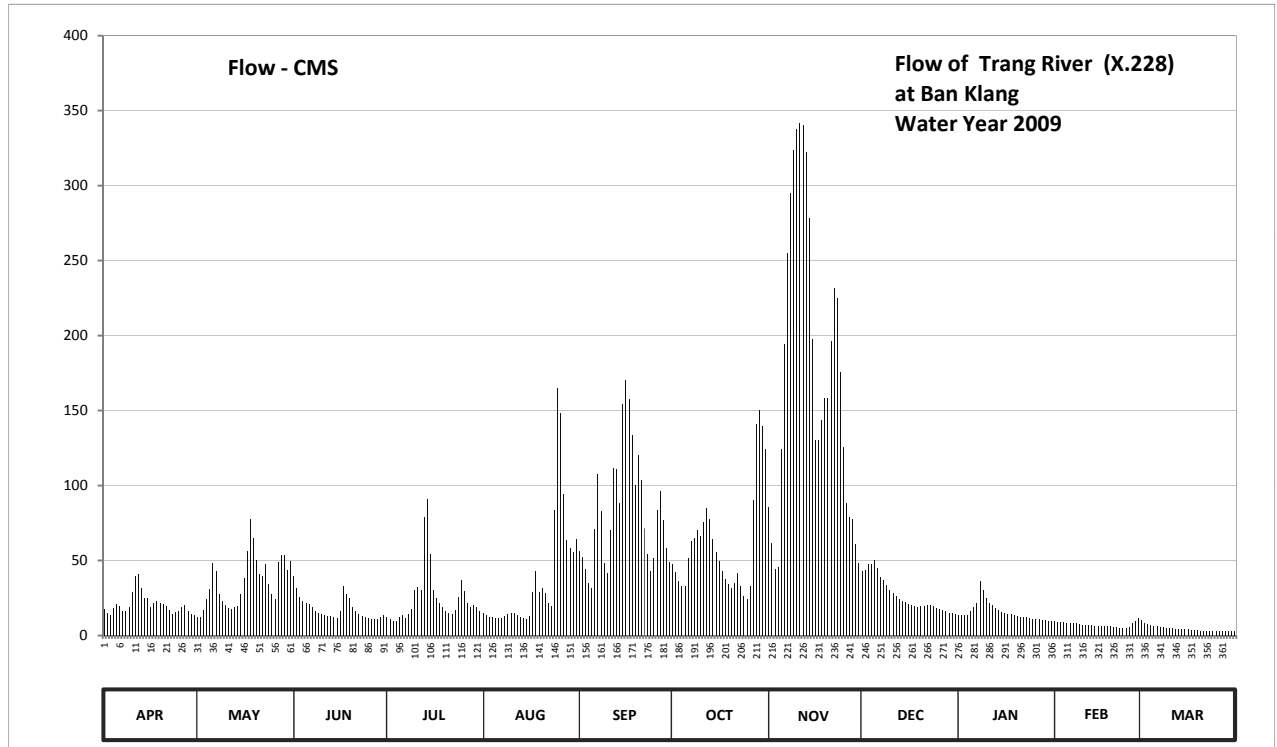
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Klang , Trang (X.228)
 Lat 07 - 38 - 45 N Long 99 - 31 - 59 E

Location : on left bank at Ban Klang.

	Ban Klang	Amphoe Mueang	Changwat Trang
Drainage Area	1,374 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.		Elevation +11.741 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 means of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.91	2.67	3.68	2.66	2.80	4.14	3.90	4.82	3.78	2.75	2.52	2.55	
2	2.80	2.65	3.41	2.59	2.73	4.03	3.75	4.26	3.79	2.73	2.50	2.48	
3	2.73	2.88	3.23	2.54	2.67	3.81	3.57	3.80	3.91	2.72	2.50	2.44	
4	2.93	3.17	3.13	2.53	2.67	3.53	3.47	3.84	3.91	2.73	2.49	2.41	
5	3.04	3.39	3.06	2.67	2.64	3.41	3.46	5.49	3.98	2.85	2.48	2.38	
6	2.98	3.92	3.04	2.74	2.64	4.49	4.01	6.56	3.83	2.96	2.48	2.36	
7	2.85	3.78	2.95	2.62	2.63	5.21	4.30	7.32	3.65	3.06	2.47	2.34	
8	2.86	3.28	2.86	2.77	2.71	4.76	4.35	7.78	3.59	3.58	2.45	2.32	
9	2.96	3.12	2.81	2.90	2.78	3.92	4.48	8.10	3.48	3.38	2.44	2.31	
10	3.34	3.01	2.76	3.38	2.81	3.73	4.39	8.25	3.37	3.19	2.41	2.30	
11	3.67	2.92	2.73	3.45	2.79	4.48	4.60	8.30	3.31	3.06	2.41	2.29	
12	3.72	2.90	2.70	3.37	2.73	5.28	4.80	8.28	3.24	3.01	2.40	2.28	
13	3.42	2.95	2.69	4.67	2.66	5.26	4.64	8.08	3.18	2.94	2.39	2.27	
14	3.20	2.98	2.66	4.92	2.62	4.87	4.34	7.59	3.13	2.87	2.38	2.27	
15	3.21	3.28	2.63	4.09	2.61	5.99	4.12	6.61	3.10	2.83	2.37	2.26	
16	2.96	3.64	2.85	3.37	2.71	6.23	3.97	5.59	3.04	2.80	2.37	2.25	
17	3.07	4.13	3.47	3.19	3.33	6.04	3.77	5.59	3.01	2.77	2.37	2.23	
18	3.11	4.63	3.29	3.08	3.78	5.64	3.62	5.81	2.99	2.76	2.37	2.22	
19	3.07	4.35	3.20	2.95	3.34	5.09	3.52	6.05	2.97	2.74	2.36	2.22	
20	3.04	3.98	2.97	2.86	3.42	5.42	3.42	6.05	2.98	2.71	2.34	2.21	
21	2.99	3.72	2.86	2.79	3.32	5.14	3.54	6.59	2.98	2.68	2.33	2.21	
22	2.88	3.68	2.77	2.77	3.08	4.50	3.73	7.03	3.00	2.67	2.31	2.20	
23	2.77	3.90	2.71	2.87	2.99	4.08	3.46	6.95	3.01	2.65	2.30	2.20	
24	2.83	3.52	2.67	3.23	4.77	3.77	3.24	6.31	2.98	2.62	2.30	2.20	
25	2.85	3.28	2.63	3.60	6.15	4.02	3.18	5.51	2.93	2.61	2.32	2.19	
26	2.97	3.17	2.60	3.35	5.89	4.77	3.47	4.87	2.91	2.59	2.47	2.19	
27	3.02	3.94	2.59	3.07	4.99	5.02	4.91	4.67	2.87	2.58	2.54	2.19	
28	2.84	4.06	2.58	2.95	4.32	4.62	5.77	4.64	2.85	2.56	2.62	2.18	
29	2.76	4.06	2.67	3.02	4.19	4.18	5.92	4.25	2.81	2.55		2.19	
30	2.74	3.79	2.73	2.96	4.11	3.94	5.74	3.93	2.80	2.54		2.19	
31	3.97		2.86	4.33		5.49		2.76	2.53			2.21	
Mean	3.02	3.51	2.90	3.12	3.39	4.65	4.16	6.10	3.23	2.81	2.42	2.28	
Max	3.72	4.63	3.68	4.92	6.15	6.23	5.92	8.30	3.98	3.58	2.62	2.55	8.30
Min	2.73	2.65	2.58	2.53	2.61	3.41	3.18	3.80	2.76	2.53	2.30	2.18	2.18
Annual Max Momentary Gage Height	8.31		m. (MSL.) ,					at 18.00 Hours , on Nov 11 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	1.24	m. (MSL)					
Left Bank Elevation	12.16		m. (MSL.) ,										
Right Bank Elevation	12.21		m. (MSL.) ,			Drainage Area	1374	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.75	12.40	39.80	12.20	15.00	56.60	47.50	86.00	43.30	14.00	9.40	10.00	
2	15.00	12.00	31.30	10.80	13.60	52.20	42.25	61.40	43.65	13.60	9.00	8.60	
3	13.60	17.00	25.90	9.80	12.40	44.35	36.10	44.00	47.85	13.40	9.00	7.80	
4	18.25	24.25	23.25	9.60	12.40	34.90	33.10	45.40	47.85	13.60	8.80	7.20	
5	21.00	30.70	21.50	12.40	11.80	31.30	32.80	124.40	50.30	16.25	8.60	6.60	
6	19.50	48.20	21.00	13.80	11.80	71.05	51.40	194.00	45.05	19.00	8.60	6.20	
7	16.25	43.30	18.75	11.40	11.60	107.60	63.00	255.20	38.75	21.50	8.40	5.80	
8	16.50	27.40	16.50	14.40	13.20	83.20	65.00	295.20	36.70	36.40	8.00	5.40	
9	19.00	23.00	15.25	17.50	14.60	48.20	70.60	324.00	33.40	30.40	7.80	5.20	
10	29.20	20.25	14.20	30.40	15.25	41.55	66.60	337.50	30.10	24.75	7.20	5.00	
11	39.45	18.00	13.60	32.50	14.80	70.60	76.00	342.00	28.30	21.50	7.20	4.80	
12	41.20	17.50	13.00	30.10	13.60	111.80	85.00	340.20	26.20	20.25	7.00	4.60	
13	31.60	18.75	12.80	79.15	12.20	110.60	77.80	322.20	24.50	18.50	6.80	4.40	
14	25.00	19.50	12.20	91.00	11.40	88.50	64.60	278.15	23.25	16.75	6.60	4.40	
15	25.30	27.40	11.60	54.60	11.20	154.40	55.80	197.80	22.50	15.75	6.40	4.20	
16	19.00	38.40	16.25	30.10	13.20	170.10	49.95	130.40	21.00	15.00	6.40	4.00	
17	21.75	56.20	33.10	24.75	28.90	157.60	42.95	130.40	20.25	14.40	6.40	3.60	
18	22.75	77.35	27.70	22.00	43.30	133.40	37.70	143.60	19.75	14.20	6.40	3.40	
19	21.75	65.00	25.00	18.75	29.20	100.40	34.60	158.25	19.25	13.80	6.20	3.40	
20	21.00	50.30	19.25	16.50	31.60	120.20	31.60	158.25	19.50	13.20	5.80	3.20	
21	19.75	41.20	16.50	14.80	28.60	103.40	35.20	196.25	19.50	12.60	5.60	3.20	
22	17.00	39.80	14.40	14.40	22.00	71.50	41.55	231.40	20.00	12.40	5.20	3.00	
23	14.40	47.50	13.20	16.75	19.75	54.20	32.80	225.00	20.25	12.00	5.00	3.00	
24	15.75	34.60	12.40	25.90	83.65	42.95	26.20	175.70	19.50	11.40	5.00	3.00	
25	16.25	27.40	11.60	37.00	164.75	51.80	24.50	125.60	18.25	11.20	5.40	2.90	
26	19.25	24.25	11.00	29.50	148.40	83.65	33.10	88.50	17.75	10.80	8.40	2.90	
27	20.50	48.90	10.80	21.75	94.50	96.20	90.50	79.15	16.75	10.60	9.80	2.90	
28	16.00	53.40	10.60	18.75	63.80	76.90	141.20	77.80	16.25	10.20	11.40	2.80	
29	14.20	53.40	12.40	20.50	58.60	58.20	150.20	61.00	15.25	10.00		2.90	
30	13.80	43.65	13.60	19.00	55.40	48.90	139.40	48.55	15.00	9.80		2.90	
31		49.95		16.50	64.20		124.40		14.20	9.60		3.20	
Total	621.75	1110.95	538.45	776.60	1144.70	2476.25	1903.40	5277.30	834.15	486.85	205.80	140.50	15516.70 CMSDAY
Mean	20.73	35.84	17.95	25.05	36.93	82.54	61.40	175.91	26.91	15.70	7.35	4.53	42.51 CMS
Max	41.20	77.35	39.80	91.00	164.75	170.10	150.20	342.00	50.30	36.40	11.40	10.00	342.00 CMS
Min	13.60	12.00	10.60	9.60	11.20	31.30	24.50	44.00	14.20	9.60	5.00	2.80	2.80 CMS
Runoff	53.72	95.99	46.52	67.10	98.90	213.95	164.45	455.96	72.07	42.06	17.78	12.14	1340.64 MCM
Momentary Peak	342.90 CMS. at 8.31 m. (MSL.) at 18.00 Hours , on Nov 11 , 2009												
Runoff Yield	30.94 Liters/Second/Square KM.			Momentary Peak Yield			249.563 Liters/Second/Square KM.						

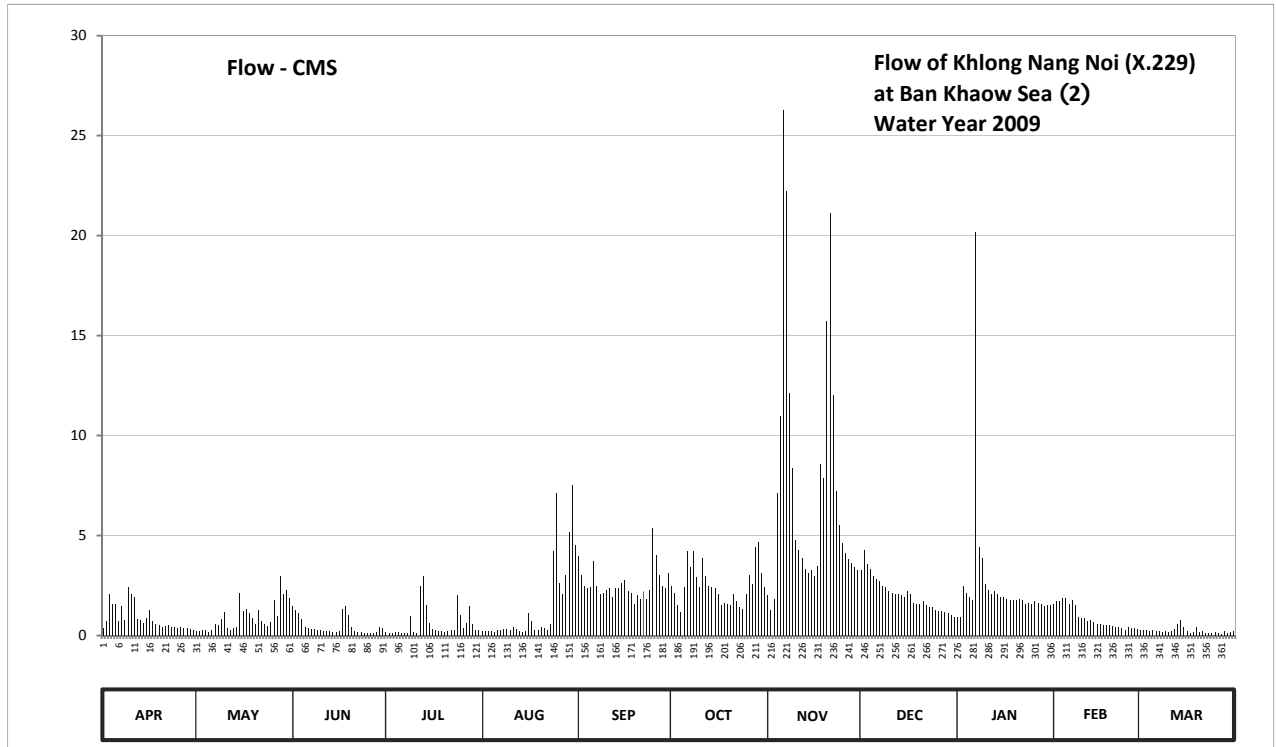
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Nang Noi at Ban Khaow Sea (2) , Trang (X.229)
 Lat 07 - 32 - 53 N Long 99 - 44 - 40 E

Location : on left bank at Ban Khaow Sea 2.

	Ban	Khaow Sea 2	Amphoe	Na Yong	Changwat	Trang
Drainage Area	158	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+32.452 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 means of 5 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.66	28.61	28.91	28.59	28.60	29.27	29.07	29.00	29.18	28.82	28.93	28.63	
2	28.77	28.60	28.88	28.56	28.60	29.15	29.02	28.88	29.31	28.82	28.95	28.62	
3	29.01	28.62	28.85	28.56	28.60	29.07	28.92	28.97	29.22	29.07	28.95	28.62	
4	28.93	28.62	28.80	28.58	28.60	29.05	28.86	29.63	29.19	29.02	28.98	28.61	
5	28.93	28.59	28.67	28.58	28.58	29.06	29.06	29.99	29.14	28.99	28.98	28.62	
6	28.78	28.63	28.66	28.56	28.63	29.24	29.30	31.08	29.12	28.96	28.93	28.60	
7	28.91	28.72	28.64	28.55	28.62	29.07	29.20	30.82	29.10	30.69	28.96	28.60	
8	28.79	28.70	28.64	28.55	28.64	29.01	29.30	30.09	29.07	29.33	28.92	28.58	
9	29.06	28.80	28.62	28.83	28.64	29.02	29.13	29.75	29.06	29.26	28.82	28.60	
10	29.01	28.86	28.62	28.59	28.63	29.04	29.06	29.37	29.03	29.08	28.81	28.59	
11	28.99	28.65	28.61	28.56	28.68	29.05	29.26	29.31	29.02	29.04	28.81	28.60	
12	28.80	28.62	28.60	29.07	28.64	28.99	29.14	29.26	29.01	29.01	28.78	28.64	
13	28.79	28.65	28.60	29.14	28.60	29.05	29.07	29.19	29.01	29.03	28.79	28.73	
14	28.74	28.67	28.58	28.92	28.58	29.05	29.06	29.16	29.00	29.01	28.76	28.79	
15	28.81	29.02	28.59	28.75	28.61	29.09	29.05	29.18	28.99	28.99	28.72	28.68	
16	28.88	28.87	28.61	28.64	28.85	29.11	29.01	29.14	29.03	28.99	28.72	28.60	
17	28.78	28.89	28.89	28.62	28.78	29.03	28.92	29.21	29.01	28.97	28.71	28.56	
18	28.73	28.85	28.91	28.60	28.63	29.02	28.94	29.77	28.94	28.96	28.71	28.58	
19	28.70	28.81	28.84	28.60	28.62	28.93	28.93	29.70	28.93	28.96	28.70	28.68	
20	28.68	28.73	28.68	28.59	28.68	29.00	28.92	30.37	28.93	28.96	28.69	28.58	
21	28.69	28.88	28.60	28.60	28.65	28.97	29.01	30.75	28.95	28.97	28.68	28.61	
22	28.70	28.78	28.59	28.63	28.63	29.03	28.95	30.08	28.92	28.96	28.67	28.57	
23	28.68	28.72	28.58	28.62	28.73	28.97	28.90	29.64	28.90	28.93	28.66	28.55	
24	28.67	28.69	28.57	29.00	29.30	29.04	28.89	29.46	28.90	28.94	28.63	28.55	
25	28.66	28.76	28.57	28.84	29.63	29.44	29.01	29.35	28.88	28.93	28.68	28.59	
26	28.67	28.96	28.57	28.66	29.09	29.28	29.15	29.29	28.87	28.95	28.66	28.56	
27	28.66	28.83	28.56	28.75	29.01	29.15	29.08	29.25	28.87	28.94	28.65	28.54	
28	28.66	29.14	28.58	28.91	29.15	29.07	29.33	29.23	28.86	28.93	28.64	28.61	
29	28.64	29.01	28.68	28.72	29.42	29.05	29.36	29.20	28.85	28.91		28.56	
30	28.62	29.04	28.66	28.63	29.67	29.16	29.16	29.18	28.84	28.92		28.58	
31		28.98		28.62	29.34		29.06		28.82	28.92		28.60	
Mean	28.78	28.78	28.67	28.69	28.82	29.08	29.07	29.58	29.00	29.04	28.78	28.61	
Max	29.06	29.14	28.91	29.14	29.67	29.44	29.36	31.08	29.31	30.69	28.98	28.79	31.08
Min	28.62	28.59	28.56	28.55	28.58	28.93	28.86	28.88	28.82	28.82	28.63	28.54	28.54
Annual Max Momentary Gage Height	31.73		m. (MSL.) ,			at 13.00 Hours ,	on Nov 6 ,	2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	28.41	m. (MSL)					
Left Bank Elevation	34.06		m. (MSL.) ,										
Right Bank Elevation	33.95		m. (MSL.) ,			Drainage Area	158	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.23	1.46	0.18	0.20	3.96	2.49	2.00	3.26	0.92	1.58	0.29	
2	0.71	0.20	1.28	0.12	0.20	3.05	2.14	1.28	4.28	0.92	1.70	0.26	
3	2.07	0.26	1.10	0.12	0.20	2.49	1.52	1.82	3.56	2.49	1.70	0.26	
4	1.58	0.26	0.80	0.16	0.20	2.35	1.16	7.11	3.33	2.14	1.88	0.23	
5	1.58	0.18	0.41	0.16	0.16	2.42	2.42	10.99	2.98	1.94	1.88	0.26	
6	0.74	0.29	0.38	0.12	0.29	3.72	4.20	26.28	2.84	1.76	1.58	0.20	
7	1.46	0.56	0.32	0.10	0.26	2.49	3.40	22.21	2.70	20.20	1.76	0.20	
8	0.77	0.50	0.32	0.10	0.32	2.07	4.20	12.13	2.49	4.44	1.52	0.16	
9	2.42	0.80	0.26	0.98	0.32	2.14	2.91	8.38	2.42	3.88	0.92	0.20	
10	2.07	1.16	0.26	0.18	0.29	2.28	2.42	4.76	2.21	2.56	0.86	0.18	
11	1.94	0.35	0.23	0.12	0.44	2.35	3.88	4.28	2.14	2.28	0.86	0.20	
12	0.80	0.26	0.20	2.49	0.32	1.94	2.98	3.88	2.07	2.07	0.74	0.32	
13	0.77	0.35	0.20	2.98	0.20	2.35	2.49	3.33	2.07	2.21	0.77	0.59	
14	0.62	0.41	0.16	1.52	0.16	2.35	2.42	3.12	2.00	2.07	0.68	0.77	
15	0.86	2.14	0.18	0.65	0.23	2.63	2.35	3.26	1.94	1.94	0.56	0.44	
16	1.28	1.22	0.23	0.32	1.10	2.77	2.07	2.98	2.21	1.94	0.56	0.20	
17	0.74	1.34	1.34	0.26	0.74	2.21	1.52	3.48	2.07	1.82	0.53	0.12	
18	0.59	1.10	1.46	0.20	0.29	2.14	1.64	8.59	1.64	1.76	0.53	0.16	
19	0.50	0.86	1.04	0.20	0.26	1.58	1.58	7.85	1.58	1.76	0.50	0.44	
20	0.44	0.59	0.44	0.18	0.44	2.00	1.52	15.70	1.58	1.76	0.47	0.16	
21	0.47	1.28	0.20	0.20	0.35	1.82	2.07	21.12	1.70	1.82	0.44	0.23	
22	0.50	0.74	0.18	0.29	0.29	2.21	1.70	12.02	1.52	1.76	0.41	0.14	
23	0.44	0.56	0.16	0.26	0.59	1.82	1.40	7.22	1.40	1.58	0.38	0.10	
24	0.41	0.47	0.14	2.00	4.20	2.28	1.34	5.54	1.40	1.64	0.29	0.10	
25	0.38	0.68	0.14	1.04	7.11	5.36	2.07	4.60	1.28	1.58	0.44	0.18	
26	0.41	1.76	0.14	0.38	2.63	4.04	3.05	4.12	1.22	1.70	0.38	0.12	
27	0.38	0.98	0.12	0.65	2.07	3.05	2.56	3.80	1.22	1.64	0.35	0.08	
28	0.38	2.98	0.16	1.46	3.05	2.49	4.44	3.64	1.16	1.58	0.32	0.23	
29	0.32	2.07	0.44	0.56	5.18	2.35	4.68	3.40	1.10	1.46		0.12	
30	0.26	2.28	0.38	0.29	7.54	3.12	3.12	3.26	1.04	1.52		0.16	
31		1.88		0.26	4.52		2.42		0.92	1.52		0.20	
Total	26.27	28.74	14.13	18.53	44.15	77.83	78.16	222.15	63.33	78.66	24.59	7.30	683.84 CMSDAY
Mean	0.88	0.93	0.47	0.60	1.42	2.59	2.52	7.40	2.04	2.54	0.88	0.24	1.87 CMS
Max	2.42	2.98	1.46	2.98	7.54	5.36	4.68	26.28	4.28	20.20	1.88	0.77	26.28 CMS
Min	0.26	0.18	0.12	0.10	0.16	1.58	1.16	1.28	0.92	0.92	0.29	0.08	0.08 CMS
Runoff	2.27	2.48	1.22	1.60	3.82	6.73	6.75	19.19	5.47	6.80	2.13	0.63	59.08 MCM
Momentary Peak	37.48 CMS. at 31.73 m. (MSL.) at 13.00 Hours , on Nov 6 , 2009												
Runoff Yield	11.85 Liters/Second/Square KM.			Momentary Peak Yield			236.975 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Lower Khlong Langu at Ban Kota , Satun (X.231)

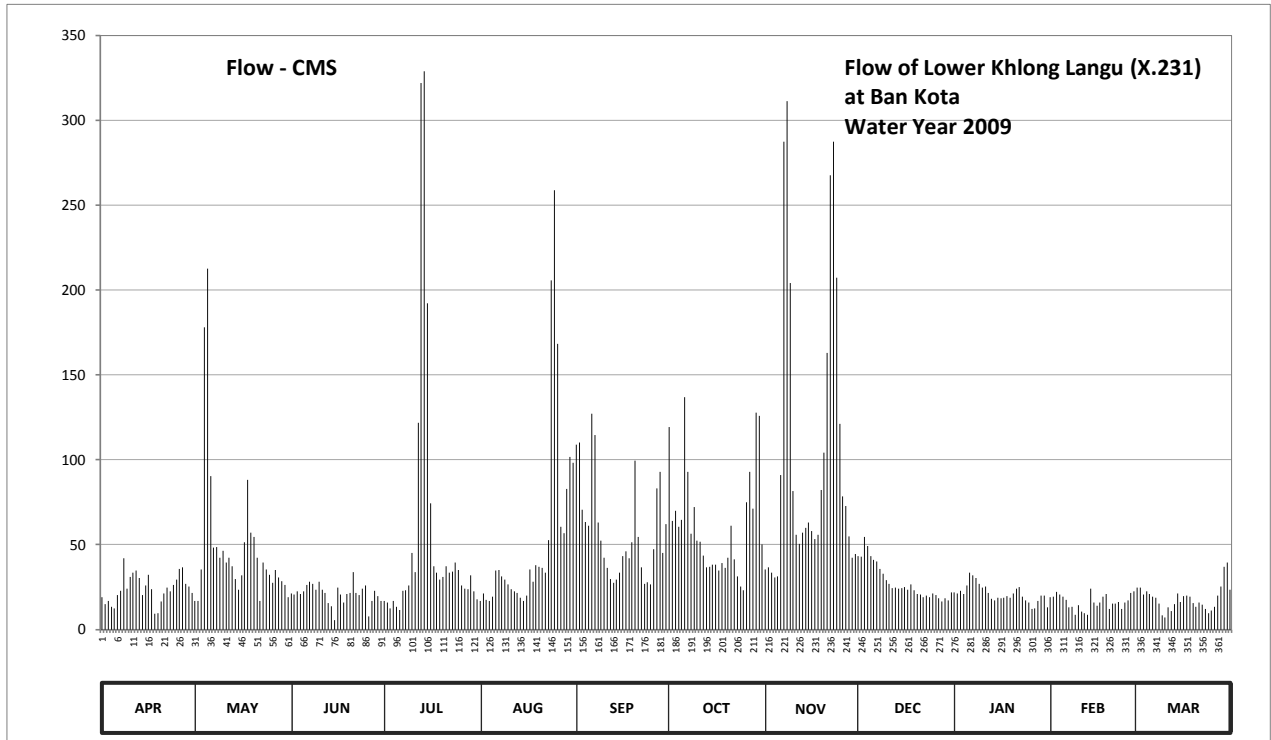
Lat 06 - 53 - 11 N Long 99 - 48 - 17 E

Location : on right bank at Ban Kota.

	Ban Kota	Amphoe Langu	Changwat satun
Drainage Area	-	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+5.659 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 means of 5 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 49 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.11	0.27	0.11	0.11	2.09	2.25	0.66	0.85	0.30	0.20	0.39	
2	0.04	0.11	0.25	0.08	0.27	2.11	1.30	0.69	0.84	0.27	0.21	0.39	
3	0.11	0.66	0.32	-0.06	0.14	1.43	1.42	0.61	1.10	0.33	0.31	0.25	
4	-0.03	3.08	0.26	0.11	0.11	1.29	1.23	0.54	0.98	0.26	0.25	0.32	
5	-0.06	3.50	0.32	-0.02	0.21	1.24	1.31	0.56	0.85	0.42	0.21	0.26	
6	0.24	1.79	0.43	-0.10	0.64	2.37	2.52	1.80	0.80	0.61	0.14	0.21	
7	0.33	0.96	0.48	0.33	0.65	2.18	1.83	4.31	0.78	0.57	-0.04	0.19	
8	0.82	0.97	0.45	0.34	0.56	1.28	1.14	4.56	0.67	0.53	-0.03	0.05	
9	0.37	0.83	0.35	0.42	0.51	1.05	1.46	3.40	0.60	0.45	-0.22	-0.23	
10	0.55	0.92	0.48	0.89	0.44	0.83	1.05	1.63	0.50	0.39	0.01	-0.29	
11	0.61	0.76	0.35	0.62	0.36	0.68	1.04	1.13	0.45	0.41	-0.14	-0.04	
12	0.64	0.83	0.29	2.29	0.32	0.52	0.86	1.01	0.38	0.29	-0.18	-0.12	
13	0.53	0.71	0.06	4.67	0.29	0.46	0.69	1.16	0.39	0.16	-0.21	0.04	
14	0.24	0.52	-0.01	4.74	0.19	0.51	0.70	1.22	0.37	0.12	0.37	0.27	
15	0.42	0.35	-0.38	3.26	0.11	0.61	0.73	1.28	0.38	0.19	0.07	0.09	
16	0.58	0.57	0.39	1.50	0.23	0.85	0.73	1.18	0.40	0.18	0.00	0.22	
17	0.36	1.03	0.25	0.71	0.66	0.91	0.64	1.07	0.35	0.19	0.08	0.23	
18	-0.19	1.75	0.08	0.61	0.48	0.82	0.75	1.13	0.44	0.22	0.21	0.21	
19	-0.17	1.16	0.26	0.51	0.72	1.03	0.68	1.64	0.34	0.19	0.26	0.06	
20	0.10	1.10	0.29	0.55	0.70	1.94	0.83	2.02	0.26	0.27	-0.08	-0.03	
21	0.27	0.83	0.62	0.71	0.68	1.10	1.24	2.88	0.25	0.37	0.05	0.08	
22	0.39	0.11	0.29	0.61	0.61	0.69	0.81	4.10	0.20	0.40	0.05	0.02	
23	0.32	0.76	0.24	0.63	1.06	0.45	0.56	4.31	0.23	0.21	0.09	-0.08	
24	0.43	0.66	0.37	0.76	3.42	0.47	0.41	3.44	0.20	0.12	-0.07	-0.18	
25	0.51	0.58	0.42	0.65	4.01	0.44	0.34	2.28	0.27	0.08	0.08	-0.11	
26	0.67	0.46	-0.26	0.42	2.95	0.94	1.51	1.57	0.24	-0.07	0.12	-0.02	
27	0.69	0.65	0.11	0.37	1.23	1.66	1.83	1.47	0.17	-0.06	0.28	0.23	
28	0.45	0.54	0.33	0.36	1.15	1.83	1.44	1.11	0.10	0.11	0.32	0.41	
29	0.41	0.49	0.22	0.57	1.65	0.89	2.38	0.83	0.18	0.23	0.23	0.70	
30	0.28	0.43	0.11	0.32	1.98	1.26	2.35	0.88	0.13	0.23	0.23	0.76	
31		0.20		0.15	1.92		1.00		0.30	-0.04		0.35	
Mean	0.34	0.88	0.25	0.87	0.91	1.13	1.19	1.82	0.45	0.26	0.08	0.15	
Max	0.82	3.50	0.62	4.74	4.01	2.37	2.52	4.56	1.10	0.61	0.37	0.76	4.74
Min	-0.19	0.11	-0.38	-0.10	0.11	0.44	0.34	0.54	0.10	-0.07	-0.22	-0.29	-0.38
Annual Max Momentary Gage Height	4.86		m. (MSL.) ,			at 06.00 Hours , on Jul 14 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-3.01	m. (MSL)					
Left Bank Elevation	6.41		m. (MSL.) ,										
Right Bank Elevation	6.47		m. (MSL.) ,			Drainage Area	807	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	19.00	16.75	21.10	16.75	16.75	108.85	119.25	35.40	43.25	22.00	19.00	24.70		
2	15.00	16.75	20.50	16.00	21.10	110.15	64.00	36.60	42.80	21.10	19.30	24.70		
3	16.75	35.40	22.60	12.50	17.50	70.65	70.10	33.40	54.50	22.90	22.30	20.50		
4	13.25	178.00	20.80	16.75	16.75	63.50	60.50	30.60	49.10	20.80	20.50	22.60		
5	12.50	212.50	22.60	13.50	19.30	61.00	64.50	31.40	43.25	25.80	19.30	20.80		
6	20.20	90.45	26.20	11.50	34.60	127.05	136.80	91.00	41.00	33.40	17.50	19.30		
7	22.90	48.20	28.20	22.90	35.00	114.70	92.80	287.45	40.20	31.80	13.00	18.75		
8	41.90	48.65	27.00	23.20	31.40	63.00	56.30	311.20	35.80	30.20	13.25	15.25		
9	24.10	42.35	23.50	25.80	29.40	52.25	72.30	204.00	33.00	27.00	8.60	8.40		
10	31.00	46.40	28.20	45.05	26.60	42.35	52.25	81.65	29.00	24.70	14.25	7.20		
11	33.40	39.40	23.50	33.80	23.80	36.20	51.80	55.85	27.00	25.40	10.50	13.00		
12	34.60	42.35	21.70	121.85	22.60	29.80	43.70	50.45	24.40	21.70	9.50	11.00		
13	30.20	37.40	15.50	322.00	21.70	27.40	36.60	57.20	24.70	18.00	8.80	15.00		
14	20.20	29.80	13.75	329.00	18.75	29.40	37.00	60.00	24.10	17.00	24.10	21.10		
15	25.80	23.50	5.40	192.10	16.75	33.40	38.20	63.00	24.40	18.75	15.75	16.25		
16	32.20	31.80	24.70	74.50	19.90	43.25	38.20	58.10	25.00	18.50	14.00	19.60		
17	23.80	51.35	20.50	37.40	35.40	45.95	34.60	53.15	23.50	18.75	16.00	19.90		
18	9.25	88.25	16.00	33.40	28.20	41.90	39.00	55.85	26.60	19.60	19.30	19.30		
19	9.75	57.20	20.80	29.40	37.80	51.35	36.20	82.20	23.20	18.75	20.80	15.50		
20	16.50	54.50	21.70	31.00	37.00	99.40	42.35	104.30	20.80	21.10	12.00	13.25		
21	21.10	42.35	33.80	37.40	36.20	54.50	61.00	163.00	20.50	24.10	15.25	16.00		
22	24.70	16.75	21.70	33.40	33.40	36.60	41.45	267.50	19.00	25.00	15.25	14.50		
23	22.60	39.40	20.20	34.20	52.70	27.00	31.40	287.45	19.90	19.30	16.25	12.00		
24	26.20	35.40	24.10	39.40	205.70	27.80	25.40	207.40	19.00	17.00	12.25	9.50		
25	29.40	32.20	25.80	35.00	258.95	26.60	23.20	121.20	21.10	16.00	16.00	11.25		
26	35.80	27.40	7.80	25.80	168.25	47.30	75.05	78.35	20.20	12.25	17.00	13.50		
27	36.60	35.00	16.75	24.10	60.50	83.30	92.80	72.85	18.25	12.50	21.40	19.90		
28	27.00	30.60	22.90	23.80	56.75	92.80	71.20	54.95	16.50	16.75	22.60	25.40		
29	25.40	28.60	19.60	31.80	82.75	45.05	127.70	42.35	18.50	19.90	39.40	37.00		
30	21.40	26.20	16.75	22.60	101.80	62.00	125.75	44.60	17.25	19.90	39.40	39.40		
31		19.00		17.75	98.20		50.00		22.00	13.00		23.50		
Total	722.50	1523.90	633.65	1733.65	1665.50	1754.50	1911.40	3122.45	867.80	652.95	453.75	568.05	15610.10	CMSDAY
Mean	24.08	49.16	21.12	55.92	53.73	58.48	61.66	104.08	27.99	21.06	16.21	18.32	42.77	CMS
Max	41.90	212.50	33.80	329.00	258.95	127.05	136.80	311.20	54.50	33.40	24.10	39.40	329.00	CMS
Min	9.25	16.75	5.40	11.50	16.75	26.60	23.20	30.60	16.50	12.25	8.60	7.20	5.40	CMS
Runoff	62.42	131.67	54.75	149.79	143.90	151.59	165.15	269.78	74.98	56.42	39.20	49.08	1348.71	MCM
Momentary Peak	341.30 CMS. at 4.86 m. (MSL.) at 06.00 Hours , on Jul 14 , 2009													
Runoff Yield	52.94 Liters/Second/Square KM.			Momentary Peak Yield				422.479 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Sai Han , Trang (X.233)

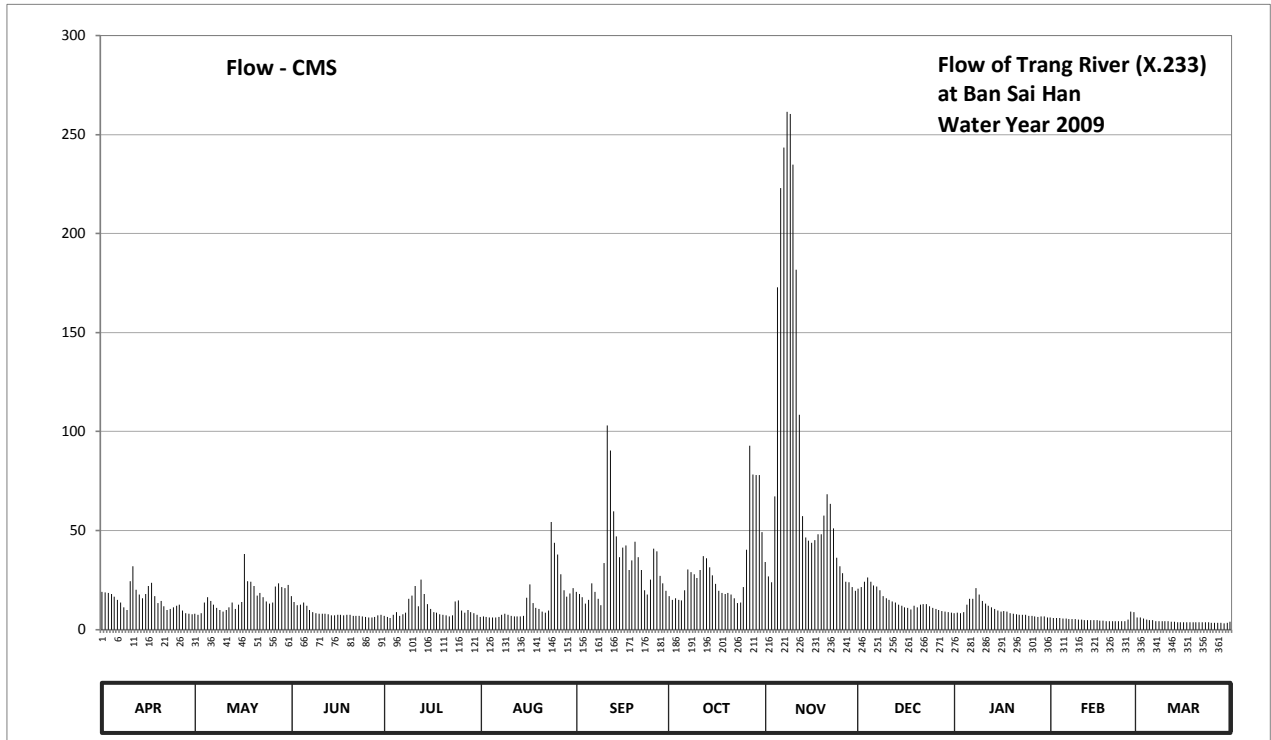
Lat 07 - 54 - 29 N Long 99 - 32 - 32 E

Location : on left bank at the bridge.

	Ban Sai Han	Amphoe Huai Yot	Changwat Trang
Drainage Area	1,478 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge	Elevation	+24.186 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 means of 5 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.25	13.50	14.12	13.39	13.33	14.25	14.13	15.03	14.35	13.52	13.30	13.32	
2	14.24	13.43	13.92	13.34	13.35	14.19	14.00	14.69	14.40	13.54	13.29	13.30	
3	14.22	13.51	13.82	13.27	13.34	14.09	14.05	14.53	14.55	13.52	13.28	13.25	
4	14.19	13.91	13.83	13.44	13.32	13.88	14.00	16.39	14.66	13.58	13.27	13.20	
5	14.10	14.09	13.90	13.57	13.32	13.99	13.98	19.35	14.55	13.83	13.26	13.18	
6	13.99	13.97	13.80	13.40	13.32	14.50	14.30	20.45	14.45	14.03	13.25	13.15	
7	13.90	13.83	13.65	13.46	13.33	14.26	14.86	20.88	14.41	14.04	13.24	13.10	
8	13.74	13.72	13.57	13.54	13.45	14.04	14.80	21.25	14.30	14.37	13.23	13.10	
9	13.65	13.65	13.52	14.04	13.49	13.82	14.74	21.23	14.13	14.17	13.22	13.10	
10	14.57	13.60	13.50	14.15	13.44	15.00	14.65	20.70	14.05	13.97	13.21	13.09	
11	14.93	13.65	13.50	14.42	13.39	17.59	14.85	19.55	14.00	13.87	13.20	13.08	
12	14.32	13.74	13.49	13.78	13.36	17.18	15.16	17.74	13.95	13.80	13.18	13.07	
13	14.18	13.91	13.46	14.61	13.35	16.09	15.11	15.99	13.90	13.75	13.17	13.05	
14	14.06	13.70	13.42	14.20	13.37	15.58	14.91	15.56	13.84	13.69	13.16	13.03	
15	14.20	13.84	13.42	13.86	13.40	15.14	14.72	15.50	13.80	13.63	13.15	13.03	
16	14.43	13.93	13.45	13.69	14.07	15.35	14.49	15.45	13.74	13.60	13.15	13.03	
17	14.52	15.21	13.43	13.58	14.47	15.40	14.29	15.51	13.73	13.62	13.14	13.02	
18	14.13	14.57	13.42	13.54	13.89	14.85	14.22	15.62	13.67	13.60	13.12	13.02	
19	13.89	14.55	13.45	13.48	13.72	15.06	14.20	15.62	13.80	13.53	13.10	13.02	
20	13.96	14.43	13.45	13.43	13.69	15.47	14.22	16.00	13.75	13.50	13.08	13.01	
21	13.78	14.14	13.40	13.41	13.60	15.14	14.18	16.43	13.83	13.48	13.08	13.01	
22	13.65	14.23	13.40	13.37	13.55	14.85	14.06	16.24	13.85	13.45	13.08	13.01	
23	13.70	14.09	13.38	13.41	13.63	14.31	13.89	15.74	13.86	13.45	13.08	13.02	
24	13.75	13.95	13.35	13.94	15.87	14.18	13.90	15.12	13.79	13.43	13.09	13.01	
25	13.80	13.88	13.33	13.98	15.45	14.61	14.40	14.93	13.72	13.40	13.09	13.00	
26	13.83	13.90	13.32	13.64	15.20	15.32	15.30	14.77	13.70	13.40	13.20	12.99	
27	13.63	14.41	13.30	13.55	14.74	15.27	17.26	14.55	13.65	13.37	13.60	12.98	
28	13.52	14.51	13.33	13.65	14.30	14.70	16.78	14.54	13.62	13.33	13.57	12.97	
29	13.50	14.40	13.42	13.59	14.11	14.50	16.77	14.40	13.61	13.36		12.95	
30	13.48	14.36	13.45	13.51	14.21	14.29	16.77	14.29	13.57	13.35		12.99	
31		14.46		13.43	14.37		15.67		13.55	13.31		13.04	
Mean	14.00	14.03	13.53	13.67	13.85	14.90	14.80	16.60	13.96	13.63	13.21	13.07	
Max	14.93	15.21	14.12	14.61	15.87	17.59	17.26	21.25	14.66	14.37	13.60	13.32	21.25
Min	13.48	13.43	13.30	13.27	13.32	13.82	13.89	14.29	13.55	13.31	13.08	12.95	12.95
Annual Max Momentary Gage Height		21.30		m. (MSL.) ,			at 18.00 Hours , on Nov 8 , 2009						
Zero Gage at Bottom Elevation		0.00		m. (MSL.) ,			River Bed 12.22		m. (MSL)				
Left Bank Elevation		24.39		m. (MSL.) ,									
Right Bank Elevation		24.51		m. (MSL.) ,			Drainage Area 1478		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.88	8.00	16.80	6.90	6.30	18.88	16.95	34.17	20.63	8.20	6.00	6.20	
2	18.70	7.30	13.80	6.40	6.50	17.85	15.00	26.80	21.50	8.40	5.90	6.00	
3	18.35	8.10	12.30	5.70	6.40	16.35	15.75	23.77	24.12	8.20	5.80	5.50	
4	17.85	13.65	12.45	7.40	6.20	13.20	15.00	67.25	26.20	8.80	5.70	5.00	
5	16.50	16.35	13.50	8.70	6.20	14.85	14.70	172.88	24.12	12.45	5.60	4.85	
6	14.85	14.55	12.00	7.00	6.20	23.25	19.75	222.88	22.37	15.45	5.50	4.62	
7	13.50	12.45	9.75	7.60	6.30	19.05	30.35	243.30	21.67	15.60	5.40	4.25	
8	11.10	10.80	8.70	8.40	7.50	15.60	29.00	261.50	19.75	20.97	5.30	4.25	
9	9.75	9.75	8.20	15.60	7.90	12.30	27.80	260.50	16.95	17.55	5.20	4.25	
10	24.47	9.00	8.00	17.25	7.40	33.50	26.00	234.75	15.75	14.55	5.10	4.18	
11	31.93	9.75	8.00	21.85	6.90	103.17	30.13	181.75	15.00	13.05	5.00	4.10	
12	20.10	11.10	7.90	11.70	6.60	90.40	37.10	108.40	14.25	12.00	4.85	4.02	
13	17.70	13.65	7.60	25.20	6.50	59.75	35.97	57.25	13.50	11.25	4.78	3.88	
14	15.90	10.50	7.20	18.00	6.70	47.00	31.47	46.50	12.60	10.35	4.70	3.72	
15	18.00	12.60	7.20	12.90	7.00	36.65	27.40	45.00	12.00	9.45	4.62	3.72	
16	22.03	13.95	7.50	10.35	16.05	41.38	23.07	43.75	11.10	9.00	4.62	3.72	
17	23.60	38.23	7.30	8.80	22.73	42.50	19.57	45.25	10.95	9.30	4.55	3.65	
18	16.95	24.47	7.20	8.40	13.35	30.13	18.35	48.00	10.05	9.00	4.40	3.65	
19	13.35	24.12	7.50	7.80	10.80	34.85	18.00	48.00	12.00	8.30	4.25	3.65	
20	14.40	22.03	7.50	7.30	10.35	44.25	18.35	57.50	11.25	8.00	4.10	3.58	
21	11.70	17.10	7.00	7.10	9.00	36.65	17.70	68.33	12.45	7.80	4.10	3.58	
22	9.75	18.52	7.00	6.70	8.50	30.13	15.90	63.50	12.75	7.50	4.10	3.58	
23	10.50	16.35	6.80	7.10	9.45	19.93	13.35	51.00	12.90	7.50	4.10	3.65	
24	11.25	14.25	6.50	14.10	54.25	17.70	13.50	36.20	11.85	7.30	4.18	3.58	
25	12.00	13.20	6.30	14.70	43.75	25.20	21.50	31.93	10.80	7.00	4.18	3.50	
26	12.45	13.50	6.20	9.60	38.00	40.70	40.25	28.40	10.50	7.00	5.00	3.42	
27	9.45	21.67	6.00	8.50	27.80	39.58	92.80	24.12	9.75	6.70	9.00	3.35	
28	8.20	23.42	6.30	9.75	19.75	27.00	78.40	23.95	9.30	6.30	8.70	3.28	
29	8.00	21.50	7.20	8.90	16.65	23.25	78.10	21.50	9.15	6.60		3.12	
30	7.80	20.80	7.50	8.10	18.18	19.57	78.10	19.57	8.70	6.50		3.42	
31		22.55		7.30	20.97		49.25		8.50	6.10		3.80	
Total	459.01	493.21	257.20	325.10	440.18	994.62	968.56	2597.70	452.41	306.17	144.73	125.07	7563.96 CMSDAY
Mean	15.30	15.91	8.57	10.49	14.20	33.15	31.24	86.59	14.59	9.88	5.17	4.03	20.72 CMS
Max	31.93	38.23	16.80	25.20	54.25	103.17	92.80	261.50	26.20	20.97	9.00	6.20	261.50 CMS
Min	7.80	7.30	6.00	5.70	6.20	12.30	13.35	19.57	8.50	6.10	4.10	3.12	3.12 CMS
Runoff	39.66	42.61	22.22	28.09	38.03	85.94	83.68	224.44	39.09	26.45	12.51	10.81	653.53 MCM
Momentary Peak	264.00 CMS. at 21.30 m. (MSL.) at 18.00 Hours , on Nov 8 , 2009												
Runoff Yield	14.02 Liters/Second/Square KM.			Momentary Peak Yield			178.600 Liters/Second/Square KM.						

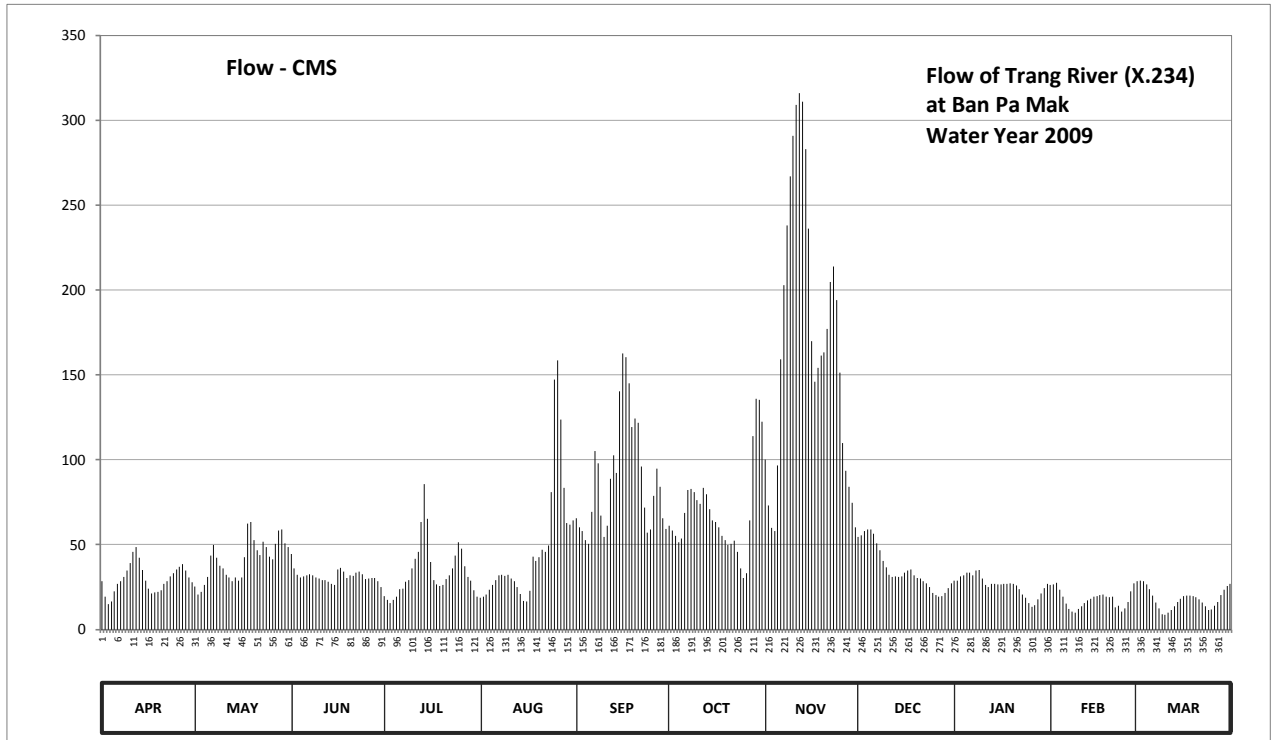
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Pa Mak , Trang (X.234)
 Lat 07 - 35 - 21 N Long 99 - 34 - 39 E

Location : on left bank at Ban Pa Mak.

	Ban	Pa Mak	Amphoe	Mueang	Changwat	Trang
Drainage Area	2,808 sq.km.					
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+6.388 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.69	0.59	1.12	0.41	0.37	1.57	1.48	2.17	1.34	0.70	0.62	0.69	
2	0.40	0.44	0.91	0.33	0.40	1.46	1.42	1.71	1.36	0.70	0.63	0.70	
3	0.24	0.49	0.81	0.26	0.44	1.41	1.35	1.45	1.41	0.78	0.66	0.69	
4	0.29	0.62	0.76	0.33	0.53	1.30	1.27	1.41	1.43	0.80	0.53	0.63	
5	0.50	0.77	0.78	0.40	0.62	1.25	1.32	2.11	1.43	0.84	0.39	0.54	
6	0.64	1.10	0.80	0.54	0.71	1.64	1.63	3.06	1.38	0.84	0.25	0.42	
7	0.69	1.24	0.82	0.55	0.80	2.25	1.87	3.60	1.26	0.80	0.10	0.27	
8	0.77	1.07	0.80	0.68	0.81	2.13	1.88	3.99	1.17	0.88	0.02	0.12	
9	0.88	0.96	0.76	0.71	0.79	1.60	1.85	4.29	1.03	0.89	-0.01	-0.05	
10	1.00	0.91	0.74	0.91	0.81	1.34	1.77	4.53	0.93	0.74	0.11	-0.07	
11	1.15	0.81	0.71	1.06	0.74	1.48	1.73	4.71	0.81	0.62	0.19	-0.01	
12	1.21	0.76	0.71	1.15	0.69	1.98	1.89	4.78	0.77	0.58	0.26	0.07	
13	1.07	0.69	0.68	1.52	0.58	2.21	1.83	4.73	0.78	0.64	0.31	0.18	
14	0.89	0.76	0.64	1.93	0.45	2.04	1.67	4.45	0.77	0.64	0.35	0.28	
15	0.70	0.70	0.62	1.56	0.30	2.79	1.54	3.97	0.78	0.63	0.39	0.35	
16	0.55	0.76	0.90	1.02	0.29	3.11	1.52	3.21	0.84	0.63	0.41	0.41	
17	0.46	1.08	0.92	0.71	0.51	3.08	1.46	2.87	0.88	0.64	0.43	0.42	
18	0.48	1.50	0.86	0.63	1.09	2.86	1.35	2.99	0.90	0.64	0.44	0.42	
19	0.49	1.52	0.75	0.60	1.03	2.48	1.30	3.09	0.80	0.65	0.40	0.41	
20	0.52	1.30	0.80	0.62	1.08	2.56	1.24	3.12	0.75	0.64	0.38	0.38	
21	0.64	1.17	0.79	0.73	1.18	2.52	1.25	3.30	0.74	0.61	0.39	0.34	
22	0.69	1.11	0.84	0.80	1.15	2.10	1.29	3.62	0.69	0.54	0.15	0.27	
23	0.78	1.28	0.86	0.91	1.23	1.69	1.15	3.72	0.65	0.44	0.20	0.18	
24	0.83	1.21	0.82	1.10	1.85	1.39	0.91	3.50	0.58	0.37	0.03	0.08	
25	0.90	1.09	0.73	1.27	2.89	1.43	0.75	2.95	0.47	0.26	0.12	0.09	
26	0.94	1.05	0.74	1.19	3.05	1.81	0.83	2.33	0.43	0.17	0.28	0.20	
27	0.99	1.25	0.75	0.95	2.55	2.08	1.54	2.06	0.39	0.21	0.50	0.28	
28	0.88	1.42	0.75	0.77	1.89	1.90	2.40	1.90	0.41	0.34	0.65	0.43	
29	0.76	1.43	0.69	0.70	1.51	1.57	2.73	1.74	0.47	0.46		0.53	
30	0.67	1.26	0.58	0.52	1.49	1.44	2.72	1.46	0.56	0.56		0.60	
31	1.21		0.39	1.54		2.53		0.65	0.64			0.64	
Mean	0.72	1.02	0.78	0.81	1.08	1.95	1.60	3.09	0.87	0.61	0.33	0.34	
Max	1.21	1.52	1.12	1.93	3.05	3.11	2.73	4.78	1.43	0.89	0.66	0.70	4.78
Min	0.24	0.44	0.58	0.26	0.29	1.25	0.75	1.41	0.39	0.17	-0.01	-0.07	-0.07
Annual Max Momentary Gage Height	4.79		m. (MSL.) ,			at 14.00 Hours ,	on Nov 12 ,	2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-1.98	m. (MSL)					
Left Bank Elevation		6.65		m. (MSL.) ,									
Right Bank Elevation		6.68		m. (MSL.) ,		Drainage Area	2808	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.42	25.20	44.40	19.80	18.68	65.58	61.30	100.20	54.65	28.75	26.15	28.42	
2	19.50	20.70	35.85	17.57	19.50	60.35	58.45	73.05	55.60	28.75	26.47	28.75	
3	15.10	22.20	32.35	15.65	20.70	57.97	55.13	59.88	57.97	31.35	27.45	28.42	
4	16.47	26.15	30.70	17.57	23.40	52.75	51.32	57.97	58.92	32.00	23.40	26.47	
5	22.50	31.02	31.35	19.50	26.15	50.37	53.70	96.60	58.92	33.40	19.22	23.70	
6	26.80	43.50	32.00	23.70	29.07	69.20	68.65	159.20	56.55	33.40	15.38	20.10	
7	28.42	49.90	32.70	24.00	32.00	105.00	82.20	203.00	50.85	32.00	12.00	15.93	
8	31.02	42.15	32.00	28.10	32.35	97.80	82.80	238.10	46.65	34.80	10.40	12.40	
9	34.80	37.60	30.70	29.07	31.68	67.00	81.00	267.00	40.35	35.15	9.80	9.00	
10	39.00	35.85	30.05	35.85	32.35	54.65	76.35	291.00	36.55	30.05	12.20	8.60	
11	45.75	32.35	29.07	41.70	30.05	61.30	74.15	309.00	32.35	26.15	13.80	9.80	
12	48.47	30.70	29.07	45.75	28.42	88.80	83.40	316.00	31.02	24.90	15.65	11.40	
13	42.15	28.42	28.10	63.20	24.90	102.60	79.80	311.00	31.35	26.80	17.02	13.60	
14	35.15	30.70	26.80	85.80	21.00	92.40	70.85	283.00	31.02	26.80	18.12	16.20	
15	28.75	28.75	26.15	65.10	16.75	140.30	64.15	236.30	31.35	26.47	19.22	18.12	
16	24.00	30.70	35.50	39.90	16.47	162.70	63.20	169.80	33.40	26.47	19.80	19.80	
17	21.30	42.60	36.20	29.07	22.80	160.60	60.35	145.90	34.80	26.80	20.40	20.10	
18	21.90	62.25	34.10	26.47	43.05	145.20	55.13	154.30	35.50	26.80	20.70	20.10	
19	22.20	63.20	30.37	25.50	40.35	119.20	52.75	161.30	32.00	27.12	19.50	19.80	
20	23.10	52.75	32.00	26.15	42.60	124.40	49.90	163.40	30.37	26.80	18.95	18.95	
21	26.80	46.65	31.68	29.72	47.10	121.80	50.37	177.00	30.05	25.82	19.22	17.85	
22	28.42	43.95	33.40	32.00	45.75	96.00	52.27	204.80	28.42	23.70	13.00	15.93	
23	31.35	51.80	34.10	35.85	49.43	71.95	45.75	213.80	27.12	20.70	14.00	13.60	
24	33.05	48.47	32.70	43.50	81.00	57.02	35.85	194.00	24.90	18.68	10.60	11.60	
25	35.50	43.05	29.72	51.32	147.30	58.92	30.37	151.50	21.60	15.65	12.40	11.80	
26	36.90	41.25	30.05	47.55	158.50	78.60	33.05	109.80	20.40	13.40	16.20	14.00	
27	38.65	50.37	30.37	37.25	123.75	94.80	64.15	93.60	19.22	14.27	22.50	16.20	
28	34.80	58.45	30.37	31.02	83.40	84.00	114.00	84.00	19.80	17.85	27.12	20.40	
29	30.70	58.92	28.42	28.75	62.72	65.58	136.10	74.70	21.60	21.30	23.40	23.40	
30	27.77	50.85	24.90	23.10	61.78	59.40	135.40	60.35	24.30	24.30	25.50	25.50	
31		48.47		19.22	64.15		122.45		27.12	26.80		26.80	
Total	898.74	1278.92	945.17	1058.73	1477.15	2666.24	2144.34	5159.55	1104.70	807.23	500.67	566.74	18608.18 CMSDAY
Mean	29.96	41.26	31.51	34.15	47.65	88.87	69.17	171.99	35.64	26.04	17.88	18.28	50.98 CMS
Max	48.47	63.20	44.40	85.80	158.50	162.70	136.10	316.00	58.92	35.15	27.45	28.75	316.00 CMS
Min	15.10	20.70	24.90	15.65	16.47	50.37	30.37	57.97	19.22	13.40	9.80	8.60	8.60 CMS
Runoff	77.65	110.50	81.66	91.47	127.63	230.36	185.27	445.79	95.45	69.75	43.26	48.97	1607.75 MCM
Momentary Peak	317.00 CMS. at 4.79 m. (MSL.) at 14.00 Hours , on Nov 12 , 2009												
Runoff Yield	18.15 Liters/Second/Square KM.			Momentary Peak Yield			112.873 Liters/Second/Square KM.						

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Lam Phikul at Ban Pak Khlong , Trang (X.235)

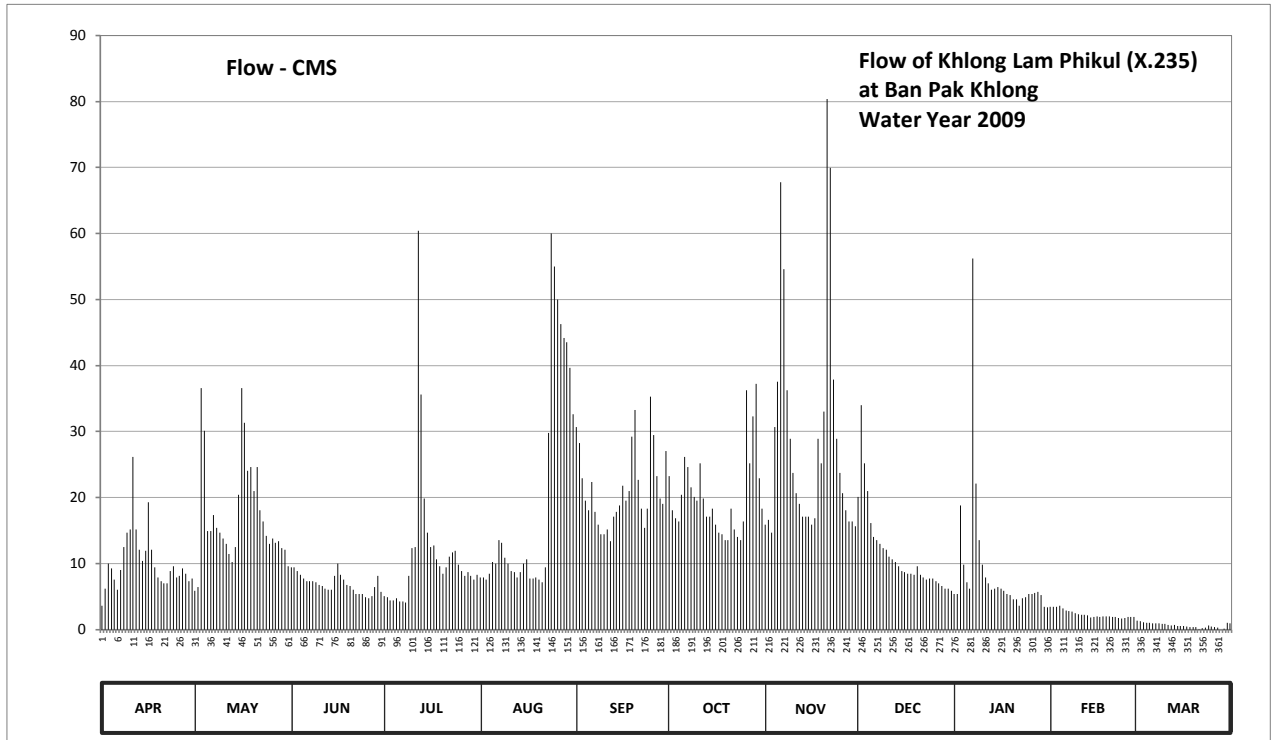
Lat 07 - 24 - 37 N Long 99 - 46 - 00 E

Location : on right bank at Ban Pak Khlong.

	Ban	Pak Khlong	Amphoe	Yan Ta Khao	Changwat	Trang
Drainage Area	116	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+16.603 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.24	9.38	9.57	9.33	9.49	10.40	10.15	9.87	10.04	9.35	9.23	9.00	
2	9.40	9.41	9.57	9.32	9.49	10.32	9.96	9.90	10.50	9.35	9.23	8.99	
3	9.60	10.58	9.54	9.29	9.47	10.14	9.91	9.82	10.22	9.99	9.23	8.97	
4	9.56	10.38	9.51	9.29	9.52	10.02	9.89	10.40	10.07	9.59	9.24	8.96	
5	9.47	9.83	9.48	9.31	9.61	9.96	10.05	10.61	9.88	9.45	9.21	8.96	
6	9.39	9.83	9.46	9.28	9.60	10.12	10.25	11.36	9.79	9.40	9.19	8.95	
7	9.55	9.93	9.46	9.28	9.77	9.95	10.20	11.05	9.77	11.09	9.18	8.94	
8	9.72	9.85	9.46	9.27	9.75	9.87	10.09	10.57	9.74	10.11	9.17	8.94	
9	9.82	9.82	9.45	9.50	9.64	9.81	10.04	10.34	9.71	9.77	9.14	8.93	
10	9.84	9.78	9.43	9.71	9.60	9.81	10.02	10.17	9.70	9.59	9.12	8.93	
11	10.25	9.74	9.42	9.72	9.54	9.84	10.22	10.06	9.65	9.49	9.11	8.91	
12	9.84	9.67	9.40	11.19	9.53	9.76	10.03	10.00	9.63	9.44	9.11	8.90	
13	9.70	9.61	9.39	10.55	9.49	9.92	9.92	9.92	9.61	9.39	9.10	8.91	
14	9.62	9.72	9.39	10.03	9.53	9.95	9.92	9.92	9.58	9.40	9.06	8.88	
15	9.69	10.05	9.50	9.82	9.60	9.99	9.97	9.92	9.54	9.41	9.07	8.88	
16	10.01	10.58	9.60	9.72	9.63	10.10	9.87	9.87	9.53	9.40	9.08	8.88	
17	9.70	10.42	9.51	9.73	9.48	10.02	9.82	9.91	9.52	9.38	9.07	8.87	
18	9.57	10.18	9.47	9.63	9.48	10.07	9.81	10.34	9.52	9.35	9.08	8.85	
19	9.49	10.20	9.43	9.58	9.49	10.35	9.77	10.22	9.51	9.34	9.08	8.85	
20	9.46	10.07	9.42	9.52	9.47	10.48	9.77	10.47	9.58	9.30	9.08	8.85	
21	9.44	10.20	9.39	9.57	9.45	10.13	9.97	11.64	9.51	9.30	9.07	8.81	
22	9.44	9.96	9.35	9.65	9.57	9.97	9.84	11.41	9.49	9.24	9.07	8.83	
23	9.54	9.89	9.35	9.68	10.37	9.85	9.79	10.62	9.47	9.31	9.05	8.84	
24	9.58	9.80	9.35	9.69	11.18	9.97	9.77	10.34	9.48	9.32	9.04	8.90	
25	9.49	9.74	9.32	9.59	11.06	10.54	9.89	10.17	9.48	9.35	9.05	8.87	
26	9.50	9.78	9.31	9.54	10.94	10.36	10.57	10.06	9.46	9.35	9.07	8.86	
27	9.56	9.75	9.33	9.50	10.85	10.15	10.22	9.96	9.44	9.36	9.07	8.84	
28	9.52	9.76	9.41	9.53	10.80	10.03	10.45	9.89	9.42	9.37	9.07	8.78	
29	9.46	9.71	9.50	9.50	10.78	10.00	10.60	9.89	9.40	9.34		8.82	
30	9.48	9.70	9.37	9.47	10.67	10.28	10.14	9.86	9.40	9.23		8.96	
31		9.58		9.51	10.46		9.97		9.38	9.22		8.95	
Mean	9.60	9.90	9.44	9.62	9.91	10.07	10.03	10.29	9.65	9.48	9.12	8.90	
Max	10.25	10.58	9.60	11.19	11.18	10.54	10.60	11.64	10.50	11.09	9.24	9.00	11.64
Min	9.24	9.38	9.31	9.27	9.45	9.76	9.77	9.82	9.38	9.22	9.04	8.78	8.78
Annual Max Momentary Gage Height	12.57		m. (MSL.) ,					at 23.00 Hours , on Nov 21 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	8.20	m. (MSL)					
Left Bank Elevation	16.61		m. (MSL.) ,										
Right Bank Elevation	16.59		m. (MSL.) ,			Drainage Area	116	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.64	5.88	9.43	5.08	7.91	30.70	23.20	15.88	20.12	5.40	3.48	1.30	
2	6.20	6.39	9.43	4.92	7.91	28.26	18.04	16.60	33.95	5.40	3.48	1.23	
3	10.00	36.55	8.86	4.44	7.53	22.92	16.84	14.68	25.21	18.76	3.48	1.11	
4	9.24	30.09	8.29	4.44	8.48	19.56	16.36	30.70	20.96	9.81	3.64	1.04	
5	7.53	14.92	7.72	4.76	10.21	18.04	20.40	37.55	16.12	7.15	3.16	1.04	
6	6.04	14.92	7.34	4.28	10.00	22.36	26.13	67.76	13.99	6.20	2.91	0.97	
7	9.05	17.32	7.34	4.28	13.57	17.80	24.60	54.58	13.57	56.24	2.83	0.91	
8	12.52	15.40	7.34	4.12	13.15	15.88	21.52	36.22	12.94	22.08	2.75	0.91	
9	14.68	14.68	7.15	8.10	10.84	14.44	20.12	28.87	12.31	13.57	2.49	0.85	
10	15.16	13.78	6.77	12.31	10.00	14.44	19.56	23.76	12.10	9.81	2.32	0.85	
11	26.13	12.94	6.58	12.52	8.86	15.16	25.21	20.68	11.05	7.91	2.23	0.71	
12	15.16	11.47	6.20	60.38	8.67	13.36	19.84	19.00	10.63	6.96	2.23	0.65	
13	12.10	10.21	6.04	35.58	7.91	17.08	17.08	17.08	10.21	6.04	2.15	0.71	
14	10.42	12.52	6.04	19.84	8.67	17.80	17.08	17.08	9.62	6.20	1.81	0.52	
15	11.89	20.40	8.10	14.68	10.00	18.76	18.28	17.08	8.86	6.39	1.89	0.52	
16	19.28	36.55	10.00	12.52	10.63	21.80	15.88	15.88	8.67	6.20	1.98	0.52	
17	12.10	31.35	8.29	12.73	7.72	19.56	14.68	16.84	8.48	5.88	1.89	0.45	
18	9.43	24.04	7.53	10.63	7.72	20.96	14.44	28.87	8.48	5.40	1.98	0.33	
19	7.91	24.60	6.77	9.62	7.91	29.18	13.57	25.21	8.29	5.24	1.98	0.33	
20	7.34	20.96	6.58	8.48	7.53	33.30	13.57	32.98	9.62	4.60	1.98	0.33	
21	6.96	24.60	6.04	9.43	7.15	22.64	18.28	80.40	8.29	4.60	1.89	0.07	
22	6.96	18.04	5.40	11.05	9.43	18.28	15.16	69.95	7.91	3.64	1.89	0.19	
23	8.86	16.36	5.40	11.68	29.79	15.40	13.99	37.90	7.53	4.76	1.73	0.26	
24	9.62	14.20	5.40	11.89	59.97	18.28	13.57	28.87	7.72	4.92	1.64	0.65	
25	7.91	12.94	4.92	9.81	54.99	35.25	16.36	23.76	7.72	5.40	1.73	0.45	
26	8.10	13.78	4.76	8.86	50.01	29.48	36.22	20.68	7.34	5.40	1.89	0.39	
27	9.24	13.15	5.08	8.10	46.28	23.20	25.21	18.04	6.96	5.56	1.89	0.26	
28	8.48	13.36	6.39	8.67	44.20	19.84	32.33	16.36	6.58	5.72	1.89	0.00	
29	7.34	12.31	8.10	8.10	43.50	19.00	37.20	16.36	6.20	5.24	1.98	0.13	
30	7.72	12.10	5.72	7.53	39.65	27.04	22.92	15.64	6.20	3.48	1.70	1.04	
31		9.62		8.29	32.65		18.28		5.88	3.32		0.97	
Total	307.01	535.43	209.01	357.12	602.84	639.77	625.92	865.26	353.51	267.28	65.21	19.69	4848.05 CMSDAY
Mean	10.23	17.27	6.97	11.52	19.45	21.33	20.19	28.84	11.40	8.62	2.33	0.64	13.28 CMS
Max	26.13	36.55	10.00	60.38	59.97	35.25	37.20	80.40	33.95	56.24	3.64	1.30	80.40 CMS
Min	3.64	5.88	4.76	4.12	7.15	13.36	13.57	14.68	5.88	3.32	1.64	0.00	0.00 CMS
Runoff	26.53	46.26	18.06	30.86	52.09	55.28	54.08	74.76	30.54	23.09	5.63	1.70	418.87 MCM
Momentary Peak	126.92 CMS. at 12.57 m. (MSL.) at 23.00 Hours , on Nov 21 , 2009												
Runoff Yield	114.00 Liters/Second/Square KM.			Momentary Peak Yield				189.349 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

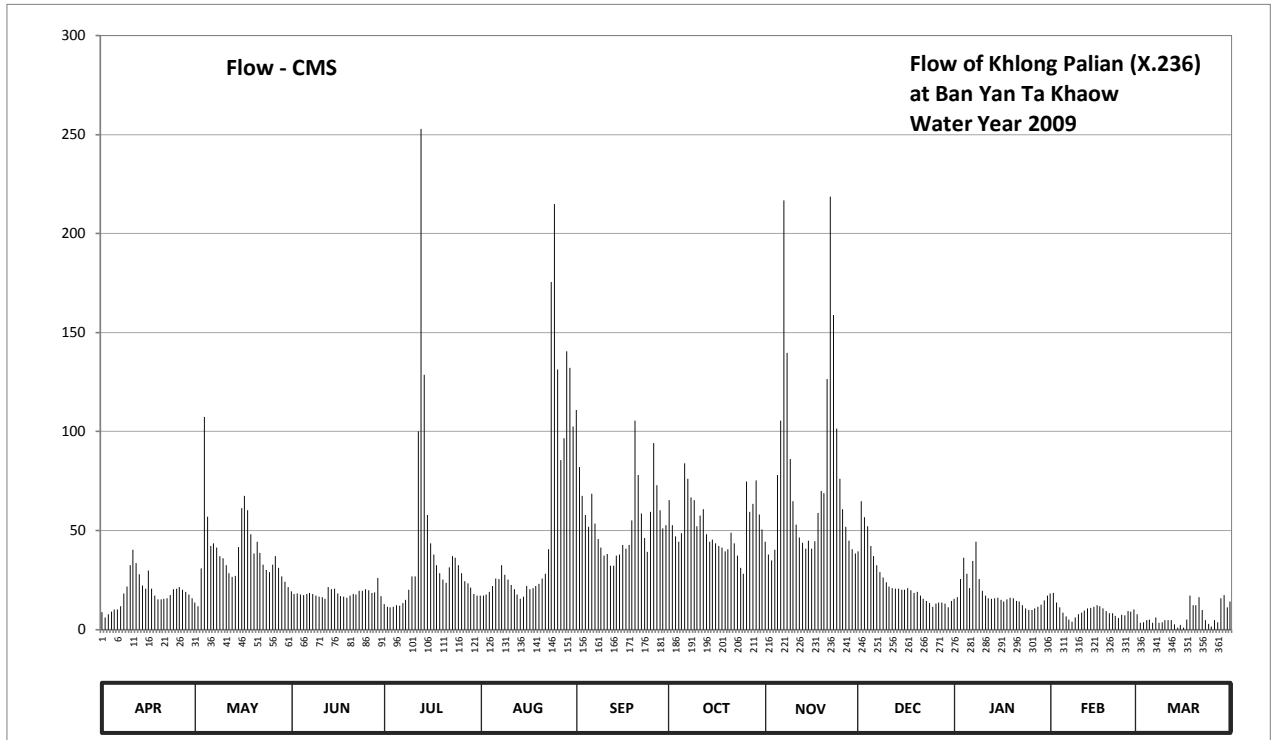
Lat 07 - 22 - 20 N Long 99 - 40 - 39 E

Location : on right bank at Ban Yan Ta Khaow.

	Ban	Yan Ta Khaow	Amphoe	Yan Ta Khaow	Changwat	Trang
Drainage Area	587	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+5.628 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 45 discharge measurements made in 2009.					

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.19	0.42	0.65	0.39	0.56	2.80	1.94	1.43	1.30	0.50	0.61	0.13	
2	0.06	0.34	0.60	0.33	0.56	2.30	1.64	1.25	1.93	0.53	0.62	-0.11	
3	0.13	1.05	0.61	0.31	0.59	1.99	1.50	1.17	1.74	0.88	0.42	-0.09	
4	0.20	2.74	0.59	0.33	0.64	1.77	1.43	1.32	1.63	1.21	0.31	-0.02	
5	0.25	1.75	0.58	0.36	0.76	1.62	1.54	2.22	1.38	0.97	0.18	0.00	
6	0.26	1.38	0.60	0.35	0.89	2.01	2.34	2.71	1.23	0.72	0.08	-0.11	
7	0.34	1.41	0.62	0.41	0.88	1.66	2.18	4.24	1.10	1.16	0.00	0.05	
8	0.61	1.35	0.60	0.48	1.10	1.47	1.97	3.24	1.00	1.43	-0.07	-0.11	
9	0.75	1.23	0.56	0.68	0.95	1.35	1.94	2.38	0.91	0.88	0.05	-0.09	
10	1.10	1.20	0.54	0.93	0.87	1.24	1.63	1.93	0.83	0.66	0.14	-0.01	
11	1.32	1.10	0.53	0.93	0.78	1.26	1.76	1.65	0.75	0.57	0.17	-0.02	
12	1.13	0.98	0.50	2.62	0.69	1.09	1.84	1.49	0.72	0.51	0.23	-0.02	
13	0.96	0.92	0.74	4.62	0.59	1.09	1.53	1.42	0.71	0.50	0.28	-0.16	
14	0.77	0.94	0.69	3.08	0.50	1.24	1.43	1.34	0.70	0.51	0.30	-0.31	
15	0.70	1.36	0.70	1.77	0.54	1.25	1.46	1.45	0.68	0.52	0.32	-0.18	
16	1.02	1.85	0.61	1.41	0.76	1.39	1.41	1.34	0.68	0.48	0.36	-0.30	
17	0.71	1.99	0.55	1.25	0.69	1.34	1.38	1.44	0.72	0.45	0.34	0.00	
18	0.57	1.83	0.54	1.10	0.72	1.39	1.35	1.80	0.67	0.49	0.28	0.57	
19	0.49	1.53	0.52	0.98	0.76	1.70	1.30	2.04	0.62	0.52	0.22	0.36	
20	0.49	1.27	0.56	0.87	0.80	2.71	1.33	2.02	0.64	0.51	0.16	0.36	
21	0.50	1.43	0.60	0.82	0.89	2.22	1.55	3.05	0.57	0.46	0.16	0.53	
22	0.51	1.28	0.59	1.07	0.97	1.79	1.41	4.26	0.50	0.45	0.09	0.24	
23	0.58	1.11	0.66	1.23	1.33	1.48	1.24	3.51	0.46	0.36	0.04	-0.02	
24	0.69	1.03	0.66	1.21	3.74	1.29	1.06	2.64	0.41	0.28	0.12	-0.15	
25	0.71	1.00	0.69	1.10	4.22	1.81	0.97	2.18	0.33	0.24	0.11	-0.24	
26	0.74	1.11	0.67	0.98	3.12	2.52	2.15	1.84	0.40	0.24	0.21	-0.02	
27	0.68	1.23	0.62	0.85	2.37	2.11	1.81	1.62	0.42	0.28	0.20	-0.09	
28	0.64	1.06	0.63	0.81	2.56	1.83	1.90	1.45	0.43	0.33	0.26	0.51	
29	0.59	0.93	0.90	0.73	3.25	1.60	2.16	1.33	0.40	0.38		0.58	
30	0.51	0.84	0.55	0.60	3.13	1.64	1.78	1.27	0.31	0.47		0.31	
31		0.74		0.56	2.66		1.59		0.46	0.57		0.45	
Mean	0.61	1.24	0.62	1.07	1.38	1.70	1.63	2.03	0.79	0.58	0.22	0.07	
Max	1.32	2.74	0.90	4.62	4.22	2.80	2.34	4.26	1.93	1.43	0.62	0.58	4.62
Min	0.06	0.34	0.50	0.31	0.50	1.09	0.97	1.17	0.31	0.24	-0.07	-0.31	-0.31
Annual Max Momentary Gage Height	4.85		m. (MSL.) ,			at 13.00 Hours , on Jul 13 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-1.04	m. (MSL)					
Left Bank Elevation	7.44		m. (MSL.) ,										
Right Bank Elevation	7.44		m. (MSL.) ,			Drainage Area	587	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.80	13.50	19.25	12.80	17.00	111.00	65.30	44.20	39.50	15.50	18.25	7.60		
2	6.20	11.80	18.00	11.60	17.00	82.00	52.60	37.75	64.85	16.25	18.50	3.35		
3	7.60	30.75	18.25	11.20	17.75	67.55	47.00	34.95	56.60	25.40	13.50	3.65		
4	9.00	107.40	17.75	11.60	19.00	57.80	44.20	40.20	52.20	36.35	11.20	4.70		
5	10.00	57.00	17.50	12.20	22.00	51.80	48.60	78.00	42.30	28.10	8.60	5.00		
6	10.20	42.30	18.00	12.00	25.70	68.45	84.00	105.60	37.05	21.00	6.60	3.35		
7	11.80	43.40	18.50	13.25	25.40	53.40	76.10	216.80	32.50	34.60	5.00	6.00		
8	18.25	41.25	18.00	15.00	32.50	45.80	66.65	139.80	29.00	44.20	3.95	3.35		
9	21.75	37.05	17.00	20.00	27.50	41.25	65.30	86.00	26.30	25.40	6.00	3.65		
10	32.50	36.00	16.50	26.90	25.10	37.40	52.20	64.85	23.90	19.50	7.80	4.85		
11	40.20	32.50	16.25	26.90	22.50	38.10	57.40	53.00	21.75	17.25	8.40	4.70		
12	33.55	28.40	15.50	100.20	20.25	32.15	60.80	46.60	21.00	15.75	9.60	4.70		
13	27.80	26.60	21.50	252.90	17.75	32.15	48.20	43.80	20.75	15.50	10.60	2.60		
14	22.25	27.20	20.25	128.60	15.50	37.40	44.20	40.90	20.50	15.75	11.00	0.90		
15	20.50	41.60	20.50	57.80	16.50	37.75	45.40	45.00	20.00	16.00	11.40	2.30		
16	29.70	61.25	18.25	43.40	22.00	42.65	43.40	40.90	20.00	15.00	12.20	1.00		
17	20.75	67.55	16.75	37.75	20.25	40.90	42.30	44.60	21.00	14.25	11.80	5.00		
18	17.25	60.35	16.50	32.50	21.00	42.65	41.25	59.00	19.75	15.25	10.60	17.25		
19	15.25	48.20	16.00	28.40	22.00	55.00	39.50	69.80	18.50	16.00	9.40	12.20		
20	15.25	38.45	17.00	25.10	23.00	105.60	40.55	68.90	19.00	15.75	8.20	12.20		
21	15.50	44.20	18.00	23.60	25.70	78.00	49.00	126.50	17.25	14.50	8.20	16.25		
22	15.75	38.80	17.75	31.45	28.10	58.60	43.40	218.70	15.50	14.25	6.80	9.80		
23	17.50	32.85	19.50	37.05	40.55	46.20	37.40	158.70	14.50	12.20	5.80	4.70		
24	20.25	30.05	19.50	36.35	175.50	39.15	31.10	101.40	13.25	10.60	7.40	2.75		
25	20.75	29.00	20.25	32.50	214.90	59.45	28.10	76.10	11.60	9.80	7.20	1.60		
26	21.50	32.85	19.75	28.40	131.40	94.20	74.75	60.80	13.00	9.80	9.20	4.70		
27	20.00	37.05	18.50	24.50	85.50	72.95	59.45	51.80	13.50	10.60	9.00	3.65		
28	19.00	31.10	18.75	23.30	96.60	60.35	63.50	45.00	13.75	11.60	10.20	15.75		
29	17.75	26.90	26.00	21.25	140.50	51.00	75.20	40.55	13.00	12.60	10.20	17.50		
30	15.75	24.20	16.75	18.00	132.10	52.60	58.20	38.45	11.20	14.75	10.20	11.20		
31		21.50		17.00	102.60		50.60		14.50	17.25		14.25		
Total	562.35	1201.05	552.00	1173.50	1603.15	1693.30	1635.65	2278.65	757.50	560.75	266.40	210.50	12494.80	CMSDAY
Mean	18.75	38.74	18.40	37.85	51.71	56.44	52.76	75.95	24.44	18.09	9.51	6.79	34.23	CMS
Max	40.20	107.40	26.00	252.90	214.90	111.00	84.00	218.70	64.85	44.20	18.50	17.50	252.90	CMS
Min	6.20	11.80	15.50	11.20	15.50	32.15	28.10	34.95	11.20	9.80	3.95	0.90	0.90	CMS
Runoff	48.59	103.77	47.69	101.39	138.51	146.30	141.32	196.875	65.45	48.45	23.02	18.19	1079.55	MCM
Momentary Peak	275.00 CMS. at 4.85 m. (MSL.) at 13.00 Hours , on Jul 13, 2009													
Runoff Yield	58.24 Liters/Second/Square KM.			Momentary Peak Yield			467.846 Liters/Second/Square KM.							

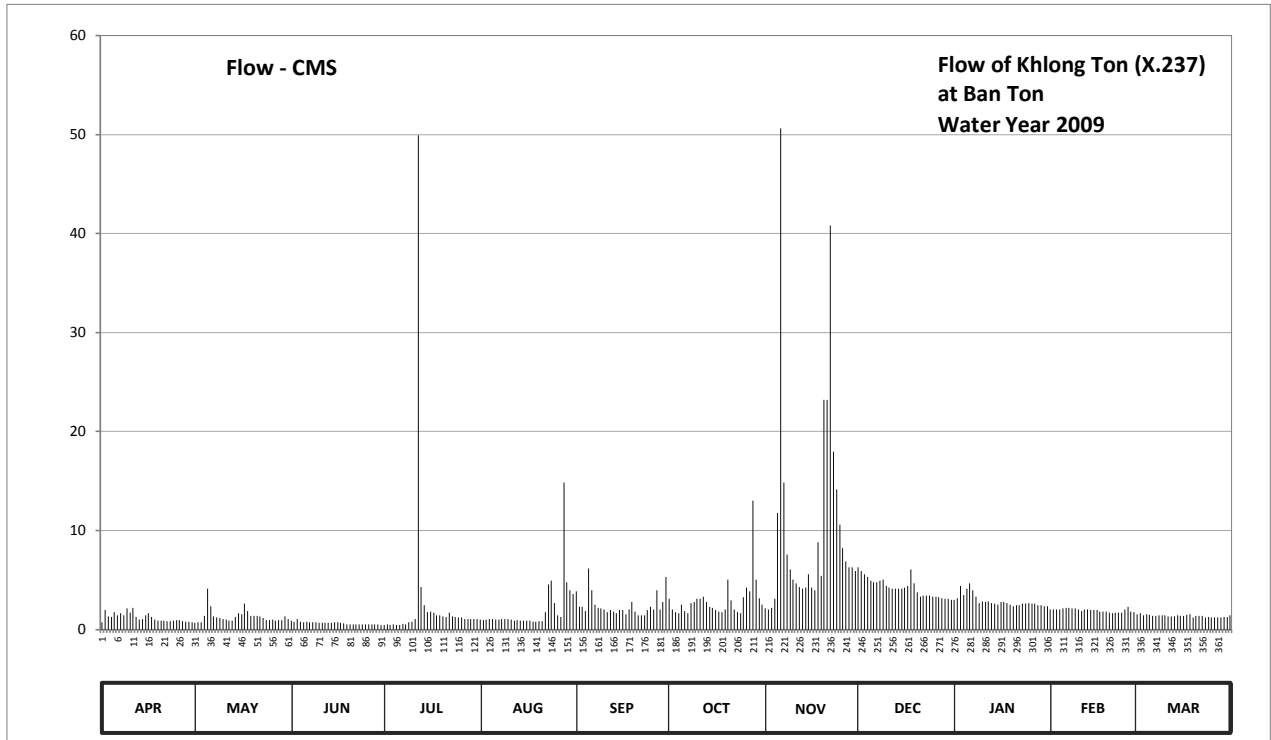
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Ton at Ban Ton , Satun (X.237)
 Lat 06 - 51 - 20 N Long 100 - 09 - 13 E

Location : on right bank at Ban Ton.

	Ban Ton	Amphoe Khuan Kalong	Changwat Satun
Drainage Area	89	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.		Elevation +50.316 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 50 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.02	45.01	45.05	44.96	45.07	45.45	45.36	45.24	45.69	45.35	45.23	45.16	
2	45.22	45.02	45.03	44.97	45.06	45.26	45.23	45.23	45.66	45.37	45.23	45.17	
3	45.12	45.02	45.08	44.96	45.07	45.26	45.19	45.25	45.63	45.51	45.23	45.14	
4	45.11	45.13	45.03	44.97	45.08	45.21	45.17	45.36	45.61	45.41	45.23	45.16	
5	45.19	45.48	45.02	44.96	45.08	45.68	45.29	45.94	45.57	45.48	45.24	45.15	
6	45.14	45.27	45.03	44.96	45.07	45.46	45.21	47.70	45.55	45.54	45.25	45.13	
7	45.17	45.12	45.02	44.99	45.07	45.29	45.17	46.14	45.55	45.46	45.25	45.13	
8	45.14	45.10	45.02	44.98	45.08	45.25	45.31	45.80	45.57	45.39	45.24	45.14	
9	45.24	45.09	45.02	45.02	45.08	45.24	45.32	45.67	45.58	45.31	45.24	45.14	
10	45.18	45.08	45.01	45.03	45.08	45.23	45.36	45.58	45.51	45.33	45.23	45.14	
11	45.25	45.07	45.01	45.08	45.07	45.19	45.36	45.54	45.49	45.32	45.21	45.12	
12	45.11	45.05	45.01	47.68	45.05	45.22	45.39	45.50	45.48	45.33	45.23	45.12	
13	45.07	45.05	45.01	45.50	45.06	45.20	45.32	45.48	45.48	45.31	45.23	45.12	
14	45.08	45.11	45.01	45.28	45.05	45.17	45.26	45.49	45.48	45.30	45.22	45.14	
15	45.14	45.17	45.02	45.19	45.05	45.22	45.25	45.63	45.48	45.29	45.22	45.13	
16	45.17	45.16	45.02	45.20	45.05	45.22	45.22	45.49	45.49	45.32	45.22	45.13	
17	45.11	45.30	45.01	45.18	45.05	45.16	45.20	45.46	45.51	45.32	45.20	45.15	
18	45.07	45.21	45.00	45.14	45.03	45.23	45.19	45.84	45.67	45.31	45.20	45.16	
19	45.05	45.13	44.98	45.14	45.03	45.32	45.23	45.62	45.54	45.29	45.20	45.10	
20	45.05	45.13	44.98	45.12	45.04	45.20	45.58	46.70	45.44	45.27	45.18	45.13	
21	45.05	45.13	44.98	45.11	45.04	45.14	45.34	46.70	45.39	45.28	45.17	45.13	
22	45.04	45.12	44.98	45.18	45.19	45.14	45.23	47.40	45.40	45.28	45.18	45.13	
23	45.04	45.09	44.97	45.12	45.53	45.14	45.19	46.44	45.40	45.30	45.18	45.10	
24	45.05	45.06	44.98	45.11	45.57	45.22	45.17	46.06	45.40	45.30	45.18	45.11	
25	45.06	45.06	44.98	45.10	45.31	45.26	45.38	45.90	45.39	45.31	45.23	45.10	
26	45.06	45.07	44.98	45.10	45.14	45.23	45.49	45.82	45.39	45.30	45.26	45.10	
27	45.04	45.05	44.98	45.08	45.11	45.46	45.45	45.74	45.38	45.30	45.20	45.10	
28	45.03	45.06	44.98	45.08	46.14	45.23	45.98	45.69	45.37	45.28	45.19	45.10	
29	45.03	45.06	44.98	45.08	45.55	45.32	45.58	45.69	45.36	45.28		45.11	
30	45.02	45.12	44.96	45.08	45.46	45.61	45.37	45.66	45.36	45.27		45.11	
31		45.08	45.08	45.08	45.42		45.29		45.35	45.27		45.14	
Mean	45.10	45.12	45.00	45.18	45.18	45.27	45.33	45.86	45.49	45.33	45.22	45.13	
Max	45.25	45.48	45.08	47.68	46.14	45.68	45.98	47.70	45.69	45.54	45.26	45.17	47.70
Min	45.02	45.01	44.96	44.96	45.03	45.14	45.17	45.23	45.35	45.27	45.17	45.10	44.96
Annual Max Momentary Gage Height	48.92		m. (MSL.) ,					at 17.00 Hours , on Nov 22 , 2009					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	44.67	m. (MSL)					
Left Bank Elevation		50.23		m. (MSL.) ,									
Right Bank Elevation		50.15		m. (MSL.) ,		Drainage Area	89	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.66	0.90	0.48	1.02	3.85	3.08	2.12	6.28	3.00	2.04	1.56	
2	1.96	0.72	0.78	0.51	0.96	2.28	2.04	2.04	5.92	3.16	2.04	1.62	
3	1.32	0.72	1.08	0.48	1.02	2.28	1.74	2.20	5.56	4.39	2.04	1.44	
4	1.26	1.38	0.78	0.51	1.08	1.88	1.62	3.08	5.32	3.49	2.04	1.56	
5	1.74	4.12	0.72	0.48	1.08	6.16	2.52	11.80	4.93	4.12	2.12	1.50	
6	1.44	2.36	0.78	0.48	1.02	3.94	1.88	50.60	4.75	4.66	2.20	1.38	
7	1.62	1.32	0.72	0.57	1.02	2.52	1.62	14.86	4.75	3.94	2.20	1.38	
8	1.44	1.20	0.72	0.54	1.08	2.20	2.68	7.60	4.93	3.32	2.12	1.44	
9	2.12	1.14	0.72	0.72	1.08	2.12	2.76	6.04	5.02	2.68	2.12	1.44	
10	1.68	1.08	0.66	0.78	1.08	2.04	3.08	5.02	4.39	2.84	2.04	1.44	
11	2.20	1.02	0.66	1.08	1.02	1.74	3.08	4.66	4.21	2.76	1.88	1.32	
12	1.26	0.90	0.66	49.92	0.90	1.96	3.32	4.30	4.12	2.84	2.04	1.32	
13	1.02	0.90	0.66	4.30	0.96	1.80	2.76	4.12	4.12	2.68	2.04	1.32	
14	1.08	1.26	0.66	2.44	0.90	1.62	2.28	4.21	4.12	2.60	1.96	1.44	
15	1.44	1.62	0.72	1.74	0.90	1.96	2.20	5.56	4.12	2.52	1.96	1.38	
16	1.62	1.56	0.72	1.80	0.90	1.96	1.96	4.21	4.21	2.76	1.96	1.38	
17	1.26	2.60	0.66	1.68	0.90	1.56	1.80	3.94	4.39	2.76	1.80	1.50	
18	1.02	1.88	0.60	1.44	0.78	2.04	1.74	8.80	6.04	2.68	1.80	1.56	
19	0.90	1.38	0.54	1.44	0.78	2.76	2.04	5.44	4.66	2.52	1.80	1.20	
20	0.90	1.38	0.54	1.32	0.84	1.80	5.02	23.20	3.76	2.36	1.68	1.38	
21	0.90	1.38	0.54	1.26	0.84	1.44	2.92	23.20	3.32	2.44	1.62	1.38	
22	0.84	1.32	0.54	1.68	1.74	1.44	2.04	40.80	3.40	2.44	1.68	1.38	
23	0.84	1.14	0.51	1.32	4.57	1.44	1.74	17.96	3.40	2.60	1.68	1.20	
24	0.90	0.96	0.54	1.26	4.93	1.96	1.62	14.14	3.40	2.60	1.68	1.26	
25	0.96	0.96	0.54	1.20	2.68	2.28	3.24	10.60	3.32	2.68	2.04	1.20	
26	0.96	1.02	0.54	1.20	1.44	2.04	4.21	8.20	3.32	2.60	2.28	1.20	
27	0.84	0.90	0.54	1.08	1.26	3.94	3.85	6.88	3.24	2.60	1.80	1.20	
28	0.78	0.96	0.54	1.08	14.86	2.04	13.00	6.28	3.16	2.44	1.74	1.20	
29	0.78	0.96	0.54	1.08	4.75	2.76	5.02	6.28	3.08	2.44	1.26	1.26	
30	0.72	1.32	0.48	1.08	3.94	5.32	3.16	5.92	3.08	2.36	1.26	1.26	
31		1.08		1.08	3.58		2.52		3.00	2.36		1.44	
Total	36.52	41.20	19.59	86.03	63.91	73.13	92.54	314.06	131.32	89.64	54.40	42.54	1044.88 CMSDAY
Mean	1.22	1.33	0.65	2.78	2.06	2.44	2.99	10.47	4.24	2.89	1.94	1.37	2.86 CMS
Max	2.20	4.12	1.08	49.92	14.86	6.16	13.00	50.60	6.28	4.66	2.28	1.62	50.60 CMS
Min	0.72	0.66	0.48	0.48	0.78	1.44	1.62	2.04	3.00	2.36	1.62	1.20	0.48 CMS
Runoff	3.16	3.56	1.69	7.43	5.52	6.32	8.00	27.14	11.35	7.75	4.70	3.68	90.28 MCM
Momentary Peak	110.24 CMS. at 48.92 m. (MSL.) at 17.00 Hours , on Nov 22 , 2009												
Runoff Yield	31.90 Liters/Second/Square KM.			Momentary Peak Yield				1228.438 Liters/Second/Square KM.					

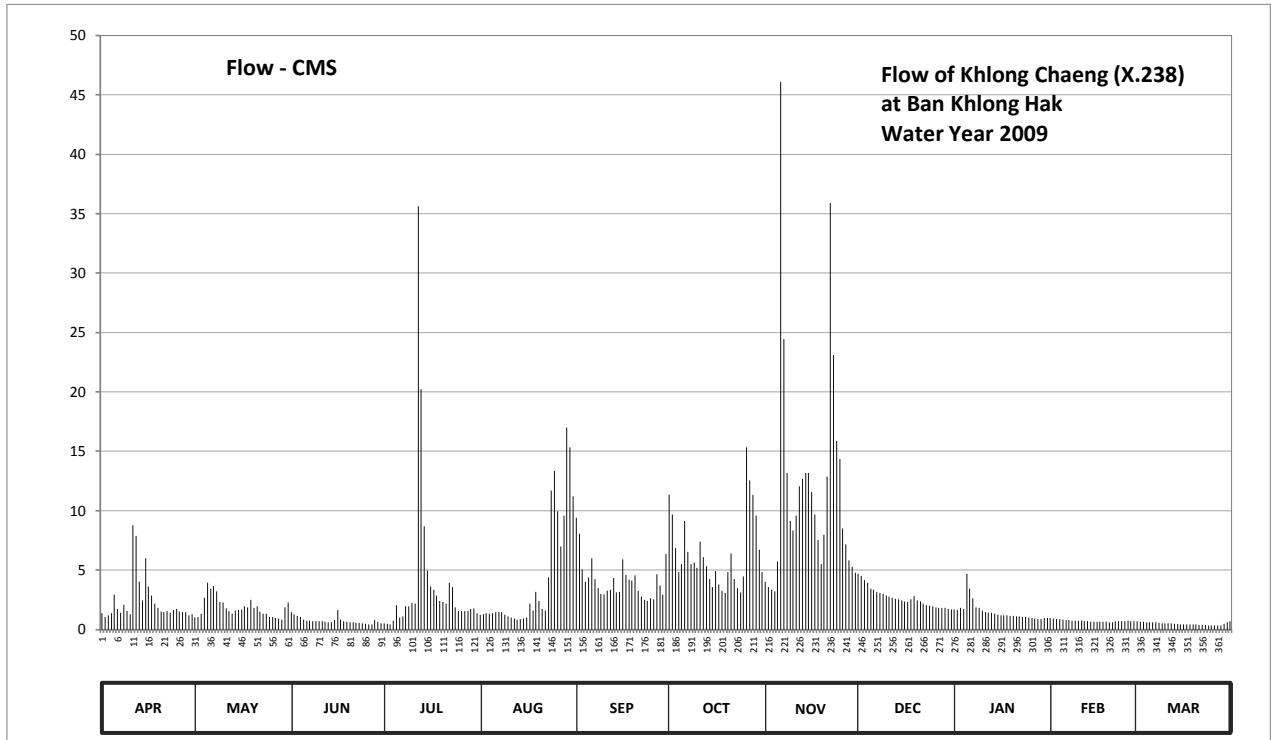
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Chaeng at Ban Khlong Hak , Satun (X.238)
 Lat 06 - 48 - 19 N Long 100 - 07 - 50 E

Location : on left bank at Ban Khlong Hak.

	Ban Khlong Hak	Amphoe Khuan Don	Changwat Satun
Drainage Area	77	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	Elevation	+37.552 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.34	32.25	32.37	32.10	32.31	33.77	33.93	32.96	33.10	32.42	32.24	32.16	
2	32.27	32.27	32.32	32.09	32.32	33.62	33.80	32.87	33.06	32.41	32.23	32.15	
3	32.30	32.33	32.29	32.08	32.34	33.17	33.46	32.83	32.99	32.45	32.22	32.15	
4	32.34	32.67	32.27	32.18	32.33	32.96	33.13	32.80	32.95	32.43	32.22	32.14	
5	32.74	32.95	32.21	32.51	32.34	33.04	33.25	33.29	32.85	33.10	32.21	32.14	
6	32.43	32.85	32.18	32.25	32.36	33.33	33.74	35.44	32.83	32.85	32.20	32.13	
7	32.35	32.89	32.18	32.28	32.36	33.01	33.42	34.65	32.79	32.66	32.19	32.13	
8	32.52	32.80	32.17	32.49	32.37	32.86	33.25	34.06	32.77	32.47	32.18	32.12	
9	32.39	32.58	32.17	32.49	32.31	32.75	33.27	33.74	32.75	32.45	32.18	32.11	
10	32.32	32.57	32.17	32.56	32.28	32.74	33.20	33.65	32.71	32.40	32.18	32.11	
11	33.70	32.44	32.17	32.54	32.25	32.81	33.53	33.79	32.69	32.37	32.18	32.10	
12	33.60	32.39	32.15	35.09	32.23	32.83	33.35	33.99	32.67	32.35	32.17	32.10	
13	32.96	32.33	32.14	34.45	32.21	33.03	33.22	34.03	32.65	32.35	32.16	32.09	
14	32.61	32.40	32.14	33.69	32.22	32.78	33.01	34.06	32.63	32.33	32.15	32.09	
15	33.33	32.41	32.19	33.15	32.23	32.79	32.87	34.06	32.61	32.31	32.15	32.08	
16	32.88	32.42	32.41	32.88	32.25	33.32	33.14	33.95	32.59	32.30	32.15	32.08	
17	32.71	32.49	32.21	32.83	32.54	33.08	32.92	33.80	32.58	32.30	32.15	32.08	
18	32.55	32.47	32.17	32.71	32.40	33.00	32.81	33.55	32.64	32.30	32.15	32.07	
19	32.45	32.62	32.15	32.60	32.79	32.98	32.77	33.25	32.70	32.29	32.15	32.07	
20	32.38	32.45	32.13	32.58	32.60	33.07	33.13	33.61	32.61	32.29	32.14	32.07	
21	32.36	32.49	32.13	32.55	32.43	32.81	33.40	34.04	32.59	32.28	32.14	32.06	
22	32.39	32.38	32.12	32.95	32.40	32.69	33.01	35.10	32.55	32.28	32.17	32.06	
23	32.35	32.33	32.12	32.87	33.04	32.62	32.86	34.59	32.51	32.27	32.17	32.06	
24	32.41	32.33	32.10	32.47	33.96	32.60	32.78	34.22	32.50	32.26	32.16	32.05	
25	32.43	32.27	32.09	32.39	34.07	32.66	33.05	34.13	32.49	32.25	32.16	32.05	
26	32.38	32.26	32.07	32.39	33.82	32.63	34.19	33.67	32.47	32.24	32.18	32.05	
27	32.37	32.24	32.07	32.39	33.48	33.09	34.02	33.50	32.46	32.23	32.17	32.05	
28	32.37	32.23	32.19	32.39	33.79	32.90	33.93	33.30	32.46	32.22	32.16	32.05	
29	32.30	32.21	32.15	32.43	34.28	32.74	33.79	33.21	32.45	32.22	32.16	32.09	
30	32.32	32.47	32.11	32.44	34.19	33.39	33.44	33.12	32.43	32.24	32.16	32.13	
31	32.32	32.57	32.11	32.34	33.92	33.13	33.13	33.12	32.42	32.24	32.16	32.16	
Mean	32.56	32.46	32.18	32.68	32.79	32.97	33.32	33.78	32.66	32.37	32.18	32.10	
Max	33.70	32.95	32.41	35.09	34.28	33.77	34.19	35.44	33.10	33.10	32.24	32.16	35.44
Min	32.27	32.21	32.07	32.08	32.21	32.60	32.77	32.80	32.42	32.22	32.14	32.05	32.05
Annual Max Momentary Gage Height	36.08		m. (MSL.) ,			at 18.00 Hours , on Nov 22 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	31.69	m. (MSL)					
Left Bank Elevation	37.81		m. (MSL.) ,										
Right Bank Elevation	37.77		m. (MSL.) ,			Drainage Area	77	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.36	1.00	1.48	0.50	1.24	9.43	11.33	4.00	4.70	1.68	0.96	0.68	
2	1.08	1.08	1.28	0.47	1.28	8.08	9.70	3.55	4.50	1.64	0.92	0.65	
3	1.20	1.32	1.16	0.44	1.36	5.05	6.85	3.35	4.15	1.80	0.88	0.65	
4	1.36	2.68	1.08	0.74	1.32	4.00	4.85	3.20	3.95	1.72	0.88	0.62	
5	2.96	3.95	0.84	2.04	1.36	4.40	5.50	5.74	3.45	4.70	0.84	0.62	
6	1.72	3.45	0.74	1.00	1.44	5.98	9.16	46.08	3.35	3.45	0.80	0.59	
7	1.40	3.65	0.74	1.12	1.44	4.25	6.55	24.45	3.16	2.64	0.77	0.59	
8	2.08	3.20	0.71	1.96	1.48	3.50	5.50	13.19	3.08	1.88	0.74	0.56	
9	1.56	2.32	0.71	1.96	1.24	3.00	5.62	9.16	3.00	1.80	0.74	0.53	
10	1.28	2.28	0.71	2.24	1.12	2.96	5.20	8.35	2.84	1.60	0.74	0.53	
11	8.80	1.76	0.71	2.16	1.00	3.25	7.37	9.61	2.76	1.48	0.74	0.50	
12	7.90	1.56	0.65	35.61	0.92	3.35	6.10	12.08	2.68	1.40	0.71	0.50	
13	4.00	1.32	0.62	20.22	0.84	4.35	5.32	12.69	2.60	1.40	0.68	0.47	
14	2.44	1.60	0.62	8.71	0.88	3.12	4.25	13.19	2.52	1.32	0.65	0.47	
15	5.98	1.64	0.77	4.95	0.92	3.16	3.55	13.19	2.44	1.24	0.65	0.44	
16	3.60	1.68	1.64	3.60	1.00	5.92	4.90	11.58	2.36	1.20	0.65	0.44	
17	2.84	1.96	0.84	3.35	2.16	4.60	3.80	9.70	2.32	1.20	0.65	0.44	
18	2.20	1.88	0.71	2.84	1.60	4.20	3.25	7.53	2.56	1.20	0.65	0.41	
19	1.80	2.48	0.65	2.40	3.16	4.10	3.08	5.50	2.80	1.16	0.65	0.41	
20	1.52	1.80	0.59	2.32	2.40	4.55	4.85	7.99	2.44	1.16	0.62	0.41	
21	1.44	1.96	0.59	2.20	1.72	3.25	6.40	12.86	2.36	1.12	0.62	0.38	
22	1.56	1.52	0.56	3.95	1.60	2.76	4.25	35.90	2.20	1.12	0.71	0.38	
23	1.40	1.32	0.56	3.55	4.40	2.48	3.50	23.10	2.04	1.08	0.71	0.38	
24	1.64	1.32	0.50	1.88	11.70	2.40	3.12	15.87	2.00	1.04	0.68	0.35	
25	1.72	1.08	0.47	1.56	13.35	2.64	4.45	14.35	1.96	1.00	0.68	0.35	
26	1.52	1.04	0.41	1.56	9.95	2.52	15.33	8.53	1.88	0.96	0.74	0.35	
27	1.48	0.96	0.41	1.56	7.00	4.65	12.53	7.15	1.84	0.92	0.71	0.35	
28	1.48	0.92	0.77	1.56	9.61	3.70	11.33	5.80	1.84	0.88	0.68	0.35	
29	1.20	0.84	0.65	1.72	16.98	2.96	9.61	5.26	1.80	0.88	0.68	0.47	
30	1.28	1.88	0.53	1.76	15.33	6.34	6.70	4.80	1.72	0.96	0.68	0.59	
31		2.28		1.36	11.20		4.85		1.68	0.96		0.68	
Total	71.80	57.73	22.70	121.29	131.00	124.95	198.80	357.75	82.98	46.59	20.45	15.14	1251.18 CMSDAY
Mean	2.39	1.86	0.76	3.91	4.23	4.16	6.41	11.93	2.68	1.50	0.73	0.49	3.43 CMS
Max	8.80	3.95	1.64	35.61	16.98	9.43	15.33	46.08	4.70	1.68	0.96	0.68	46.08 CMS
Min	1.08	0.84	0.41	0.44	0.84	2.40	3.08	3.20	1.68	0.88	0.62	0.35	0.35 CMS
Runoff	6.20	4.99	1.96	10.48	11.32	10.80	17.18	30.91	7.17	4.03	1.77	1.31	108.10 MCM
Momentary Peak	67.96 CMS. at 36.08 m. (MSL.) at 18.00 Hours , on Nov 22 , 2009												
Runoff Yield	44.16 Liters/Second/Square KM.			Momentary Peak Yield				875.435 Liters/Second/Square KM.					

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST

Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

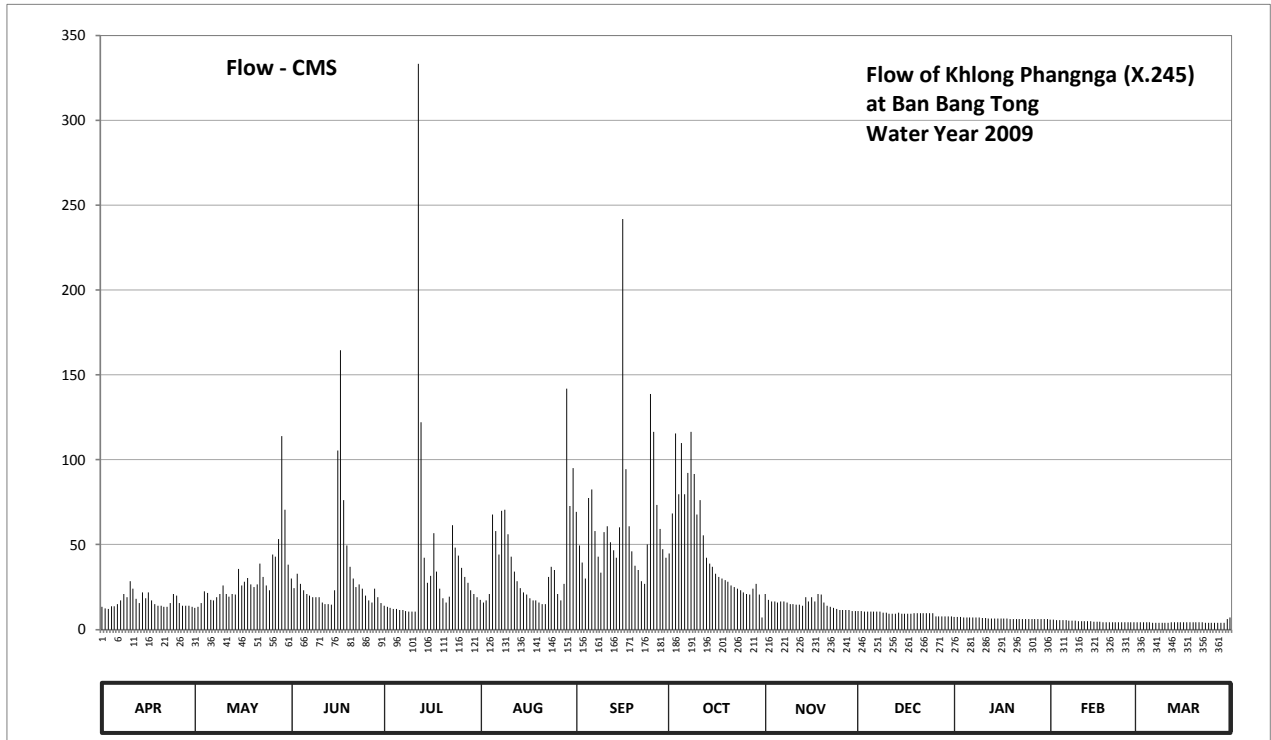
Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

Location : on right bank at Ban Bang Tong.

	Ban Bang Tong	Amphoe Mueang	Changwat Phangnga
Drainage Area	242 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.	Elevation	+18.532 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 means of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.18	9.16	9.52	9.20	9.27	10.16	9.78	9.34	9.10	8.97	8.89	8.81	
2	9.15	9.18	9.41	9.18	9.24	9.86	10.15	9.27	9.10	8.97	8.89	8.81	
3	9.14	9.23	9.58	9.16	9.26	9.69	10.82	9.25	9.08	8.97	8.88	8.81	
4	9.19	9.37	9.46	9.14	9.34	9.52	10.31	9.25	9.08	8.96	8.88	8.81	
5	9.19	9.35	9.38	9.14	10.14	10.28	10.74	9.24	9.08	8.96	8.87	8.81	
6	9.22	9.27	9.34	9.12	10.00	10.35	10.31	9.25	9.08	8.96	8.87	8.80	
7	9.26	9.26	9.32	9.12	9.77	10.00	10.49	9.25	9.08	8.95	8.86	8.80	
8	9.34	9.30	9.30	9.10	10.17	9.75	10.83	9.24	9.08	8.95	8.86	8.80	
9	9.30	9.34	9.30	9.09	10.18	9.59	10.48	9.22	9.06	8.95	8.86	8.80	
10	9.49	9.44	9.30	9.09	9.97	9.99	10.14	9.22	9.06	8.94	8.85	8.80	
11	9.40	9.34	9.24	9.09	9.75	10.04	10.26	9.21	9.04	8.94	8.85	8.80	
12	9.28	9.31	9.22	13.11	9.60	9.89	9.96	9.21	9.04	8.93	8.84	8.82	
13	9.23	9.34	9.22	10.90	9.49	9.81	9.74	9.20	9.04	8.93	8.84	8.82	
14	9.36	9.33	9.21	9.74	9.41	9.74	9.68	9.30	9.06	8.93	8.84	8.82	
15	9.29	9.63	9.38	9.47	9.36	10.03	9.65	9.25	9.04	8.92	8.83	8.82	
16	9.36	9.44	10.68	9.55	9.33	12.26	9.58	9.30	9.04	8.92	8.83	8.82	
17	9.26	9.48	11.43	9.98	9.29	10.52	9.54	9.25	9.04	8.92	8.83	8.82	
18	9.22	9.53	10.26	9.60	9.26	10.04	9.52	9.34	9.04	8.92	8.82	8.82	
19	9.20	9.45	9.86	9.40	9.26	9.80	9.50	9.33	9.05	8.91	8.82	8.81	
20	9.20	9.42	9.65	9.29	9.24	9.66	9.48	9.24	9.05	8.91	8.82	8.81	
21	9.18	9.45	9.52	9.24	9.22	9.62	9.44	9.20	9.05	8.91	8.81	8.81	
22	9.18	9.68	9.42	9.31	9.22	9.49	9.42	9.18	9.05	8.91	8.81	8.81	
23	9.23	9.54	9.45	10.05	9.54	9.46	9.40	9.16	9.05	8.91	8.81	8.80	
24	9.34	9.44	9.40	9.84	9.65	9.87	9.38	9.14	9.05	8.91	8.81	8.80	
25	9.32	9.38	9.32	9.76	9.62	11.11	9.36	9.12	9.05	8.91	8.81	8.80	
26	9.23	9.77	9.26	9.64	9.34	10.83	9.34	9.12	8.99	8.91	8.81	8.80	
27	9.20	9.75	9.24	9.54	9.26	10.22	9.33	9.12	8.99	8.91	8.81	8.80	
28	9.20	9.92	9.40	9.47	9.46	10.02	9.40	9.12	8.99	8.91	8.81	8.80	
29	9.20	10.80	9.30	9.38	11.15	9.82	9.46	9.10	8.99	8.91	8.81	8.80	
30	9.18	10.18	9.23	9.34	10.21	9.74	9.33	9.10	8.99	8.91	8.81	8.90	
31		9.67		9.30	10.53		8.96		8.99	8.91		8.96	
Mean	9.25	9.51	9.52	9.56	9.63	10.04	9.80	9.22	9.05	8.93	8.84	8.82	
Max	9.49	10.80	11.43	13.11	11.15	12.26	10.83	9.34	9.10	8.97	8.89	8.96	13.11
Min	9.14	9.16	9.21	9.09	9.22	9.46	8.96	9.10	8.99	8.91	8.81	8.80	8.80
Annual Max Momentary Gage Height	14.21		m. (MSL.) ,			at 15.00 Hours , on Jul 12 , 2009							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed 7.30		m. (MSL)					
Left Bank Elevation		18.38		m. (MSL.) ,									
Right Bank Elevation		18.38		m. (MSL.) ,		Drainage Area 242		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.40	12.80	30.00	14.00	17.50	69.20	44.80	21.00	11.00	7.40	5.80	4.20	
2	12.50	13.40	24.50	13.40	16.00	49.60	68.50	17.50	11.00	7.40	5.80	4.20	
3	12.20	15.50	33.00	12.80	17.00	39.40	115.60	16.50	10.40	7.40	5.60	4.20	
4	13.70	22.50	27.00	12.20	21.00	30.00	79.70	16.50	10.40	7.20	5.60	4.20	
5	13.70	21.50	23.00	12.20	67.80	77.60	109.80	16.00	10.40	7.20	5.40	4.20	
6	15.00	17.50	21.00	11.60	58.00	82.50	79.70	16.50	10.40	7.20	5.40	4.00	
7	17.00	17.00	20.00	11.60	44.20	58.00	92.30	16.50	10.40	7.00	5.20	4.00	
8	21.00	19.00	19.00	11.00	69.90	43.00	116.40	16.00	10.40	7.00	5.20	4.00	
9	19.00	21.00	19.00	10.70	70.60	33.50	91.60	15.00	9.80	7.00	5.20	4.00	
10	28.50	26.00	19.00	10.70	56.20	57.40	67.80	15.00	9.80	6.80	5.00	4.00	
11	24.00	21.00	16.00	10.70	43.00	60.80	76.20	14.50	9.20	6.80	5.00	4.00	
12	18.00	19.50	15.00	333.20	34.00	51.40	55.60	14.50	9.20	6.60	4.80	4.40	
13	15.50	21.00	15.00	122.00	28.50	46.60	42.40	14.00	9.20	6.60	4.80	4.40	
14	22.00	20.50	14.50	42.40	24.50	42.40	38.80	19.00	9.80	6.60	4.80	4.40	
15	18.50	35.80	23.00	27.50	22.00	60.10	37.00	16.50	9.20	6.40	4.60	4.40	
16	22.00	26.00	105.60	31.50	20.50	242.00	33.00	19.00	9.20	6.40	4.60	4.40	
17	17.00	28.00	164.70	56.80	18.50	94.40	31.00	16.50	9.20	6.40	4.60	4.40	
18	15.00	30.50	76.20	34.00	17.00	60.80	30.00	21.00	9.20	6.40	4.40	4.40	
19	14.00	26.50	49.60	24.00	17.00	46.00	29.00	20.50	9.50	6.20	4.40	4.20	
20	14.00	25.00	37.00	18.50	16.00	37.60	28.00	16.00	9.50	6.20	4.40	4.20	
21	13.40	26.50	30.00	16.00	15.00	35.20	26.00	14.00	9.50	6.20	4.20	4.20	
22	13.40	38.80	25.00	19.50	15.00	28.50	25.00	13.40	9.50	6.20	4.20	4.20	
23	15.50	31.00	26.50	61.50	31.00	27.00	24.00	12.80	9.50	6.20	4.20	4.00	
24	21.00	26.00	24.00	48.40	37.00	50.20	23.00	12.20	9.50	6.20	4.20	4.00	
25	20.00	23.00	20.00	43.60	35.20	138.80	22.00	11.60	9.50	6.20	4.20	4.00	
26	15.50	44.20	17.00	36.40	21.00	116.40	21.00	11.60	7.80	6.20	4.20	4.00	
27	14.00	43.00	16.00	31.00	17.00	73.40	20.50	11.60	7.80	6.20	4.20	4.00	
28	14.00	53.20	24.00	27.50	27.00	59.40	24.00	11.60	7.80	6.20	4.20	4.00	
29	14.00	114.00	19.00	23.00	142.00	47.20	27.00	11.00	7.80	6.20	4.00	4.00	
30	13.40	70.60	15.50	21.00	72.70	42.40	20.50	11.00	7.80	6.20	4.00	6.00	
31		38.20		19.00	95.10		7.20		7.80	6.20		7.20	
Total	500.20	948.50	969.10	1167.70	1187.20	1900.80	1507.40	458.80	291.50	204.40	134.20	133.80	9403.60 CMSDAY
Mean	16.67	30.60	32.30	37.67	38.30	63.36	48.63	15.29	9.40	6.59	4.79	4.32	25.76 CMS
Max	28.50	114.00	164.70	333.20	142.00	242.00	116.40	21.00	11.00	7.40	5.80	7.20	333.20 CMS
Min	12.20	12.80	14.50	10.70	15.00	27.00	7.20	11.00	7.80	6.20	4.20	4.00	4.00 CMS
Runoff	43.22	81.95	83.73	100.89	102.57	164.23	130.24	39.64	25.19	17.66	11.60	11.56	812.47 MCM
Momentary Peak		475.40 CMS. at 14.21 m. (MSL.) at 15.00 Hours , on Jul 12 , 2009											
Runoff Yield		106.31 Liters/Second/Square KM.				Momentary Peak Yield				1961.626 Liters/Second/Square KM.			

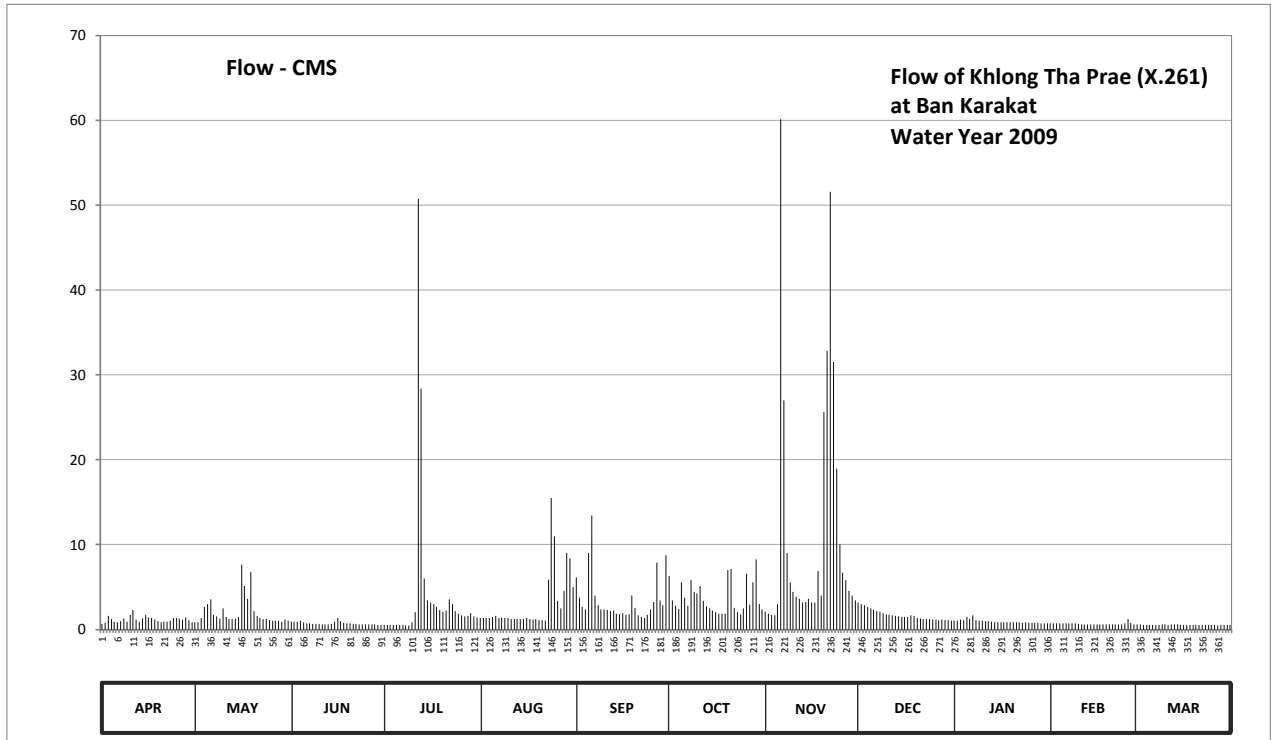
WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Tha Prae at Ban Karakat , Satun (X.261)
 Lat 06 - 50 - 19 N Long 100 - 04 - 10 E

Location : on right bank at Ban Karakat.

	Ban Karakat	Amphoe Khuan Kalong	Changwat Satun
Drainage Area	99	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the top staff gage.	Elevation	+30.451 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 50 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.79	26.83	26.85	26.76	26.95	27.52	27.54	27.07	27.22	26.88	26.80	26.77	
2	26.82	26.83	26.85	26.75	26.95	27.28	27.25	27.04	27.20	26.88	26.81	26.77	
3	27.00	26.95	26.85	26.75	26.95	27.15	27.17	27.02	27.18	26.90	26.81	26.76	
4	26.91	27.15	26.87	26.75	26.95	27.11	27.12	27.01	27.15	26.89	26.80	26.76	
5	26.85	27.20	26.83	26.75	26.98	27.76	27.47	27.20	27.13	26.97	26.80	26.76	
6	26.84	27.26	26.81	26.75	27.00	28.08	27.28	30.19	27.10	26.92	26.80	26.76	
7	26.86	27.02	26.80	26.75	26.95	27.31	27.17	28.85	27.08	27.01	26.80	26.75	
8	26.93	26.99	26.79	26.74	26.96	27.18	27.49	27.76	27.07	26.89	26.81	26.76	
9	26.85	26.93	26.79	26.74	26.95	27.11	27.36	27.47	27.05	26.88	26.81	26.78	
10	27.02	27.13	26.79	26.84	26.94	27.11	27.34	27.36	27.03	26.87	26.79	26.77	
11	27.10	26.97	26.78	27.06	26.92	27.10	27.43	27.30	27.02	26.86	26.78	26.76	
12	26.90	26.91	26.78	29.85	26.91	27.08	27.24	27.27	27.01	26.86	26.78	26.77	
13	26.85	26.91	26.78	28.92	26.91	27.09	27.16	27.22	27.00	26.85	26.78	26.77	
14	26.93	26.93	26.79	27.51	26.91	27.04	27.13	27.23	26.99	26.84	26.78	26.77	
15	27.02	26.97	26.85	27.25	26.91	27.03	27.09	27.27	26.98	26.84	26.78	26.76	
16	26.96	27.65	26.95	27.22	26.94	27.05	27.06	27.22	26.97	26.84	26.78	26.75	
17	26.94	27.43	26.86	27.20	26.91	27.02	27.04	27.22	26.97	26.84	26.78	26.75	
18	26.90	27.27	26.82	27.15	26.90	27.03	27.04	27.59	27.01	26.83	26.78	26.76	
19	26.86	27.58	26.80	27.10	26.92	27.31	27.04	27.31	27.00	26.83	26.78	26.75	
20	26.84	27.08	26.81	27.07	26.89	27.14	27.60	28.78	26.95	26.83	26.77	26.75	
21	26.85	27.00	26.79	27.09	26.89	27.01	27.61	29.13	26.93	26.83	26.77	26.75	
22	26.85	26.95	26.79	27.26	26.88	26.97	27.14	29.88	26.92	26.83	26.77	26.75	
23	26.88	26.91	26.77	27.20	27.50	26.95	27.06	29.07	26.91	26.82	26.77	26.75	
24	26.95	26.91	26.77	27.08	28.22	27.02	27.03	28.43	26.91	26.83	26.77	26.75	
25	26.95	26.89	26.77	27.04	27.91	27.11	27.13	27.84	26.90	26.82	26.80	26.75	
26	26.93	26.87	26.77	27.01	27.24	27.23	27.56	27.57	26.90	26.82	26.91	26.75	
27	26.90	26.87	26.77	26.99	27.13	27.67	27.19	27.49	26.89	26.82	26.82	26.74	
28	26.96	26.87	26.77	27.00	27.37	27.25	27.47	27.37	26.90	26.82	26.78	26.75	
29	26.89	26.85	26.76	27.05	27.76	27.18	27.70	27.31	26.89	26.81		26.75	
30	26.84	26.90	26.76	26.99	27.71	27.74	27.20	27.25	26.89	26.81		26.75	
31		26.88		26.96	27.42		27.11		26.88	26.80		26.75	
Mean	26.91	27.03	26.81	27.15	27.12	27.22	27.27	27.76	27.00	26.86	26.79	26.76	
Max	27.10	27.65	26.95	29.85	28.22	28.08	27.70	30.19	27.22	27.01	26.91	26.78	30.19
Min	26.79	26.83	26.76	26.74	26.88	26.95	27.03	27.01	26.88	26.80	26.77	26.74	26.74
Annual Max Momentary Gage Height	30.84		m. (MSL.) ,				at 11.00 Hours , on Nov 6 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	26.48	m. (MSL)					
Left Bank Elevation		32.45		m. (MSL.) ,									
Right Bank Elevation		32.44		m. (MSL.) ,		Drainage Area	99	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.67	0.84	0.93	0.56	1.38	6.12	6.34	2.09	3.18	1.06	0.70	0.60	
2	0.79	0.84	0.93	0.53	1.38	3.72	3.45	1.88	3.00	1.06	0.75	0.60	
3	1.60	1.38	0.93	0.53	1.38	2.65	2.79	1.74	2.86	1.15	0.75	0.56	
4	1.20	2.65	1.02	0.53	1.38	2.37	2.44	1.67	2.65	1.10	0.70	0.56	
5	0.93	3.00	0.84	0.53	1.51	9.00	5.57	3.00	2.51	1.46	0.70	0.56	
6	0.88	3.54	0.75	0.53	1.60	13.40	3.72	60.12	2.30	1.24	0.70	0.56	
7	0.97	1.74	0.70	0.53	1.38	3.99	2.79	27.00	2.16	1.67	0.70	0.53	
8	1.29	1.55	0.67	0.49	1.42	2.86	5.79	9.00	2.09	1.10	0.75	0.56	
9	0.93	1.29	0.67	0.49	1.38	2.37	4.44	5.57	1.95	1.06	0.75	0.63	
10	1.74	2.51	0.67	0.88	1.33	2.37	4.26	4.44	1.81	1.02	0.67	0.60	
11	2.30	1.46	0.63	2.02	1.24	2.30	5.13	3.90	1.74	0.97	0.63	0.56	
12	1.15	1.20	0.63	50.75	1.20	2.16	3.36	3.63	1.67	0.97	0.63	0.60	
13	0.93	1.20	0.63	28.40	1.20	2.23	2.72	3.18	1.60	0.93	0.63	0.60	
14	1.29	1.29	0.67	6.01	1.20	1.88	2.51	3.27	1.55	0.88	0.63	0.60	
15	1.74	1.46	0.93	3.45	1.20	1.81	2.23	3.63	1.51	0.88	0.63	0.56	
16	1.42	7.62	1.38	3.18	1.33	1.95	2.02	3.18	1.46	0.88	0.63	0.53	
17	1.33	5.13	0.97	3.00	1.20	1.74	1.88	3.18	1.46	0.88	0.63	0.53	
18	1.15	3.63	0.79	2.65	1.15	1.81	1.88	6.89	1.67	0.84	0.63	0.56	
19	0.97	6.78	0.70	2.30	1.24	3.99	1.88	3.99	1.60	0.84	0.63	0.53	
20	0.88	2.16	0.75	2.09	1.10	2.58	7.00	25.60	1.38	0.84	0.60	0.53	
21	0.93	1.60	0.67	2.23	1.10	1.67	7.13	32.86	1.29	0.84	0.60	0.53	
22	0.93	1.38	0.67	3.54	1.06	1.46	2.58	51.56	1.24	0.84	0.60	0.53	
23	1.06	1.20	0.60	3.00	5.90	1.38	2.02	31.54	1.20	0.79	0.60	0.53	
24	1.38	1.20	0.60	2.16	15.52	1.74	1.81	18.94	1.20	0.84	0.60	0.53	
25	1.38	1.10	0.60	1.88	10.99	2.37	2.51	10.04	1.15	0.79	0.70	0.53	
26	1.29	1.02	0.60	1.67	3.36	3.27	6.56	6.67	1.15	0.79	1.20	0.53	
27	1.15	1.02	0.60	1.55	2.51	7.88	2.93	5.79	1.10	0.79	0.79	0.49	
28	1.42	1.02	0.60	1.60	4.53	3.45	5.57	4.53	1.15	0.79	0.63	0.53	
29	1.10	0.93	0.56	1.95	9.00	2.86	8.25	3.99	1.10	0.75	0.75	0.53	
30	0.88	1.15	0.56	1.55	8.37	8.75	3.00	3.45	1.10	0.75	0.75	0.53	
31		1.06		1.42	5.02		2.37		1.06	0.70		0.53	
Total	35.68	63.95	22.25	132.00	93.56	106.13	116.93	346.33	52.89	29.50	19.16	17.15	1035.53 CMSDAY
Mean	1.19	2.06	0.74	4.26	3.02	3.54	3.77	11.54	1.71	0.95	0.68	0.55	2.84 CMS
Max	2.30	7.62	1.38	50.75	15.52	13.40	8.25	60.12	3.18	1.67	1.20	0.63	60.12 CMS
Min	0.67	0.84	0.56	0.49	1.06	1.38	1.81	1.67	1.06	0.70	0.60	0.49	0.49 CMS
Runoff	3.08	5.53	1.92	11.41	8.08	9.17	10.10	29.92	4.57	2.55	1.66	1.48	89.47 MCM
Momentary Peak	79.20 CMS. at 30.84 m. (MSL.) at 11.00 Hours , on Nov 6 , 2009												
Runoff Yield	28.66 Liters/Second/Square KM. Momentary Peak Yield 800.000 Liters/Second/Square KM.												

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Tha Prae at Ban Na Kaeo , Satun (X.262)

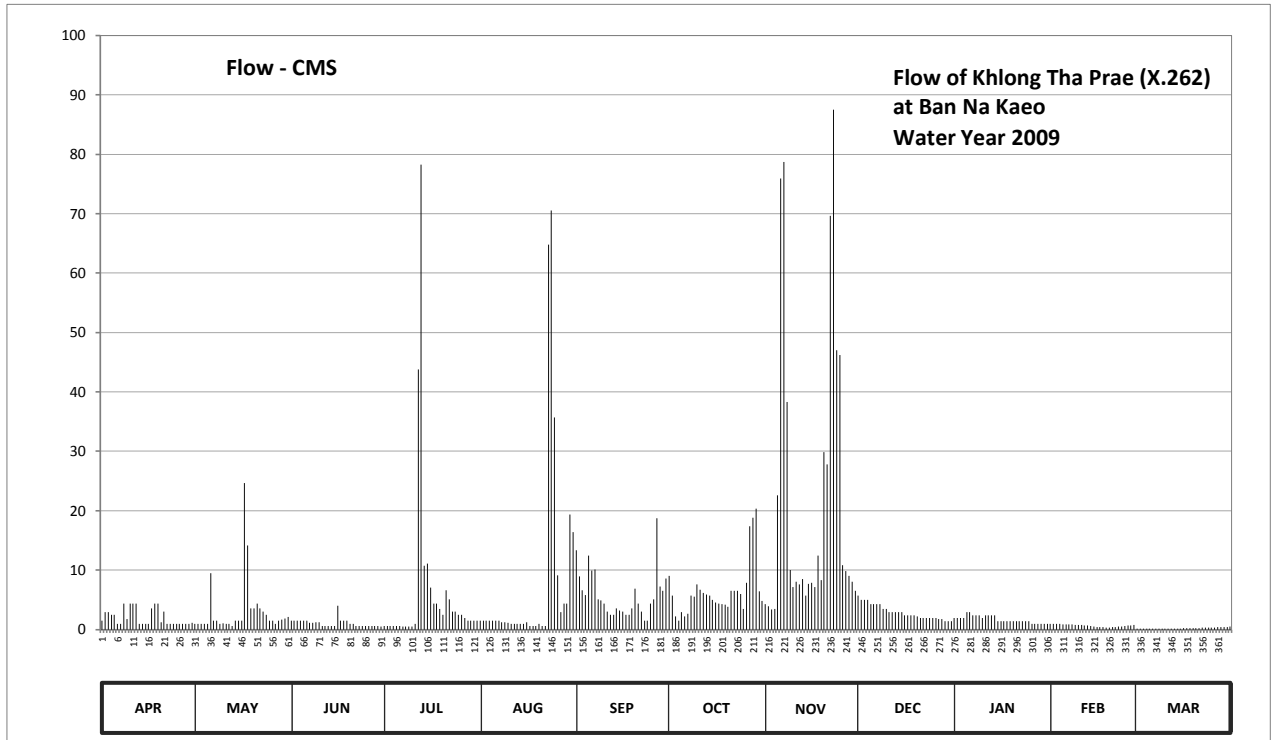
Lat 06 - 49 - 15 N Long 99 - 59 - 45 E

Location : on left bank at Ban Na Kaeo.

	Ban Na Kaeo	Amphoe Khuan Kalong	Changwat Satun
Drainage Area	208	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		Elevation +14.092 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 means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 50 discharge measurements made in 2009.		

Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.81	6.71	6.81	6.61	6.81	8.33	7.90	7.30	7.50	6.90	6.70	6.45	
2	7.09	6.71	6.81	6.61	6.81	7.89	7.50	7.26	7.40	6.90	6.70	6.45	
3	7.09	6.71	6.81	6.61	6.81	7.61	6.97	7.18	7.40	6.90	6.69	6.45	
4	7.01	6.71	6.81	6.61	6.81	7.51	6.82	7.20	7.40	6.90	6.69	6.45	
5	7.01	6.71	6.81	6.61	6.81	8.24	7.10	9.07	7.30	7.10	6.68	6.45	
6	6.71	7.95	6.81	6.61	6.81	7.99	6.96	11.91	7.30	7.10	6.68	6.45	
7	6.71	6.81	6.75	6.59	6.81	8.01	7.05	12.03	7.30	7.00	6.67	6.44	
8	7.31	6.81	6.75	6.59	6.76	7.41	7.50	10.08	7.30	7.00	6.67	6.44	
9	6.87	6.71	6.76	6.59	6.76	7.39	7.47	8.00	7.20	7.00	6.66	6.44	
10	7.31	6.73	6.76	6.59	6.74	7.31	7.75	7.69	7.20	6.90	6.66	6.45	
11	7.31	6.71	6.61	6.71	6.71	7.11	7.63	7.80	7.10	7.00	6.65	6.45	
12	7.31	6.71	6.61	10.39	6.71	7.01	7.56	7.75	7.10	7.00	6.64	6.46	
13	6.71	6.61	6.61	12.01	6.71	7.01	7.52	7.85	7.10	7.00	6.63	6.47	
14	6.71	6.81	6.61	8.07	6.71	7.21	7.49	7.49	7.10	7.00	6.61	6.47	
15	6.71	6.81	6.61	8.11	6.71	7.14	7.40	7.76	7.10	6.80	6.59	6.47	
16	6.71	6.81	7.27	7.67	6.77	7.11	7.34	7.78	7.00	6.80	6.57	6.48	
17	7.21	9.21	6.81	7.31	6.61	7.01	7.31	7.68	7.00	6.80	6.56	6.48	
18	7.31	8.41	6.81	7.31	6.61	7.01	7.30	8.24	7.00	6.80	6.55	6.49	
19	7.31	7.21	6.81	7.19	6.61	7.21	7.29	7.83	7.00	6.80	6.54	6.49	
20	6.77	7.21	6.71	7.01	6.71	7.65	7.24	9.56	6.96	6.80	6.54	6.49	
21	7.11	7.31	6.71	7.61	6.61	7.31	7.60	9.42	6.90	6.80	6.56	6.50	
22	6.71	7.21	6.61	7.41	6.61	7.11	7.60	11.63	6.90	6.80	6.58	6.51	
23	6.71	7.11	6.61	7.11	11.41	6.81	7.60	12.40	6.90	6.80	6.60	6.52	
24	6.71	7.01	6.61	7.11	11.67	6.81	7.53	10.55	6.90	6.80	6.60	6.53	
25	6.71	6.81	6.61	7.01	9.92	7.31	7.20	10.51	6.90	6.80	6.62	6.54	
26	6.71	6.81	6.61	7.01	7.91	7.41	7.78	8.08	6.90	6.70	6.64	6.54	
27	6.71	6.71	6.61	6.91	7.09	8.80	8.69	7.98	6.88	6.70	6.64	6.56	
28	6.71	6.81	6.61	6.81	7.31	7.70	8.81	7.90	6.88	6.70	6.65	6.57	
29	6.71	6.85	6.61	6.81	7.31	7.60	8.92	7.80	6.80	6.70		6.57	
30	6.74	6.89	6.59	6.81	8.85	7.86	7.59	7.60	6.80	6.70		6.58	
31		6.95		6.81	8.61		7.37		6.80	6.70		6.59	
Mean	6.92	7.02	6.72	7.26	7.36	7.46	7.54	8.71	7.07	6.86	6.63	6.49	
Max	7.31	9.21	7.27	12.01	11.67	8.80	8.92	12.40	7.50	7.10	6.70	6.59	12.40
Min	6.71	6.61	6.59	6.59	6.61	6.81	6.82	7.18	6.80	6.70	6.54	6.44	6.44
Annual Max Momentary Gage Height	12.70		m. (MSL.) ,				at 12.00 Hours , on Nov 23 , 2009						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	6.23		m. (MSL)				
Left Bank Elevation		13.99		m. (MSL.) ,									
Right Bank Elevation		13.97		m. (MSL.) ,		Drainage Area	208	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.45	0.99	1.45	0.55	1.45	13.30	9.00	4.25	5.75	1.90	0.95	0.12		
2	2.90	0.99	1.45	0.55	1.45	8.90	5.75	3.95	5.00	1.90	0.95	0.12		
3	2.90	0.99	1.45	0.55	1.45	6.58	2.25	3.39	5.00	1.90	0.91	0.12		
4	2.46	0.99	1.45	0.55	1.45	5.83	1.50	3.50	5.00	1.90	0.91	0.12		
5	2.46	0.99	1.45	0.55	1.45	12.40	2.95	22.55	4.25	2.95	0.86	0.12		
6	0.99	9.50	1.45	0.55	1.45	9.90	2.20	75.97	4.25	2.95	0.86	0.12		
7	0.99	1.45	1.17	0.48	1.45	10.10	2.68	78.70	4.25	2.40	0.82	0.10		
8	4.33	1.45	1.17	0.48	1.22	5.07	5.75	38.32	4.25	2.40	0.82	0.10		
9	1.75	0.99	1.22	0.48	1.22	4.92	5.52	10.00	3.50	2.40	0.77	0.10		
10	4.33	1.08	1.22	0.48	1.13	4.33	7.62	7.17	3.50	1.90	0.77	0.12		
11	4.33	0.99	0.55	0.99	0.99	3.01	6.73	8.00	2.95	2.40	0.73	0.12		
12	4.33	0.99	0.55	43.82	0.99	2.46	6.20	7.62	2.95	2.40	0.68	0.15		
13	0.99	0.55	0.55	78.24	0.99	2.46	5.90	8.50	2.95	2.40	0.64	0.17		
14	0.99	1.45	0.55	10.70	0.99	3.58	5.67	5.67	2.95	2.40	0.55	0.17		
15	0.99	1.45	0.55	11.10	0.99	3.17	5.00	7.70	2.95	1.40	0.48	0.17		
16	0.99	1.45	4.03	7.03	1.26	3.01	4.55	7.85	2.40	1.40	0.43	0.20		
17	3.58	24.65	1.45	4.33	0.55	2.46	4.33	7.10	2.40	1.40	0.40	0.20		
18	4.33	14.12	1.45	4.33	0.55	2.46	4.25	12.40	2.40	1.40	0.38	0.22		
19	4.33	3.58	1.45	3.45	0.55	3.58	4.18	8.30	2.40	1.40	0.35	0.22		
20	1.26	3.58	0.99	2.46	0.99	6.88	3.80	29.90	2.20	1.40	0.35	0.22		
21	3.01	4.33	0.99	6.58	0.55	4.33	6.50	27.80	1.90	1.40	0.40	0.25		
22	0.99	3.58	0.55	5.07	0.55	3.01	6.50	69.67	1.90	1.40	0.45	0.28		
23	0.99	3.01	0.55	3.01	64.82	1.45	6.50	87.50	1.90	1.40	0.50	0.30		
24	0.99	2.46	0.55	3.01	70.57	1.45	5.98	47.00	1.90	1.40	0.50	0.33		
25	0.99	1.45	0.55	2.46	35.68	4.33	3.50	46.20	1.90	1.40	0.59	0.35		
26	0.99	1.45	0.55	2.46	9.10	5.07	7.85	10.80	1.90	0.95	0.68	0.35		
27	0.99	0.99	0.55	1.95	2.90	18.70	17.38	9.80	1.80	0.95	0.68	0.40		
28	0.99	1.45	0.55	1.45	4.33	7.25	18.84	9.00	1.80	0.95	0.73	0.43		
29	0.99	1.65	0.55	1.45	4.33	6.50	20.38	8.00	1.40	0.95	0.95	0.43		
30	1.13	1.85	0.48	1.45	19.40	8.60	6.43	6.50	1.40	0.95	0.95	0.45		
31		2.15		1.45	16.42		4.77		1.40	0.95		0.48		
Total	62.74	96.60	31.47	202.01	251.22	175.09	200.46	673.11	90.50	53.30	18.14	7.03	1861.67	CMSDAY
Mean	2.09	3.12	1.05	6.52	8.10	5.84	6.47	22.44	2.92	1.72	0.65	0.23	5.10	CMS
Max	4.33	24.65	4.03	78.24	70.57	18.70	20.38	87.50	5.75	2.95	0.95	0.48	87.50	CMS
Min	0.99	0.55	0.48	0.48	0.55	1.45	1.50	3.39	1.40	0.95	0.35	0.10	0.10	CMS
Runoff	5.42	8.35	2.72	17.45	21.71	15.13	17.32	58.16	7.82	4.61	1.57	0.61	160.85	MCM
Momentary Peak	94.75 CMS. at 12.70 m. (MSL.) at 12.00 Hours , on Nov 23 , 2009													
Runoff Yield	24.52 Liters/Second/Square KM. Momentary Peak Yield 455.529 Liters/Second/Square KM.													

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Ta Lam at Ban Pluk Wa , Satun (X.263)

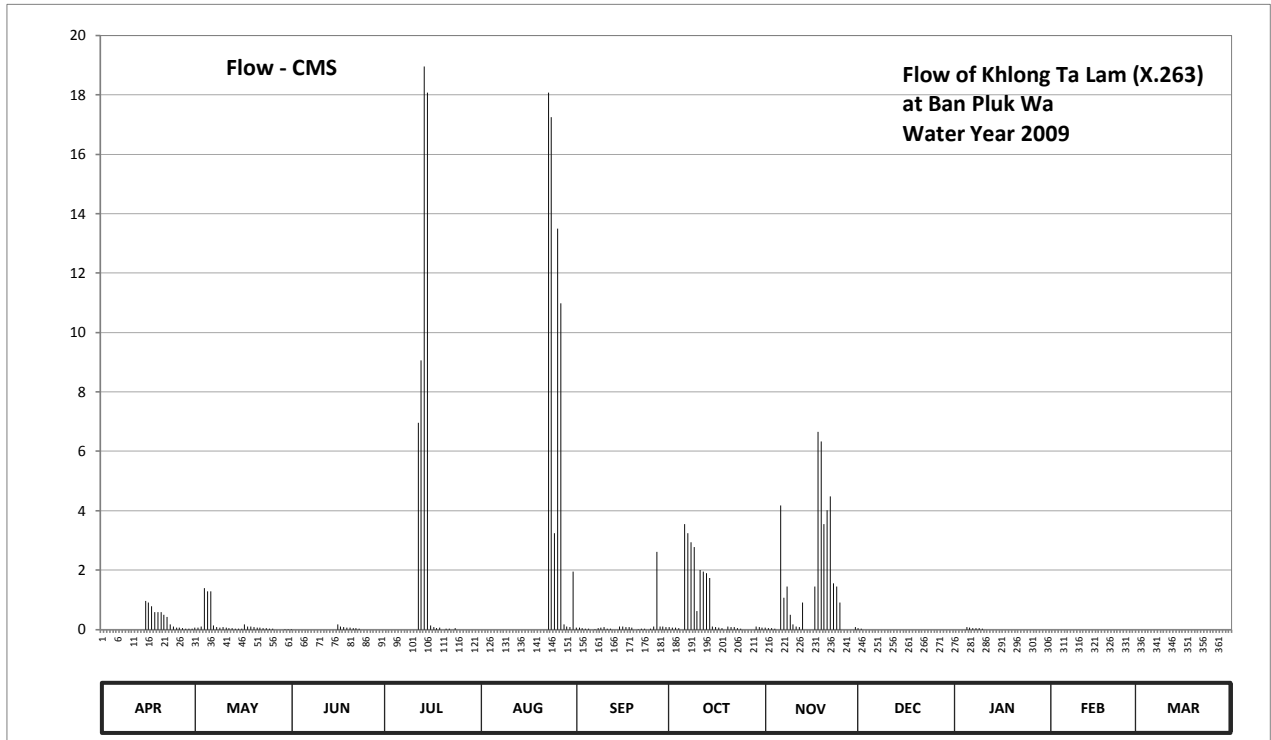
Lat 06 - 48 - 40 N Long 99 - 57 - 34 E

Location : on right bank at Ban Pluk Wa.

	Ban	Pluk Wa	Amphoe	Tha Pae	Changwat	Satun
Drainage Area	15	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+8.308 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 means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2009.					

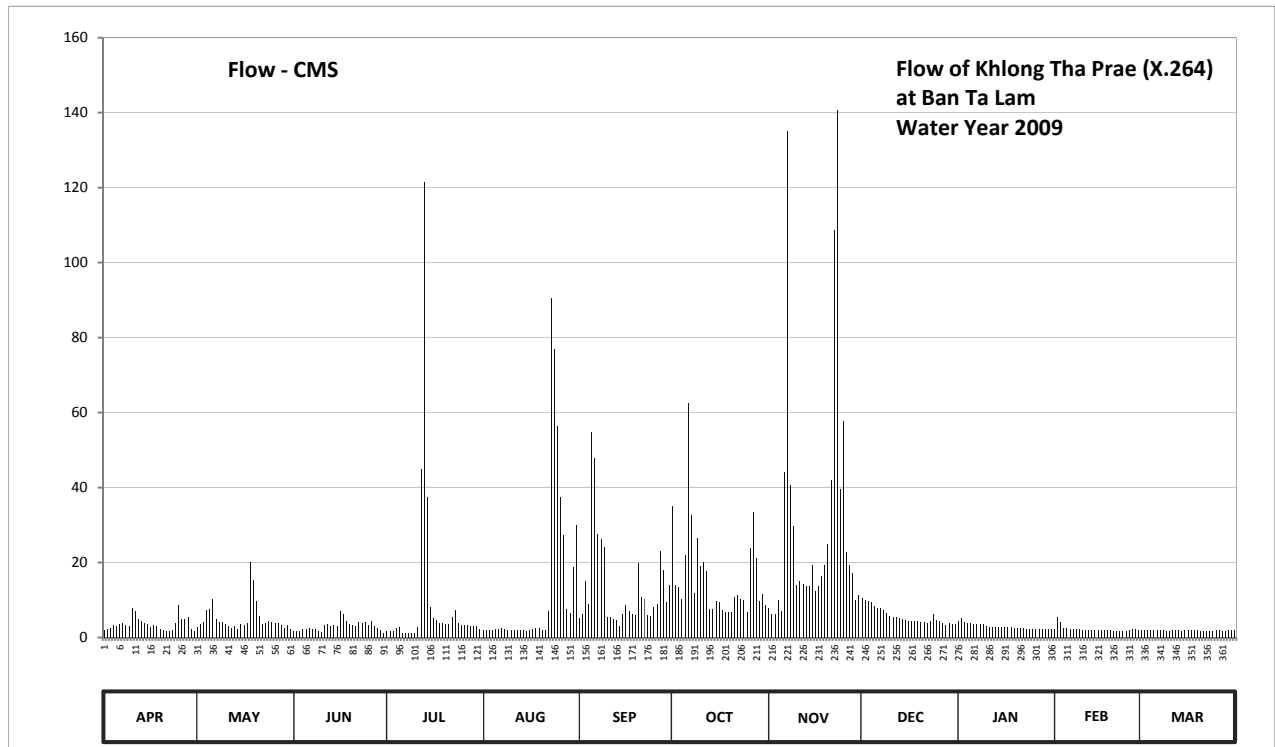
Gage Height in Meter (MSL.) Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.67	5.77	5.71	5.61	5.58	5.76	5.78	5.76	5.75	5.36	5.52	5.39	
2	5.67	5.77	5.69	5.61	5.57	5.76	5.76	5.74	5.73	5.35	5.50	5.38	
3	5.62	5.80	5.69	5.59	5.55	5.75	5.76	5.74	5.70	5.35	5.50	5.38	
4	5.62	6.09	5.67	5.58	5.54	5.72	5.74	5.73	5.70	5.33	5.49	5.36	
5	5.60	6.07	5.66	5.61	5.52	5.72	5.70	5.70	5.68	5.78	5.49	5.35	
6	5.60	6.07	5.66	5.54	5.52	5.70	6.30	6.34	5.66	5.77	5.47	5.33	
7	5.58	5.81	5.65	5.52	5.51	5.71	6.28	6.03	5.64	5.75	5.46	5.32	
8	5.57	5.79	5.65	5.50	5.50	5.74	6.26	6.10	5.64	5.74	5.46	5.31	
9	5.57	5.76	5.64	5.50	5.50	5.77	6.25	5.90	5.63	5.74	5.44	5.30	
10	5.60	5.78	5.64	5.49	5.50	5.79	5.93	5.82	5.63	5.73	5.43	5.30	
11	5.60	5.76	5.59	5.50	5.48	5.73	6.20	5.80	5.40	5.70	5.43	5.28	
12	5.59	5.75	5.57	6.52	5.46	5.72	6.19	5.78	5.38	5.68	5.41	5.27	
13	5.59	5.75	5.56	6.64	5.46	5.70	6.18	6.00	5.35	5.68	5.40	5.25	
14	5.60	5.73	5.55	7.05	5.45	5.70	6.15	5.58	5.30	5.66	5.39	5.24	
15	6.01	5.72	5.60	7.02	5.47	5.80	5.80	5.58	5.28	5.65	5.43	5.24	
16	6.00	5.72	5.82	5.81	5.47	5.80	5.78	5.55	5.28	5.63	5.43	5.24	
17	5.97	5.82	5.80	5.79	5.52	5.78	5.77	6.10	5.26	5.62	5.43	5.23	
18	5.92	5.80	5.79	5.74	5.50	5.78	5.75	6.50	5.50	5.60	5.43	5.21	
19	5.92	5.80	5.77	5.76	5.50	5.77	5.70	6.48	5.48	5.60	5.43	5.20	
20	5.92	5.78	5.76	5.70	5.62	5.70	5.80	6.30	5.46	5.60	5.43	5.20	
21	5.90	5.77	5.74	5.72	5.61	5.71	5.78	6.33	5.45	5.58	5.42	5.19	
22	5.88	5.76	5.74	5.72	5.59	5.72	5.78	6.36	5.44	5.56	5.40	5.19	
23	5.82	5.75	5.72	5.70	7.02	5.72	5.75	6.12	5.44	5.55	5.38	5.18	
24	5.80	5.74	5.70	5.74	6.99	5.70	5.72	6.10	5.42	5.53	5.38	5.17	
25	5.77	5.72	5.68	5.70	6.28	5.72	5.70	6.00	5.40	5.52	5.37	5.15	
26	5.76	5.72	5.67	5.67	6.84	5.80	5.68	5.58	5.40	5.55	5.37	5.14	
27	5.75	5.70	5.67	5.65	6.73	6.24	5.67	5.55	5.38	5.54	5.39	5.14	
28	5.72	5.69	5.65	5.62	5.82	5.80	5.64	5.53	5.37	5.52	5.39	5.13	
29	5.72	5.69	5.62	5.60	5.80	5.80	5.80	5.50	5.37	5.52		5.11	
30	5.72	5.71	5.62	5.60	5.79	5.78	5.78	5.79	5.36	5.52		5.10	
31		5.71		5.58	6.19		5.76		5.36	5.52		5.12	
Mean	5.74	5.78	5.68	5.79	5.77	5.76	5.88	5.91	5.48	5.59	5.43	5.24	
Max	6.01	6.09	5.82	7.05	7.02	6.24	6.30	6.50	5.75	5.78	5.52	5.39	7.05
Min	5.57	5.69	5.55	5.49	5.45	5.70	5.64	5.50	5.26	5.33	5.37	5.10	5.10
Annual Max Momentary Gage Height	7.05	m. (MSL.) , at 06.00 Hours , on Jul 14 , 2009											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed 4.14 m. (MSL)											
Left Bank Elevation	8.15	m. (MSL.) ,											
Right Bank Elevation	8.16	m. (MSL.) , Drainage Area 15 Square Kilometers											



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.07	0.01	0.00	0.00	0.06	0.08	0.06	0.05	0.00	0.00	0.00	
2	0.00	0.07	0.00	0.00	0.00	0.06	0.06	0.04	0.03	0.00	0.00	0.00	
3	0.00	0.10	0.00	0.00	0.00	0.05	0.06	0.04	0.00	0.00	0.00	0.00	
4	0.00	1.40	0.00	0.00	0.00	0.02	0.04	0.03	0.00	0.00	0.00	0.00	
5	0.00	1.29	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.08	0.00	0.00	
6	0.00	1.29	0.00	0.00	0.00	0.00	3.55	4.17	0.00	0.07	0.00	0.00	
7	0.00	0.14	0.00	0.00	0.00	0.01	3.24	1.07	0.00	0.05	0.00	0.00	
8	0.00	0.09	0.00	0.00	0.00	0.04	2.93	1.45	0.00	0.04	0.00	0.00	
9	0.00	0.06	0.00	0.00	0.00	0.07	2.78	0.50	0.00	0.04	0.00	0.00	
10	0.00	0.08	0.00	0.00	0.00	0.09	0.62	0.18	0.00	0.03	0.00	0.00	
11	0.00	0.06	0.00	0.00	0.00	0.03	2.00	0.10	0.00	0.00	0.00	0.00	
12	0.00	0.05	0.00	6.96	0.00	0.02	1.95	0.08	0.00	0.00	0.00	0.00	
13	0.00	0.05	0.00	9.06	0.00	0.00	1.89	0.90	0.00	0.00	0.00	0.00	
14	0.00	0.03	0.00	18.95	0.00	0.00	1.73	0.00	0.00	0.00	0.00	0.00	
15	0.96	0.02	0.00	18.08	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	
16	0.90	0.02	0.18	0.14	0.00	0.10	0.08	0.00	0.00	0.00	0.00	0.00	
17	0.78	0.18	0.10	0.09	0.00	0.08	0.07	1.45	0.00	0.00	0.00	0.00	
18	0.58	0.10	0.09	0.04	0.00	0.08	0.05	6.65	0.00	0.00	0.00	0.00	
19	0.58	0.10	0.07	0.06	0.00	0.07	0.00	6.34	0.00	0.00	0.00	0.00	
20	0.58	0.08	0.06	0.00	0.00	0.00	0.10	3.55	0.00	0.00	0.00	0.00	
21	0.50	0.07	0.04	0.02	0.00	0.01	0.08	4.02	0.00	0.00	0.00	0.00	
22	0.42	0.06	0.04	0.02	0.00	0.02	0.08	4.48	0.00	0.00	0.00	0.00	
23	0.18	0.05	0.02	0.00	18.08	0.02	0.05	1.56	0.00	0.00	0.00	0.00	
24	0.10	0.04	0.00	0.04	17.25	0.00	0.02	1.45	0.00	0.00	0.00	0.00	
25	0.07	0.02	0.00	0.00	3.24	0.02	0.00	0.90	0.00	0.00	0.00	0.00	
26	0.06	0.02	0.00	0.00	13.50	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.05	0.00	0.00	0.00	10.99	2.62	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.02	0.00	0.00	0.00	0.18	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.02	0.00	0.00	0.00	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	
30	0.02	0.01	0.00	0.00	0.09	0.08	0.08	0.09	0.00	0.00	0.00	0.00	
31		0.01		0.00	1.95		0.06		0.00	0.00		0.00	
Total	5.82	5.56	0.61	53.46	65.38	3.97	21.80	39.11	0.08	0.31	0.00	0.00	196.10 CMSDAY
Mean	0.19	0.18	0.02	1.72	2.11	0.13	0.70	1.30	0.00	0.01	0.00	0.00	0.54 CMS
Max	0.96	1.40	0.18	18.95	18.08	2.62	3.55	6.65	0.05	0.08	0.00	0.00	18.95 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.50	0.48	0.05	4.62	5.65	0.34	1.88	3.38	0.01	0.03	0.00	0.00	16.94 MCM
Momentary Peak	18.95 CMS. at 7.05 m. (MSL.) at 06.00 Hours , on Jul 14 , 2009												
Runoff Yield	35.82 Liters/Second/Square KM.			Momentary Peak Yield			263.333 Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2009 to March 31, 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.85	2.72	1.75	1.75	2.10	5.26	35.00	7.78	10.42	4.45	2.25	1.85	
2	2.35	3.60	1.80	1.70	2.00	6.35	13.96	6.35	9.98	5.17	5.35	1.90	
3	2.56	4.18	1.75	1.80	1.90	14.94	13.36	6.13	9.65	4.09	4.18	1.90	
4	3.20	7.34	2.35	2.56	1.90	8.99	10.31	9.98	9.43	3.76	2.64	1.95	
5	2.96	7.67	2.30	2.72	2.15	54.90	21.95	7.01	8.33	3.76	2.56	2.05	
6	3.60	10.20	2.56	1.08	2.40	47.90	62.60	44.05	7.78	3.68	2.30	1.95	
7	3.84	4.99	2.40	1.12	2.48	27.52	32.56	134.96	7.78	3.60	2.25	1.90	
8	3.36	4.18	2.20	1.20	2.25	26.16	11.74	40.50	7.34	3.60	2.25	1.85	
9	3.04	4.09	1.65	1.24	2.10	24.24	26.64	29.68	6.46	3.52	2.25	1.80	
10	7.78	3.52	1.36	1.08	1.90	5.53	18.95	13.96	5.80	3.04	1.95	1.75	
11	7.12	3.12	3.20	2.88	1.90	5.35	20.15	14.94	5.44	2.88	1.95	2.10	
12	4.90	2.64	3.68	44.75	1.85	4.81	17.75	14.32	5.44	2.80	1.95	2.05	
13	4.36	3.04	2.96	121.52	1.85	4.54	7.45	13.72	5.26	2.80	1.95	1.85	
14	3.92	2.35	3.28	37.40	1.85	2.96	7.45	13.84	4.99	2.80	1.95	1.65	
15	3.60	3.60	3.04	8.11	1.80	6.24	9.76	19.40	4.54	2.80	2.10	1.85	
16	2.88	3.36	7.01	5.26	2.00	8.55	9.54	12.29	4.45	2.80	2.05	1.85	
17	3.28	3.92	6.13	4.72	2.15	7.01	7.23	13.72	4.45	2.80	1.95	1.95	
18	3.12	20.00	4.45	3.84	2.64	6.13	6.79	16.34	4.45	2.72	1.85	1.95	
19	2.35	15.22	3.68	3.76	2.48	5.91	6.90	19.40	4.45	2.64	1.85	1.85	
20	1.85	9.76	3.44	3.68	1.85	19.85	6.90	24.88	4.09	2.48	1.80	1.75	
21	1.70	5.62	3.12	3.68	1.90	10.64	10.64	42.00	4.00	2.48	1.80	1.75	
22	1.65	3.68	4.09	5.44	7.12	10.31	11.30	108.70	3.84	2.48	1.75	1.75	
23	1.90	3.84	3.92	7.34	90.50	5.91	10.31	140.72	4.27	2.40	1.75	1.75	
24	3.76	4.45	4.00	3.84	77.00	5.62	10.09	39.50	6.35	2.40	1.80	1.75	
25	8.77	4.00	3.28	3.36	56.30	8.22	6.90	57.70	4.63	2.40	1.85	1.85	
26	4.99	3.84	4.27	3.20	37.40	8.88	23.92	22.70	4.45	2.35	2.25	1.85	
27	4.99	3.92	2.96	3.20	27.34	23.15	33.46	19.40	3.92	2.35	2.20	1.80	
28	5.53	3.36	2.64	3.04	7.67	18.05	21.20	17.32	3.44	2.30	2.10	1.80	
29	2.15	2.56	1.95	3.04	6.57	9.32	9.65	10.09	3.76	2.30		1.85	
30	1.65	3.36	1.08	3.12	18.80	13.96	11.63	11.30	3.68	2.30		1.85	
31		2.25		2.30	30.04		8.77		3.60	2.25		2.05	
Total	109.01	160.38	92.30	293.73	402.19	407.20	504.86	932.68	176.47	92.20	62.88	57.80	3291.70 CMSDAY
Mean	3.63	5.17	3.08	9.48	12.97	13.57	16.29	31.09	5.69	2.97	2.25	1.86	9.02 CMS
Max	8.77	20.00	7.01	121.52	90.50	54.90	62.60	140.72	10.42	5.17	5.35	2.10	140.72 CMS
Min	1.65	2.25	1.08	1.08	1.80	2.96	6.79	6.13	3.44	2.25	1.75	1.65	1.08 CMS
Runoff	9.42	13.86	7.98	25.38	34.75	35.18	43.62	80.58	15.25	7.97	5.43	4.99	284.40 MCM
Momentary Peak	148.40 CMS. at 4.60 m. (MSL.) at 06.00 Hours , on Nov 23 , 2009												
Runoff Yield	40.44 Liters/Second/Square KM.			Momentary Peak Yield			665.471 Liters/Second/Square KM.						

Suspended Sediment Station Water Year 2009

WATER YEAR : 2009

KHONG RIVER BASIN

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

Lat 17 - 34 - 41 N Long 102 - 20 - 22 E

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

	Ban Na Ang	Amphoe Ban Phu	Changwat Udon Thani
Drainage Area	1,309 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.7735		
Remarks	Continued Sediment Station		

$$QS = 2.9274 QW^{1.21930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	10.40	651.30	159.20	28.50	2.00	618.20	23.70	11.60	0.00	0.00	0.00		
2	0.00	10.00	709.10	221.90	28.50	1.90	529.70	22.90	11.30	0.00	0.00	0.00		
3	0.00	9.70	524.60	168.40	28.80	1.50	504.30	22.20	11.30	0.00	0.00	0.00		
4	0.00	9.40	266.20	97.00	24.00	1.20	472.60	19.70	11.00	0.00	0.00	0.00		
5	0.00	8.80	83.20	43.50	21.10	1.30	370.60	18.70	11.00	0.00	0.50	0.00		
6	0.00	8.80	13.30	24.40	12.90	12.60	226.60	17.30	10.40	0.00	0.80	0.00		
7	0.00	8.50	2.50	137.00	1.00	19.40	126.90	16.60	10.00	0.00	0.80	0.00		
8	0.00	8.50	1.70	261.30	0.80	11.30	81.30	15.20	9.70	0.00	0.80	0.00		
9	0.00	8.50	1.10	251.80	0.70	23.70	53.50	14.60	8.80	0.00	0.70	0.00		
10	0.00	8.80	0.90	121.00	0.70	22.90	37.70	14.20	6.70	0.00	0.70	0.00		
11	0.00	8.20	0.90	42.80	0.80	18.00	29.60	14.20	4.00	0.00	0.60	0.00		
12	0.00	8.20	0.80	29.20	1.60	16.30	27.70	13.60	2.90	0.00	0.30	0.00		
13	0.00	9.40	0.70	88.70	2.30	16.30	26.20	13.60	2.80	0.00	0.00	0.00		
14	0.00	10.00	0.80	429.00	2.70	18.00	23.70	13.60	2.60	0.00	0.00	0.00		
15	0.10	12.90	2.70	669.40	3.20	18.00	22.60	13.30	2.30	0.00	0.00	0.00		
16	0.40	16.30	12.60	599.20	7.60	19.00	31.10	13.30	2.10	0.00	0.00	0.00		
17	0.70	19.00	18.00	256.60	7.90	32.30	42.00	13.30	1.90	0.00	0.00	0.00		
18	1.10	21.10	18.00	269.40	13.30	49.60	72.90	13.30	1.60	0.00	0.00	0.00		
19	1.40	21.50	20.40	211.10	23.70	50.40	106.50	13.90	1.40	0.00	0.00	0.00		
20	1.90	23.30	21.90	108.40	21.10	48.90	99.90	13.60	1.20	0.00	0.00	0.00		
21	2.30	28.80	115.10	75.30	7.90	40.50	77.00	13.30	1.00	0.00	0.00	0.00		
22	2.70	67.10	144.80	85.00	7.90	71.20	61.40	12.60	0.70	0.00	0.00	0.00		
23	4.20	184.60	75.30	129.40	2.40	169.80	48.90	12.60	0.50	0.00	0.00	0.00		
24	7.00	264.60	59.00	110.30	2.50	115.10	33.70	12.60	0.30	0.00	0.00	0.00		
25	8.80	151.30	42.00	58.20	1.90	72.90	30.70	12.30	0.20	0.00	0.00	0.00		
26	9.40	60.60	36.40	49.60	1.40	138.30	30.40	12.60	0.10	0.00	0.00	0.00		
27	9.70	33.00	36.40	78.70	1.10	537.30	29.20	14.20	0.00	0.00	0.00	0.00		
28	9.70	24.40	31.90	42.00	1.00	797.80	29.60	12.90	0.00	0.00	0.00	0.00		
29	10.40	23.30	102.70	28.50	1.40	881.70	28.50	12.00	0.00	0.00		0.00		
30	10.70	173.80	151.30	25.90	1.70	777.90	25.50	12.00	0.00	0.00		0.00		
31		426.70		25.50	2.00		24.00		0.00	0.00		0.00		
Total	80.50	1679.50	3145.60	4897.70	262.40	3987.10	3922.50	447.90	127.40	0.00	5.20	0.00	18555.80	Ton
Mean	2.70	54.20	104.90	158.00	8.50	132.90	126.50	14.90	4.10	0.00	0.20	0.00		
Max	10.70	426.70	709.10	669.40	28.80	881.70	618.20	23.70	11.60	0.00	0.80	0.00	881.70	
Min	0.00	8.20	0.70	24.40	0.70	1.20	22.60	12.00	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009**KHONG RIVER BASIN****Loei River at Ban Na Lak , Loei (Kh.28A)**

Lat 17 - 18 - 32 N Long 101 - 46 - 25 E

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

	Ban Na Lak	Amphoe Wang Saphung	Changwat Loei
Drainage Area	1,271 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.8199		
Remarks	Continued Sediment Station		

$$QS = 5.6677 QW^{1.31550}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	49.00	490.30	953.20	191.10	395.30	1109.00	1353.90	131.30	43.40	23.00	17.00	8.00		
2	34.50	102.00	476.40	449.00	324.70	1046.00	8014.20	117.20	41.60	23.00	17.00	9.70		
3	31.10	66.50	272.70	619.10	356.20	525.30	16969.70	108.00	39.80	24.60	15.50	9.70		
4	24.60	49.00	201.50	284.00	388.70	362.60	7448.40	99.10	39.80	23.00	15.50	8.80		
5	19.90	41.60	375.60	267.00	191.10	553.80	2582.60	93.20	39.80	18.40	14.10	7.20		
6	24.60	39.80	239.20	2104.70	145.70	415.20	1474.90	93.20	39.80	17.00	11.40	7.20		
7	39.80	39.80	140.80	1300.90	114.10	511.20	922.70	87.40	36.30	17.00	9.70	7.20		
8	60.50	36.30	131.30	697.50	201.50	745.10	663.60	83.10	34.50	23.00	15.50	8.00		
9	49.00	32.80	126.50	462.60	233.70	476.40	553.80	81.00	34.50	26.20	12.30	8.00		
10	32.80	38.00	278.30	307.10	244.70	375.60	476.40	78.90	32.80	26.20	10.50	8.00		
11	27.80	62.50	597.10	222.90	155.50	272.70	375.60	78.90	32.80	24.60	11.40	8.00		
12	41.60	45.20	278.30	180.70	114.10	228.30	428.70	74.70	32.80	19.90	11.40	8.00		
13	54.70	185.90	1035.60	518.30	102.00	318.80	395.30	70.60	29.50	17.00	11.40	7.20		
14	36.30	604.40	1035.60	1626.10	165.50	626.50	324.70	68.50	27.80	17.00	11.40	7.20		
15	24.60	716.40	375.60	1109.00	117.20	307.10	813.10	66.50	26.20	17.00	11.40	7.20		
16	23.00	1584.50	180.70	546.60	102.00	301.30	4234.20	66.50	24.60	17.00	13.20	7.20		
17	23.00	1172.90	324.70	362.60	117.20	382.20	2104.70	66.50	26.20	17.00	15.50	8.00		
18	21.40	575.40	165.50	324.70	114.10	369.10	953.20	62.50	26.20	17.00	14.10	10.50		
19	19.90	289.80	318.80	337.00	117.20	375.60	575.40	60.50	26.20	17.00	8.80	9.70		
20	15.50	663.60	401.90	356.20	180.70	261.40	428.70	58.50	14.10	17.00	8.80	7.20		
21	13.20	735.50	301.30	250.20	108.00	261.40	362.60	54.70	23.00	17.00	8.00	7.20		
22	13.20	504.20	267.00	206.80	349.80	337.00	362.60	54.70	26.20	17.00	7.20	7.20		
23	12.30	546.60	349.80	307.10	201.50	2728.60	343.40	50.80	26.20	18.40	5.70	4.90		
24	12.30	324.70	278.30	343.40	126.50	953.20	318.80	50.80	24.60	64.50	8.00	2.90		
25	12.30	356.20	206.80	369.10	233.70	575.40	307.10	50.80	24.60	83.10	9.70	1.70		
26	17.00	395.30	239.20	313.00	150.60	1710.00	255.80	49.00	24.60	41.60	8.00	0.70		
27	34.50	343.40	284.00	278.30	117.20	6463.40	244.70	47.10	24.60	32.80	8.00	0.00		
28	45.20	278.30	212.10	206.80	140.80	18715.40	206.80	47.10	23.00	27.80	8.80	0.00		
29	111.10	813.10	155.50	165.50	170.50	3632.80	170.50	45.20	24.60	23.00		2.30		
30	546.60	745.10	206.80	165.50	272.70	1222.40	155.50	43.40	24.60	21.40		2.90		
31		1502.10		222.90	307.10		145.70		23.00	18.40		0.70		
Total	1471.30	13381.20	10410.10	15095.70	6059.60	46162.80	53967.30	2139.70	917.70	766.90	319.30	192.50	150884.10	Ton
Mean	49.00	431.70	347.00	487.00	195.50	1538.80	1740.90	71.30	29.60	24.70	11.40	6.20		
Max	546.60	1584.50	1035.60	2104.70	395.30	18715.40	16969.70	131.30	43.40	83.10	17.00	10.50	18715.40	
Min	12.30	32.80	126.50	165.50	102.00	228.30	145.70	43.40	14.10	17.00	5.70	0.00	0.00	

WATER YEAR : 2009

KHONG RIVER BASIN

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

Lat 17 - 29 - 36 N Long 101 - 44 - 17 E

Location : on left bank at the bridge on road.

	Ban Fak Loei	Amphoe Mueang	Changwat Loei
Drainage Area	3,093 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.8644		
Remarks	Continued Sediment Station		

$$QS = 2.8452 QW^{1.48620}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	53.90	224.80	5684.90	828.40	277.50	1679.40	3252.50	219.20	45.30	24.00	21.30	7.70		
2	59.30	160.50	2478.70	514.00	302.10	1562.10	9889.50	181.10	42.00	22.70	20.00	9.70		
3	50.40	121.70	1245.40	828.40	271.50	1053.30	33866.20	145.50	43.70	22.70	20.00	18.80		
4	47.00	63.00	774.90	413.30	468.40	502.40	30129.30	155.50	40.40	21.30	17.50	17.50		
5	68.70	52.20	597.00	259.60	202.60	869.30	11172.30	155.50	35.70	20.00	14.00	16.30		
6	70.60	40.40	314.60	1174.30	135.80	897.00	5115.50	145.50	35.70	20.00	12.90	14.00		
7	59.30	35.70	265.50	1447.60	95.00	658.80	2673.20	135.80	35.70	20.00	12.90	9.70		
8	90.80	31.10	242.00	1104.60	126.40	1209.70	1659.60	121.70	34.10	21.30	11.80	3.50		
9	68.70	31.10	236.20	722.50	155.50	1053.30	1299.50	90.80	32.60	24.00	10.70	2.00		
10	55.70	40.40	242.00	446.10	213.60	597.00	883.10	99.30	32.60	25.40	10.70	2.80		
11	45.30	78.50	502.40	295.90	131.10	333.70	748.60	99.30	31.10	37.20	8.70	3.50		
12	48.70	90.80	295.90	236.20	112.60	236.20	761.70	99.30	29.60	35.70	6.80	4.30		
13	140.70	259.60	897.00	671.40	103.70	392.00	924.90	95.00	28.20	29.60	6.80	5.10		
14	103.70	1860.40	1174.30	3925.20	131.10	1227.50	584.90	95.00	28.20	25.40	6.80	5.10		
15	126.40	2648.60	413.30	2648.60	121.70	883.10	869.30	90.80	26.80	21.30	7.70	5.10		
16	74.50	3222.90	277.50	1391.50	95.00	584.90	4538.60	90.80	24.00	20.00	6.80	5.10		
17	64.90	2722.60	446.10	748.60	99.30	748.60	4309.20	74.50	21.30	17.50	5.90	4.30		
18	59.30	1410.10	514.00	748.60	131.10	761.70	2127.20	63.00	18.80	15.10	5.10	3.50		
19	45.30	646.30	333.70	609.20	202.60	597.00	1391.50	57.50	17.50	12.90	5.10	4.30		
20	31.10	1523.60	295.90	549.10	197.20	371.00	897.00	57.50	16.30	12.90	5.10	4.30		
21	22.70	1969.30	277.50	277.50	208.10	308.30	761.70	59.30	12.90	12.90	5.10	4.30		
22	20.00	1947.10	247.80	253.70	186.40	855.60	828.40	63.00	16.30	14.00	4.30	4.30		
23	14.00	1542.80	271.50	321.00	371.00	8664.90	633.90	59.30	18.80	18.80	4.30	5.10		
24	9.70	1036.40	277.50	360.60	360.60	4374.40	597.00	57.50	20.00	38.80	5.10	5.10		
25	10.70	597.00	236.20	381.40	424.20	1880.90	537.30	53.90	20.00	277.50	5.90	4.30		
26	11.80	658.80	219.20	308.30	381.40	3164.00	457.20	53.90	20.00	63.00	6.80	3.50		
27	32.60	869.30	224.80	277.50	242.00	14562.60	381.40	52.20	20.00	40.40	10.70	3.50		
28	61.20	549.10	230.50	208.10	371.00	38320.50	327.30	50.40	21.30	34.10	8.70	3.50		
29	66.80	897.00	230.50	150.50	514.00	26087.00	247.80	50.40	22.70	29.60		2.80		
30	671.40	2822.20	230.50	140.70	537.30	5227.80	219.20	47.00	22.70	26.80		2.40		
31		7845.30		191.80	748.60		213.60		24.00	22.70		2.40		
Total	2285.20	35998.60	19677.30	22434.20	7918.40	119664.00	122298.40	2819.50	838.30	1027.60	267.50	187.80	335416.80	Ton
Mean	76.20	1161.20	655.90	723.70	255.40	3988.80	3945.10	94.00	27.00	33.10	9.60	6.10		
Max	671.40	7845.30	5684.90	3925.20	748.60	38320.50	33866.20	219.20	45.30	277.50	21.30	18.80	38320.50	
Min	9.70	31.10	219.20	140.70	95.00	236.20	213.60	47.00	12.90	12.90	4.30	2.00	2.00	

WATER YEAR : 2009

KHONG RIVER BASIN

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

Lat 17 - 07 - 44 N Long 101 - 40 - 56 E

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

	Ban Keng Bong	Amphoe Phu Luang	Changwat Loei
Drainage Area	549 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.7572		
Remarks	Continued Sediment Station		

$$QS = 5.8495 QW^{1.55280}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.50	75.20	249.10	612.90	176.10	2062.80	4059.40	75.20	33.60	18.50	6.20	3.20		
2	3.50	72.10	81.60	412.50	176.10	904.60	28859.90	75.20	36.00	14.80	8.00	2.40		
3	2.40	60.00	95.00	263.70	761.40	515.90	16651.50	75.20	36.00	14.80	6.80	2.40		
4	2.60	48.80	123.80	147.10	193.50	167.70	3106.10	72.10	36.00	14.80	6.80	2.10		
5	2.40	38.40	60.00	1144.30	135.30	184.80	1660.40	72.10	36.00	14.80	6.80	2.10		
6	3.20	28.90	57.10	1500.40	105.50	135.30	570.60	72.10	36.00	14.80	6.80	2.10		
7	3.50	33.60	43.50	1500.40	123.80	309.50	325.30	72.10	36.00	14.80	7.40	2.10		
8	3.20	33.60	36.00	1327.50	180.40	1559.70	463.20	72.10	36.00	14.80	7.40	2.10		
9	2.40	38.40	66.00	273.70	147.10	502.50	309.50	66.00	31.20	13.10	6.80	2.10		
10	2.60	43.50	159.30	234.70	171.90	309.50	346.80	66.00	31.20	13.10	6.80	2.10		
11	4.60	20.50	84.90	202.40	155.20	249.10	249.10	57.10	31.20	13.10	6.80	2.10		
12	16.60	60.00	180.40	151.20	143.20	225.30	230.00	57.10	31.20	13.10	6.80	2.10		
13	14.80	180.40	656.20	1022.00	105.50	612.90	230.00	57.10	31.20	13.10	5.70	1.60		
14	11.40	293.90	198.00	502.50	127.60	325.30	341.40	57.10	31.20	13.10	5.70	1.60		
15	8.60	1039.10	171.90	700.60	147.10	184.80	2504.80	54.30	28.90	13.10	5.10	1.00		
16	6.20	1162.20	171.90	309.50	127.60	163.50	5489.70	54.30	28.90	14.80	5.10	1.00		
17	5.70	570.60	288.80	249.10	112.70	159.30	1022.00	51.50	28.90	13.10	5.10	1.00		
18	4.10	299.10	216.10	135.30	101.90	206.90	171.90	51.50	28.90	13.10	5.10	0.80		
19	4.10	746.00	234.70	105.50	98.40	151.20	176.10	48.80	28.90	13.10	4.60	0.80		
20	3.80	1721.80	105.50	101.90	95.00	198.00	127.60	51.50	28.90	11.40	4.60	0.80		
21	5.10	463.20	84.90	163.50	143.20	135.30	163.50	46.10	26.70	11.40	4.60	0.80		
22	3.80	239.50	105.50	163.50	239.50	543.00	211.50	43.50	26.70	11.40	4.10	0.80		
23	2.40	273.70	155.20	193.50	139.20	1480.80	230.00	36.00	26.70	11.40	4.10	0.30		
24	2.40	325.30	239.50	143.20	116.30	515.90	159.30	36.00	26.70	16.60	3.80	0.30		
25	2.10	730.80	206.90	101.90	139.20	1108.80	176.10	36.00	26.70	14.80	3.80	0.20		
26	2.10	325.30	163.50	95.00	78.40	3586.60	147.10	36.00	22.50	14.80	3.50	0.20		
27	2.60	66.00	123.80	109.10	88.20	23010.30	116.30	38.40	20.50	14.80	3.50	0.20		
28	9.20	91.60	225.30	98.40	105.50	16362.60	98.40	38.40	20.50	13.10	3.50	0.20		
29	88.20	1461.30	159.30	116.30	116.30	2062.80	101.90	36.00	20.50	8.60		0.50		
30	98.40	1253.00	249.10	116.30	143.20	1271.50	91.60	33.60	20.50	8.60		2.40		
31		824.00		151.20	293.90		75.20		18.50	8.60		1.60		
Total	340.50	12619.80	4992.80	12349.10	4988.20	59206.20	68466.20	1638.40	902.70	413.40	155.30	43.00	166115.60	Ton
Mean	11.40	407.10	166.40	398.40	160.90	1973.50	2208.60	54.60	29.10	13.30	5.50	1.40		
Max	98.40	1721.80	656.20	1500.40	761.40	23010.30	28859.90	75.20	36.00	18.50	8.00	3.20	28859.90	
Min	2.10	20.50	36.00	95.00	78.40	135.30	75.20	33.60	18.50	8.60	3.50	0.20	0.20	

WATER YEAR : 2009

KHONG RIVER BASIN

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

Lat 17 - 04 - 05 N Long 104 - 15 - 32 E

Location : on right bank at the bridge on highway.

	Ban Tong Khop	Amphoe Khok Si Suphan	Changwat Sakon Nakhon
Drainage Area	861 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.8953		
Remarks	Continued Sediment Station		

$$QS = 3.3530 QW^{1.18880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.90	21.60	32.70	24.30	43.60	43.60	52.70	5.90	1.50	0.80	0.20	0.00		
2	10.90	20.60	31.00	25.40	55.50	44.50	68.80	5.40	1.50	1.10	0.20	0.00		
3	12.90	21.10	31.00	24.90	79.60	45.40	58.30	5.00	1.50	1.10	0.00	0.20		
4	15.90	15.40	31.00	28.20	53.60	36.50	37.40	4.60	1.50	0.80	0.80	1.10		
5	16.40	15.90	31.60	35.60	43.60	28.20	33.30	4.20	1.50	0.50	0.80	0.80		
6	15.90	15.90	32.70	68.80	37.40	33.90	26.00	4.20	1.50	0.50	1.10	0.50		
7	16.40	17.90	33.30	77.60	31.60	33.30	24.30	3.80	1.50	0.50	1.10	0.20		
8	16.40	18.50	32.20	131.90	34.80	29.30	17.90	3.80	1.50	0.50	1.10	0.50		
9	16.40	17.40	30.50	136.70	37.40	26.00	15.90	3.80	1.50	0.50	1.10	0.50		
10	15.90	18.50	31.00	61.10	36.50	24.90	14.40	3.40	1.10	0.50	0.80	1.50		
11	15.90	19.00	31.00	46.30	33.30	25.40	13.40	3.40	0.80	0.50	0.80	3.40		
12	15.90	22.70	30.50	36.50	34.80	25.40	13.40	3.40	0.80	0.50	0.80	7.60		
13	15.40	69.80	27.70	49.90	67.80	25.40	13.40	3.40	1.10	0.50	0.50	14.40		
14	16.40	32.20	29.30	31.60	259.50	24.30	13.40	3.40	1.10	0.50	0.50	14.90		
15	16.40	30.50	31.60	36.50	218.90	29.30	14.40	3.40	1.50	0.50	0.50	16.90		
16	15.90	29.90	35.60	33.30	490.90	77.60	14.40	3.40	1.50	0.20	0.50	16.90		
17	16.40	24.90	67.80	70.70	180.30	49.00	13.40	3.40	1.50	0.20	0.20	18.50		
18	16.40	23.30	64.00	62.10	116.40	40.90	12.90	3.40	1.50	0.20	0.20	17.90		
19	16.40	22.70	52.70	33.30	69.80	40.90	13.40	3.40	1.50	0.20	0.20	17.90		
20	16.40	53.60	236.60	28.20	70.70	36.50	12.90	3.40	1.50	0.20	0.20	17.40		
21	16.40	167.20	252.60	32.70	68.80	33.90	12.90	3.40	1.50	0.20	0.00	16.90		
22	17.40	60.20	107.20	32.70	53.60	34.80	12.40	3.40	1.50	0.20	0.00	16.40		
23	15.40	32.70	63.10	32.70	67.80	38.30	12.40	3.40	1.50	0.20	0.00	15.40		
24	14.40	24.30	39.10	34.80	50.90	42.70	12.40	3.00	1.50	0.20	0.00	14.40		
25	15.90	25.40	26.50	21.10	56.40	46.30	11.90	2.60	1.50	0.20	0.00	14.40		
26	15.40	33.90	30.50	26.00	60.20	49.90	10.90	2.20	1.50	0.20	0.00	15.90		
27	15.40	56.40	24.30	22.70	45.40	66.90	10.00	1.80	1.50	0.20	0.00	14.90		
28	15.40	93.20	22.20	20.60	50.90	56.40	9.50	1.50	1.50	0.20	0.00	15.40		
29	15.40	41.80	26.50	24.30	68.80	42.70	9.00	1.50	1.50	0.20		12.90		
30	15.90	40.90	32.70	30.50	62.10	36.50	7.20	1.50	1.50	0.20		12.40		
31		33.90		56.40	53.60		5.40		1.50	0.20		12.40		
Total	467.50	1121.30	1548.50	1377.40	2634.50	1168.70	598.00	102.40	43.90	12.50	11.60	312.50	9398.80	Ton
Mean	15.60	36.20	51.60	44.40	85.00	39.00	19.30	3.40	1.40	0.40	0.40	10.10		
Max	17.40	167.20	252.60	136.70	490.90	77.60	68.80	5.90	1.50	1.10	1.10	18.50	490.90	
Min	10.90	15.40	22.20	20.60	31.60	24.30	5.40	1.50	0.80	0.20	0.00	0.00	0.00	

WATER YEAR : 2009

KHONG RIVER BASIN

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

Lat 16 - 47 - 48 N Long 104 - 39 - 45 E

Location : on left bank at the bridge on highway.

	Ban Khon Sawan	Amphoe That Phanom	Changwat Nakhon Phanom
Drainage Area	172 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.7807		
Remarks	Continued Sediment Station		

$$QS = 20.9510 QW^{1.22420}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.90	1.00	38.10	42.40	370.10	100.50	121.40	15.00	4.80	5.60	6.00	1.10		
2	2.60	1.10	28.10	33.00	291.90	121.40	165.10	12.60	4.80	4.80	9.00	7.20		
3	2.60	1.10	27.30	27.30	215.00	110.90	116.10	9.90	4.80	4.80	8.10	0.40		
4	3.30	0.80	29.70	24.90	150.30	73.90	68.80	13.50	4.80	5.20	9.90	0.20		
5	3.70	0.80	33.90	168.90	100.50	71.30	46.00	14.30	4.80	5.20	10.30	0.20		
6	2.90	0.70	29.70	520.80	85.40	70.00	37.20	13.10	4.80	6.80	12.10	0.20		
7	1.60	0.40	24.10	412.20	75.20	71.30	28.10	11.20	4.80	6.80	1.60	0.00		
8	1.00	0.30	19.40	198.60	79.10	71.30	24.90	11.20	4.00	6.80	0.70	0.00		
9	1.00	0.70	15.70	95.40	132.10	62.40	20.20	11.20	7.20	6.80	0.70	0.00		
10	0.80	0.80	15.70	50.40	215.00	47.80	16.40	9.90	9.00	6.00	1.00	0.00		
11	0.70	1.10	13.50	40.70	366.60	19.40	16.40	9.90	8.10	5.20	2.60	0.00		
12	0.70	17.20	16.40	46.90	295.20	9.00	15.00	13.10	6.00	4.80	3.70	0.00		
13	1.30	39.80	14.30	54.10	462.30	35.50	19.40	14.30	5.20	4.80	3.30	0.00		
14	6.00	39.00	29.70	41.60	1025.80	34.70	21.00	9.90	4.80	5.60	4.80	0.00		
15	21.70	38.10	56.20	53.20	1043.10	41.60	24.10	8.10	4.80	7.20	3.30	0.00		
16	24.90	27.30	56.20	75.20	850.90	56.20	32.20	6.80	4.80	5.60	2.20	0.00		
17	15.00	21.00	52.30	88.70	642.80	58.70	29.70	6.80	4.80	4.40	1.30	0.00		
18	12.10	14.30	46.90	124.90	502.40	56.20	28.90	6.40	7.70	3.70	1.10	0.50		
19	6.80	40.70	46.90	98.80	322.10	52.30	31.40	9.00	8.10	4.00	1.10	0.40		
20	4.80	992.50	141.10	59.90	180.20	47.80	29.70	9.40	5.60	32.20	1.30	0.00		
21	3.70	1083.70	185.90	66.20	119.60	37.20	40.70	7.20	4.80	15.70	1.30	0.30		
22	2.60	356.20	135.70	73.90	75.20	39.80	36.40	5.60	4.80	1.60	2.20	0.30		
23	1.10	83.70	139.30	824.20	67.50	26.50	29.70	5.60	4.40	1.30	1.30	0.30		
24	1.00	42.40	154.00	824.20	61.20	22.50	24.90	5.20	4.40	1.30	1.30	0.20		
25	0.80	31.40	103.90	703.30	47.80	47.80	21.70	5.60	4.40	1.30	1.30	0.00		
26	0.80	458.70	72.60	455.00	37.20	55.00	18.70	8.50	4.40	1.90	1.10	0.00		
27	0.20	750.50	34.70	217.80	31.40	57.50	17.90	9.90	4.00	1.30	1.10	0.00		
28	0.00	422.80	44.20	97.10	50.40	50.40	18.70	9.40	3.70	1.30	1.10	0.00		
29	0.00	148.40	46.90	97.10	77.80	51.40	14.30	6.80	6.80	1.30		0.10		
30	0.00	66.20	53.20	187.90	92.00	58.70	15.00	6.80	6.80	1.30		0.30		
31		57.50		349.40	93.70		17.20		6.80	1.60		0.30		
Total	126.60	4740.20	1705.60	6154.00	8159.80	1659.00	1147.20	286.20	169.00	166.20	94.80	12.00	24420.60	Ton
Mean	4.20	152.90	56.90	198.50	263.20	55.30	37.00	9.50	5.50	5.40	3.40	0.40		
Max	24.90	1083.70	185.90	824.20	1043.10	121.40	165.10	15.00	9.00	32.20	12.10	7.20	1083.70	
Min	0.00	0.30	13.50	24.90	31.40	9.00	14.30	5.20	3.70	1.30	0.70	0.00	0.00	

WATER YEAR : 2009

KHONG RIVER BASIN

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

Lat 16 - 44 - 06 N Long 104 - 31 - 23 E

Location : on left bank at the bridge on highway.

	Ban Kan Luang Dong	Amphoe Dong Luang	Changwat Muk Dahan
Drainage Area	1,119 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.8560		
Remarks	Continued Sediment Station		

$$QS = 1.4745 QW^{1.40010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	5.30	19.10	19.10	164.00	160.70	92.60	9.00	9.00	5.00	1.90	0.50		
2	3.70	3.70	19.10	19.10	116.20	116.20	144.40	9.00	8.10	4.30	2.90	0.50		
3	3.70	3.70	19.10	13.80	96.10	106.90	125.60	9.00	8.10	4.30	4.30	0.50		
4	3.70	3.70	19.10	13.80	70.70	92.60	105.10	9.00	7.30	4.30	3.70	0.50		
5	3.70	3.70	13.80	73.90	50.50	96.10	101.50	9.00	6.40	4.30	4.30	0.50		
6	3.70	3.70	13.80	110.60	37.80	75.60	101.50	13.80	5.30	4.30	4.30	0.70		
7	3.70	3.70	13.80	75.60	33.80	62.70	77.20	12.80	5.00	4.00	4.30	0.70		
8	3.70	5.30	13.80	46.20	49.10	52.00	50.50	9.00	4.60	4.00	4.60	0.70		
9	2.40	5.30	10.90	50.50	90.90	46.20	32.50	9.00	9.90	3.70	4.60	0.70		
10	2.40	5.30	10.90	65.80	131.40	85.70	35.10	9.00	5.00	4.00	4.60	0.70		
11	3.70	5.30	9.00	37.80	129.50	58.00	31.20	11.80	3.70	4.00	4.60	0.60		
12	3.70	3.70	9.00	21.40	137.20	61.10	29.90	11.80	3.70	4.00	4.60	0.60		
13	3.70	3.70	9.00	27.40	1479.50	65.80	26.20	9.00	3.70	4.00	4.60	0.60		
14	3.70	3.70	9.00	27.40	2353.90	82.30	24.90	7.30	4.60	4.00	1.70	0.50		
15	5.30	3.70	19.10	50.50	2108.10	85.70	19.10	5.30	4.60	4.00	1.10	0.50		
16	5.30	3.70	31.20	59.60	1770.70	94.40	19.10	7.30	4.60	4.00	2.10	0.20		
17	5.30	3.70	41.90	65.80	241.80	101.50	19.10	7.30	3.70	4.30	4.00	0.20		
18	5.30	3.70	49.10	49.10	198.30	84.00	19.10	5.30	3.70	4.00	4.00	0.20		
19	5.30	3.70	47.60	44.70	112.40	75.60	18.00	12.80	3.70	3.70	3.70	0.20		
20	5.30	253.00	52.00	46.20	110.60	75.60	19.10	12.80	3.70	3.70	3.70	0.20		
21	3.70	241.80	40.50	77.20	110.60	67.40	19.10	3.70	4.60	3.40	3.70	0.10		
22	3.70	347.90	26.20	92.60	114.30	87.40	29.90	3.70	4.60	3.40	2.40	0.10		
23	3.70	89.10	19.10	4354.00	150.80	72.30	14.80	3.70	4.60	3.20	2.40	0.10		
24	3.70	49.10	19.10	303.40	129.50	40.50	13.80	4.60	4.60	2.90	3.20	0.10		
25	3.70	20.30	19.10	58.00	131.40	37.80	13.80	4.60	3.70	2.60	2.40	0.10		
26	3.70	19.10	19.10	44.70	154.10	37.80	12.80	3.70	3.70	2.60	0.90	0.20		
27	4.30	19.10	19.10	49.10	157.40	49.10	12.80	3.70	5.30	2.40	0.90	0.30		
28	5.30	13.80	9.90	23.80	219.70	105.10	12.80	3.70	9.90	2.40	0.90	0.50		
29	5.30	13.80	9.00	39.10	241.80	47.60	9.90	9.90	13.80	2.10		0.60		
30	5.30	14.80	18.00	52.00	303.40	39.10	9.00	9.90	14.80	2.10		0.90		
31		21.40		268.20	424.50		28.60		9.90	1.90		0.90		
Total	123.70	1181.50	629.40	6280.40	11620.00	2262.80	1269.00	240.50	187.90	110.90	90.40	13.70	24010.20	Ton
Mean	4.10	38.10	21.00	202.60	374.80	75.40	40.90	8.00	6.10	3.60	3.20	0.40		
Max	5.30	347.90	52.00	4354.00	2353.90	160.70	144.40	13.80	14.80	5.00	4.60	0.90	4354.00	
Min	2.40	3.70	9.00	13.80	33.80	37.80	9.00	3.70	3.70	1.90	0.90	0.10	0.10	

WATER YEAR : 2009

KHONG RIVER BASIN

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

Lat 17 - 28 - 56 N Long 102 - 47 - 49 E

Location : on right bank at the bridge on highway.

	Ban Non Toom	Amphoe Mueang	Changwat Udon Thani
Drainage Area	1,235 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.9176		
Remarks	Continued Sediment Station		

$$QS = 5.8391 QW^{1.02530}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.40	1.90	163.60	115.30	239.00	35.30	345.50	9.50	2.60	2.60	2.90	1.70		
2	3.50	1.90	211.80	134.10	234.40	41.70	322.30	8.20	2.60	2.40	2.90	1.20		
3	3.10	1.70	211.80	157.10	232.10	53.80	300.90	7.00	2.40	2.40	1.70	0.80		
4	3.30	2.00	175.30	158.40	216.10	46.20	270.20	5.80	2.40	2.40	1.70	0.80		
5	6.80	1.70	110.00	141.50	131.10	34.50	241.30	5.40	2.40	1.70	1.70	0.20		
6	7.80	1.70	63.90	123.40	61.90	31.50	196.10	4.60	2.40	1.70	1.70	1.00		
7	8.50	1.50	25.40	111.10	32.70	29.30	148.00	4.60	2.40	1.70	1.90	1.00		
8	8.00	1.40	11.90	113.70	30.40	28.50	106.50	4.20	2.20	1.70	8.50	2.90		
9	7.50	1.40	9.50	136.00	25.10	33.00	74.60	4.20	2.20	1.50	12.90	5.80		
10	7.50	1.70	6.80	137.00	24.80	42.80	53.30	4.20	1.90	1.50	9.20	3.90		
11	7.80	1.70	4.40	116.20	42.10	39.80	39.00	3.90	1.90	1.70	6.80	2.20		
12	7.50	1.50	5.10	93.50	88.90	35.70	34.50	3.90	1.90	1.70	5.80	1.90		
13	12.10	1.70	8.50	117.80	161.00	34.20	30.80	3.50	1.90	1.70	5.40	1.70		
14	11.40	1.70	10.70	168.80	175.30	45.10	26.70	3.50	1.70	1.70	5.60	1.70		
15	12.60	1.50	10.40	211.80	204.00	77.70	25.40	3.50	1.70	1.50	3.50	2.20		
16	13.10	3.50	31.50	265.00	225.20	95.60	23.60	3.30	1.70	1.50	2.80	2.00		
17	12.90	3.90	88.90	319.00	243.60	97.60	26.40	3.30	1.70	1.50	2.60	2.00		
18	13.10	3.50	129.20	345.50	255.10	104.30	70.00	3.10	1.70	1.40	2.00	1.50		
19	12.90	3.30	135.00	365.40	239.00	107.10	90.50	3.30	1.90	1.40	1.90	1.20		
20	14.10	3.10	128.20	365.40	216.10	136.00	71.00	3.30	1.70	1.40	1.70	2.80		
21	10.70	8.00	117.80	345.50	179.50	118.70	52.80	3.10	1.70	1.50	1.70	3.10		
22	9.70	22.30	117.00	309.80	120.50	110.60	46.20	2.90	1.70	7.30	1.90	2.60		
23	8.20	24.50	105.90	297.90	70.50	157.10	41.30	2.60	1.70	7.50	2.00	3.10		
24	7.00	37.50	94.10	292.00	48.90	186.00	28.90	2.60	1.70	6.80	3.30	2.90		
25	6.30	93.50	112.00	280.80	44.30	190.90	23.00	2.60	1.50	6.10	3.10	2.60		
26	6.30	49.20	112.80	272.90	42.10	198.10	20.80	2.60	1.50	5.10	2.20	1.90		
27	7.80	53.80	105.40	267.60	31.50	234.40	18.50	2.60	1.40	3.50	1.70	1.70		
28	7.30	36.80	93.50	257.40	29.30	289.00	16.80	2.60	1.40	2.90	1.70	1.90		
29	5.10	31.20	76.10	248.20	27.80	328.90	14.80	2.60	3.70	2.90		2.40		
30	4.40	47.00	85.90	243.60	27.40	348.80	12.90	2.60	3.50	2.60		3.10		
31		83.80		243.60	35.30		12.10		2.60	2.40		2.90		
Total	250.70	529.90	2562.40	6755.30	3735.00	3312.20	2784.70	119.10	63.70	83.70	100.80	66.70	20364.20	Ton
Mean	8.40	17.10	85.40	217.90	120.50	110.40	89.80	4.00	2.10	2.70	3.60	2.20		
Max	14.10	93.50	211.80	365.40	255.10	348.80	345.50	9.50	3.70	7.50	12.90	5.80	365.40	
Min	3.10	1.40	4.40	93.50	24.80	28.50	12.10	2.60	1.40	1.40	1.70	0.20	0.20	

WATER YEAR : 2009

NAM MAE KOK RIVER BASIN

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

Lat 19 - 47 - 32 N Long 99 - 45 - 11 E

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

	Ban Ton Yang	Amphoe Mae Lao	Changwat Chiang Rai
Drainage Area	2,909 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	35		
R-Square	0.9240		
Remarks	Continued Sediment Station		

$$QS = 3.9963 QW^{1.55770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.70	6.00	5318.60	1.20	33.30	367.80	1513.10	564.40	467.70	40.50	0.40	0.80		
2	6.70	6.00	3622.80	3.40	252.80	697.80	926.90	512.90	438.20	40.50	1.40	0.90		
3	6.00	11.60	2538.00	4.00	639.40	528.20	883.50	482.50	409.40	40.50	1.80	1.40		
4	6.00	56.20	757.90	4.00	717.60	381.70	1183.30	497.40	395.50	33.30	1.80	1.20		
5	5.30	52.10	697.80	3.40	218.00	341.10	2042.50	512.90	341.10	24.20	1.40	0.80		
6	5.30	60.50	778.40	52.10	144.30	341.10	2990.70	564.40	252.80	18.80	1.40	0.70		
7	5.30	60.50	639.40	1241.10	4423.70	314.90	2898.00	564.40	241.10	18.80	2.30	0.80		
8	6.00	30.20	582.90	1737.70	2806.40	697.80	2153.80	737.70	229.50	18.80	2.30	1.20		
9	6.00	21.40	905.10	1131.20	1576.10	438.20	1212.00	757.90	229.50	24.20	1.80	1.80		
10	6.00	9.50	1038.60	467.70	737.70	218.00	717.60	757.90	206.90	30.20	1.40	1.40		
11	5.30	9.50	1015.90	241.10	277.10	114.10	601.50	697.80	206.90	27.10	1.40	1.10		
12	5.30	9.50	862.10	154.10	229.50	100.00	528.20	639.40	277.10	7.50	1.40	0.80		
13	5.30	11.60	678.10	121.40	381.70	314.90	528.20	601.50	277.10	7.50	1.20	0.80		
14	5.30	73.80	564.40	528.20	717.60	620.30	697.80	564.40	277.10	11.60	0.90	0.70		
15	5.30	639.40	423.90	381.70	971.10	905.10	639.40	546.20	265.00	18.80	0.90	0.70		
16	5.30	546.20	100.00	154.10	1038.60	1015.90	639.40	564.40	265.00	16.20	0.90	0.80		
17	5.30	381.70	86.50	252.80	883.50	1389.80	528.20	546.20	229.50	11.60	1.10	0.80		
18	5.30	218.00	107.00	1359.60	658.60	4423.70	381.70	528.20	241.10	9.50	1.00	0.70		
19	4.60	341.10	395.50	1389.80	409.40	7853.60	395.50	601.50	229.50	11.60	1.00	0.80		
20	4.60	1084.50	154.10	697.80	185.10	4046.80	620.30	737.70	206.90	33.30	1.00	5.30		
21	4.60	1513.10	24.20	452.70	93.20	1837.30	799.00	528.20	136.50	1.20	0.90	4.00		
22	4.60	1061.50	7.50	423.90	302.20	1389.80	1061.50	512.90	136.50	0.90	0.80	4.00		
23	5.30	497.40	9.50	354.40	1513.10	6542.00	1389.80	497.40	121.40	0.80	0.90	3.40		
24	5.30	381.70	6.70	289.40	1938.90	8223.40	926.90	497.40	121.40	0.70	0.80	4.00		
25	5.30	241.10	1.20	174.60	1451.00	3985.40	948.90	467.70	114.10	0.90	1.00	3.40		
26	5.30	218.00	1.10	100.00	757.90	2538.00	778.40	497.40	100.00	0.90	0.80	0.80		
27	5.30	154.10	0.90	86.50	381.70	4812.40	658.60	512.90	86.50	0.80	0.90	0.80		
28	5.30	33.30	0.80	56.20	314.90	8128.00	658.60	482.50	52.10	1.00	0.90	0.80		
29	6.00	24.20	0.70	24.20	174.60	5466.50	620.30	467.70	48.10	0.90		0.90		
30	6.00	302.20	0.80	21.40	164.40	2944.20	497.40	452.70	44.20	1.00		1.10		
31		4296.50		18.80	252.80		564.40		44.20	0.80		1.10		
Total	163.90	12352.40	21320.40	11928.50	24646.20	70977.80	30985.40	16896.50	6691.90	454.40	33.80	47.80	196499.00	Ton
Mean	5.50	398.50	710.70	384.80	795.00	2365.90	999.50	563.20	215.90	14.70	1.20	1.50		
Max	6.70	4296.50	5318.60	1737.70	4423.70	8223.40	2990.70	757.90	467.70	40.50	2.30	5.30	8223.40	
Min	4.60	6.00	0.70	1.20	33.30	100.00	381.70	452.70	44.20	0.70	0.40	0.70	0.40	

WATER YEAR : 2009

CHI RIVER BASIN

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

Lat 15 - 46 - 08 N Long 101 - 49 - 01 E

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

	Ban Non Puai	Amphoe Ban Khwao	Changwat Chaiyaphum
Drainage Area	4,207 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.8400		
Remarks	Continued Sediment Station		

$$QS = 1.3207 QW^{1.45410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	21.40	445.80	113.60	31.20	1400.40	4857.30	385.70	31.20	7.80	8.50	0.00		
2	0.00	66.40	584.30	127.70	42.00	3275.90	4546.20	344.50	27.20	7.80	8.50	0.00		
3	0.00	71.70	492.70	120.60	80.60	4371.40	5297.20	274.90	27.20	7.80	7.80	0.00		
4	0.00	51.40	385.70	66.40	63.90	4708.40	6390.50	200.20	23.30	7.80	7.20	0.00		
5	0.00	31.20	320.80	51.40	51.40	3993.00	9066.30	190.20	21.40	7.20	5.90	0.00		
6	0.00	14.50	274.90	46.60	46.60	2718.60	9512.20	242.00	19.60	7.20	5.30	0.00		
7	0.00	7.80	231.30	63.90	39.80	1765.50	8704.90	220.80	17.90	6.50	5.30	0.00		
8	0.00	4.70	180.30	190.20	37.60	1420.70	7462.70	170.50	16.20	6.50	5.30	0.00		
9	0.00	2.20	135.00	210.40	37.60	1516.80	4887.20	151.60	14.50	8.50	4.20	0.00		
10	0.00	1.00	106.70	106.70	39.80	1671.80	2442.30	161.00	19.60	12.90	4.20	0.00		
11	0.00	1.30	93.40	80.60	46.60	1267.10	1509.90	220.80	17.90	14.50	4.20	0.00		
12	0.00	2.60	106.70	63.90	39.80	942.50	1228.00	263.80	16.20	14.50	3.60	0.00		
13	0.00	6.50	106.70	53.80	37.60	781.30	1098.70	252.80	14.50	16.20	3.60	0.00		
14	0.00	69.10	93.40	56.30	44.30	584.30	983.10	220.80	16.20	14.50	1.00	0.00		
15	0.00	492.70	100.00	51.40	46.60	320.80	889.20	190.20	14.50	12.90	0.30	0.00		
16	0.00	445.80	93.40	49.00	56.30	841.20	858.50	170.50	14.50	11.40	0.10	0.00		
17	0.00	415.40	80.60	46.60	86.90	2604.90	1061.30	151.60	11.40	11.40	0.10	0.00		
18	0.00	385.70	74.40	42.00	200.20	5498.30	1454.80	142.40	9.90	9.90	0.00	0.00		
19	0.00	385.70	93.40	37.60	242.00	6174.20	1743.80	127.70	9.90	9.20	0.00	0.00		
20	0.00	371.00	113.60	37.60	180.30	6719.10	1787.40	100.00	9.20	8.50	0.00	0.00		
21	0.00	332.60	100.00	39.80	120.60	7066.80	1441.10	71.70	8.50	8.50	0.00	0.00		
22	0.00	344.50	100.00	37.60	113.60	6957.70	1138.10	61.30	7.80	8.50	0.00	0.00		
23	0.00	508.60	142.40	37.60	113.60	5560.60	1010.50	51.40	7.80	8.50	0.00	0.00		
24	0.00	610.20	151.60	42.00	161.00	3600.50	996.80	49.00	9.20	8.50	0.00	0.00		
25	0.00	610.20	170.50	49.00	356.60	2553.70	924.60	46.60	8.50	8.50	0.00	0.00		
26	0.00	717.30	135.00	58.80	492.70	2069.50	815.30	44.30	8.50	9.90	0.00	0.00		
27	0.00	781.30	113.60	53.80	663.10	1957.80	876.00	39.80	7.80	11.40	0.00	0.00		
28	0.00	794.00	80.60	39.80	777.10	3409.10	929.10	35.40	7.80	8.50	0.00	0.00		
29	0.00	717.30	69.10	35.40	690.00	4328.00	880.40	33.30	7.80	7.80	0.00	0.00		
30	0.00	508.60	71.70	27.20	717.30	4560.90	508.60	31.20	7.20	8.50	0.00	0.00		
31	0.00	445.80	0.00	27.20	772.80	0.00	400.40	0.00	7.20	8.50	0.00	0.00		
Total	0.00	9218.50	5247.60	2064.50	6429.50	94640.80	85702.40	4646.00	440.40	300.10	75.10	0.00	208764.90	Ton
Mean	0.00	297.40	174.90	66.60	207.40	3154.70	2764.60	154.90	14.20	9.70	2.70	0.00		
Max	0.00	794.00	584.30	210.40	777.10	7066.80	9512.20	385.70	31.20	16.20	8.50	0.00	9512.20	
Min	0.00	1.00	69.10	27.20	31.20	320.80	400.40	31.20	7.20	6.50	0.00	0.00	0.00	

WATER YEAR : 2009

CHI RIVER BASIN

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

Lat 15 - 40 - 49 N Long 102 - 00 - 46 E

Location : on left bank at the bridge on highway.

	Ban Khai	Amphoe Mueang	Changwat Chaiyaphum
Drainage Area	6,282 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	196		
R-Square	0.8634		
Remarks	Continued Sediment Station		

$$QS = 5.2244 QW^{1.18330}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	56.90	174.10	849.90	150.50	103.60	888.10	3716.30	1350.00	111.50	77.40	41.50	147.20		
2	65.60	397.30	915.00	155.50	121.10	1087.40	4029.50	1270.90	109.90	75.90	40.10	147.20		
3	98.90	420.70	930.40	140.60	140.60	1256.70	4360.40	1160.10	108.30	72.90	34.80	121.10		
4	85.00	235.60	842.20	125.90	132.40	1377.80	4575.10	1051.30	105.10	71.40	42.80	92.70		
5	64.10	127.50	755.50	121.10	119.40	1534.60	4819.70	957.50	100.40	70.00	59.70	86.50		
6	49.80	114.60	710.80	119.40	114.60	1642.50	5231.80	880.40	95.80	68.50	54.00	85.00		
7	38.80	105.10	662.90	153.90	109.90	1705.90	5736.60	808.10	95.80	68.50	47.00	111.50		
8	26.90	97.30	583.00	224.50	106.70	1705.90	5842.80	644.60	97.30	68.50	41.50	86.50		
9	20.70	89.60	508.40	193.90	108.30	1696.80	6056.10	466.40	97.30	71.40	28.20	78.90		
10	19.90	91.10	432.40	155.50	108.30	1687.80	5949.50	420.70	97.30	70.00	24.60	81.90		
11	19.90	89.60	253.60	142.20	105.10	1678.70	5736.60	380.00	98.90	74.40	22.20	89.60		
12	33.40	108.30	158.90	116.20	106.70	1669.60	5066.30	382.90	102.00	80.40	19.90	65.60		
13	52.60	127.50	177.50	117.80	102.00	1642.50	4427.10	359.90	102.00	75.90	19.20	58.30		
14	80.40	213.50	148.90	114.60	105.10	1552.50	3774.50	311.80	100.40	70.00	17.70	54.00		
15	91.10	417.70	147.20	111.50	111.50	1389.60	3222.40	271.70	100.40	72.90	16.90	81.90		
16	81.90	633.70	142.20	111.50	121.10	1339.80	2854.50	242.30	98.90	71.40	14.70	103.60		
17	70.00	666.60	127.50	111.50	127.50	1344.90	2577.70	228.90	97.30	68.50	14.00	80.40		
18	65.60	744.30	116.20	108.30	177.50	1525.60	2404.10	231.20	95.80	62.60	13.30	98.90		
19	58.30	714.50	167.30	106.70	233.40	1705.90	2327.60	222.30	94.20	62.60	16.20	78.90		
20	49.80	710.80	179.20	106.70	211.30	1864.70	2280.00	206.90	94.20	56.90	23.00	62.60		
21	34.80	692.30	140.60	105.10	169.00	2067.60	2265.70	180.90	91.10	49.80	40.10	54.00		
22	41.50	692.30	121.10	106.70	145.60	2280.00	2237.20	172.40	89.60	47.00	95.80	49.80		
23	32.10	842.20	167.30	108.30	152.20	2597.10	2166.30	165.60	86.50	45.60	143.90	47.00		
24	21.50	1051.30	152.20	108.30	162.30	2956.60	2095.70	155.50	83.50	45.60	75.90	40.10		
25	19.20	1042.30	170.70	109.90	204.70	3370.10	2011.50	137.30	78.90	44.20	62.60	36.10		
26	26.90	965.30	240.10	105.10	394.40	3370.10	1927.80	127.50	78.90	45.60	139.00	29.50		
27	33.40	949.80	158.90	111.50	522.50	3484.90	1800.30	124.30	77.40	51.20	157.20	23.80		
28	30.80	993.10	139.00	106.70	666.60	3370.10	1705.90	121.10	77.40	51.20	122.70	19.20		
29	56.90	973.10	139.00	102.00	796.80	3255.90	1651.50	117.80	77.40	45.60		25.40		
30	102.00	903.40	139.00	97.30	834.60	3370.10	1561.40	111.50	77.40	47.00		71.40		
31		853.70		100.40	838.40		1445.50		75.90	48.40		85.00		
Total	1528.70	16238.20	10376.90	3849.10	7453.20	60419.80	105857.40	13261.80	2896.80	1931.30	1428.50	2293.60	227535.30	Ton
Mean	51.00	523.80	345.90	124.20	240.40	2014.00	3414.80	442.10	93.40	62.30	51.00	74.00		
Max	102.00	1051.30	930.40	224.50	838.40	3484.90	6056.10	1350.00	111.50	80.40	157.20	147.20	6056.10	
Min	19.20	89.60	116.20	97.30	102.00	888.10	1445.50	111.50	75.90	44.20	13.30	19.20	13.30	

WATER YEAR : 2009

CHI RIVER BASIN

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

Lat 16 - 26 - 28 N Long 104 - 02 - 05 E

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

	Ban Kaeng Yao	Amphoe Kuchinarai	Changwat Kalasin
Drainage Area	1,548 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2007-2009		
Number of observation	59		
R-Square	0.8260		
Remarks	Continued Sediment Station		

$$QS = 6.7632 QW^{1.11630}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	45.40	59.40	313.70	1155.50	671.50	39.90	24.80	5.30	8.30	5.30		
2	0.00	0.00	39.90	56.50	253.50	1411.00	805.30	42.60	24.80	5.30	8.30	2.40		
3	0.00	0.00	37.20	48.10	233.80	1264.30	742.20	42.60	24.80	5.30	8.30	0.00		
4	0.00	1.10	34.50	48.10	211.00	918.70	566.40	42.60	24.80	5.30	8.30	0.00		
5	0.00	2.40	31.80	59.40	211.00	659.40	346.50	42.60	24.80	5.30	8.30	0.00		
6	0.00	3.80	30.00	159.80	217.50	403.90	217.50	42.60	24.80	5.30	8.30	0.00		
7	0.00	3.80	28.30	198.10	178.90	427.10	153.60	42.60	24.80	5.30	8.30	0.00		
8	0.00	5.30	26.50	293.50	128.70	677.60	116.40	34.50	24.80	5.30	8.30	0.00		
9	0.00	5.30	24.80	403.90	191.60	777.20	94.30	37.20	24.80	5.30	8.30	0.00		
10	0.00	5.30	23.10	438.70	263.50	588.00	70.80	31.80	24.80	5.30	8.30	0.00		
11	0.00	5.30	23.10	346.50	253.50	392.30	63.20	31.80	23.10	6.80	8.30	0.00		
12	0.00	6.80	21.30	283.50	217.50	243.70	48.10	31.80	23.10	8.30	8.30	0.00		
13	0.00	8.30	19.70	283.50	659.40	178.90	45.40	31.80	23.10	8.30	8.30	0.00		
14	0.00	8.30	19.70	415.50	2371.50	166.20	86.40	28.30	23.10	8.30	8.30	0.00		
15	0.00	9.80	19.70	480.90	2872.10	141.10	159.80	28.30	23.10	6.80	5.30	0.00		
16	0.00	11.40	48.10	427.10	2405.30	204.50	159.80	28.30	23.10	5.30	5.30	0.00		
17	0.00	13.00	166.20	427.10	1381.00	243.70	116.40	28.30	23.10	5.30	5.30	0.00		
18	0.00	13.00	313.70	480.90	911.60	243.70	98.30	28.30	23.10	5.30	5.30	0.00		
19	0.00	11.40	233.80	380.80	502.10	293.50	78.60	28.30	23.10	6.80	5.30	0.00		
20	0.00	14.70	185.20	243.70	217.50	253.50	70.80	28.30	23.10	6.80	5.30	0.00		
21	0.00	21.30	178.90	147.30	159.80	178.90	86.40	28.30	24.80	8.30	3.80	0.00		
22	0.00	50.90	224.00	104.30	110.40	166.20	110.40	28.30	21.30	8.30	3.80	0.00		
23	0.00	147.30	253.50	94.30	204.50	185.20	98.30	28.30	18.00	8.30	3.80	0.00		
24	0.00	147.30	313.70	74.70	346.50	211.00	78.60	28.30	14.70	6.80	5.30	0.00		
25	3.80	128.70	273.50	59.40	438.70	283.50	70.80	28.30	8.30	8.30	5.30	0.00		
26	6.80	122.60	147.30	48.10	438.70	415.50	67.00	24.80	0.00	8.30	5.30	0.00		
27	5.30	110.40	78.60	42.60	335.20	502.10	56.50	24.80	0.00	8.30	5.30	0.00		
28	3.80	94.30	53.70	94.30	224.00	502.10	48.10	23.10	0.00	8.30	5.30	0.00		
29	1.10	86.40	67.00	185.20	217.50	459.80	42.60	23.10	0.00	8.30		0.00		
30	0.00	78.60	53.70	233.80	263.50	369.40	37.20	21.30	0.00	8.30		0.00		
31		67.00		313.70	392.30		34.50		3.80	8.30		0.00		
Total	20.80	1183.80	3015.90	6932.70	17125.80	13917.50	5441.70	951.10	569.90	210.80	185.90	7.70	49563.60	Ton
Mean	0.70	38.20	100.50	223.60	552.40	463.90	175.50	31.70	18.40	6.80	6.60	0.20		
Max	6.80	147.30	313.70	480.90	2872.10	1411.00	805.30	42.60	24.80	8.30	8.30	5.30	2872.10	
Min	0.00	0.00	19.70	42.60	110.40	141.10	34.50	21.30	0.00	5.30	3.80	0.00	0.00	

WATER YEAR : 2009

CHI RIVER BASIN

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

Lat 16 - 57 - 02 N Long 103 - 10 - 16 E

Location : on left bank at the bridge on highway.

	Ban Tha Hai	Amphoe Si That	Changwat Udon Thani
Drainage Area	2,149 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2008-2009		
Number of observation	76		
R-Square	0.7885		
Remarks	Continued Sediment Station		

$$QS = 9.5095 QW^{0.90700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.90	3.50	186.40	348.40	388.90	600.00	59.80	9.10	6.20	3.10	2.90		
2	0.00	1.90	3.40	174.80	340.80	404.60	608.40	49.80	9.00	6.00	3.10	2.90		
3	0.00	2.00	4.70	167.00	329.30	492.30	614.00	42.80	8.90	5.70	3.00	2.80		
4	0.00	2.10	10.40	161.30	315.80	551.80	600.00	39.10	8.80	5.50	3.00	2.80		
5	0.00	2.10	17.00	162.80	300.30	523.30	571.70	37.20	8.80	5.30	3.00	2.70		
6	0.00	2.50	20.20	162.80	282.90	483.10	534.70	37.20	8.70	5.20	3.00	2.70		
7	0.00	2.80	24.20	167.00	267.20	444.60	496.90	35.30	8.70	5.10	3.00	2.70		
8	0.00	2.80	26.50	184.80	257.40	426.80	466.90	33.40	8.60	4.80	3.10	2.60		
9	0.00	2.90	28.90	189.70	251.50	426.80	446.80	31.50	8.60	4.80	3.10	2.60		
10	0.00	3.00	31.20	198.00	238.60	375.50	424.60	29.60	8.60	4.70	3.40	2.50		
11	0.00	3.30	32.70	199.60	265.30	335.00	346.50	29.60	8.60	4.50	3.50	2.40		
12	0.00	4.00	33.40	188.10	342.70	304.20	207.90	27.70	8.50	4.30	3.60	2.40		
13	0.00	4.80	34.90	189.70	323.50	282.90	207.90	27.70	8.50	4.20	3.60	2.40		
14	0.00	5.10	36.50	265.30	327.30	310.00	215.50	27.70	8.50	4.00	3.60	2.30		
15	1.00	6.00	37.20	359.70	321.60	346.50	207.90	25.80	8.40	4.00	3.60	2.30		
16	33.40	6.40	38.70	371.00	348.40	336.90	189.00	25.80	8.40	3.90	3.50	2.20		
17	29.60	7.30	42.00	694.50	435.70	362.00	177.50	24.20	8.30	3.80	3.40	2.20		
18	13.70	7.30	43.20	932.90	460.00	386.70	185.20	21.00	8.20	3.70	3.30	2.20		
19	6.00	6.90	49.80	721.70	462.30	409.10	173.70	21.00	8.10	3.60	3.20	2.10		
20	4.50	7.80	59.50	540.40	455.60	397.90	150.50	19.40	7.90	3.60	3.20	2.10		
21	4.00	8.20	36.50	433.50	440.10	375.50	140.70	16.20	7.90	3.60	3.10	2.00		
22	3.30	8.20	34.20	391.20	442.30	397.90	150.50	14.60	7.90	3.80	3.10	2.00		
23	3.00	9.10	32.70	397.90	415.70	457.80	140.70	12.90	7.70	4.20	3.10	1.90		
24	2.80	11.20	31.90	406.80	377.70	503.80	127.50	14.60	7.50	4.80	3.00	1.90		
25	2.60	12.90	31.20	429.10	344.60	534.70	117.60	14.60	7.30	5.20	3.00	1.90		
26	2.40	14.60	62.70	440.10	317.70	764.20	107.50	12.90	7.10	5.30	3.00	1.80		
27	2.30	14.60	125.40	440.10	292.60	847.30	100.80	12.90	7.10	5.30	3.00	1.80		
28	2.20	14.60	132.70	422.40	269.20	781.80	94.00	12.90	6.90	4.90	2.90	1.80		
29	2.10	14.60	164.20	397.90	282.90	698.40	83.70	9.50	6.60	4.00		1.80		
30	1.90	11.20	196.30	375.50	288.70	626.40	76.80	9.30	6.30	3.60		1.80		
31		4.20		357.40	317.70		64.80		6.30	3.20		1.80		
Total	114.80	206.30	1425.70	10709.40	10463.80	13976.70	8630.20	776.00	249.80	140.80	89.50	70.30	46853.30	Ton
Mean	3.80	6.70	47.50	345.50	337.50	465.90	278.40	25.90	8.10	4.50	3.20	2.30		
Max	33.40	14.60	196.30	932.90	462.30	847.30	614.00	59.80	9.10	6.20	3.60	2.90	932.90	
Min	0.00	1.90	3.40	161.30	238.60	282.90	64.80	9.30	6.30	3.20	2.90	1.80	0.00	

WATER YEAR : 2009

CHI RIVER BASIN

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

Lat 16 - 12 - 08 N Long 103 - 31 - 41 E

Location : on right bank at the bridge.

	Ban Muang Lat	Amphoe Chang Han	Changwat Roi Et
Drainage Area	31,879 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2004-2009		
Number of observation	128		
R-Square	0.7882		
Remarks	Continued Sediment Station		

$$QS = 9.4502 QW^{0.96650}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	803.70	1087.70	1925.30	496.90	728.40	948.60	3822.20	4924.80	531.20	43.50	60.30	58.60		
2	883.70	1013.20	1845.00	416.40	903.70	1122.40	4053.40	4906.60	557.90	44.80	56.80	64.50		
3	818.70	903.70	1665.80	393.30	898.70	1438.90	4275.30	4870.10	557.90	55.10	60.30	79.90		
4	698.20	878.70	1555.40	381.70	858.70	1648.40	4408.20	4778.80	561.70	64.50	69.70	79.90		
5	688.10	838.70	1450.60	339.20	853.70	1665.80	4399.40	4687.50	535.10	72.20	74.80	72.20		
6	667.90	808.70	1403.90	427.90	758.50	1700.60	4293.00	4632.70	500.70	72.20	74.80	64.50		
7	622.50	958.50	1485.60	565.50	683.10	1874.20	4168.80	4381.60	439.40	72.20	82.40	64.50		
8	576.90	983.40	1636.80	758.50	708.20	2027.30	4026.70	3946.70	381.70	64.50	82.40	64.50		
9	599.70	1038.10	1729.60	611.10	723.30	2092.80	3795.50	3822.20	377.90	69.70	77.30	62.00		
10	565.50	1152.10	1779.30	603.50	708.20	2034.60	3635.40	3600.90	374.00	74.80	79.90	56.80		
11	607.30	1147.20	1729.60	580.70	708.20	1874.20	3514.70	3281.40	354.70	67.10	79.90	55.10		
12	637.60	1175.60	1665.80	607.30	738.40	1786.60	3462.90	3122.50	347.00	77.30	82.40	53.40		
13	618.70	1240.20	1648.40	618.70	693.10	1648.40	3497.40	3002.90	327.60	69.70	84.90	55.10		
14	688.10	1345.50	1607.70	938.60	1117.50	1584.50	3583.70	2838.20	350.80	67.10	79.90	60.30		
15	723.30	1339.70	1555.40	1374.70	1601.90	1793.90	3706.40	2703.20	427.90	84.90	79.90	64.50		
16	793.60	1316.30	1473.90	1671.60	1735.40	2259.80	3848.90	2470.10	393.30	77.30	74.80	74.80		
17	1048.00	1357.20	1433.10	1947.20	1601.90	2740.70	4000.10	2121.90	331.50	100.10	79.90	82.40		
18	813.70	1491.40	1421.40	2121.90	1444.80	3077.70	4106.70	1764.60	397.20	95.10	69.70	72.20		
19	708.20	1485.60	1415.60	2209.00	1275.30	3167.40	4204.30	1409.80	473.90	87.50	64.50	72.20		
20	611.10	1543.80	1491.40	2216.30	1058.00	3145.00	4293.00	1048.00	435.60	87.50	69.70	87.50		
21	607.30	1613.50	1462.30	2150.90	778.60	3010.40	4381.60	973.50	362.40	107.70	74.80	97.60		
22	607.30	1742.70	1322.10	1786.60	599.70	2665.60	4487.90	973.50	308.20	139.50	69.70	92.60		
23	576.90	1779.30	1132.30	1304.60	561.70	2522.80	4596.20	813.70	284.90	187.50	77.30	100.10		
24	546.50	1757.30	1003.30	988.40	550.30	2567.90	4687.50	688.10	292.60	329.20	87.50	67.10		
25	580.70	1648.40	748.50	783.60	569.30	2628.10	4769.70	733.40	288.80	407.30	74.80	56.80		
26	693.10	1584.50	519.80	618.70	595.90	2740.70	4833.60	637.60	253.30	342.10	72.20	58.60		
27	893.70	1642.60	439.40	508.30	538.90	2935.60	4879.20	557.90	19.80	233.40	69.70	55.10		
28	1067.90	1718.00	408.70	435.60	538.90	3167.40	4888.30	554.10	23.80	136.10	62.00	53.40		
29	1033.10	1735.40	538.90	350.80	569.30	3445.60	4915.70	542.70	27.80	100.10		53.40		
30	1087.70	1808.50	580.70	381.70	678.00	3670.80	4952.10	535.10	34.30	77.30		53.40		
31		1925.30		447.10	743.40		4970.40		40.90	77.30		53.40		
Total	21868.70	42060.80	40075.60	29036.30	26523.00	68986.70	131458.20	75324.10	10593.80	3584.60	2072.30	2086.40	453670.50	Ton
Mean	729.00	1356.80	1335.90	936.70	855.60	2299.60	4240.60	2510.80	341.70	115.60	74.00	67.30		
Max	1087.70	1925.30	1925.30	2216.30	1735.40	3670.80	4970.40	4924.80	561.70	407.30	87.50	100.10	4970.40	
Min	546.50	808.70	408.70	339.20	538.90	948.60	3462.90	535.10	19.80	43.50	56.80	53.40	19.80	

WATER YEAR : 2009

CHI RIVER BASIN

Lam Chiang at Ban Chiang , Chaiphum (E.72)

Lat 16 - 01 - 26 N Long 101 - 30 - 12 E

Location : on left bank at Ban Chiang School.

	Ban Chiang	Amphoe Phak Di Chumphon	Changwat Chaiphum
Drainage Area	323 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.8331		
Remarks	Continued Sediment Station		

$$QS = 2.7265 QW^{1.59380}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.50	5.10	6.40	5.10	5.00	790.20	382.80	25.00	5.00	3.90	3.20	2.30		
2	19.40	4.70	5.80	5.10	6.40	969.90	673.00	22.10	5.00	3.90	3.20	2.10		
3	5.30	3.50	7.60	4.80	5.80	504.00	1036.60	13.30	5.00	3.90	3.20	2.10		
4	4.30	2.90	11.40	4.80	5.30	114.80	590.40	12.50	5.00	3.90	3.00	2.10		
5	3.50	2.80	7.30	6.50	5.10	48.40	180.20	11.40	5.00	3.90	3.00	2.10		
6	3.00	2.60	5.50	16.20	4.70	41.50	100.30	10.30	4.80	3.90	3.20	2.10		
7	2.80	2.40	4.50	19.40	3.90	39.40	56.80	9.60	4.70	3.90	3.20	2.10		
8	2.80	2.30	3.90	10.60	4.00	45.90	45.20	9.20	4.70	3.90	3.20	2.10		
9	2.80	2.40	3.60	6.50	4.00	67.90	41.50	9.20	4.50	3.90	3.00	2.10		
10	2.80	5.10	6.70	6.00	4.00	35.90	37.30	9.20	4.50	4.00	3.00	2.00		
11	2.60	5.50	6.50	5.10	3.90	135.90	30.00	8.90	4.50	3.90	3.00	2.00		
12	2.60	15.30	6.00	4.30	3.70	121.10	25.60	8.90	4.50	3.90	3.00	2.00		
13	2.60	12.10	5.70	4.00	3.60	44.40	23.30	8.60	4.30	3.90	2.90	2.00		
14	2.60	25.60	5.30	3.70	3.50	30.00	19.90	8.20	4.30	3.90	2.90	2.00		
15	3.30	14.10	5.10	3.60	3.50	38.00	31.90	8.20	4.30	3.70	2.90	2.00		
16	3.20	6.40	5.00	3.50	3.60	66.80	89.80	8.00	4.30	3.70	2.80	2.00		
17	2.80	8.20	4.50	3.60	3.50	3879.70	72.60	7.80	4.30	3.60	2.80	2.00		
18	2.60	10.30	4.20	6.70	3.30	825.70	96.30	7.80	4.30	3.60	2.60	2.00		
19	2.50	29.30	3.90	5.50	3.30	221.80	91.10	7.50	4.20	3.50	2.60	2.00		
20	2.30	33.20	3.60	4.70	3.30	93.70	46.70	6.70	4.20	3.50	2.60	2.00		
21	2.00	53.60	5.80	4.20	3.20	36.60	27.50	6.50	4.20	3.30	2.50	1.90		
22	1.90	21.60	122.80	3.60	3.50	24.40	30.00	6.50	4.20	3.30	2.40	1.90		
23	1.90	13.30	25.00	3.50	4.30	22.70	55.70	6.40	4.20	3.30	2.40	1.90		
24	1.80	49.40	14.10	3.30	12.90	35.90	35.90	6.20	4.20	3.30	2.40	1.90		
25	2.00	15.70	9.60	3.20	12.50	43.70	31.90	6.00	4.20	3.30	2.40	1.90		
26	2.60	8.90	8.00	3.20	19.40	121.10	31.30	6.00	4.20	3.30	2.40	1.90		
27	2.80	7.80	5.70	3.00	28.70	552.20	31.30	5.80	4.20	3.30	2.40	1.90		
28	2.80	7.30	5.00	3.00	43.00	851.40	29.30	5.80	4.20	3.30	2.40	1.90		
29	12.10	7.10	5.30	3.20	28.70	256.30	24.40	5.50	4.20	3.30		1.90		
30	6.90	8.90	5.50	3.30	330.00	134.30	21.00	5.50	4.20	3.30		1.90		
31		8.20		3.20	1084.30		19.90		4.20	3.30		1.90		
Total	115.10	395.60	319.30	166.40	1653.90	10193.60	4009.50	272.60	137.60	112.60	78.60	62.00	17516.80	Ton
Mean	3.80	12.80	10.60	5.40	53.40	339.80	129.30	9.10	4.40	3.60	2.80	2.00		
Max	19.40	53.60	122.80	19.40	1084.30	3879.70	1036.60	25.00	5.00	4.00	3.20	2.30	3879.70	
Min	1.80	2.30	3.60	3.00	3.20	22.70	19.90	5.50	4.20	3.30	2.40	1.90	1.80	

WATER YEAR : 2009

CHI RIVER BASIN

Lam Saphung at Ban Na Charoen , Chaiphum (E.83)

Lat 16 - 09 - 21 N Long 101 - 39 - 13 E

Location : on left bank at Ban Na Charoen.

	Ban Na Charoen	Amphoe Nong Bua Daeng	Changwat Chaiphum
Drainage Area	744 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.9146		
Remarks	Continued Sediment Station		

$$QS = 2.5107 QW^{1.16990}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.00	7.10	126.30	27.50	20.40	154.80	350.60	44.40	11.00	4.50	3.10	0.90		
2	2.80	6.40	81.60	24.30	32.30	253.80	566.70	41.00	10.10	4.40	3.00	0.80		
3	2.70	5.30	82.50	22.10	36.40	223.00	568.30	38.60	9.30	4.30	2.90	0.80		
4	2.50	4.30	59.80	21.10	32.80	207.10	513.90	36.10	9.00	4.20	2.80	0.80		
5	2.30	3.80	51.40	27.80	30.00	251.20	392.10	34.60	8.80	4.10	2.70	0.70		
6	2.10	3.40	48.50	38.90	28.50	264.20	266.40	32.80	8.50	4.00	2.70	0.60		
7	2.00	3.20	47.30	59.10	27.00	285.20	183.00	31.80	8.30	3.90	2.60	0.60		
8	1.90	3.00	44.40	54.90	26.00	235.80	156.00	30.50	8.20	4.00	2.50	0.60		
9	1.90	2.80	40.10	40.70	25.50	202.90	140.80	30.30	8.00	4.10	2.30	0.50		
10	1.90	2.70	37.30	35.50	27.00	232.40	125.70	41.00	7.80	4.30	2.20	0.50		
11	1.90	2.90	35.20	39.80	24.10	202.00	114.00	34.00	7.60	4.50	2.10	0.50		
12	3.80	3.10	33.70	46.00	21.90	133.20	110.30	29.80	7.40	4.20	2.00	0.50		
13	3.90	3.20	32.30	39.50	21.90	126.90	100.70	27.00	7.20	4.10	2.00	0.50		
14	3.70	4.60	31.50	36.70	35.50	189.60	102.10	25.80	6.90	3.80	1.90	0.50		
15	3.10	12.60	28.00	34.60	37.30	231.50	118.90	25.30	6.80	3.70	1.80	0.50		
16	3.20	34.00	26.00	31.00	41.60	287.40	149.00	38.00	6.60	3.60	1.80	0.40		
17	3.20	32.60	59.40	30.30	70.70	677.60	130.10	32.10	6.50	3.50	1.80	0.40		
18	3.00	28.00	61.10	29.50	66.50	545.80	112.10	25.80	6.30	3.40	1.80	0.40		
19	2.80	21.40	46.00	26.50	50.70	355.10	144.60	22.60	6.20	3.40	1.70	0.40		
20	2.50	15.70	40.10	23.60	48.20	223.90	105.70	21.40	6.10	3.40	1.60	0.30		
21	2.30	27.30	38.60	22.30	48.20	180.60	87.30	20.20	6.00	3.40	1.50	0.30		
22	2.10	83.80	39.20	23.10	73.80	234.90	85.10	18.50	5.70	3.40	1.50	0.30		
23	2.00	90.00	45.40	24.30	79.40	268.60	82.00	17.60	5.40	3.40	1.40	0.30		
24	1.70	70.70	50.70	21.60	109.70	280.80	78.10	16.70	5.20	3.50	1.30	0.30		
25	1.60	54.30	49.20	20.40	112.70	183.00	74.60	16.00	5.10	3.80	1.20	0.30		
26	2.10	91.80	42.30	19.50	125.10	178.90	71.20	15.30	5.00	3.70	1.10	0.30		
27	2.40	100.70	37.60	18.50	113.30	258.80	69.90	14.10	4.90	3.50	1.00	0.20		
28	3.10	92.20	34.30	19.70	109.70	149.60	61.70	13.20	4.80	3.40	1.00	0.20		
29	4.00	86.40	31.50	18.50	114.60	202.90	56.20	12.30	4.70	3.30		0.20		
30	3.20	136.30	30.00	18.10	93.50	187.10	52.00	11.90	4.60	3.20		0.20		
31		174.80		17.80	94.90		50.10		4.60	3.10		0.20		
Total	78.70	1208.40	1411.30	913.20	1779.20	7408.60	5219.20	798.70	212.60	117.10	55.30	14.00	19216.30	Ton
Mean	2.60	39.00	47.00	29.50	57.40	247.00	168.40	26.60	6.90	3.80	2.00	0.50		
Max	4.00	174.80	126.30	59.10	125.10	677.60	568.30	44.40	11.00	4.50	3.10	0.90	677.60	
Min	1.60	2.70	26.00	17.80	20.40	126.90	50.10	11.90	4.60	3.10	1.00	0.20	0.20	

WATER YEAR : 2009

CHI RIVER BASIN

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

Lat 16 - 09 - 08 N Long 101 - 35 - 07 E

Location : on left bank at Ban Nang Dad Khok.

	Ban Nang Dad Khok	Amphoe Nong Bua Daeng	Changwat Chaiyaphum
Drainage Area	508 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2004-2009		
Number of observation	110		
R-Square	0.7589		
Remarks	Continued Sediment Station		

$$QS = 3.0730 QW^{1.47990}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.20	4.80	0.00	7.30	7.10	1267.00	420.40	45.70	7.60	5.10	4.00	2.70		
2	5.10	4.40	3.40	7.10	13.50	848.00	460.50	38.50	7.30	4.80	4.00	2.50		
3	4.00	2.90	6.90	6.40	8.30	385.10	679.50	36.90	7.30	4.60	3.80	2.50		
4	2.90	2.70	2.50	6.60	5.70	251.20	995.40	36.10	7.10	4.40	3.80	2.50		
5	2.50	2.40	3.40	23.20	6.60	269.60	737.90	34.50	7.10	4.20	3.60	2.40		
6	2.40	2.20	3.60	34.50	5.90	310.90	367.80	32.90	6.90	4.00	3.60	2.40		
7	2.40	2.20	4.20	31.30	5.90	301.20	191.50	31.30	6.60	4.00	3.40	2.40		
8	2.40	2.20	3.30	26.80	8.30	239.10	131.80	30.50	6.40	4.20	3.40	2.40		
9	2.70	2.20	3.10	15.90	7.30	198.90	117.00	29.00	6.40	5.70	3.30	2.40		
10	3.10	2.20	2.70	12.40	6.60	497.90	102.60	27.50	6.40	5.90	3.30	2.40		
11	6.40	4.20	2.40	8.10	6.20	186.70	70.40	25.30	6.20	5.90	3.30	2.50		
12	17.20	6.60	2.40	6.60	5.90	129.70	17.80	23.90	6.20	5.30	3.30	2.50		
13	12.90	8.60	2.40	5.70	5.30	82.00	6.20	23.20	6.20	4.60	3.30	2.50		
14	7.60	19.80	2.40	5.10	5.30	236.20	5.70	21.80	6.20	4.40	3.10	2.50		
15	5.50	45.70	2.70	5.10	15.30	347.30	10.70	21.10	6.20	4.20	3.10	2.50		
16	3.10	75.50	2.70	4.80	213.80	260.30	416.80	21.10	6.20	4.00	3.10	2.50		
17	2.90	91.40	2.90	4.80	129.70	3467.20	445.80	21.10	6.20	4.00	3.10	2.50		
18	2.70	58.20	4.80	4.80	98.30	1315.40	364.30	20.50	6.20	4.00	3.10	2.50		
19	2.50	12.90	4.00	4.60	72.90	532.30	310.90	19.10	6.20	4.00	3.10	2.50		
20	2.40	9.10	4.20	4.60	47.90	438.50	279.00	15.90	5.90	3.80	3.10	2.50		
21	2.20	37.70	3.60	4.60	17.80	147.20	248.10	14.70	5.90	3.80	3.10	2.40		
22	2.00	208.80	3.40	4.60	10.10	44.60	206.30	12.90	5.90	4.00	2.90	2.40		
23	1.90	117.00	3.40	4.40	14.10	41.00	170.10	11.20	5.90	5.30	2.90	2.40		
24	1.90	39.30	3.10	4.20	140.60	119.10	138.40	10.10	5.70	6.20	2.90	2.40		
25	1.90	201.30	2.90	4.20	74.20	105.40	119.10	9.60	5.70	4.80	2.90	2.40		
26	2.00	227.30	2.70	4.00	33.70	105.40	115.00	9.10	5.70	4.40	2.90	2.20		
27	2.20	129.70	3.40	4.00	36.10	263.40	106.80	8.60	5.50	4.40	2.70	2.20		
28	2.70	54.70	3.30	4.00	59.40	551.80	86.00	8.30	5.50	4.20	2.70	2.20		
29	3.30	67.90	9.10	4.00	39.30	622.70	75.50	8.30	5.50	4.00		2.20		
30	3.10	98.30	7.80	3.80	41.90	230.20	70.40	8.10	5.50	4.00		2.20		
31		82.00		3.80	587.40		65.50		5.50	3.80		2.20		
Total	118.10	1624.20	106.70	271.30	1730.40	13795.30	7533.20	656.80	193.10	140.00	90.80	74.80	26334.70	Ton
Mean	3.90	52.40	3.60	8.80	55.80	459.80	243.00	21.90	6.20	4.50	3.20	2.40		
Max	17.20	227.30	9.10	34.50	587.40	3467.20	995.40	45.70	7.60	6.20	4.00	2.70	3467.20	
Min	1.90	2.20	0.00	3.80	5.30	41.00	5.70	8.10	5.50	3.80	2.70	2.20	0.00	

WATER YEAR : 2009

CHI RIVER BASIN

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

Lat 16 - 46 - 28 N Long 103 - 38 - 41 E

Location : on right bank at Ban Nong Yang Tai.

	Ban Nong Yang Tai	Amphoe Kham Muang	Changwat Kalasin
Drainage Area	321 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2008-2009		
Number of observation	34		
R-Square	0.7719		
Remarks	Continued Sediment Station		

$$QS = 7.9802 QW^{1.26000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.10	1.80	20.40	19.20	24.30	119.00	32.40	5.10	1.40	0.30	0.20	0.10	
2	6.20	1.60	11.30	14.00	105.20	130.70	39.00	4.70	1.30	0.30	0.20	0.10	
3	5.10	1.40	8.40	9.60	58.20	70.40	32.40	4.20	1.10	0.30	0.10	0.10	
4	4.00	1.20	6.80	7.10	36.10	41.80	26.10	4.20	1.10	0.30	0.10	0.10	
5	3.00	1.20	4.50	5.60	36.10	38.10	22.00	4.00	1.00	0.30	0.10	0.10	
6	3.50	1.20	3.80	39.70	34.60	44.80	22.00	3.70	0.90	0.30	0.10	0.10	
7	3.00	1.20	3.50	80.30	23.70	58.20	23.00	3.50	0.90	0.20	0.10	0.10	
8	2.50	1.20	3.00	93.30	19.20	294.40	24.00	3.50	0.80	0.20	0.10	0.10	
9	2.80	1.20	3.00	102.30	33.20	200.20	24.00	3.30	0.80	0.20	0.10	0.10	
10	2.50	1.20	2.80	56.80	29.70	93.30	22.00	3.30	0.70	0.20	0.10	0.00	
11	2.50	1.20	3.00	21.10	25.10	58.20	23.00	3.20	0.60	0.20	0.10	0.00	
12	2.80	1.20	2.80	28.40	20.40	80.30	23.00	3.00	0.60	0.20	0.10	0.00	
13	6.80	2.30	2.80	36.10	547.20	55.50	22.00	3.00	0.40	0.20	0.10	0.00	
14	6.80	2.30	2.50	71.80	1891.40	62.20	21.10	3.00	0.40	0.10	0.10	0.10	
15	6.50	1.80	3.20	50.10	648.40	81.80	20.10	3.00	0.40	0.10	0.10	0.10	
16	4.00	1.80	5.40	47.10	178.90	83.10	20.10	2.80	0.40	0.10	0.10	0.10	
17	3.00	1.40	14.90	44.80	105.20	220.30	19.10	2.80	0.40	0.10	0.10	0.10	
18	2.80	1.40	13.10	81.80	56.80	173.20	18.20	2.80	0.40	0.10	0.10	0.10	
19	2.80	1.40	11.30	34.60	40.40	103.80	17.20	2.70	0.40	0.10	0.10	0.00	
20	2.50	52.90	50.10	30.40	23.00	67.70	17.20	2.50	0.40	0.10	0.10	0.00	
21	2.30	215.90	245.30	24.30	13.10	50.10	17.20	2.50	0.40	0.10	0.10	0.00	
22	2.00	70.40	127.20	6.50	12.20	48.50	16.30	2.50	0.40	0.10	0.10	0.10	
23	1.80	154.40	91.80	5.60	32.50	63.60	15.30	2.40	0.40	0.10	0.10	0.10	
24	1.80	268.30	70.40	4.80	27.60	122.00	14.40	2.30	0.40	0.10	0.10	0.10	
25	1.60	145.20	39.70	3.80	34.60	94.80	12.60	2.20	0.40	0.10	0.10	0.10	
26	1.60	74.70	28.40	3.20	22.40	120.40	10.00	2.00	0.40	0.10	0.10	0.10	
27	1.40	58.20	19.80	3.00	15.30	253.10	10.00	2.00	0.30	0.10	0.10	0.10	
28	1.20	34.60	16.30	1.80	11.80	105.20	8.40	1.80	0.30	0.20	0.10	0.10	
29	1.20	31.90	10.50	1.60	9.20	43.50	6.80	1.70	0.30	0.20		0.10	
30	2.00	27.00	19.20	1.80	9.60	39.00	5.80	1.40	0.30	0.20		0.00	
31		24.30		5.10	137.90		5.60		0.30	0.20		0.00	

Total	97.10	1185.80	845.20	935.60	4263.30	3017.20	590.30	89.10	18.30	5.40	3.00	2.20	11052.50	Ton
Mean	3.20	38.30	28.20	30.20	137.50	100.60	19.00	3.00	0.60	0.20	0.10	0.10		
Max	7.10	268.30	245.30	102.30	1891.40	294.40	39.00	5.10	1.40	0.30	0.20	0.10	1891.40	
Min	1.20	1.20	2.50	1.60	9.20	38.10	5.60	1.40	0.30	0.10	0.10	0.00	0.00	

WATER YEAR : 2009

CHI RIVER BASIN

Chi River at Ban Kui Chuak , Maha Sarakham (E.91)

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

Location : on left bank at Ban Kui Chuak.

	Ban Kui Chuak	Amphoe Kosum Phisai	Changwat Maha Sarakham
Drainage Area	29,265 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.8745		
Remarks	Continued Sediment Station		

$$QS = 1.5750 QW^{1.30680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	543.40	668.50	1853.30	227.90	317.50	785.10	3271.10	5876.30	264.90	72.80	89.40	100.20		
2	452.00	627.30	1676.80	224.60	296.20	1044.40	3716.90	5680.40	264.90	85.20	98.00	93.70		
3	448.10	622.10	1582.30	218.70	335.50	1044.40	3843.60	5449.40	299.70	85.20	72.80	120.30		
4	417.30	678.90	1413.00	203.10	303.30	1062.30	3705.40	5249.00	292.70	91.60	83.10	102.40		
5	483.30	684.20	1413.00	247.90	317.50	1174.30	3490.40	4915.70	224.60	89.40	85.20	98.00		
6	394.60	806.70	1590.10	339.10	317.50	1256.60	3440.30	4563.60	247.90	85.20	81.00	113.50		
7	394.60	917.10	1877.70	303.30	317.50	1263.50	3290.90	4123.40	231.20	83.10	98.00	100.20		
8	387.10	956.40	2084.40	310.40	292.70	1376.10	3074.60	3762.90	138.80	85.20	136.50	87.30		
9	387.10	956.40	1992.50	321.10	324.70	1435.30	3084.30	3671.10	182.70	87.30	127.20	109.00		
10	387.10	911.50	1894.00	310.40	310.40	1390.80	3162.60	3460.30	187.70	83.10	124.90	106.80		
11	383.30	894.70	1837.10	317.50	299.70	1390.80	3380.30	3261.20	172.70	87.30	131.80	106.80		
12	452.00	845.00	1756.50	368.50	368.50	1312.20	3625.40	3103.90	172.70	89.40	127.20	87.30		
13	432.70	967.80	1724.50	694.60	632.40	1291.30	3982.90	3016.20	208.20	113.50	100.20	68.80		
14	436.50	1008.70	1605.80	922.70	742.20	1700.60	4300.60	2861.80	289.20	89.40	120.30	106.80		
15	535.30	973.40	1413.00	950.80	658.10	1976.00	4563.60	2643.30	180.20	85.20	100.20	104.60		
16	668.50	1153.90	1368.70	1062.30	588.40	2337.10	4854.60	2273.30	158.00	91.60	95.90	136.50		
17	611.90	1174.30	1354.30	1116.80	580.20	2484.40	5087.90	1772.60	241.20	115.80	89.40	111.30		
18	519.20	1249.70	1361.30	1098.40	539.30	2503.00	5273.90	1312.20	275.30	98.00	93.70	100.20		
19	511.10	1291.30	1319.20	1174.30	459.80	2568.20	5449.40	1116.80	208.20	120.30	87.30	111.30		
20	495.20	1376.10	1263.50	1229.00	398.40	2419.70	5589.90	905.90	155.60	115.80	74.90	113.50		
21	448.10	1450.60	1181.10	883.60	339.10	2111.10	5732.30	752.90	100.20	124.90	81.00	127.20		
22	444.20	1420.40	1026.50	535.30	241.20	1984.30	5876.30	694.60	55.20	180.20	83.10	127.20		
23	432.70	1368.70	823.10	409.70	264.90	2009.10	6048.50	694.60	70.80	372.20	89.40	113.50		
24	444.20	1354.30	551.50	324.70	306.80	2017.30	6168.40	584.30	87.30	394.60	87.30	109.00		
25	463.70	1340.20	394.60	264.90	275.30	2102.20	6248.60	511.10	109.00	409.70	106.80	111.30		
26	663.30	1566.60	306.80	210.80	251.30	2282.40	6288.80	448.10	95.90	383.30	98.00	113.50		
27	715.70	1645.10	310.40	172.70	261.50	2624.50	6302.20	383.30	87.30	289.20	83.10	124.90		
28	828.50	1748.50	339.10	167.80	364.80	3006.50	6275.40	353.70	62.90	216.00	118.00	131.80		
29	889.20	1861.40	299.70	153.10	306.80	3123.40	6221.80	303.30	68.80	172.70		124.90		
30	758.20	1853.30	271.80	187.70	237.90	2929.10	6141.70	317.50	66.80	115.80		87.30		
31		1910.40		335.50	535.30		6008.70		64.80	85.20		93.70		
Total	15428.10	36283.50	37885.60	15287.20	11784.70	56006.01	47501.30	74062.70	5265.40	4598.20	2763.73	342.80	410209.20	Ton
Mean	514.30	1170.40	1262.90	493.10	380.20	1866.90	4758.10	2468.80	169.90	148.30	98.70	107.80		
Max	889.20	1910.40	2084.40	1229.00	742.20	3123.40	6302.20	5876.30	299.70	409.70	136.50	136.50	6302.20	
Min	383.30	622.10	271.80	153.10	237.90	785.10	3074.60	303.30	55.20	72.80	72.80	68.80	55.20	

WATER YEAR : 2009

MUN RIVER BASIN

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

Lat 15 - 20 - 16 N Long 104 - 09 - 21 E

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

	Ban Mueang Kong	Amphoe Rasi Salai	Changwat Si Sa Ket
Drainage Area	45,295 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	1997-2009		
Number of observation	332		
R-Square	0.8837		
Remarks	Continued Sediment Station		

$$QS = 6.5070 QW^{0.93680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.70	53.60	558.90	459.50	761.20	761.20	4527.40	4987.60	295.80	16.50	7.70	9.50		
2	7.10	48.30	595.00	446.20	1125.60	599.50	4656.20	4896.80	288.20	15.40	7.70	9.50		
3	7.10	48.30	707.10	437.50	1167.30	554.40	4770.00	4799.20	284.40	14.20	7.70	9.50		
4	7.10	45.60	851.00	416.80	1134.60	554.40	4896.80	4702.00	280.70	14.20	9.50	9.50		
5	7.70	45.60	904.40	393.20	1442.30	577.00	5018.00	4573.60	280.70	14.20	9.50	9.50		
6	10.10	65.20	891.30	378.00	1432.60	612.90	5129.20	4444.60	273.10	14.20	9.50	8.90		
7	11.90	97.60	882.10	374.30	1413.10	693.30	5242.60	4302.80	269.80	14.20	9.50	8.90		
8	16.50	94.50	859.80	366.80	1403.30	1176.80	5362.10	4128.30	256.50	14.20	9.50	8.90		
9	18.20	88.40	828.60	352.00	1360.00	2351.50	5459.70	3998.00	172.20	14.20	9.50	8.90		
10	16.50	94.50	626.40	303.30	1341.30	2938.10	5580.30	3836.50	94.50	14.20	8.90	8.90		
11	15.40	85.30	581.50	259.80	1403.30	3124.20	5681.10	3669.00	82.30	14.20	8.90	8.90		
12	15.40	133.70	586.00	229.70	1364.70	3110.50	5793.00	3501.70	79.20	14.20	8.90	8.90		
13	14.20	374.30	558.90	130.70	1308.50	3159.50	5848.90	3314.70	88.40	12.50	8.90	8.90		
14	14.20	486.40	540.90	124.80	953.70	3222.60	5927.10	3089.20	130.70	12.50	8.90	8.90		
15	14.20	568.00	558.90	121.80	657.70	3293.10	5960.60	2951.80	124.80	11.90	8.30	8.30		
16	14.20	626.40	558.90	124.80	648.80	3415.50	6005.20	2687.60	118.80	11.30	8.30	8.30		
17	14.20	621.90	563.50	192.60	639.80	3676.90	6016.30	1657.20	112.70	11.30	9.50	8.90		
18	15.40	590.50	558.90	446.20	635.30	3972.70	6005.20	1642.10	76.60	10.70	9.50	9.50		
19	16.50	572.50	536.30	558.90	635.30	4093.60	5982.90	1911.00	32.10	10.10	10.70	9.50		
20	18.20	545.40	536.30	639.80	644.30	4180.30	5938.20	1975.80	26.60	10.10	10.70	32.10		
21	18.20	513.70	531.80	1081.60	626.40	4258.30	5893.60	1822.80	25.50	9.50	10.70	48.30		
22	18.20	486.40	527.30	1081.60	612.90	4293.70	5837.70	1520.10	23.80	9.50	10.70	45.60		
23	18.20	459.50	518.20	1081.60	604.00	4293.70	5770.70	1447.40	23.80	9.50	10.10	45.60		
24	53.60	446.20	518.20	1073.00	604.00	4276.00	5681.10	1138.90	22.70	8.90	10.10	45.60		
25	82.30	442.00	509.10	1050.90	716.00	4267.40	5602.70	1099.30	22.70	8.90	10.10	45.60		
26	76.60	481.80	490.90	1002.40	693.30	4258.30	5503.00	1073.00	21.00	8.90	10.10	43.00		
27	65.20	527.30	477.30	940.20	1125.60	4284.70	5405.50	716.00	21.00	8.30	9.50	43.00		
28	59.40	590.50	463.60	617.40	1108.40	4302.80	5318.60	648.80	19.90	8.30	9.50	43.00		
29	56.30	595.00	455.30	590.50	1068.70	4320.50	5242.60	329.60	18.20	8.30		43.00		
30	51.00	577.00	472.70	572.50	1028.90	4408.90	5149.40	314.60	16.50	7.70		43.00		
31		563.50		581.50	948.90		5058.40		18.20	7.70		43.00		
Total	760.80	10968.90	18249.10	16429.90	30609.80	89032.30	170264.10	81180.00	3601.40	359.80	262.40	692.90	422411.50	Ton
Mean	25.40	353.80	608.30	530.00	987.40	2967.70	5492.40	2706.00	116.20	11.60	9.40	22.40		
Max	82.30	626.40	904.40	1081.60	1442.30	4408.90	6016.30	4987.60	295.80	16.50	10.70	48.30	6016.30	
Min	7.10	45.60	455.30	121.80	604.00	554.40	4527.40	314.60	16.50	7.70	7.70	8.30	7.10	

WATER YEAR : 2009

MUN RIVER BASIN

Huai Samran at Mueang, Si Sa ket (M.9)

Lat 15 - 06 - 58 N Long 104 - 19 - 21 E

Location : on right bank at the bridge on Highway.

	Ban -	Amphoe Mueang	Changwat Si Sa Ket
Drainage Area	2,988 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	335		
R-Square	0.9386		
Remarks	Continued Sediment Station		

$$QS = 4.8352 QW^{0.99840}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.40	3.40	8.70	3.90	266.20	107.30	737.70	234.50	12.60	6.30	3.90	3.40		
2	3.40	3.40	7.20	5.30	296.40	110.70	806.20	219.60	12.10	6.30	3.90	3.40		
3	3.40	3.40	7.20	5.30	292.50	134.20	862.20	205.70	10.60	6.30	3.90	3.40		
4	3.40	3.40	8.70	5.30	269.50	164.40	937.30	196.60	9.70	6.30	3.90	3.90		
5	3.40	3.40	9.70	5.30	260.40	205.70	1006.30	182.20	9.70	6.30	3.90	6.30		
6	3.40	3.40	10.10	5.30	249.40	238.30	1066.10	169.20	9.70	5.80	3.90	4.40		
7	3.40	3.40	9.20	4.80	246.00	282.50	1187.60	157.20	9.20	5.30	4.80	4.40		
8	3.40	2.90	9.20	3.90	246.00	383.20	1380.50	147.60	9.20	4.80	5.30	4.40		
9	3.40	2.90	8.70	3.90	257.00	552.80	1518.20	138.50	9.70	5.30	5.30	3.90		
10	3.40	3.40	6.80	6.30	247.90	724.80	1627.80	129.90	10.10	5.80	3.90	3.90		
11	3.40	3.40	5.80	4.40	235.00	912.90	1702.40	118.30	9.70	5.30	3.90	3.90		
12	3.40	3.40	5.30	4.80	221.50	1047.90	1677.50	115.00	9.20	4.80	3.90	3.90		
13	3.40	7.70	6.30	10.60	206.70	1216.80	1604.30	105.40	7.20	4.80	3.90	4.40		
14	3.40	5.30	5.80	12.10	215.80	1430.70	1524.00	96.70	7.20	4.80	3.90	4.40		
15	5.80	4.40	5.80	15.00	236.90	1621.50	1426.40	83.70	7.20	4.40	3.40	4.40		
16	5.30	3.90	4.40	39.00	232.60	1786.50	1300.10	76.10	6.80	4.40	3.40	4.40		
17	4.40	3.90	6.30	115.90	218.20	1901.30	1151.80	43.40	6.80	4.40	3.40	4.40		
18	3.90	3.90	4.80	175.50	212.90	1948.10	1041.20	34.20	6.80	3.90	3.40	4.80		
19	3.90	3.90	5.30	252.20	208.60	1922.80	899.00	33.30	6.80	3.90	3.40	4.40		
20	3.40	5.30	5.30	283.40	198.00	1836.70	741.50	38.60	6.80	3.90	3.40	4.80		
21	3.40	5.30	5.30	288.20	203.80	1729.10	602.10	38.10	7.20	4.40	3.40	9.70		
22	3.40	5.80	4.40	292.50	203.80	1483.80	526.90	30.40	8.20	4.40	3.90	5.30		
23	3.40	4.80	4.40	342.90	200.90	1277.10	486.70	26.00	7.70	4.40	3.90	3.90		
24	3.40	4.40	5.30	364.90	199.00	1071.40	449.30	22.70	7.20	4.80	3.40	3.40		
25	3.40	4.40	4.40	350.60	202.80	908.60	402.30	19.80	6.80	4.80	3.90	3.40		
26	3.40	5.30	4.80	301.20	200.90	814.80	361.10	17.90	6.80	4.40	4.40	3.40		
27	3.40	4.80	5.30	249.40	163.50	767.40	330.90	14.50	6.80	4.40	4.40	5.80		
28	3.40	3.90	6.30	224.90	133.20	721.40	307.90	12.60	6.80	3.90	3.90	5.30		
29	3.40	4.40	5.80	210.50	123.60	664.40	292.50	11.60	6.80	3.90		3.40		
30	3.40	4.40	4.40	187.50	114.50	664.40	268.10	12.60	6.30	3.90		2.90		
31		7.70		198.00	111.10		245.50		6.30	3.90		2.90		
Total	108.30	133.30	191.00	3972.80	6674.60	28631.50	28471.40	2731.90	254.00	150.30	109.90	134.60	71563.60	Ton
Mean	3.60	4.30	6.40	128.20	215.30	954.40	918.40	91.10	8.20	4.80	3.90	4.30		
Max	5.80	7.70	10.10	364.90	296.40	1948.10	1702.40	234.50	12.60	6.30	5.30	9.70	1948.10	
Min	3.40	2.90	4.40	3.90	111.10	107.30	245.50	11.60	6.30	3.90	3.40	2.90	2.90	

WATER YEAR : 2009

MUN RIVER BASIN

Lam Chi at Ban Kho Kho, Surin (M.26)

Lat 14 - 54 - 08 N Long 103 - 24 - 12 E

Location : on left bank at railway bridge.

	Ban Kho Kho	Amphoe Mueang	Changwat Surin
Drainage Area	3,058 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	2003-2009		
Number of observation	238		
R-Square	0.8426		
Remarks	Continued Sediment Station		

$$QS = 7.5552 QW^{0.84350}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	12.10	15.50	25.30	111.70	132.20	402.30	270.20	18.00	0.00	0.00	0.00		
2	5.50	13.30	12.40	29.40	106.10	148.00	509.40	222.90	15.30	0.00	0.00	0.00		
3	7.00	14.40	9.70	38.20	93.60	149.20	613.80	181.00	12.70	0.00	0.00	0.00		
4	9.10	15.30	7.90	68.90	78.30	148.60	735.40	153.60	11.20	0.00	0.00	0.00		
5	10.60	15.50	8.80	80.80	72.70	156.00	938.70	134.80	9.70	0.00	0.00	0.00		
6	11.50	14.70	19.10	94.20	75.20	167.10	1138.20	117.40	8.50	0.00	0.00	0.00		
7	12.40	15.50	26.90	108.60	76.50	211.90	1220.60	102.90	7.90	0.00	0.00	0.00		
8	13.00	15.80	25.90	106.70	74.00	275.00	1198.70	92.40	7.90	0.00	0.00	0.00		
9	12.40	15.50	19.60	90.50	73.30	333.00	1123.10	83.30	0.00	0.00	0.00	0.00		
10	9.40	12.40	15.30	77.10	78.30	384.80	1031.70	78.30	0.00	0.00	0.00	0.00		
11	5.70	8.80	14.10	67.70	89.90	442.30	938.70	65.70	0.00	0.00	0.00	0.00		
12	2.60	5.20	9.10	55.10	106.70	501.70	845.70	74.60	0.00	0.00	0.00	0.00		
13	2.30	6.30	6.00	47.00	97.90	549.70	764.70	69.60	0.00	0.00	0.00	0.00		
14	1.90	18.00	6.80	50.80	89.90	562.10	700.90	60.80	0.00	0.00	0.00	0.00		
15	4.30	29.40	15.80	54.60	111.00	539.30	646.60	52.40	0.00	0.00	0.00	0.00		
16	7.60	31.30	27.90	66.40	125.20	495.60	592.00	58.80	0.00	0.00	0.00	0.00		
17	9.40	25.30	30.40	66.40	148.60	435.80	523.10	54.00	0.00	0.00	0.00	0.00		
18	11.80	20.70	24.80	54.60	171.30	395.90	449.70	49.20	0.00	0.00	0.00	0.00		
19	13.00	16.40	20.20	50.80	186.40	380.00	386.40	45.40	0.00	0.00	0.00	0.00		
20	13.00	12.10	16.10	65.70	187.00	388.80	333.00	42.10	0.00	0.00	0.00	0.00		
21	13.00	8.80	13.80	55.60	164.60	405.40	292.00	40.40	0.00	0.00	0.00	0.00		
22	12.70	6.50	11.20	51.90	124.50	424.60	295.30	53.50	0.00	0.00	0.00	0.00		
23	11.80	4.30	13.80	45.90	86.30	441.40	318.50	37.00	0.00	0.00	0.00	0.00		
24	11.50	3.90	37.60	44.80	74.60	445.10	352.60	25.30	0.00	0.00	0.00	0.00		
25	11.20	9.10	39.80	55.60	73.30	438.60	380.00	25.30	0.00	0.00	0.00	0.00		
26	12.10	6.80	46.50	82.00	82.60	411.40	399.90	49.70	0.00	0.00	0.00	0.00		
27	16.10	9.70	36.40	121.90	88.10	376.00	411.40	43.20	0.00	0.00	0.00	0.00		
28	22.30	15.50	31.80	152.30	88.70	342.00	410.50	34.70	0.00	0.00	0.00	0.00		
29	19.10	23.30	30.80	158.50	97.30	313.70	393.50	27.90	0.00	0.00		0.00		
30	14.40	27.90	26.90	144.80	109.20	323.30	361.50	22.80	0.00	0.00		0.00		
31		22.30		125.20	116.70		316.10		0.00	0.00		0.00		
Total	306.70	456.10	620.90	2337.30	3259.50	10718.50	19024.00	2369.20	91.20	0.00	0.00	0.00	39183.40	Ton
Mean	10.20	14.70	20.70	75.40	105.10	357.30	613.70	79.00	2.90	0.00	0.00	0.00		
Max	22.30	31.30	46.50	158.50	187.00	562.10	1220.60	270.20	18.00	0.00	0.00	0.00	1220.60	
Min	0.00	3.90	6.00	25.30	72.70	132.20	292.00	22.80	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

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

Lat 15 - 50 - 18 N Long 104 - 27 - 35 E

Location : on right bank at Phawaphutanon bridge.

	Ban Chiang Pheng	Amphoe Pa Tiu	Changwat Yasothon
Drainage Area	1,646 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	30		
R-Square	0.8086		
Remarks	Continued Sediment Station		

$$QS = 1.1283 QW^{1.42720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	17.40	419.20	545.40	385.50	1732.30	21.90	2.80	0.00	0.00	0.00		
2	0.00	0.00	17.40	329.60	599.40	400.40	2282.30	19.60	2.80	0.00	0.00	0.00		
3	0.00	0.00	17.40	77.70	500.90	535.20	2173.10	17.40	2.80	0.00	0.00	0.00		
4	0.00	0.00	13.20	148.20	447.90	629.20	1802.20	17.40	2.60	0.00	0.00	0.00		
5	0.00	0.00	9.30	370.80	500.90	614.20	1251.40	15.30	2.60	0.00	0.00	0.00		
6	0.00	0.00	9.30	865.10	768.00	651.70	832.40	13.20	2.60	0.00	0.00	0.00		
7	0.00	0.00	9.30	1251.40	644.20	792.00	584.70	13.20	2.40	0.00	0.00	0.00		
8	0.00	0.00	9.30	1199.20	469.30	1091.80	453.70	11.20	2.40	0.00	0.00	0.00		
9	0.00	0.00	7.60	1103.20	509.90	1663.30	383.70	9.30	1.80	0.00	0.00	0.00		
10	0.00	0.00	7.60	776.00	644.20	2053.30	127.80	9.30	1.10	0.00	0.00	0.00		
11	0.00	0.00	5.90	514.90	621.70	1890.80	51.80	9.30	0.50	0.00	0.00	0.00		
12	0.00	0.00	4.40	465.40	555.70	1103.20	58.00	7.60	0.10	0.00	0.00	0.00		
13	0.00	0.00	2.80	427.70	477.10	736.50	61.10	7.60	0.00	0.00	0.00	0.00		
14	0.00	0.00	3.00	392.90	459.50	520.00	58.00	5.90	0.00	0.00	0.00	0.00		
15	0.00	0.00	5.90	251.60	453.70	459.50	51.80	5.90	0.00	0.00	0.00	0.00		
16	0.00	0.00	48.80	427.70	442.10	465.40	48.80	4.40	0.00	0.00	0.00	0.00		
17	0.00	0.00	383.70	1980.50	400.40	592.10	45.80	4.40	0.00	0.00	0.00	0.00		
18	0.00	0.00	453.70	2994.00	374.50	760.10	42.90	4.40	0.00	0.00	0.00	0.00		
19	0.00	0.00	489.00	3017.90	233.20	636.60	40.10	4.40	0.00	0.00	0.00	0.00		
20	0.00	0.00	430.60	2596.60	90.00	535.20	37.30	3.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	329.60	1663.30	51.80	473.20	37.30	3.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	64.30	705.30	34.60	477.10	34.60	3.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	13.20	504.90	34.60	682.20	31.90	3.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	3.00	433.50	34.60	584.70	31.90	3.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	24.30	376.30	34.60	481.10	31.90	3.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	21.90	99.10	40.10	447.90	31.90	3.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	40.10	34.60	40.10	445.00	31.90	3.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	90.00	31.90	45.80	500.90	29.30	3.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	380.00	37.30	127.80	606.80	26.80	2.80	0.00	0.00		0.00		
30	0.00	13.20	462.40	45.80	350.00	958.30	26.80	2.80	0.00	0.00		0.00		
31		19.60		309.50	387.40		24.30		0.00	0.00		0.00		
Total	0.00	32.80	3374.40	23851.10	10919.40	22173.20	12457.80	234.30	24.50	0.00	0.00	0.00	73067.50	Ton
Mean	0.00	1.10	112.50	769.40	352.20	739.10	401.90	7.80	0.80	0.00	0.00	0.00		
Max	0.00	19.60	489.00	3017.90	768.00	2053.30	2282.30	21.90	2.80	0.00	0.00	0.00	3017.90	
Min	0.00	0.00	2.80	31.90	34.60	385.50	24.30	2.80	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)

Lat 15 - 02 - 48 N Long 104 - 01 - 31 E

Location : on right bank at the bridge on highway.

	Ban Huai Thap Than	Amphoe Huai Thap Thun	Changwat Si Sa Ket
Drainage Area	2,832	sq.km.	
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	22		
R-Square	0.9444		
Remarks	Continued Sediment Station		

$$QS = 3.1747 QW^{0.96300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	10.70	11.50	103.10	40.30	427.40	120.90	4.00	0.00	0.00	0.00		
2	0.00	0.00	8.20	10.70	119.10	37.70	486.80	107.60	4.00	0.00	0.00	0.00		
3	0.00	0.00	8.20	11.50	129.50	41.60	538.50	67.70	3.20	0.00	0.00	0.00		
4	0.00	0.00	8.20	15.10	133.30	92.10	586.00	41.60	3.20	0.00	0.00	0.00		
5	0.00	0.00	4.90	17.50	137.30	120.20	628.90	32.60	2.90	0.00	0.00	0.00		
6	0.00	0.00	4.00	17.50	139.00	149.10	659.90	28.70	2.90	0.00	0.00	0.00		
7	0.00	0.00	4.90	17.50	142.80	194.60	691.20	27.40	2.90	0.00	0.00	0.00		
8	0.00	0.00	4.00	21.10	144.10	273.50	717.30	27.40	2.60	0.00	0.00	0.00		
9	0.00	0.00	4.90	23.50	142.40	382.90	739.50	24.80	2.30	0.00	0.00	0.00		
10	0.00	0.00	4.00	21.10	138.60	496.80	721.60	24.80	2.30	0.00	0.00	0.00		
11	0.00	0.00	5.70	21.10	132.60	592.70	679.10	24.80	2.30	0.00	0.00	0.00		
12	0.00	0.00	5.70	22.30	123.30	628.90	636.70	21.10	1.90	0.00	0.00	0.00		
13	0.00	0.00	4.90	44.20	110.50	636.70	572.70	16.30	1.60	0.00	0.00	0.00		
14	0.00	0.00	4.90	88.00	126.00	625.10	506.80	15.10	1.00	0.00	0.00	0.00		
15	0.00	0.00	4.00	116.50	145.30	596.10	442.50	13.90	0.70	0.00	0.00	0.00		
16	0.00	0.00	3.20	130.90	156.30	589.30	391.80	13.90	0.30	0.00	0.00	0.00		
17	0.00	0.00	5.70	141.90	161.60	569.60	338.40	11.50	0.00	0.00	0.00	0.00		
18	0.00	0.00	4.90	148.70	162.90	544.50	294.80	11.50	0.00	0.00	0.00	0.00		
19	0.00	0.00	4.90	141.90	162.90	520.40	270.70	9.80	0.00	0.00	0.00	0.00		
20	0.00	0.00	6.50	129.80	161.60	496.80	226.70	9.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	11.50	114.00	154.20	465.20	177.70	9.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	11.50	84.00	144.90	433.90	160.70	8.20	0.00	0.00	0.00	0.00		
23	0.00	0.00	10.70	49.40	131.50	404.80	144.50	8.20	0.00	0.00	0.00	0.00		
24	0.00	0.00	10.70	39.00	117.50	388.30	135.70	7.40	0.00	0.00	0.00	0.00		
25	0.00	0.00	9.80	39.00	109.80	384.70	136.00	7.40	0.00	0.00	0.00	0.00		
26	0.00	0.00	9.00	41.60	98.80	382.90	139.80	7.40	0.00	0.00	0.00	0.00		
27	0.00	6.50	8.20	39.00	70.50	382.90	146.60	5.70	0.00	0.00	0.00	0.00		
28	0.00	13.90	9.80	39.00	50.70	382.90	148.70	4.90	0.00	0.00	0.00	0.00		
29	0.00	18.70	9.00	37.70	42.90	382.90	142.40	4.90	0.00	0.00		0.00		
30	0.00	17.50	11.50	35.10	37.70	384.70	132.90	4.00	0.00	0.00		0.00		
31		15.10		42.90	36.40		129.80		0.00	0.00		0.00		
Total	0.00	71.70	214.10	1713.00	3767.10	11622.10	12152.10	717.50	38.10	0.00	0.00	0.00	30295.70	Ton
Mean	0.00	2.30	7.10	55.30	121.50	387.40	392.00	23.90	1.20	0.00	0.00	0.00		
Max	0.00	18.70	11.50	148.70	162.90	636.70	739.50	120.90	4.00	0.00	0.00	0.00	739.50	
Min	0.00	0.00	3.20	10.70	36.40	37.70	129.80	4.00	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

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

Lat 14 - 38 - 27 N Long 104 - 39 - 50 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
Drainage Area	562 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	2002-2009		
Number of observation	156		
R-Square	0.8079		
Remarks	Continued Sediment Station		

$$QS = 3.3195 QW^{1.22850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	19.50	9.50	23.80	35.60	101.80	1603.80	46.00	7.90	0.00	0.00	0.00		
2	0.00	16.70	9.50	19.50	36.90	84.00	1930.70	48.70	7.10	0.00	0.00	0.00		
3	0.00	17.60	9.50	20.50	71.70	67.10	620.50	51.40	6.30	0.00	0.00	0.00		
4	0.00	13.90	9.50	17.60	106.90	74.70	582.90	48.70	5.50	0.00	0.00	0.00		
5	0.00	11.20	9.50	16.70	110.30	79.30	1040.30	38.20	4.00	0.00	0.00	0.00		
6	0.00	10.40	8.70	14.80	88.70	82.40	839.90	30.70	2.90	0.00	0.00	0.00		
7	0.00	9.50	7.90	18.60	95.30	101.80	849.00	22.70	2.50	0.00	0.00	0.00		
8	0.00	9.50	7.10	28.30	54.10	168.90	736.10	16.70	2.50	0.00	0.00	0.00		
9	0.00	9.50	8.70	26.10	52.70	291.50	681.40	13.00	2.10	0.00	0.00	0.00		
10	0.00	9.50	9.50	42.10	46.00	302.80	416.70	11.20	2.10	0.00	0.00	0.00		
11	0.00	7.90	9.50	44.70	56.90	260.90	283.10	11.20	1.80	0.00	0.00	0.00		
12	0.00	7.90	9.50	51.40	52.70	164.70	183.90	12.10	1.80	0.00	0.00	0.00		
13	0.00	7.90	9.50	58.30	52.70	166.80	148.00	12.10	2.50	0.00	0.00	0.00		
14	0.00	9.50	13.90	59.70	54.10	85.50	192.50	11.20	3.30	0.00	0.00	0.00		
15	22.70	9.50	19.50	68.60	52.70	288.70	171.00	11.20	4.80	0.00	0.00	0.00		
16	27.20	9.50	24.90	171.00	38.20	536.90	225.50	11.20	5.50	0.00	0.00	0.00		
17	26.10	10.40	31.80	241.70	30.70	502.40	199.00	11.20	3.30	0.00	0.00	0.00		
18	24.90	9.50	38.20	677.60	29.50	508.70	190.30	11.20	2.50	0.00	0.00	0.00		
19	22.70	9.50	29.50	440.90	29.50	425.80	158.40	11.20	1.40	0.00	0.00	0.00		
20	15.70	9.50	24.90	247.20	27.20	162.60	125.80	11.20	0.80	0.00	0.00	0.00		
21	24.90	9.50	27.20	177.40	21.60	98.50	85.50	10.40	0.00	0.00	0.00	0.00		
22	10.40	10.40	33.10	79.30	20.50	168.90	122.20	10.40	0.00	0.00	0.00	0.00		
23	7.90	12.10	42.10	68.60	23.80	210.00	141.80	9.50	0.00	0.00	0.00	0.00		
24	7.10	13.90	38.20	68.60	33.10	177.40	118.80	9.50	0.00	0.00	0.00	0.00		
25	12.10	15.70	34.30	62.70	55.50	145.90	85.50	9.50	0.00	0.00	0.00	0.00		
26	14.80	15.70	24.90	79.30	61.20	205.60	85.50	9.50	0.00	0.00	0.00	0.00		
27	10.40	16.70	20.50	85.50	54.10	375.10	70.10	9.50	0.00	0.00	0.00	0.00		
28	12.10	16.70	21.60	22.70	51.40	428.80	65.60	8.70	0.00	0.00	0.00	0.00		
29	14.80	17.60	19.50	23.80	50.00	340.00	58.30	8.70	0.00	0.00		0.00		
30	18.60	17.60	21.60	23.80	68.60	718.40	50.00	8.70	0.00	0.00		0.00		
31		13.90		24.90	108.60		44.70		0.00	0.00		0.00		
Total	272.40	378.20	583.60	3005.70	1670.80	7325.90	12106.80	535.50	70.60	0.00	0.00	0.00	25949.50	Ton
Mean	9.10	12.20	19.50	97.00	53.90	244.20	390.50	17.90	2.30	0.00	0.00	0.00		
Max	27.20	19.50	42.10	677.60	110.30	718.40	1930.70	51.40	7.90	0.00	0.00	0.00	1930.70	
Min	0.00	7.90	7.10	14.80	20.50	67.10	44.70	8.70	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

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

Lat 14 - 41 - 39 N Long 101 - 25 - 00 E

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

	Ban -	Amphoe Pak Chong	Changwat Nakhon Ratchasima
Drainage Area	713 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1981 - 1988,1991,1997 - Cont'd		
Actual Measurement	1981 - 1988,1991,1997 - Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	24		
R-Square	0.8018		
Remarks	Continued Sediment Station		

$$QS = 0.5048 QW^{2.31220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	3.80	0.20	5.50	24.90	81.20	764.70	22.80	4.60	3.10	2.50	0.40		
2	31.80	2.50	0.20	3.80	22.80	196.80	3673.30	22.80	4.60	3.10	2.50	0.40		
3	20.90	1.10	0.30	3.80	20.90	402.70	986.20	22.80	4.60	3.10	2.50	0.40		
4	13.90	1.10	0.30	2.50	17.20	248.50	464.80	22.80	4.60	3.10	2.50	0.40		
5	5.50	0.50	0.40	1.50	15.50	196.80	747.70	20.90	4.60	3.10	2.00	0.40		
6	5.50	0.40	0.50	103.60	13.90	274.00	345.70	20.90	4.60	3.10	2.00	0.40		
7	3.80	0.30	0.80	113.40	12.50	947.00	176.80	20.90	4.60	3.10	2.00	0.40		
8	2.00	0.50	6.40	81.20	9.80	218.10	113.40	20.90	4.60	3.10	1.50	0.30		
9	2.00	0.40	7.40	42.50	8.60	190.00	77.10	42.50	4.60	3.10	1.50	0.30		
10	4.60	0.30	8.60	27.10	6.40	108.40	58.30	65.50	4.60	2.50	1.10	0.30		
11	3.80	0.20	20.90	20.90	5.50	176.80	45.40	108.40	3.80	2.50	1.10	0.30		
12	8.60	6.40	9.80	12.50	4.60	151.90	39.60	58.30	3.80	2.50	1.10	0.30		
13	31.80	27.10	6.40	5.50	3.80	61.80	45.40	36.90	3.80	2.50	0.80	0.30		
14	19.00	69.20	4.60	12.50	2.50	69.20	51.60	22.80	3.80	2.50	0.80	0.30		
15	11.10	19.00	6.40	9.80	2.00	42.50	81.20	20.90	3.80	2.50	0.50	0.30		
16	8.60	13.90	6.40	7.40	1.50	27.10	39.60	19.00	3.80	2.50	0.50	0.30		
17	2.00	11.10	6.40	5.50	2.00	48.50	29.40	15.50	3.80	2.50	0.50	0.30		
18	1.50	31.80	24.90	3.80	22.80	65.50	98.90	12.50	3.80	2.50	0.40	0.30		
19	1.10	31.80	12.50	3.10	65.50	34.30	65.50	8.60	3.10	2.50	0.40	0.30		
20	0.80	12.50	39.60	2.50	81.20	89.80	77.10	7.40	3.10	2.50	0.40	0.30		
21	0.80	7.40	85.40	2.00	51.60	61.80	170.30	6.40	3.10	2.50	0.40	0.30		
22	0.50	8.60	31.80	27.10	22.80	45.40	113.40	6.40	3.10	3.10	0.40	0.30		
23	0.50	6.40	45.40	27.10	27.10	61.80	190.00	4.60	3.10	3.80	0.40	0.30		
24	0.50	6.40	31.80	19.00	69.20	151.90	426.90	4.60	3.10	3.80	0.40	0.30		
25	0.50	5.50	29.40	118.50	85.40	324.20	233.00	3.80	3.10	3.80	0.40	0.30		
26	0.50	3.80	17.20	73.10	58.30	140.20	108.40	3.80	3.10	3.10	0.40	0.30		
27	0.50	1.50	8.60	34.30	98.90	103.60	69.20	3.10	3.10	3.10	0.40	0.30		
28	0.50	1.50	6.40	19.00	157.90	69.20	51.60	3.10	3.10	3.10	0.40	0.30		
29	0.50	1.50	6.40	19.00	134.60	48.50	36.90	2.50	3.10	3.10		0.30		
30	5.50	1.50	6.40	61.80	210.90	77.10	29.40	2.50	3.10	3.10		0.30		
31		1.50		36.90	73.10		24.90		3.10	3.10		0.30		
Total	189.40	279.50	431.80	906.20	1333.70	4714.60	9435.70	633.90	116.70	91.00	29.80	10.00	18172.30	Ton
Mean	6.30	9.00	14.40	29.20	43.00	157.20	304.40	21.10	3.80	2.90	1.10	0.30		
Max	31.80	69.20	85.40	118.50	210.90	947.00	3673.30	108.40	4.60	3.80	2.50	0.40	3673.30	
Min	0.50	0.20	0.20	1.50	1.50	27.10	24.90	2.50	3.10	2.50	0.40	0.30	0.20	

WATER YEAR : 2009

MUN RIVER BASIN

Huai Samran at Ban Thai Thaworn, Si Sa Ket (M.91)

Lat 14 - 29 - 40 N Long 104 - 03 - 34 E

Location : on right bank about 15 kilometers, the highway at Ban Thai Thaworn.

	Ban Thai Thaworn	Amphoe Phu Sing	Changwat Si Sa Ket
Drainage Area	141 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	2009		
Number of observation	61		
R-Square	0.9337		
Remarks	Continued Sediment Station		

$$QS = 2.0033 QW^{1.35730}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	2.10	0.70	1.20	3.30	14.50	739.80	4.70	0.30	0.10	0.30	0.30		
2	0.50	1.30	0.70	0.80	2.90	8.30	231.50	4.50	0.30	0.10	0.30	0.60		
3	0.50	0.80	0.70	0.50	3.50	7.20	106.70	3.90	0.30	0.10	0.30	0.60		
4	0.50	0.70	0.70	0.40	2.90	13.40	73.40	3.70	0.30	0.10	0.30	0.60		
5	0.50	0.70	0.70	0.30	2.90	26.50	120.20	1.30	0.50	0.10	0.30	0.70		
6	1.00	0.60	0.60	0.30	3.10	119.20	97.50	1.20	0.20	0.10	0.30	2.60		
7	0.60	0.60	0.20	0.30	2.70	489.90	63.80	1.60	0.30	0.10	0.30	0.70		
8	0.50	0.60	0.20	0.30	2.70	201.70	46.90	2.40	0.30	0.10	0.30	0.30		
9	0.50	0.60	0.20	0.20	3.30	176.70	45.00	2.40	0.20	0.10	0.30	0.30		
10	0.50	0.60	1.30	0.20	6.10	138.80	55.10	2.10	0.20	0.10	0.30	0.30		
11	0.50	1.00	1.30	0.40	5.90	94.50	49.40	2.10	0.30	0.20	0.30	0.30		
12	0.50	0.80	1.20	1.00	4.30	52.50	36.00	2.10	0.20	0.10	0.30	0.30		
13	0.50	0.80	1.00	8.30	3.30	33.10	36.00	1.60	0.20	0.20	0.30	0.30		
14	0.50	0.80	1.00	8.00	4.70	27.80	52.50	1.30	0.20	0.20	0.30	0.40		
15	0.50	0.70	1.00	4.70	4.30	93.00	45.60	1.40	0.30	0.10	0.30	0.40		
16	0.50	0.70	1.00	3.30	3.70	48.10	36.60	1.40	0.20	0.20	0.30	0.40		
17	0.60	0.70	1.60	2.60	3.30	50.00	26.10	1.30	0.20	0.30	0.30	0.40		
18	0.60	0.80	1.20	2.60	3.50	36.60	20.30	1.00	0.20	0.30	0.30	0.40		
19	0.50	0.90	1.00	2.70	3.50	28.20	16.40	0.90	0.20	0.30	0.30	0.40		
20	0.50	0.90	2.60	2.40	3.30	21.10	13.80	0.80	0.20	0.30	0.30	0.40		
21	0.50	1.30	3.30	1.90	3.10	16.40	22.70	0.70	0.20	0.40	0.30	0.40		
22	0.50	1.20	3.10	1.70	2.70	12.40	49.40	0.60	0.20	0.40	0.30	0.40		
23	0.60	1.00	1.30	3.70	2.60	78.40	31.30	0.60	0.20	0.30	0.30	0.40		
24	0.60	1.20	0.80	3.30	2.60	90.00	21.90	0.50	0.20	0.30	0.30	0.40		
25	0.60	0.80	0.50	3.10	3.90	58.40	16.40	0.50	0.20	0.30	0.30	0.40		
26	0.90	0.70	0.40	2.90	4.50	122.10	13.10	0.50	0.20	0.30	0.30	0.40		
27	0.80	0.70	0.30	2.60	3.70	100.50	10.30	0.50	0.20	0.30	0.30	0.40		
28	0.80	0.70	0.30	2.40	3.50	105.90	9.00	0.50	0.20	0.30	0.30	0.40		
29	0.90	0.70	0.30	2.40	2.90	65.10	7.40	0.50	0.20	0.30		0.40		
30	1.00	0.70	2.90	2.40	10.30	248.80	6.40	0.40	0.20	0.30		0.30		
31		0.70		2.70	15.60		5.60		0.10	0.30		0.40		
Total	18.10	26.40	32.10	69.60	128.60	2579.10	2106.10	47.00	7.20	6.70	8.40	15.00	5044.30	Ton
Mean	0.60	0.90	1.10	2.20	4.10	86.00	67.90	1.60	0.20	0.20	0.30	0.50		
Max	1.00	2.10	3.30	8.30	15.60	489.90	739.80	4.70	0.50	0.40	0.30	2.60	739.80	
Min	0.50	0.60	0.20	0.20	2.60	7.20	5.60	0.40	0.10	0.10	0.30	0.30	0.10	

WATER YEAR : 2009

MUN RIVER BASIN

Huai TaThieo at Ban Na Hai, Ubon Ratchathani (M.127)

Lat 15 - 38 - 37 N Long 104 - 55 - 57 E

Location : on left bank at the bridge on road.

	Ban Na Hai	Amphoe Trakan Phutphon	Changwat Ubon Ratchathani
Drainage Area	424 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	1997-2009		
Number of observation	253		
R-Square	0.8950		
Remarks	Continued Sediment Station		

$$QS = 3.8877 QW^{1.21200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.20	3.70	2.10	637.50	17.10	859.60	5.80	1.70	1.30	1.50	1.10		
2	0.00	0.20	3.70	2.30	426.10	24.70	463.90	5.80	1.70	1.30	1.50	1.10		
3	0.00	0.20	2.10	2.30	291.60	126.50	246.70	5.80	1.70	1.30	1.50	1.10		
4	0.00	0.10	2.10	1.70	180.30	98.50	163.80	5.80	1.70	1.30	1.50	1.10		
5	0.00	0.10	1.70	2.10	199.80	86.20	111.10	5.80	1.70	1.30	1.50	1.10		
6	0.00	0.10	1.70	9.00	211.10	111.10	71.90	5.30	1.70	1.10	1.50	0.90		
7	0.00	0.00	1.70	24.70	145.00	155.70	49.10	5.30	1.70	1.10	1.50	0.90		
8	0.00	0.00	1.70	49.10	98.50	250.10	36.20	4.80	1.70	1.10	1.50	0.90		
9	0.00	0.00	1.70	32.70	123.90	498.40	30.00	4.40	1.70	1.70	1.50	0.70		
10	0.00	0.20	1.70	26.00	177.50	345.10	23.40	3.40	1.70	1.70	1.50	0.60		
11	0.00	0.60	1.50	27.30	166.50	183.00	20.90	3.00	1.70	1.70	1.50	0.60		
12	0.00	2.10	1.30	26.00	106.10	113.70	23.40	2.70	1.70	1.70	1.50	0.20		
13	0.00	2.30	1.30	30.00	83.80	71.90	27.30	2.70	1.70	1.70	1.50	0.20		
14	0.00	2.30	1.10	101.00	564.70	51.30	26.00	2.70	1.70	1.50	1.50	0.20		
15	0.00	1.70	1.10	113.70	388.90	40.40	22.10	2.50	1.70	1.50	1.50	0.20		
16	0.00	1.50	1.30	137.00	281.10	60.30	20.90	2.50	1.50	1.50	1.50	0.20		
17	0.00	1.50	28.70	366.90	214.00	142.30	13.50	2.50	1.50	1.50	1.30	0.20		
18	0.00	1.30	22.10	284.60	177.50	137.00	15.90	2.50	1.50	1.50	1.30	0.20		
19	0.00	1.10	17.10	202.60	118.80	116.20	15.90	2.50	1.50	1.50	1.30	0.20		
20	0.00	1.70	11.20	139.70	74.20	81.40	14.70	2.50	1.50	1.50	1.30	0.10		
21	0.00	1.50	7.90	163.80	46.90	55.70	14.70	2.50	1.50	1.50	1.30	0.00		
22	0.00	1.50	6.40	118.80	31.40	49.10	12.40	2.50	1.50	1.50	1.30	0.00		
23	0.00	2.10	4.80	76.60	34.10	64.90	11.20	2.50	1.50	1.50	1.30	0.00		
24	0.00	3.00	4.80	46.90	36.20	51.30	11.20	2.10	1.30	1.50	1.10	0.00		
25	0.00	20.90	4.40	28.70	40.40	46.90	11.20	2.10	1.30	1.50	1.10	0.00		
26	0.00	6.90	3.20	18.40	32.70	81.40	11.20	2.10	1.30	1.50	1.10	0.00		
27	0.00	4.80	2.50	14.70	27.30	103.50	11.20	1.90	1.30	1.50	1.10	0.00		
28	0.00	3.90	2.50	13.50	20.90	81.40	10.10	1.70	1.30	1.50	1.10	0.00		
29	0.00	4.80	2.50	18.40	19.60	58.00	9.00	1.70	1.30	1.50		0.00		
30	0.00	3.40	2.50	64.90	18.40	263.80	8.50	1.70	1.30	1.50		0.00		
31		3.40		403.70	18.40		8.50		1.30	1.50		0.00		
Total	0.00	73.40	150.00	2549.20	4993.20	3566.90	2375.50	99.10	47.90	45.30	38.60	11.80	13950.90	Ton
Mean	0.00	2.40	5.00	82.20	161.10	118.90	76.60	3.30	1.50	1.50	1.40	0.40		
Max	0.00	20.90	28.70	403.70	637.50	498.40	859.60	5.80	1.70	1.70	1.50	1.10	859.60	
Min	0.00	0.00	1.10	1.70	18.40	17.10	8.50	1.70	1.30	1.10	1.10	0.00	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

Lam Dom Yai at Ban Kut Chiang Mun, Ubon Ratchathani (M.153)

Lat 14 - 26 - 41 N Long 105 - 07 - 30 E

Location : on right bank at the bridge on road.

	Ban Kut Chiang Mun	Amphoe Nam Yuen	Changwat Ubon Ratchathani
Drainage Area	373 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	59		
R-Square	0.9637		
Remarks	Continued Sediment Station		

$$QS = 1.4614 QW^{1.26170}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.90	3.40	5.60	133.40	63.20	2628.30	8.70	1.70	0.20	0.10	0.00		
2	0.10	1.10	2.30	5.40	100.50	79.70	659.40	6.30	1.60	0.30	0.20	0.00		
3	0.10	0.20	4.60	12.60	423.40	68.10	366.90	5.80	1.60	0.20	0.10	0.00		
4	0.10	0.50	40.80	8.70	214.80	72.20	305.40	5.40	1.60	0.20	0.10	0.00		
5	0.00	0.50	18.30	8.10	114.90	92.60	235.20	5.40	1.60	0.20	0.10	0.00		
6	0.00	0.80	14.60	7.40	126.90	81.40	305.40	5.20	1.60	0.10	0.10	0.00		
7	0.10	0.70	11.10	13.70	84.80	88.30	205.50	4.90	1.60	0.10	0.10	0.00		
8	0.10	0.10	5.40	15.20	65.60	455.00	135.80	4.60	1.60	0.10	0.10	0.00		
9	0.10	0.10	5.20	14.60	72.20	516.20	104.10	4.40	1.10	0.10	0.10	0.00		
10	0.00	0.10	4.60	13.70	97.90	361.70	84.80	4.10	1.00	0.10	0.10	0.00		
11	0.00	0.00	5.20	8.70	81.40	203.90	84.80	3.60	0.90	0.10	0.10	0.00		
12	0.00	0.00	6.80	7.10	61.60	114.90	69.70	3.40	0.90	0.10	0.10	0.00		
13	0.00	0.10	5.40	20.10	77.20	101.40	55.30	3.40	0.90	0.10	0.10	0.00		
14	0.00	2.20	4.60	155.90	60.00	84.00	56.00	3.30	0.90	0.10	0.10	0.00		
15	1.40	2.40	3.30	285.40	58.40	109.50	48.30	3.30	0.80	0.10	0.10	0.10		
16	0.70	2.40	2.30	173.60	51.40	123.20	55.30	3.30	0.70	0.10	0.10	0.10		
17	0.20	2.30	3.50	588.20	48.30	114.90	52.10	3.10	0.70	0.10	0.10	0.10		
18	0.10	2.20	7.10	370.40	49.80	80.60	37.90	3.00	0.60	0.10	0.10	0.10		
19	0.10	3.10	6.60	178.10	46.00	64.00	35.00	2.70	0.60	0.10	0.10	0.10		
20	0.00	3.00	10.60	98.80	41.60	52.90	32.20	2.60	0.50	0.10	0.10	0.10		
21	0.00	2.40	36.50	561.40	40.10	46.00	27.40	2.10	0.50	0.40	0.10	0.10		
22	0.00	2.30	29.40	264.10	36.50	42.30	29.40	1.90	0.50	0.40	0.30	0.00		
23	0.00	1.40	18.90	755.80	38.60	39.40	26.70	1.80	0.40	0.40	0.20	0.00		
24	0.00	4.60	13.70	288.70	37.20	36.50	22.10	1.80	0.40	0.30	0.10	0.10		
25	0.00	6.80	9.70	131.60	49.80	30.80	17.60	1.80	0.30	0.20	0.10	0.10		
26	0.10	3.60	7.60	88.30	26.00	49.10	32.90	1.80	0.30	0.10	0.00	0.10		
27	0.10	2.60	6.30	108.60	52.10	60.80	19.50	1.80	0.30	0.10	0.00	0.10		
28	0.10	3.10	5.60	63.20	48.30	46.80	15.20	1.70	0.20	0.10	0.00	0.10		
29	0.10	3.50	7.10	73.90	37.20	349.60	14.00	1.70	0.20	0.10		0.10		
30	0.10	2.70	5.80	67.30	114.00	2420.70	11.10	1.60	0.20	0.10		0.10		
31		3.00		188.60	93.50		9.70		0.20	0.10		0.10		
Total	3.70	58.70	306.30	4582.80	2583.40	6049.70	5783.00	104.50	26.00	4.90	2.90	1.50	19507.40	Ton
Mean	0.10	1.90	10.20	147.80	83.30	201.70	186.50	3.50	0.80	0.20	0.10	0.00		
Max	1.40	6.80	40.80	755.80	423.40	2420.70	2628.30	8.70	1.70	0.40	0.30	0.10	2628.30	
Min	0.00	0.00	2.30	5.40	26.00	30.80	9.70	1.60	0.20	0.10	0.00	0.00	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

Huai Luang at Ban Na Chaluai, Ubon Ratchathani (M.154)

Lat 14 - 27 - 06 N Long 105 - 11 - 34 E

Location : on left bank at the bridge on road.

	Ban Nachaluai	Amphoe Na Chaluai	Changwat Ubon Ratchathani
Drainage Area	210 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	50		
R-Square	0.8664		
Remarks	Continued Sediment Station		

$$QS = 2.0313 QW^{1.07540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.20	1.00	2.50	25.70	13.30	308.80	14.90	1.80	0.90	0.60	0.50		
2	0.30	0.20	0.90	2.90	24.90	13.90	183.90	13.10	1.70	0.90	0.60	0.50		
3	0.20	0.20	1.00	2.30	110.20	22.80	104.40	11.30	1.70	0.90	0.60	0.50		
4	0.20	0.20	9.90	1.80	44.90	29.30	62.60	10.80	1.70	0.80	0.60	0.50		
5	0.20	0.20	7.60	1.30	31.00	60.80	58.70	9.40	1.60	0.80	0.50	0.50		
6	0.20	0.20	4.70	1.10	27.00	38.70	52.60	8.20	1.60	0.80	0.50	0.50		
7	0.20	0.20	4.30	1.90	23.40	35.00	66.60	8.10	1.60	0.80	0.50	0.50		
8	0.20	0.20	3.50	1.30	22.00	46.80	51.70	7.90	1.60	0.80	0.50	0.50		
9	0.20	0.20	3.10	1.60	19.50	59.40	44.90	7.60	1.50	0.80	0.50	0.50		
10	0.20	0.20	3.10	1.20	18.30	67.70	33.90	8.10	1.50	0.80	0.50	0.50		
11	0.20	0.20	3.10	1.00	17.50	45.20	31.80	6.10	1.40	0.80	0.50	0.50		
12	0.20	0.20	3.10	1.00	12.50	36.80	29.10	5.60	1.40	0.80	0.50	0.50		
13	0.20	0.30	2.90	2.60	10.90	34.70	27.60	5.10	1.30	0.80	0.50	0.40		
14	0.20	1.10	2.80	2.50	10.60	32.80	26.80	4.90	1.30	0.70	0.50	0.40		
15	0.40	0.60	2.80	7.60	10.30	45.70	39.00	4.70	1.30	0.70	0.50	0.40		
16	0.20	0.50	3.10	24.10	10.60	51.50	28.90	4.70	1.30	0.70	0.50	0.40		
17	0.20	0.20	2.80	37.60	17.10	48.50	26.80	4.70	1.30	0.60	0.50	0.30		
18	0.20	0.20	1.20	45.70	14.70	37.90	23.90	4.60	1.30	0.60	0.50	0.30		
19	0.20	0.20	0.70	32.80	12.90	26.40	23.00	4.30	1.20	0.60	0.50	0.30		
20	0.20	0.30	0.70	36.30	11.10	20.50	21.60	3.30	1.20	0.60	0.50	0.30		
21	0.20	0.30	0.80	55.80	9.80	18.90	26.40	2.90	1.20	1.00	0.50	0.30		
22	0.10	0.80	0.70	35.80	10.80	18.50	28.90	2.60	1.20	0.90	0.50	0.30		
23	0.10	0.80	1.00	114.20	10.80	17.70	26.60	2.50	1.10	0.90	0.40	0.30		
24	0.10	1.00	0.80	67.00	9.90	15.90	24.30	2.40	1.10	0.80	0.40	0.30		
25	0.20	1.00	0.70	42.80	10.80	15.10	22.20	2.30	1.10	0.80	0.40	0.30		
26	0.20	1.00	0.60	30.60	8.20	20.10	21.60	2.10	1.00	0.80	0.40	0.30		
27	0.20	0.90	0.50	25.70	9.10	28.20	21.20	2.00	1.00	0.70	0.30	0.30		
28	0.20	1.00	5.10	26.10	9.80	25.30	19.70	1.90	1.00	0.70	0.30	0.30		
29	0.20	0.90	4.30	26.60	9.80	86.80	18.10	1.80	1.00	0.70		0.30		
30	0.20	0.70	3.90	26.60	9.40	579.10	16.10	1.80	1.00	0.60		0.30		
31		0.70		27.00	15.30		15.10		1.00	0.60		0.30		
Total	6.10	14.90	80.70	687.30	588.80	1593.30	1486.80	169.70	41.00	23.70	13.60	12.10	4718.00	Ton
Mean	0.20	0.50	2.70	22.20	19.00	53.10	48.00	5.70	1.30	0.80	0.50	0.40		
Max	0.40	1.10	9.90	114.20	110.20	579.10	308.80	14.90	1.80	1.00	0.60	0.50	579.10	
Min	0.10	0.20	0.50	1.00	8.20	13.30	15.10	1.80	1.00	0.60	0.30	0.30	0.10	

WATER YEAR : 2009**MUN RIVER BASIN****Lam Chi at Ban Lum Din, Surin (M.159)**

Lat 15 - 08 - 24 N Long 103 - 25 - 57 E

Location : on right bank at Ban Lum Din.

	Ban Lum Din	Amphoe Chom Phra	Changwat Surin
Drainage Area	4,806 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	2009		
Number of observation	34		
R-Square	0.8150		
Remarks	Continued Sediment Station		

$$QS = 11.9150 QW^{0.75360}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	197.60	113.00	197.60	140.40	809.80	642.50	140.40	0.00	0.00	0.00		
2	0.00	0.00	184.90	107.80	192.60	158.70	889.90	607.90	139.20	0.00	0.00	0.00		
3	0.00	43.60	178.50	103.40	183.70	179.80	1000.60	573.70	127.00	0.00	0.00	0.00		
4	0.00	50.50	169.30	85.20	177.20	206.30	1053.30	511.50	115.60	0.00	0.00	0.00		
5	0.00	52.70	156.00	84.20	164.00	224.60	1103.30	472.20	108.70	0.00	0.00	0.00		
6	0.00	54.90	152.30	86.10	158.70	293.40	1141.70	454.60	104.30	0.00	0.00	0.00		
7	0.00	57.10	151.10	87.10	153.40	434.00	1199.40	434.00	99.00	0.00	0.00	0.00		
8	0.00	61.40	148.80	88.00	147.60	508.60	1247.40	418.60	91.70	0.00	0.00	0.00		
9	0.00	64.50	145.20	88.90	141.60	562.20	1284.50	407.40	79.50	0.00	0.00	0.00		
10	0.00	67.60	139.20	89.90	134.40	595.00	1301.90	391.70	0.00	0.00	0.00	0.00		
11	0.00	68.60	138.00	89.90	122.00	620.80	1292.20	375.80	0.00	0.00	0.00	0.00		
12	0.00	70.60	136.80	90.80	120.70	651.00	1259.10	364.20	0.00	0.00	0.00	0.00		
13	0.00	72.60	136.80	87.10	118.20	678.00	1203.00	346.40	0.00	0.00	0.00	0.00		
14	0.00	74.60	128.20	85.20	113.90	694.70	1154.40	334.40	0.00	0.00	0.00	0.00		
15	0.00	76.50	116.50	82.30	112.20	711.30	1094.10	318.30	0.00	0.00	0.00	0.00		
16	0.00	86.10	108.70	90.80	110.50	722.80	1038.30	307.20	0.00	0.00	0.00	0.00		
17	0.00	100.80	99.00	88.90	108.70	704.60	941.10	292.20	0.00	0.00	0.00	0.00		
18	0.00	107.80	95.40	87.10	111.30	678.00	859.90	278.20	0.00	0.00	0.00	0.00		
19	0.00	113.90	94.50	82.30	114.80	651.00	779.50	256.10	0.00	0.00	0.00	0.00		
20	0.00	117.30	93.50	73.60	124.50	627.20	739.10	240.10	0.00	0.00	0.00	0.00		
21	0.00	122.00	92.60	63.40	129.50	607.90	724.40	227.00	0.00	0.00	0.00	0.00		
22	0.00	128.20	91.70	68.60	136.80	611.10	694.70	205.10	0.00	0.00	0.00	0.00		
23	0.00	140.40	90.80	88.90	145.20	612.70	712.90	191.30	0.00	0.00	0.00	0.00		
24	0.00	153.40	89.90	112.20	156.00	630.50	726.10	158.70	0.00	0.00	0.00	0.00		
25	0.00	166.70	86.10	125.70	151.10	647.60	744.00	141.60	0.00	0.00	0.00	0.00		
26	0.00	183.70	81.40	134.40	146.40	666.20	748.90	122.00	0.00	0.00	0.00	0.00		
27	0.00	195.10	82.30	152.30	141.60	686.40	753.80	117.30	0.00	0.00	0.00	0.00		
28	0.00	206.30	95.40	164.00	135.60	711.30	758.60	113.00	0.00	0.00	0.00	0.00		
29	0.00	218.60	101.70	186.20	129.50	696.40	747.30	110.50	0.00	0.00		0.00		
30	0.00	248.10	116.50	195.10	125.70	673.00	739.10	103.40	0.00	0.00		0.00		
31		254.80		201.40	139.20		732.60		0.00	0.00		0.00		
Total	0.00	3358.40	3698.70	3283.80	4344.20	16585.50	29474.90	9516.90	1005.40	0.00	0.00	0.00	71267.80	Ton
Mean	0.00	108.30	123.30	105.90	140.10	552.90	950.80	317.20	32.40	0.00	0.00	0.00		
Max	0.00	254.80	197.60	201.40	197.60	722.80	1301.90	642.50	140.40	0.00	0.00	0.00	1301.90	
Min	0.00	0.00	81.40	63.40	108.70	140.40	694.70	103.40	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009**MUN RIVER BASIN****Lam Dom Yai at Ban Kham Samran, Ubon Ratehathani (M.170)**

Lat 14 - 47 - 19 N Long 105 - 06 - 10 E

Location : on right bank at the bridge.

	Ban Kham Samran	Amphoe Det Udom	Changwat Ubon Ratchathani
Drainage Area	1,745 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	2009		
Number of observation	52		
R-Square	0.9704		
Remarks	Continued Sediment Station		

$$QS = 1.7435 QW^{1.25090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.40	3.50	24.10	41.70	866.40	204.60	1521.00	89.00	18.70	3.50	1.90	0.20		
2	3.50	3.50	45.60	51.60	849.40	282.10	2377.60	81.40	18.10	3.30	1.70	0.20		
3	3.10	4.60	38.60	101.70	846.00	410.80	2438.90	78.60	17.10	3.30	1.70	0.20		
4	2.50	4.60	47.30	101.70	900.60	353.70	2250.70	76.70	16.10	3.30	1.70	0.10		
5	2.30	4.60	74.90	74.90	973.40	410.80	2088.10	74.90	15.50	3.10	1.60	0.10		
6	2.10	4.20	73.90	60.30	952.50	629.70	1962.40	73.00	14.00	2.90	1.60	0.10		
7	2.10	4.20	54.20	74.90	805.50	772.00	1838.20	69.30	13.10	2.50	1.60	0.10		
8	2.10	3.70	25.70	120.50	509.50	1004.90	1689.70	66.60	12.10	2.50	1.60	0.10		
9	1.90	3.70	17.60	167.10	484.40	1172.60	1561.80	62.10	10.70	2.50	1.60	0.10		
10	1.90	3.70	21.30	101.70	447.30	1308.40	1371.90	59.50	9.70	2.50	1.60	0.10		
11	1.70	3.70	45.60	72.10	517.00	1476.30	1111.30	57.70	8.60	2.30	1.40	0.10		
12	1.70	3.70	41.10	56.80	365.40	1603.50	924.70	54.20	7.70	2.30	1.40	0.10		
13	1.60	3.50	37.40	81.40	309.50	1616.40	491.90	50.70	7.40	2.10	1.40	0.10		
14	1.40	4.60	24.10	164.20	342.00	1488.50	430.20	45.60	7.40	2.10	1.40	0.10		
15	1.40	4.60	28.00	257.20	305.60	1263.80	459.60	41.10	7.40	2.10	1.40	0.10		
16	1.30	11.10	36.80	459.60	405.90	1029.50	499.40	36.20	7.10	2.10	0.10	0.10		
17	1.30	10.70	31.50	873.20	430.20	1004.90	509.50	32.00	6.80	1.90	0.10	0.10		
18	1.20	9.00	29.70	1075.60	358.40	1029.50	351.30	29.70	6.20	1.90	0.10	0.10		
19	1.00	9.30	32.00	1190.70	311.50	966.40	276.30	28.60	5.90	1.90	0.10	0.20		
20	1.90	7.40	35.60	1227.20	232.70	765.40	262.90	28.00	5.90	1.90	0.10	0.20		
21	2.50	10.20	48.20	1293.30	201.60	474.40	230.90	26.90	5.90	7.40	0.10	0.20		
22	2.30	10.70	84.30	1293.30	162.70	346.70	247.70	25.70	5.70	7.40	0.00	0.20		
23	2.30	14.50	73.90	1252.80	162.70	297.70	270.60	25.20	4.90	6.80	0.00	0.30		
24	2.30	16.10	63.00	1263.80	167.10	293.80	242.10	25.20	4.60	5.40	0.00	0.30		
25	2.30	15.50	63.00	1316.30	176.00	272.50	212.30	24.60	4.60	3.50	0.10	0.30		
26	2.30	18.70	44.00	1332.10	174.50	301.60	177.50	24.10	4.40	2.90	0.10	0.40		
27	3.90	18.70	30.90	1154.50	146.50	467.00	164.20	23.50	4.20	2.70	0.00	0.40		
28	4.20	16.10	30.90	1064.90	139.90	615.20	150.50	22.40	3.90	2.50	0.10	0.40		
29	3.70	13.50	44.00	931.70	146.50	600.70	137.30	19.20	3.70	2.10		0.40		
30	3.50	13.50	46.50	839.20	139.90	1064.90	105.40	18.70	3.70	1.90		0.40		
31		12.60		856.20	197.00		100.40		3.50	1.70		0.40		
Total	70.70	268.00	1293.70	18952.20	13027.60	23528.30	26456.30	1370.40	264.60	94.30	24.50	6.20	85356.80	Ton
Mean	2.40	8.60	43.10	611.40	420.20	784.30	853.40	45.70	8.50	3.00	0.90	0.20		
Max	5.40	18.70	84.30	1332.10	973.40	1616.40	2438.90	89.00	18.70	7.40	1.90	0.40	2438.90	
Min	1.00	3.50	17.60	41.70	139.90	204.60	100.40	18.70	3.50	1.70	0.00	0.10	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

Huai Khayung at Ban Non Si Khlai, Si Sa Ket (M.176)

Lat 15 - 00 - 18 N Long 104 - 38 - 14 E

Location : on left bank at Ban Non Si Khlai.

	Ban Non Si Khlai	Amphoe Kanthararom	Changwat Si Sa Ket
Drainage Area	3,131 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	30		
R-Square	0.8520		
Remarks	Continued Sediment Station		

$$QS = 17.5140 QW^{10.79500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	31.70	16.20	0.80	214.00	643.20	489.70	1754.40	459.40	32.20	22.20	20.50	13.20		
2	30.90	17.10	4.30	202.20	684.10	536.90	1907.30	422.10	32.50	25.40	20.50	17.00		
3	28.80	19.70	0.00	1.10	701.90	543.80	2104.10	396.80	32.50	31.70	16.00	17.80		
4	29.80	21.40	175.50	5.80	735.50	598.20	2329.50	370.80	31.80	32.80	14.10	17.00		
5	17.80	22.90	175.50	2.60	803.30	631.60	2362.60	345.80	31.20	29.80	12.40	20.50		
6	25.40	26.80	4.30	181.20	871.10	653.10	2324.80	323.40	31.70	29.80	22.20	18.80		
7	22.20	29.40	11.70	208.10	861.90	722.80	2301.00	299.00	31.80	32.50	20.50	19.70		
8	22.20	30.40	17.40	239.90	823.50	854.30	2286.80	278.80	32.10	32.50	21.30	18.80		
9	21.30	31.70	23.50	252.60	762.50	1069.00	2205.50	245.60	32.40	31.70	17.80	15.10		
10	18.80	32.10	25.40	231.40	708.30	1294.60	2205.50	234.20	32.20	31.70	19.70	15.10		
11	19.70	32.10	23.00	182.30	644.80	1411.70	2121.10	215.50	32.20	31.70	24.40	12.40		
12	25.40	31.70	19.70	185.80	576.30	1462.70	2018.60	208.10	32.20	29.80	24.40	14.10		
13	32.50	30.90	17.70	339.90	500.30	1484.90	1903.10	187.30	30.10	27.60	26.60	15.10		
14	31.10	30.40	18.60	360.60	601.60	1457.30	1798.40	176.60	32.10	28.70	25.40	17.00		
15	28.20	28.80	22.10	566.10	671.10	1357.60	1443.90	4.30	32.50	24.40	23.40	21.30		
16	23.90	28.80	24.90	677.60	666.20	1261.50	1215.00	9.90	32.50	20.50	20.50	24.40		
17	17.80	28.80	20.80	892.40	644.80	1300.10	1116.00	14.20	32.80	19.70	18.80	23.40		
18	16.10	29.90	14.70	1139.70	628.30	1427.90	1043.80	17.40	30.70	18.80	31.50	20.50		
19	19.70	31.50	6.20	1275.30	608.30	1500.30	946.50	19.30	29.80	17.00	20.50	19.70		
20	23.90	32.20	6.20	1363.00	579.70	1534.30	855.80	21.00	29.80	17.00	16.00	21.30		
21	27.10	29.40	7.30	1403.60	526.50	1494.20	793.90	22.50	24.40	18.80	14.10	21.30		
22	29.10	20.00	3.70	1430.50	457.60	1316.60	762.50	23.70	25.40	18.80	15.10	19.70		
23	31.20	175.50	211.10	1430.50	395.40	1156.30	775.10	23.90	24.40	21.30	9.00	11.00		
24	30.70	180.10	237.10	1327.60	326.40	1106.40	775.10	25.30	24.40	25.40	5.40	5.40		
25	28.70	202.20	225.60	1047.70	477.30	1063.20	729.20	26.50	24.40	23.40	6.70	9.80		
26	32.50	228.50	194.80	896.90	480.80	1069.00	680.80	28.40	24.40	22.20	6.70	9.00		
27	31.20	185.80	7.30	786.10	447.90	1158.70	641.50	29.40	23.40	23.40	7.40	10.40		
28	29.80	5.60	7.30	648.10	386.80	1291.90	599.90	30.40	23.40	21.30	6.70	11.00		
29	21.20	2.60	8.10	574.60	353.20	1379.30	562.70	31.20	23.40	29.80		12.40		
30	18.10	2.40	2.60	578.00	315.80	1500.30	530.00	29.80	22.20	21.30		13.20		
31		175.50		594.90	362.00		500.30		22.20	20.50		13.20		
Total	766.80	1760.40	1517.20	19240.10	18246.40	34128.20	43594.70	4520.60	897.10	781.50	487.60	498.60	126439.20	Ton
Mean	25.60	56.80	50.60	620.60	588.60	1137.60	1406.30	150.70	28.90	25.20	17.40	16.10		
Max	32.50	228.50	237.10	1430.50	871.10	1534.30	2362.60	459.40	32.80	32.80	31.50	24.40	2362.60	
Min	16.10	2.40	0.00	1.10	315.80	489.70	500.30	4.30	22.20	17.00	5.40	5.40	0.00	

WATER YEAR : 2009

MUN RIVER BASIN

Huai Hin Lap at Ban Hin Lap, Nakhon Ratchasima (M.183)

Lat 14 - 43 - 26 N Long 101 - 34 - 19 E

Location : on left bank at the bridge on highway.

	Ban Hin Lap	Amphoe Pak Chong	Changwat Nakhon Ratchasima
Drainage Area	250 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	2009		
Number of observation	23		
R-Square	0.9270		
Remarks	Continued Sediment Station		

$$QS = 5.3595 QW^{1.62570}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	59.60	4.00	0.30	0.30	0.10	59.60	4668.40	0.90	2.20	1.30	0.20	0.20		
2	6.60	0.30	0.30	0.30	0.10	20.20	1735.10	0.30	2.20	1.30	0.20	0.20		
3	2.20	0.30	0.30	0.30	0.10	435.20	325.40	0.30	2.20	0.90	0.30	0.20		
4	4.00	0.30	0.30	0.30	0.10	32.00	188.70	2.20	2.20	0.90	0.30	0.20		
5	3.40	0.30	0.30	0.30	0.10	20.20	435.20	0.90	2.20	0.60	0.30	0.20		
6	2.20	0.30	0.30	0.30	0.10	18.20	118.10	0.30	2.20	0.60	0.30	0.20		
7	2.20	0.30	0.30	0.30	0.10	8.00	28.60	0.30	2.20	0.30	0.30	0.20		
8	2.20	0.30	0.30	0.30	0.10	4.00	22.20	0.30	2.20	0.30	0.30	0.20		
9	2.20	0.30	0.30	0.30	0.10	3.40	22.20	0.90	2.20	0.30	0.30	0.20		
10	1.30	0.30	0.30	0.30	0.10	3.40	18.20	2.20	2.20	0.30	0.30	0.20		
11	1.30	0.30	0.30	0.30	0.10	20.20	12.70	22.20	1.70	0.30	0.30	0.20		
12	5.40	0.30	0.30	0.30	0.10	39.20	16.30	6.60	1.70	0.30	0.30	0.20		
13	22.20	0.30	0.30	0.20	0.10	43.00	12.70	5.40	1.70	0.30	0.30	0.20		
14	5.40	9.50	0.30	0.20	0.10	32.00	134.50	5.40	1.70	0.30	0.30	0.20		
15	5.40	4.00	0.30	0.20	0.20	12.70	32.00	5.40	1.70	0.30	0.30	0.20		
16	4.70	2.80	0.30	0.20	0.20	4.70	22.20	28.60	1.70	0.30	0.30	0.20		
17	4.00	25.30	0.30	0.20	0.90	8.00	22.20	9.50	1.70	0.30	0.30	0.20		
18	4.00	5.40	0.30	0.20	0.30	4.00	22.20	4.70	1.70	0.30	0.30	0.20		
19	4.00	9.50	0.30	0.20	14.40	1.30	12.70	2.20	1.70	0.30	0.30	0.20		
20	4.00	32.00	0.30	0.20	8.00	0.30	12.70	3.40	1.70	0.30	0.20	0.20		
21	4.00	11.00	0.30	0.20	5.40	0.30	11.00	2.80	1.70	0.20	0.20	0.20		
22	2.80	5.40	0.30	0.20	4.70	9.50	59.60	2.80	1.70	0.20	0.20	0.20		
23	1.70	4.70	0.30	0.20	4.70	160.70	39.20	2.20	1.70	0.20	0.20	0.20		
24	0.30	3.40	0.30	0.20	9.50	188.70	12.70	2.20	1.30	0.20	0.20	0.20		
25	0.30	1.70	0.30	0.20	43.00	98.90	12.70	2.20	1.30	0.20	0.20	0.20		
26	0.30	0.30	0.30	0.20	241.30	32.00	12.70	2.20	1.30	0.20	0.20	0.20		
27	0.30	0.30	0.30	0.10	14.40	143.00	11.00	2.20	1.30	0.20	0.20	0.20		
28	0.30	0.30	0.30	0.10	5.40	105.20	6.60	2.20	1.30	0.20	0.20	0.20		
29	0.30	0.30	0.30	0.10	252.70	32.00	5.40	2.20	1.30	0.20		0.20		
30	28.60	0.30	0.30	0.10	16.30	18.20	5.40	2.20	1.30	0.20		0.20		
31		0.30		0.10	86.90		5.40		1.30	0.20		0.20		
Total	185.20	124.10	9.00	6.90	709.70	1558.10	8044.00	125.20	54.50	12.00	7.30	6.20	10842.20	Ton
Mean	6.20	4.00	0.30	0.20	22.90	51.90	259.50	4.20	1.80	0.40	0.30	0.20		
Max	59.60	32.00	0.30	0.30	252.70	435.20	4668.40	28.60	2.20	1.30	0.30	0.20	4668.40	
Min	0.30	0.30	0.30	0.10	0.10	0.30	5.40	0.30	1.30	0.20	0.20	0.20	0.10	

MUN RIVER BASIN

Huai Sanaeng at Mueang, Surin (M.187)

Lat 14 - 51 - 26 N Long 103 - 28 - 37 E

Location : on right at the bridge on highway.

	Ban -	Amphoe Mueang	Changwat Surin
Drainage Area	614 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.9018		
Remarks	Continued Sediment Station		

QS = 1.3137 QW^{1.18860}

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.30	0.40	0.30	34.30	26.70	178.50	11.90	0.10	0.30	0.20	0.30		
2	0.40	0.40	0.40	0.30	35.70	26.70	181.70	11.90	0.20	0.30	0.20	0.30		
3	0.30	0.40	0.40	0.40	16.00	25.20	181.70	0.00	0.20	0.30	0.20	0.30		
4	0.30	0.30	0.40	0.40	0.60	1.70	181.70	0.30	0.20	0.30	0.20	0.30		
5	0.20	0.30	0.40	0.40	35.70	1.70	197.50	0.30	0.20	0.20	0.20	0.30		
6	0.20	0.30	0.40	0.40	24.20	4.60	226.30	0.30	0.20	0.20	0.20	0.30		
7	0.20	0.30	0.40	0.40	24.20	37.00	203.90	0.30	0.20	0.20	0.20	0.30		
8	0.20	0.30	0.40	0.60	24.20	74.30	111.90	0.30	0.20	0.20	0.20	0.30		
9	0.20	0.30	0.40	0.60	24.20	74.30	37.00	0.30	0.20	0.10	0.30	0.30		
10	0.30	0.30	0.40	0.60	0.60	72.40	3.00	53.80	0.20	0.10	0.30	0.30		
11	0.30	0.30	0.60	0.50	0.50	102.30	1.00	53.80	0.20	0.20	0.30	0.30		
12	0.30	0.40	0.60	0.50	0.50	101.00	8.10	0.30	0.10	0.20	0.30	0.30		
13	0.30	0.60	0.60	0.50	0.60	73.00	34.30	0.30	0.30	0.20	0.30	0.30		
14	0.30	0.60	0.50	0.50	1.20	67.20	35.70	0.20	0.30	0.10	0.30	0.30		
15	0.30	0.40	0.40	0.60	22.70	110.40	34.60	0.20	0.30	0.10	0.30	0.30		
16	0.30	0.40	0.40	0.50	22.70	0.80	35.70	0.30	0.30	0.10	0.30	0.30		
17	0.30	0.40	0.50	0.50	1.20	44.10	35.70	0.30	0.20	0.10	0.20	0.30		
18	0.30	0.40	0.40	0.60	0.60	42.10	35.70	0.30	0.20	0.10	0.20	0.30		
19	0.30	0.40	0.40	0.60	22.70	22.70	22.70	0.30	0.20	0.10	0.20	0.30		
20	0.30	0.40	0.40	0.60	22.70	22.70	22.70	0.30	0.20	0.10	0.30	0.30		
21	0.30	0.50	0.40	0.80	0.80	35.70	23.70	0.30	0.30	0.20	0.30	0.20		
22	0.30	0.50	0.40	0.80	1.20	82.30	24.70	0.30	0.30	0.30	0.30	0.20		
23	0.20	0.40	0.40	1.20	2.00	85.90	24.20	0.30	0.30	0.30	0.30	0.20		
24	0.30	0.40	0.40	1.00	13.50	82.30	23.20	0.30	0.30	0.30	0.30	0.20		
25	0.30	0.40	0.40	0.60	25.70	85.90	23.20	0.30	0.30	0.30	0.30	0.20		
26	0.60	0.40	0.40	0.60	25.70	103.60	23.20	0.20	0.30	0.30	0.30	0.20		
27	0.40	0.40	0.40	0.60	1.70	95.90	22.70	0.20	0.30	0.20	0.30	0.30		
28	0.40	0.40	0.40	0.50	0.80	58.80	22.70	0.20	0.30	0.20	0.20	0.30		
29	0.40	0.40	0.40	0.50	0.80	47.60	22.70	0.10	0.30	0.20		0.30		
30	0.30	0.40	0.40	0.50	3.00	115.00	22.70	0.10	0.30	0.20		0.30		
31		0.40		0.50	3.00		22.70		0.30	0.20		0.30		
Total	9.20	12.10	12.80	17.40	393.30	1723.90	2025.10	138.00	7.50	6.20	7.20	8.70	4361.40	Ton
Mean	0.30	0.40	0.40	0.60	12.70	57.50	65.30	4.60	0.20	0.20	0.30	0.30		
Max	0.60	0.60	0.60	1.20	35.70	115.00	226.30	53.80	0.30	0.30	0.30	0.30	226.30	
Min	0.20	0.30	0.40	0.30	0.50	0.80	1.00	0.00	0.10	0.10	0.20	0.20	0.00	

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Nawarat Bridge , Chiang Mai (P.1)

Lat 18 - 47 - 10 N Long 99 - 00 - 27 E

Location : on left bank about 100 meters downstream from Nawarat Bridge.

	Ban Nawarat Bridge	Amphoe Mueang	Changwat Chiang Mai
Drainage Area	6,350 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1993-Cont'd		
Actual Measurement	1993-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	40		
R-Square	0.9340		
Remarks	Continued Sediment Station		

$$QS = 2.5185 QW^{1.36690}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	152.70	119.10	769.50	152.70	159.70	1409.40	491.80	273.80	125.70	32.50	39.10	10.00		
2	139.00	145.80	526.80	166.80	119.10	932.60	423.60	273.80	132.30	32.50	35.80	10.00		
3	152.70	197.50	283.80	188.50	119.10	673.30	474.40	244.40	145.80	32.50	30.10	10.00		
4	166.80	206.70	181.20	145.80	119.10	562.60	730.70	206.70	119.10	32.50	23.10	10.00		
5	152.70	113.70	173.90	152.70	108.40	409.00	932.60	254.10	98.00	32.50	23.10	11.20		
6	254.10	113.70	263.90	310.50	92.90	351.80	711.40	234.80	92.90	35.80	27.70	12.30		
7	225.30	108.40	324.10	860.10	103.20	351.80	673.30	254.10	92.90	49.60	32.50	11.70		
8	225.30	119.10	283.80	730.70	197.50	654.40	544.70	234.80	103.20	64.50	39.10	11.50		
9	234.80	119.10	273.80	457.40	225.30	1624.20	409.00	234.80	119.10	60.70	3.50	11.70		
10	225.30	125.70	254.10	380.10	197.50	711.40	351.80	234.80	125.70	39.10	7.40	11.50		
11	234.80	98.00	166.80	283.80	132.30	491.80	491.80	234.80	132.30	32.50	9.20	11.70		
12	206.70	87.80	152.70	225.30	125.70	365.90	423.60	234.80	132.30	32.50	9.20	12.30		
13	206.70	98.00	159.70	197.50	181.20	351.80	474.40	225.30	125.70	32.50	9.80	11.20		
14	206.70	166.80	152.70	234.80	197.50	351.80	730.70	216.00	119.10	32.50	7.40	11.50		
15	197.50	491.80	159.70	273.80	263.90	457.40	932.60	181.20	108.40	32.50	6.90	11.50		
16	206.70	860.10	159.70	283.80	283.80	491.80	711.40	173.90	103.20	35.80	6.40	11.50		
17	225.30	526.80	225.30	254.10	216.00	908.20	673.30	166.80	87.80	49.60	6.90	12.30		
18	216.00	324.10	297.00	283.80	181.20	3688.40	544.70	145.80	56.90	64.50	7.60	13.20		
19	173.90	234.80	297.00	337.90	173.90	3636.20	409.00	152.70	56.90	60.70	7.60	12.00		
20	103.20	188.50	337.90	337.90	216.00	1782.50	351.80	188.50	60.70	39.10	6.40	12.30		
21	82.80	181.20	166.80	283.80	188.50	884.10	635.80	188.50	60.70	25.40	5.00	12.90		
22	78.00	188.50	152.70	283.80	152.70	692.20	562.60	188.50	60.70	30.10	6.90	12.90		
23	73.20	173.90	159.70	234.80	166.80	789.20	457.40	188.50	56.90	27.70	6.90	12.60		
24	68.40	125.70	152.70	181.20	932.60	932.60	526.80	188.50	49.60	32.50	7.60	12.30		
25	68.40	87.80	159.70	145.80	1655.50	750.00	860.10	181.20	46.00	32.50	9.20	12.00		
26	78.00	87.80	159.70	119.10	1562.00	692.20	598.90	181.20	39.10	32.50	10.00	12.60		
27	145.80	87.80	225.30	108.40	769.50	750.00	409.00	152.70	35.80	32.50	10.00	13.20		
28	132.30	82.80	297.00	98.00	474.40	1379.30	310.50	139.00	42.50	20.90	10.00	12.90		
29	145.80	108.40	297.00	113.70	380.10	1237.40	254.10	132.30	42.50	23.10		12.30		
30	119.10	181.20	337.90	145.80	337.90	730.70	234.80	132.30	42.50	27.70		12.30		
31		423.60		173.90	509.20		244.40		42.50	39.10		13.80		
Total	4898.00	6174.20	7551.90	8146.30	10542.50	29044.00	16581.00	6038.60	2656.80	1148.40	404.40	369.20	93555.30	Ton
Mean	163.30	199.20	251.70	262.80	340.10	968.10	534.90	201.30	85.70	37.00	14.40	11.90		
Max	254.10	860.10	769.50	860.10	1655.50	3688.40	932.60	273.80	145.80	64.50	39.10	13.80	3688.40	
Min	68.40	82.80	152.70	98.00	92.90	351.80	234.80	132.30	35.80	20.90	3.50	10.00	3.50	

WATER YEAR : 2009

PING RIVER BASIN

Mae Taeng at Ban Sammahaphon , Chiang Mai (P.4A)

Lat 19 - 07 - 15 N Long 98 - 56 - 53 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	Ban Sammahaphon	Amphoe Mae Taeng	Changwat Chiang Mai
Drainage Area	1,930 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1992-Cont'd		
Actual Measurement	1992-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	24		
R-Square	0.9391		
Remarks	Continued Sediment Station		

$$QS = 2.8073 QW^{1.58390}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.30	1.40	33.70	6.10	2.90	715.30	198.20	38.20	40.10	2.00	3.10	2.90		
2	1.40	1.40	37.10	10.40	2.90	606.20	398.70	36.40	18.40	2.00	3.10	2.90		
3	1.40	1.40	40.60	10.40	4.20	315.20	672.30	40.10	18.40	2.00	3.10	2.90		
4	1.40	1.40	44.20	10.40	11.30	185.60	514.70	58.50	18.40	2.00	3.10	2.90		
5	1.40	1.40	44.20	10.40	11.30	179.40	224.50	58.50	18.40	2.00	3.10	2.90		
6	1.40	1.40	40.60	10.40	15.70	167.20	239.20	66.80	15.70	2.00	3.10	2.90		
7	1.40	1.40	33.70	10.40	36.40	198.20	217.80	130.90	21.40	2.00	3.10	2.90		
8	1.40	1.40	21.40	10.40	36.40	5174.90	130.90	161.80	44.00	2.00	3.10	2.90		
9	1.40	1.60	12.80	10.40	36.40	1090.90	107.70	140.90	45.90	2.00	3.10	2.90		
10	1.40	1.40	8.40	10.40	34.60	929.80	79.40	126.00	45.90	2.00	3.10	2.90		
11	1.30	1.40	4.60	10.40	29.30	342.20	72.70	112.00	45.90	2.00	2.90	2.90		
12	1.40	1.40	2.90	10.40	34.60	146.00	58.50	103.50	45.90	2.00	2.90	2.90		
13	1.40	1.60	2.10	10.40	36.40	173.20	45.90	99.30	44.00	1.80	2.80	2.90		
14	1.40	33.70	1.60	10.40	32.80	351.40	36.40	95.20	24.40	1.40	2.80	2.90		
15	1.40	101.00	1.20	10.40	32.80	231.20	32.80	99.30	4.60	0.90	2.80	2.90		
16	1.40	48.00	0.80	10.40	32.80	306.40	42.00	91.10	2.00	0.50	2.80	2.90		
17	1.40	10.50	0.60	8.50	32.80	1475.40	50.50	83.30	1.40	72.70	2.80	2.90		
18	1.40	3.10	0.40	8.50	31.00	3141.50	50.50	135.90	1.80	37.10	2.80	2.90		
19	1.40	2.00	0.30	8.50	31.00	1343.40	61.20	79.40	1.40	4.60	2.80	2.90		
20	1.40	2.90	0.20	8.50	55.80	460.30	161.80	58.50	2.00	5.90	2.80	2.90		
21	1.40	1.40	5.30	8.50	173.20	289.00	151.20	50.50	2.00	5.90	2.80	2.90		
22	1.40	1.50	5.30	8.50	22.90	315.20	167.20	50.50	2.00	5.00	2.80	2.90		
23	1.40	2.30	5.30	4.20	24.40	482.00	173.20	50.50	2.00	3.10	2.90	2.90		
24	1.40	1.90	5.30	3.50	643.70	460.30	198.20	48.00	1.20	3.10	2.90	2.90		
25	1.40	2.00	5.30	3.50	606.20	408.40	156.50	99.30	1.40	3.10	2.90	2.90		
26	1.40	3.10	5.30	3.50	14.30	408.40	130.90	66.80	2.00	3.40	2.90	2.90		
27	1.40	2.10	5.30	3.50	4.90	408.40	121.10	45.90	2.00	3.10	2.90	2.90		
28	1.40	1.90	5.30	2.90	79.40	1018.10	58.50	45.90	2.00	3.10	2.90	2.90		
29	1.40	7.40	4.20	2.90	146.00	439.20	40.10	45.90	2.00	3.10		2.90		
30	1.40	48.00	1.20	2.90	146.00	156.50	40.10	45.90	2.00	3.10		2.90		
31		55.80		2.90	191.90		40.10		2.00	3.10		2.90		
Total	41.80	347.20	379.20	242.90	2594.30	21919.20	4672.80	2364.80	480.60	188.00	82.20	89.90	33402.90	Ton
Mean	1.40	11.20	12.60	7.80	83.70	730.60	150.70	78.80	15.50	6.10	2.90	2.90		
Max	1.40	101.00	44.20	10.40	643.70	5174.90	672.30	161.80	45.90	72.70	3.10	2.90	5174.90	
Min	1.30	1.40	0.20	2.90	2.90	146.00	32.80	36.40	1.20	0.50	2.80	2.90	0.20	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Kuang at Tha Sing Phithak Bridge , Lamphun (P.5)

Lat 18 - 34 - 32 N Long 99 - 00 - 44 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	Ban Tha Sing Phithak	Amphoe Mueang	Changwat Lamphun
Drainage Area	1,569 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1992-Cont'd		
Actual Measurement	1992-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	25		
R-Square	0.9540		
Remarks	Continued Sediment Station		

$$QS = 2.6327 QW^{0.94400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	13.60	60.00	30.20	34.80	22.40	40.30	27.10	9.10	5.60	9.10	6.90		
2	0.00	12.50	72.40	30.20	33.20	20.80	38.40	27.10	6.30	6.30	10.20	6.60		
3	0.00	15.90	52.90	25.50	27.10	28.60	36.60	27.10	5.90	6.30	7.60	6.90		
4	0.00	15.90	43.90	22.40	22.40	23.90	38.40	28.60	6.30	5.30	6.90	5.90		
5	0.20	14.70	34.80	31.70	19.20	22.40	30.20	28.60	7.20	4.20	9.10	5.90		
6	1.00	12.50	36.60	70.60	19.20	19.20	33.20	22.40	4.20	3.90	10.20	6.60		
7	0.50	7.20	45.70	103.10	20.80	22.40	38.40	25.50	7.20	3.90	7.20	6.90		
8	0.50	7.60	51.10	95.70	23.90	42.10	45.70	28.60	7.60	5.90	7.90	6.30		
9	0.10	7.90	56.50	72.40	27.10	52.90	38.40	27.10	7.20	6.90	7.60	4.60		
10	5.30	7.20	52.90	54.70	23.90	52.90	30.20	22.40	7.20	7.20	7.20	4.20		
11	0.00	7.20	51.10	49.30	22.40	47.50	31.70	22.40	7.90	7.20	6.90	3.90		
12	0.00	7.90	51.10	27.10	18.10	33.20	34.80	19.20	7.60	9.10	4.60	3.90		
13	0.00	7.60	47.50	22.40	19.20	27.10	30.20	18.10	7.60	7.90	6.90	3.60		
14	0.00	13.60	43.90	17.00	19.20	23.90	30.20	19.20	6.90	7.90	7.90	3.60		
15	0.20	36.60	34.80	18.10	22.40	22.40	27.10	17.00	6.90	7.90	7.90	3.60		
16	1.00	58.20	34.80	14.70	22.40	20.80	20.80	14.70	5.60	7.60	7.90	2.50		
17	0.50	68.90	58.20	14.70	22.40	28.60	22.40	9.10	3.90	10.20	6.60	1.10		
18	0.50	63.60	92.00	15.90	25.50	81.20	22.40	7.20	2.20	7.90	13.60	1.00		
19	0.10	81.20	107.30	23.90	22.40	110.90	22.40	9.10	4.60	9.10	10.20	2.90		
20	5.30	77.70	77.70	20.80	19.20	104.90	27.10	12.50	5.30	10.20	7.60	9.10		
21	7.60	77.70	56.50	18.10	19.20	83.00	31.70	7.90	2.90	7.90	11.30	13.60		
22	6.90	12.50	42.10	15.90	23.90	51.10	34.80	7.60	0.80	7.20	10.20	12.50		
23	6.90	7.90	36.60	17.00	33.20	42.10	34.80	11.30	0.50	10.20	6.90	7.60		
24	6.60	5.90	42.10	17.00	42.10	33.20	36.60	12.50	4.60	10.20	6.60	6.90		
25	6.60	5.90	49.30	13.60	52.90	28.60	43.90	9.10	6.30	7.60	6.30	5.90		
26	6.60	7.60	52.90	13.60	51.10	36.60	52.90	7.60	6.30	9.10	6.30	5.30		
27	6.60	7.20	45.70	13.60	45.70	52.90	52.90	11.30	6.30	13.60	5.90	4.90		
28	7.60	9.10	31.70	13.60	36.60	52.90	51.10	13.60	6.60	14.70	5.90	5.30		
29	10.20	17.00	31.70	12.50	27.10	52.90	45.70	11.30	6.30	15.90		4.90		
30	11.30	28.60	28.60	17.00	22.40	43.90	38.40	9.10	6.30	13.60		5.30		
31		43.90		23.90	22.40		31.70		5.60	12.50		4.90		
Total	92.10	760.80	1522.40	936.20	841.40	1285.30	1093.40	514.30	179.20	263.00	222.50	173.10	7883.70	Ton
Mean	3.10	24.50	50.70	30.20	27.10	42.80	35.30	17.10	5.80	8.50	7.90	5.60		
Max	11.30	81.20	107.30	103.10	52.90	110.90	52.90	28.60	9.10	15.90	13.60	13.60	110.90	
Min	0.00	5.90	28.60	12.50	18.10	19.20	20.80	7.20	0.50	3.90	4.60	1.00	0.00	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Rim at Mae Rim Tai , Chiang Mai (P.21)

Lat 18 - 55 - 45 N Long 98 - 56 - 40 E

Location : on left bank about 100 meters downstream from the bridge of Chiang Mai - Fang Highway.

	Ban Mae Rim Tai	Amphoe Mae Rim	Changwat Chiang Mai
Drainage Area	452 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	2009		
Number of observation	34		
R-Square	0.9540		
Remarks	Continued Sediment Station		

$$QS = 5.3270 QW^{1.55900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.20	16.40	101.00	18.50	12.60	257.70	118.60	62.10	20.70	8.40	3.30	0.80		
2	3.50	19.50	43.20	20.70	14.50	106.70	115.60	57.30	19.50	8.40	3.30	0.80		
3	3.90	21.90	23.20	18.50	17.40	252.40	118.60	55.20	18.50	8.40	2.90	3.30		
4	3.30	12.60	18.50	18.50	14.50	127.90	138.40	49.00	18.50	9.40	2.60	3.50		
5	2.90	11.70	20.70	25.80	7.80	101.00	103.80	49.00	17.40	8.40	2.10	0.80		
6	2.10	16.40	20.70	207.00	7.30	84.30	87.00	49.00	17.40	7.80	1.60	0.50		
7	1.80	39.60	24.50	382.10	10.90	73.80	95.30	43.20	16.40	10.90	1.40	0.50		
8	1.80	18.50	23.20	124.80	45.20	343.70	73.80	45.20	15.50	21.90	1.20	0.20		
9	1.80	12.60	32.70	79.00	25.80	190.00	76.40	43.20	13.50	15.50	1.40	0.20		
10	1.80	10.90	25.80	109.70	15.50	106.70	109.70	41.50	13.50	13.50	2.30	0.20		
11	2.10	16.40	20.70	45.20	10.90	81.70	92.50	39.60	14.50	10.90	4.50	0.20		
12	5.80	12.60	25.80	25.80	28.50	106.70	87.00	39.60	11.70	9.40	3.90	0.20		
13	5.40	6.80	39.60	34.40	69.00	106.70	64.30	36.10	10.00	8.90	2.90	0.20		
14	4.90	20.70	28.50	76.40	79.00	198.40	81.70	36.10	9.40	8.90	1.60	0.20		
15	5.80	169.40	20.70	55.20	134.70	273.90	121.70	37.70	8.90	6.80	1.40	0.20		
16	6.80	268.50	19.50	29.80	84.30	134.70	142.20	34.40	8.90	4.90	1.20	0.10		
17	5.40	69.00	149.80	19.50	47.00	997.40	124.80	31.20	8.90	4.20	0.80	0.10		
18	6.80	50.80	112.60	53.10	34.40	1725.20	247.10	31.20	8.90	4.90	0.80	0.70		
19	5.40	43.20	181.70	92.50	31.20	889.50	257.70	29.80	9.40	4.50	0.80	1.80		
20	3.30	24.50	87.00	64.30	36.10	207.00	325.00	29.80	11.70	4.90	0.80	2.10		
21	2.60	17.40	59.70	55.20	43.20	118.60	177.60	29.80	7.30	5.40	1.00	2.60		
22	3.30	18.50	39.60	55.20	50.80	149.80	124.80	29.80	5.80	6.80	1.00	1.80		
23	3.30	15.50	28.50	34.40	81.70	202.70	127.90	29.80	7.30	5.40	0.70	1.80		
24	2.60	12.60	29.80	21.90	356.30	124.80	449.40	29.80	8.40	5.80	0.80	1.60		
25	2.30	12.60	28.50	21.90	670.00	134.70	415.30	27.10	8.40	7.80	0.80	1.40		
26	10.00	10.90	19.50	20.70	202.70	181.70	173.50	24.50	7.80	7.80	0.50	1.40		
27	64.30	7.80	19.50	14.50	142.20	369.10	95.30	24.50	8.90	5.80	0.70	1.40		
28	16.40	6.80	19.50	11.70	69.00	435.70	81.70	25.80	8.90	4.50	0.80	1.60		
29	13.50	10.00	19.50	11.70	106.70	165.40	76.40	24.50	8.90	4.90		3.90		
30	10.00	28.50	19.50	12.60	55.20	101.00	76.40	20.70	8.90	3.90		5.80		
31		157.50		11.70	118.60		59.70		8.90	3.30		4.50		
Total	207.10	1160.10	1303.00	1772.30	2623.00	8348.90	4439.20	1106.50	362.70	242.30	47.10	44.40	21656.60	Ton
Mean	6.90	37.40	43.40	57.20	84.60	278.30	143.20	36.90	11.70	7.80	1.70	1.40		
Max	64.30	268.50	181.70	382.10	670.00	1725.20	449.40	62.10	20.70	21.90	4.50	5.80	1725.20	
Min	1.80	6.80	18.50	11.70	7.30	73.80	59.70	20.70	5.80	3.30	0.50	0.10	0.10	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Ngat at Ban Sahakorn Romklao , Chiang Mai (P.56A)

Lat 19 - 17 - 04 N Long 99 - 11 - 23 E

Location : on left bank at the bridge near land Cooperative Office.

	Ban Sahakorn Romklao	Amphoe Phrao	Changwat Chiang Mai
Drainage Area	546 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	25		
R-Square	0.7531		
Remarks	Continued Sediment Station		

$$QS = 5.1516 QW^{1.45440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.20	43.70	927.90	12.50	18.90	94.70	102.00	57.50	18.90	3.10	1.60	0.70		
2	19.10	82.30	224.50	18.90	41.50	73.40	82.30	57.50	18.90	2.50	1.40	0.50		
3	16.20	76.30	76.30	21.60	64.80	82.30	105.60	52.70	18.90	3.10	1.10	0.50		
4	13.70	57.50	37.60	20.20	37.60	59.90	363.10	48.20	17.50	3.70	1.10	0.50		
5	12.50	52.70	48.20	35.60	24.70	43.70	319.50	50.40	14.90	3.70	1.40	0.50		
6	11.30	55.10	55.10	199.40	23.00	33.70	307.30	45.90	17.50	4.40	1.40	0.50		
7	8.40	35.60	45.90	886.40	289.20	30.00	255.80	41.50	12.50	5.90	1.40	0.50		
8	6.70	23.00	35.60	189.60	1948.10	43.70	149.50	39.50	8.40	7.50	1.60	0.70		
9	6.70	20.20	67.60	41.50	726.60	35.60	113.20	37.60	5.90	7.50	1.60	0.70		
10	16.20	17.50	162.30	31.90	162.30	31.90	88.40	37.60	5.20	6.70	1.40	0.90		
11	8.40	14.90	70.50	23.00	85.30	26.50	91.50	35.60	4.40	4.40	1.60	1.10		
12	10.20	13.70	35.60	17.50	59.90	20.20	133.00	33.70	3.10	3.70	1.40	0.90		
13	18.90	11.30	28.20	20.20	98.40	23.00	184.80	31.90	2.50	3.70	1.60	0.70		
14	20.20	48.20	21.60	30.00	98.40	50.40	234.80	31.90	3.70	3.70	1.60	0.70		
15	17.50	166.50	18.90	35.60	313.30	39.50	204.30	31.90	2.50	2.50	1.60	0.70		
16	18.90	105.60	240.00	30.00	295.00	41.50	145.20	31.90	3.10	2.50	1.60	1.40		
17	14.90	52.70	209.30	21.60	199.40	1099.50	117.20	30.00	3.10	3.10	1.60	1.60		
18	10.20	37.60	149.50	70.50	125.00	815.10	128.90	28.20	3.70	3.70	1.10	1.90		
19	8.40	33.70	117.20	184.80	82.30	469.40	145.20	28.20	3.10	3.10	1.10	2.20		
20	5.20	33.70	94.70	76.30	52.70	157.90	184.80	26.50	2.50	4.40	1.10	1.60		
21	5.20	43.70	45.90	57.50	39.50	435.40	145.20	26.50	3.10	2.20	1.10	2.20		
22	5.20	24.70	31.90	50.40	43.70	835.60	137.00	26.50	3.70	1.90	0.90	2.20		
23	5.20	11.30	23.00	48.20	102.00	518.60	166.50	23.00	4.40	1.90	0.90	1.90		
24	5.20	16.20	18.90	30.00	82.30	307.30	331.50	21.60	4.40	3.10	0.70	1.90		
25	5.20	18.90	16.20	23.00	73.40	153.50	189.60	20.20	1.60	4.40	0.70	1.40		
26	5.90	79.30	14.90	23.00	113.20	319.50	113.20	20.20	3.70	4.40	0.70	1.90		
27	16.20	41.50	13.70	20.20	82.30	548.00	88.40	17.50	3.10	4.40	0.70	2.20		
28	24.70	35.60	10.20	20.20	62.30	313.30	76.30	17.50	2.50	5.20	0.70	2.50		
29	39.50	435.40	10.20	21.60	76.30	175.20	67.60	18.90	1.90	5.20		2.50		
30	33.70	845.50	8.40	21.60	85.30	133.00	62.30	18.90	1.90	2.20		2.50		
31		1214.60		17.50	94.70		59.90		2.50	1.60		3.10		
Total	395.80	3748.50	2859.80	2300.30	5601.40	7011.30	4893.90	989.00	203.10	119.40	34.70	43.10	28200.30	Ton
Mean	13.20	120.90	95.30	74.20	180.70	233.70	157.90	33.00	6.60	3.90	1.20	1.40		
Max	39.50	1214.60	927.90	886.40	1948.10	1099.50	363.10	57.50	18.90	7.50	1.60	3.10	1948.10	
Min	5.20	11.30	8.40	12.50	18.90	20.20	59.90	17.50	1.60	1.60	0.70	0.50	0.50	

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Mae Tae , Chiang Mai (P.67)

Lat 19 - 01 - 11 N Long 98 - 57 - 43 E

Location : on left bank at the bridge on highway.

	Ban Mae Tae	Amphoe San Sai	Changwat Chiang Mai
Drainage Area	5,323 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	38		
R-Square	0.9394		
Remarks	Continued Sediment Station		

$$QS = 4.5447 QW^{1.37150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	190.70	147.10	1835.30	203.70	112.40	2078.90	480.20	294.80	118.10	18.70	29.40	36.90		
2	203.70	184.40	1036.00	253.20	90.80	1095.30	394.30	284.20	118.10	21.40	23.40	41.30		
3	253.20	360.30	496.30	338.10	90.80	681.60	405.80	223.10	118.10	23.40	23.40	41.30		
4	153.20	233.00	305.50	243.00	101.40	496.30	1453.50	223.10	118.10	20.50	23.40	53.10		
5	360.30	197.10	382.90	141.20	90.80	360.30	1231.00	273.80	101.40	18.70	21.40	106.90		
6	433.00	253.20	578.50	417.50	85.50	316.20	900.70	284.20	90.80	18.70	20.50	82.10		
7	448.50	316.20	561.60	1328.60	118.10	338.10	863.00	263.40	90.80	20.50	21.40	72.10		
8	464.20	253.20	561.60	863.00	213.30	5047.80	512.40	253.20	101.40	15.10	17.70	72.10		
9	464.20	223.10	664.00	464.20	253.20	2552.10	382.90	243.00	141.20	13.40	11.00	75.40		
10	464.20	129.50	417.50	316.20	184.40	1135.40	327.10	243.00	141.20	10.20	7.90	72.10		
11	464.20	112.40	233.00	338.10	123.80	561.60	394.30	233.00	135.20	10.20	11.80	75.40		
12	349.10	106.90	223.10	294.80	106.90	394.30	405.80	223.10	135.20	7.90	10.20	65.50		
13	349.10	118.10	203.70	294.80	112.40	305.50	360.30	213.30	129.50	6.50	8.70	65.50		
14	338.10	197.10	294.80	316.20	153.20	382.90	338.10	203.70	123.80	6.50	8.70	62.40		
15	338.10	789.10	327.10	405.80	273.80	464.20	305.50	197.10	72.10	5.80	8.70	65.50		
16	349.10	1581.30	294.80	371.50	233.00	433.00	545.20	165.50	65.50	6.50	8.70	62.40		
17	305.50	629.60	349.10	284.20	165.50	1555.50	382.90	129.50	48.30	5.80	10.20	62.40		
18	294.80	360.30	349.10	284.20	147.10	7029.90	371.50	203.70	50.60	5.80	11.00	72.10		
19	448.50	349.10	480.20	305.50	171.60	5106.20	512.40	213.30	50.60	6.50	10.20	72.10		
20	349.10	253.20	512.40	349.10	223.10	2440.60	545.20	178.00	56.10	6.50	10.20	82.10		
21	316.20	360.30	203.70	327.10	159.20	1115.40	561.60	184.40	50.60	9.40	10.20	90.80		
22	338.10	316.20	141.20	273.80	129.50	825.80	545.20	190.70	48.30	11.00	11.00	90.80		
23	349.10	253.20	129.50	190.70	433.00	1767.20	405.80	197.10	43.60	11.80	17.70	90.80		
24	327.10	123.80	112.40	171.60	1453.50	1279.60	844.50	190.70	48.30	10.20	16.90	82.10		
25	263.40	123.80	118.10	153.20	2665.00	1075.50	938.80	203.70	41.30	9.40	30.40	78.70		
26	184.40	106.90	129.50	118.10	2294.00	734.90	528.80	171.60	25.30	10.20	34.70	75.40		
27	171.60	101.40	112.40	96.10	938.80	958.10	417.50	141.20	24.30	7.90	36.90	68.80		
28	184.40	101.40	190.70	96.10	545.20	2221.70	294.80	112.40	19.60	7.20	36.90	65.50		
29	165.50	213.30	190.70	147.10	480.20	1428.30	197.10	147.10	22.40	8.70		65.50		
30	147.10	360.30	197.10	159.20	394.30	789.10	165.50	135.20	20.50	32.50		65.50		
31		1403.20		159.20	1231.00		203.70		197.10	101.40		68.80		
Total	9467.70	10258.00	11631.80	9705.10	13774.80	44971.30	16215.40	6220.10	2547.40	468.30	492.60	2181.40	127933.90	Ton
Mean	315.60	330.90	387.70	313.10	444.30	1499.00	523.10	207.30	82.20	15.10	17.60	70.40		
Max	464.20	1581.30	1835.30	1328.60	2665.00	7029.90	1453.50	294.80	197.10	101.40	36.90	106.90	7029.90	
Min	147.10	101.40	112.40	96.10	85.50	305.50	165.50	112.40	19.60	5.80	7.90	36.90	5.80	

WATER YEAR : 2009

PING RIVER BASIN

Ping River at Ban Cho Lae , Chiang Mai (P.75)

Lat 19 - 08 - 58 N Long 99 - 00 - 43 E

Location : on left bank at the bridge on road.

	Ban Cho Lae	Amphoe Mae Teang	Changwat Chiang Mai
Drainage Area	3,088 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	2009		
Number of observation	33		
R-Square	0.8226		
Remarks	Continued Sediment Station		

$$QS = 0.4529 QW^{2.02370}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	323.10	257.20	450.80	21.40	35.90	507.90	423.50	311.50	41.80	15.70	35.90	58.60		
2	334.90	237.60	154.70	38.80	30.40	311.50	384.30	334.90	35.90	15.70	35.90	62.40		
3	554.40	247.30	71.10	48.20	38.80	247.30	359.10	154.70	35.90	14.00	35.90	62.40		
4	175.30	35.90	41.80	48.20	51.60	200.80	1091.30	148.10	25.70	14.00	30.40	66.60		
5	397.10	30.40	41.80	41.80	41.80	183.60	847.90	141.60	23.50	14.00	28.00	48.20		
6	410.20	51.60	141.60	228.10	38.80	175.30	603.60	135.40	23.50	12.30	25.70	35.90		
7	410.20	62.40	141.60	586.90	80.30	183.60	554.40	135.40	23.50	14.00	15.70	35.90		
8	410.20	62.40	100.60	384.30	154.70	192.10	359.10	123.20	23.50	21.40	23.50	35.90		
9	410.20	62.40	100.60	218.80	228.10	278.00	359.10	111.60	23.50	17.50	23.50	35.90		
10	410.20	66.60	90.20	123.20	95.30	129.20	323.10	106.00	23.50	14.00	45.00	35.90		
11	437.10	55.10	66.60	90.20	62.40	129.20	334.90	95.30	25.70	14.00	28.00	75.60		
12	586.90	55.10	55.10	85.20	48.20	90.20	410.20	90.20	21.40	14.00	14.00	247.30		
13	586.90	71.10	41.80	66.60	55.10	90.20	346.90	90.20	21.40	10.80	28.00	237.60		
14	586.90	141.60	25.70	80.30	123.20	111.60	323.10	85.20	21.40	10.80	28.00	237.60		
15	554.40	311.50	41.80	111.60	228.10	148.10	311.50	85.20	23.50	9.70	28.00	237.60		
16	554.40	300.10	35.90	71.10	135.40	161.40	346.90	75.60	23.50	8.60	33.10	237.60		
17	493.30	175.30	111.60	51.60	106.00	2212.30	288.90	71.10	23.50	7.60	30.40	267.20		
18	278.00	478.90	71.10	66.60	106.00	5727.00	278.00	66.60	19.40	8.60	28.00	267.20		
19	28.00	75.60	237.60	141.60	200.80	4366.10	300.10	62.40	19.40	9.70	30.40	141.60		
20	25.70	66.60	141.60	135.40	228.10	1425.10	359.10	48.20	17.50	10.80	28.00	51.60		
21	25.70	75.60	66.60	123.20	117.30	868.70	384.30	55.10	19.40	19.40	33.10	48.20		
22	25.70	58.60	41.80	85.20	111.60	728.10	423.50	51.60	19.40	8.60	45.00	48.20		
23	23.50	55.10	35.90	62.40	538.50	1021.80	410.20	51.60	19.40	7.60	66.60	51.60		
24	21.40	51.60	30.40	55.10	1262.40	728.10	976.80	51.60	15.70	6.60	62.40	51.60		
25	35.90	41.80	30.40	48.20	2547.40	654.90	493.30	51.60	19.40	6.60	62.40	45.00		
26	200.80	41.80	30.40	38.80	1237.20	538.50	346.90	45.00	15.70	7.60	58.60	80.30		
27	228.10	33.10	23.50	38.80	384.30	690.30	288.90	41.80	15.70	14.00	55.10	257.20		
28	247.30	28.00	21.40	45.00	311.50	1740.10	257.20	35.90	17.50	45.00	55.10	267.20		
29	237.60	51.60	17.50	183.60	237.60	889.80	218.80	35.90	17.50	33.10		278.00		
30	228.10	117.30	17.50	175.30	267.20	570.50	200.80	35.90	12.30	30.40		437.10		
31		507.90		168.30	1187.60		278.00		14.00	30.40		889.80		
Total	9241.50	3907.10	2479.00	3663.80	10291.60	25301.30	12883.70	2928.40	683.00	466.50	1013.70	4932.80	77792.40	Ton
Mean	308.00	126.00	82.60	118.20	332.00	843.40	415.60	97.60	22.00	15.00	36.20	159.10		
Max	586.90	507.90	450.80	586.90	2547.40	5727.00	1091.30	334.90	41.80	45.00	66.60	889.80	5727.00	
Min	21.40	28.00	17.50	21.40	30.40	90.20	200.80	35.90	12.30	6.60	14.00	35.90	6.60	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	Amphoe Li	Changwat Lamphun
Drainage Area	1,544 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	2009		
Number of observation	33		
R-Square	0.9530		
Remarks	Continued Sediment Station		

$$QS = 6.6050 QW^{1.09680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.50	75.90	121.60	65.20	16.00	33.00	165.10	82.50	26.80	6.60	2.70	1.60		
2	3.80	75.90	53.20	257.80	14.70	41.10	191.10	80.30	25.20	7.30	1.90	2.40		
3	3.00	171.60	19.80	274.40	19.80	60.90	1644.50	75.90	22.40	7.30	1.10	5.20		
4	3.00	113.80	33.00	136.30	16.00	37.80	2926.90	73.70	22.40	6.60	1.40	2.70		
5	2.70	39.40	29.90	42.80	14.70	36.20	902.20	75.90	21.10	6.60	2.70	1.90		
6	2.70	69.40	36.20	93.90	26.80	31.50	444.30	75.90	22.40	5.90	2.40	1.90		
7	2.70	51.50	37.80	220.60	26.80	26.80	288.00	78.00	19.80	22.40	3.00	1.60		
8	2.40	36.20	44.60	205.80	21.10	23.70	191.10	82.50	16.00	108.60	3.00	1.60		
9	2.40	23.70	58.80	235.40	17.30	56.70	126.90	71.60	21.10	126.90	2.40	1.60		
10	2.40	31.50	53.20	278.90	17.30	56.70	116.40	56.70	21.10	63.00	2.40	1.60		
11	2.40	22.40	39.40	133.20	16.00	54.90	126.90	63.00	21.10	33.00	2.40	1.60		
12	2.40	13.50	37.80	56.70	14.70	28.30	142.70	63.00	17.30	31.50	2.20	1.60		
13	37.80	49.70	39.40	13.50	14.70	28.30	113.80	60.90	16.00	29.90	2.40	1.60		
14	26.80	265.40	89.40	41.10	17.30	42.80	113.80	58.80	14.70	25.20	2.20	1.60		
15	21.10	187.80	89.40	41.10	28.30	25.20	121.60	56.70	12.30	8.80	1.90	1.60		
16	14.70	579.40	84.80	53.20	34.60	26.80	130.10	54.90	11.10	10.30	1.60	1.60		
17	10.30	1023.60	111.20	36.20	44.60	31.50	124.30	51.50	12.30	12.30	1.40	1.60		
18	5.90	381.70	283.50	14.70	34.60	41.10	133.20	51.50	12.30	12.30	1.10	1.60		
19	5.20	220.60	444.30	41.10	42.80	25.20	228.00	56.70	14.70	12.30	1.10	2.40		
20	3.80	202.20	315.40	37.80	28.30	26.80	257.80	56.70	17.30	10.30	1.40	3.20		
21	3.00	113.80	165.10	34.60	26.80	25.20	239.10	51.50	8.10	12.30	1.10	3.00		
22	2.40	46.30	80.30	37.80	21.10	23.70	235.40	42.80	3.80	12.30	1.60	2.40		
23	1.10	31.50	73.70	34.60	19.80	23.70	352.30	26.80	8.10	11.10	1.40	1.90		
24	1.60	31.50	42.80	29.90	29.90	19.80	246.60	26.80	10.30	11.10	1.60	1.90		
25	8.80	37.80	44.60	23.70	28.30	17.30	194.70	28.30	12.30	11.10	1.40	2.20		
26	209.40	37.80	39.40	23.70	33.00	56.70	155.50	28.30	9.60	10.30	1.40	1.90		
27	602.00	33.00	36.20	22.40	34.60	586.90	187.80	28.30	8.80	18.50	1.10	1.60		
28	119.00	31.50	46.30	21.10	22.40	1331.40	113.80	28.30	8.80	5.20	1.60	1.60		
29	98.50	257.80	34.60	18.50	21.10	927.30	106.00	23.70	8.80	3.20		1.60		
30	71.60	181.40	9.60	18.50	26.80	297.10	96.20	14.70	6.60	3.00		1.00		
31		142.70		18.50	26.80		89.40		6.60	3.50		0.90		
Total	1276.40	4580.30	2595.30	2563.00	757.00	4044.40	10505.50	1626.20	459.20	648.70	51.90	60.50	29168.40	Ton
Mean	42.50	147.80	86.50	82.70	24.40	134.80	338.90	54.20	14.80	20.90	1.90	2.00		
Max	602.00	1023.60	444.30	278.90	44.60	1331.40	2926.90	82.50	26.80	126.90	3.00	5.20	2926.90	
Min	1.10	13.50	9.60	13.50	14.70	17.30	89.40	14.70	3.80	3.00	1.10	0.90	0.90	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)

Lat 18 - 25 - 57 N Long 99 - 05 - 02 E

Location : on left bank at the bridge on road.

	Ban Sop Mae Sapuad	Amphoe Mae Tha	Changwat Lamphun
Drainage Area	550 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	2009		
Number of observation	33		
R-Square	0.9417		
Remarks	Continued Sediment Station		

$$QS = 3.1963 QW^{1.41980}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	3.70	4.80	6.80	3.10	5.50	24.70	20.80	3.70	0.00	0.00	0.00		
2	1.60	6.10	2.10	15.90	1.60	6.10	18.30	19.50	3.70	0.00	0.00	0.00		
3	1.60	3.70	0.90	13.00	2.60	14.90	38.00	19.50	3.10	0.00	0.00	0.00		
4	1.20	3.70	0.60	9.30	1.60	12.00	75.20	19.50	4.20	0.00	0.00	0.00		
5	1.20	2.10	0.40	13.90	1.00	9.30	38.00	18.30	3.70	0.00	0.00	0.00		
6	1.00	2.10	0.00	31.80	5.50	48.40	30.30	19.50	3.10	0.00	0.00	0.00		
7	1.00	1.60	0.30	42.90	7.60	97.00	30.30	18.30	2.60	0.00	0.00	0.00		
8	1.00	1.20	0.00	36.40	4.80	81.90	28.80	18.30	2.10	0.00	0.00	0.00		
9	1.00	1.20	0.30	34.90	3.70	56.30	26.00	17.10	2.10	0.00	0.00	0.00		
10	1.00	1.20	0.20	19.50	2.60	41.30	24.70	15.90	2.10	0.00	0.00	0.00		
11	1.00	1.60	0.40	12.00	2.10	22.10	22.10	14.90	1.60	0.00	0.00	0.00		
12	0.90	2.10	1.00	9.30	2.60	18.30	26.00	14.90	1.20	0.00	0.00	0.00		
13	0.90	3.10	0.90	52.30	2.10	15.90	20.80	13.90	1.00	0.00	0.00	0.00		
14	0.90	6.80	1.60	70.90	3.70	14.90	17.10	12.00	1.00	0.00	0.00	0.00		
15	0.90	18.30	0.70	14.90	2.60	13.90	18.30	11.10	1.00	0.00	0.00	0.00		
16	0.90	12.00	0.40	9.30	2.10	14.90	23.40	13.00	1.00	0.00	0.00	0.00		
17	0.90	10.20	0.90	7.60	3.10	54.30	30.30	12.00	0.90	0.00	0.00	0.00		
18	0.90	7.60	4.80	8.40	6.80	233.20	33.30	10.20	0.90	0.00	0.00	0.00		
19	0.90	9.30	28.80	13.00	4.20	86.40	30.30	10.20	0.90	0.00	0.00	0.00		
20	0.90	8.40	18.30	17.10	4.80	42.90	26.00	9.30	0.90	0.00	0.00	0.00		
21	0.90	5.50	12.00	15.90	3.10	31.80	26.00	9.30	0.90	0.00	0.00	0.00		
22	0.90	3.70	9.30	23.40	2.10	26.00	31.80	6.80	1.60	0.00	0.00	0.00		
23	0.90	3.10	8.40	15.90	13.00	20.80	42.90	6.10	0.40	0.00	0.00	0.00		
24	0.90	1.60	6.10	13.00	84.20	15.90	41.30	8.40	0.40	0.00	0.00	0.00		
25	0.90	0.90	4.80	10.20	39.60	15.90	54.30	6.80	0.40	0.00	0.00	0.00		
26	0.90	0.90	2.60	6.80	26.00	36.40	33.30	5.50	0.00	0.00	0.00	0.00		
27	0.90	0.60	2.10	6.80	14.90	91.60	28.80	6.80	0.00	0.00	0.00	0.00		
28	0.90	0.90	2.10	6.10	11.10	62.40	26.00	5.50	0.00	0.00	0.00	0.00		
29	1.00	9.30	2.10	4.80	9.30	39.60	24.70	4.20	0.00	0.00		0.00		
30	1.00	18.30	1.60	3.70	6.80	34.90	23.40	3.70	0.00	0.00		0.00		
31		13.00		3.10	6.10		20.80		0.00	0.00		0.00		
Total	30.50	163.80	118.50	548.90	284.40	1264.80	935.20	371.30	44.50	0.00	0.00	0.00	3761.90	Ton
Mean	1.00	5.30	4.00	17.70	9.20	42.20	30.20	12.40	1.40	0.00	0.00	0.00		
Max	1.60	18.30	28.80	70.90	84.20	233.20	75.20	20.80	4.20	0.00	0.00	0.00	233.20	
Min	0.90	0.60	0.00	3.10	1.00	5.50	17.10	3.70	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

PING RIVER BASIN

Khlong Khlung at Ban Sam Ruean , Kamphaeng Phet (P.78)

Lat 16 - 11 - 03 N Long 99 - 36 - 09 E

Location : on left bank at Ban Sam Ruean.

	Ban Sam Ruean	Amphoe Khlong Khlung	Changwat Kamphaeng Phet
Drainage Area	1,119 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	2002-2009		
Number of observation	65		
R-Square	0.9597		
Remarks	Continued Sediment Station		

$$QS = 12.1190 QW^{1.09850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.00	9.50	735.50	877.70	10.50	2481.50	486.30	102.80	2.60	0.00	0.00	0.00		
2	8.40	6.40	584.50	474.90	14.90	3209.80	1053.50	107.60	2.40	0.00	0.00	0.00		
3	7.90	10.50	481.90	155.20	12.10	2908.80	1800.70	75.90	2.30	0.00	0.00	0.00		
4	7.40	7.90	237.00	163.30	10.50	1465.00	2661.70	49.90	2.10	0.00	0.00	0.00		
5	6.90	7.40	197.50	136.30	4.30	884.40	1837.60	85.80	2.00	0.00	0.00	0.00		
6	6.40	6.90	144.40	102.80	1.20	890.80	1465.00	59.40	1.80	0.00	0.00	0.00		
7	6.00	6.40	125.50	79.20	10.50	832.30	1039.20	22.10	1.60	0.00	0.00	0.00		
8	5.70	6.00	43.50	149.70	6.40	579.00	579.00	13.60	1.50	0.00	0.00	0.00		
9	5.20	5.20	17.80	181.50	2.10	1068.80	463.40	61.10	1.30	0.00	0.00	0.00		
10	4.70	4.30	10.00	220.00	0.90	793.50	191.00	42.00	1.20	0.00	0.00	0.00		
11	4.30	10.50	7.40	172.00	0.80	488.90	147.00	56.30	1.00	0.00	0.00	0.00		
12	3.80	7.90	9.00	149.70	0.70	191.00	120.30	48.30	0.90	0.00	0.00	0.00		
13	3.50	9.50	25.10	144.40	0.60	163.30	563.00	43.50	0.80	0.00	0.00	0.00		
14	3.00	240.80	25.10	12.10	0.50	203.90	1573.00	11.60	0.70	0.00	0.00	0.00		
15	2.60	451.10	32.70	10.00	0.40	181.50	1498.20	9.50	0.60	0.00	0.00	0.00		
16	2.40	467.80	28.20	9.50	0.40	200.80	1010.50	7.90	0.50	0.00	0.00	0.00		
17	2.30	226.60	138.90	9.00	1.00	207.10	600.50	7.90	0.40	0.00	0.00	0.00		
18	2.10	207.10	138.90	8.40	9.50	691.40	484.50	7.40	0.30	0.00	0.00	0.00		
19	2.00	256.50	252.70	7.90	157.90	1374.40	478.40	6.90	0.20	0.00	0.00	0.00		
20	1.80	157.90	178.30	8.40	160.60	1456.80	452.00	6.40	0.10	0.00	0.00	0.00		
21	1.60	62.80	184.70	28.20	157.90	858.20	248.70	6.40	0.00	0.00	0.00	0.00		
22	1.50	31.10	197.50	59.40	122.90	473.90	220.00	6.00	0.00	0.00	0.00	0.00		
23	1.30	25.10	233.00	144.40	80.70	451.10	520.70	6.00	0.00	0.00	0.00	0.00		
24	1.20	20.70	459.00	256.50	216.80	452.00	595.10	5.70	0.00	0.00	0.00	0.00		
25	1.00	17.80	152.40	264.40	484.50	213.70	472.30	5.20	0.00	0.00	0.00	0.00		
26	2.40	32.70	163.30	178.30	453.60	464.30	469.50	4.70	0.00	0.00	0.00	0.00		
27	6.40	22.10	467.80	75.90	166.10	988.90	475.80	4.30	0.00	0.00	0.00	0.00		
28	9.50	14.90	552.50	25.10	87.40	1465.00	453.60	3.80	0.00	0.00	0.00	0.00		
29	8.40	11.60	481.90	14.90	53.00	890.80	229.70	3.50	0.00	0.00		0.00		
30	16.30	42.00	845.30	12.10	1068.80	568.50	207.10	3.00	0.00	0.00		0.00		
31		187.80		11.10	1300.50		157.90		0.00	0.00		0.00		
Total	145.00	2574.80	7151.30	4142.30	4598.00	27099.40	22555.20	874.50	24.30	0.00	0.00	0.00	69164.80	Ton
Mean	4.80	83.10	238.40	133.60	148.30	903.30	727.60	29.20	0.80	0.00	0.00	0.00		
Max	16.30	467.80	845.30	877.70	1300.50	3209.80	2661.70	107.60	2.60	0.00	0.00	0.00	3209.80	
Min	1.00	4.30	7.40	7.90	0.40	163.30	120.30	3.00	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Kuang at Ban Mae Wan , Chiang Mai (P.79)

Lat 18 - 57 - 45 N Long 99 - 14 - 31 E

Location : on left bank at the bridge on road.

	Ban Mae Wan	Amphoe Doi Saket	Changwat Chiang Mai
Drainage Area	136 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	2009		
Number of observation	36		
R-Square	0.9530		
Remarks	Continued Sediment Station		

$$QS = 6.6050 QW^{1.09680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	3.20	9.00	5.50	6.00	13.20	10.80	7.00	3.20	1.70	1.10	0.50		
2	3.80	2.90	7.00	5.00	9.00	13.80	11.40	7.00	3.20	1.70	1.10	0.50		
3	3.60	7.00	5.50	5.00	13.20	13.80	20.40	7.00	3.20	1.70	1.10	0.50		
4	3.20	6.50	5.50	5.00	8.00	10.80	22.80	6.50	3.20	1.70	1.10	0.50		
5	2.90	4.50	6.50	7.50	7.00	10.20	21.20	6.50	2.90	1.70	1.00	0.50		
6	2.90	4.10	6.50	23.70	6.50	9.60	22.00	6.00	2.90	1.70	1.00	0.40		
7	2.90	3.60	7.50	26.30	7.50	10.20	18.00	5.50	2.90	2.30	1.00	0.40		
8	2.90	3.20	9.00	12.60	7.00	11.40	13.80	5.50	2.90	2.30	1.00	0.40		
9	2.90	3.60	10.20	9.60	6.50	12.60	13.80	5.50	2.90	1.70	0.80	0.40		
10	2.60	4.10	10.20	8.50	6.00	11.40	12.00	5.50	2.90	1.70	0.80	0.40		
11	2.60	4.10	10.80	7.50	6.00	12.60	13.20	5.00	2.60	1.70	0.80	0.40		
12	2.60	4.50	10.20	7.00	6.50	10.20	13.80	5.00	2.90	1.40	0.80	0.40		
13	2.60	5.00	6.00	8.00	7.50	10.80	12.60	4.50	2.60	1.40	0.80	0.40		
14	2.60	6.00	7.00	8.50	7.00	48.60	12.00	4.50	2.60	1.40	0.80	0.40		
15	2.90	8.00	9.60	8.00	7.00	26.30	11.40	4.10	2.60	1.40	0.80	0.40		
16	3.20	6.00	8.50	7.50	6.50	47.20	10.20	4.10	2.60	1.40	0.60	0.40		
17	2.90	7.50	15.70	7.00	8.50	302.20	9.60	3.80	2.60	1.40	0.60	0.40		
18	3.20	6.00	13.20	7.00	10.20	109.00	12.00	3.60	2.60	1.40	0.60	0.40		
19	2.90	5.00	9.00	7.00	8.00	27.70	14.40	3.60	2.90	1.40	0.60	1.30		
20	2.90	5.00	7.50	7.50	8.00	15.70	15.10	3.60	2.60	1.40	0.60	1.70		
21	2.60	4.50	7.00	8.00	8.50	15.10	14.40	3.60	2.30	1.40	0.60	0.60		
22	2.30	4.50	7.00	10.80	7.00	94.60	13.80	3.60	2.30	1.30	0.60	0.50		
23	2.00	4.50	6.50	8.00	11.40	29.10	13.20	3.60	2.30	1.30	0.60	0.50		
24	1.70	6.50	6.50	7.50	9.60	22.80	12.60	3.80	2.00	1.30	0.60	0.50		
25	1.40	6.00	5.50	6.50	9.60	15.70	12.00	3.60	2.00	1.40	0.60	0.50		
26	3.80	4.50	5.00	6.50	8.50	17.30	11.40	3.60	2.00	2.00	0.80	0.50		
27	4.10	3.20	4.50	6.00	10.80	22.00	10.20	3.60	2.00	1.40	0.50	0.40		
28	3.20	2.30	5.00	5.50	11.40	16.50	9.60	3.60	1.70	1.40	0.50	0.40		
29	4.10	7.50	4.50	5.00	11.40	14.40	8.50	3.60	1.70	1.40		0.40		
30	3.60	7.50	4.50	5.50	10.80	13.20	8.00	3.20	1.70	1.30		0.40		
31		13.20		6.50	15.70		7.50		1.70	1.10		0.40		
Total	88.10	164.00	230.40	259.50	266.60	988.00	411.70	139.60	78.50	47.80	21.80	15.80	2711.80	Ton
Mean	2.90	5.30	7.70	8.40	8.60	32.90	13.30	4.70	2.50	1.50	0.80	0.50		
Max	4.10	13.20	15.70	26.30	15.70	302.20	22.80	7.00	3.20	2.30	1.10	1.70	302.20	
Min	1.40	2.30	4.50	5.00	6.00	9.60	7.50	3.20	1.70	1.10	0.50	0.40	0.40	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Wang at Ban Mae Win , Chiang Mai (P.82)

Lat 18 - 39 - 08 N Long 98 - 41 - 26 E

Location : on left bank at Ban Mae Win.

	Ban Mae Win	Amphoe Mae Wang	Changwat Chiang Mai
Drainage Area	389 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	32		
R-Square	0.7344		
Remarks	Continued Sediment Station		

$$QS = 1.0196 QW^{1.97210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	4.40	36.10	5.80	10.00	232.70	173.80	91.70	29.50	14.00	7.40	3.20		
2	2.20	5.10	14.00	10.00	7.40	97.90	378.10	85.70	29.50	14.00	6.60	3.20		
3	1.70	3.20	5.80	18.50	10.00	74.30	1163.10	74.30	29.50	11.90	6.60	3.20		
4	1.70	8.30	5.80	11.90	6.60	74.30	644.70	74.30	29.50	11.90	5.80	3.20		
5	1.70	5.10	10.00	32.70	4.40	117.70	463.70	74.30	29.50	11.90	5.80	3.20		
6	1.70	16.20	43.40	104.30	4.40	79.90	254.60	74.30	26.50	21.00	5.80	3.20		
7	2.60	10.00	43.40	69.40	16.20	69.40	202.20	69.40	26.50	26.50	5.80	3.20		
8	2.20	4.40	39.70	29.50	11.90	202.20	192.50	64.60	26.50	26.50	5.80	2.60		
9	2.20	2.20	55.70	29.50	7.40	243.70	173.80	60.10	26.50	18.50	5.80	2.20		
10	2.20	2.20	43.40	18.50	5.80	147.50	156.10	60.10	26.50	16.20	5.10	2.20		
11	3.20	8.30	21.00	8.30	10.00	110.90	301.10	60.10	23.70	16.20	4.40	2.20		
12	3.80	10.00	26.50	6.60	7.40	91.70	254.60	60.10	23.70	14.00	4.40	2.20		
13	3.80	4.40	21.00	11.90	10.00	202.20	173.80	55.70	21.00	11.90	3.80	2.20		
14	3.20	69.40	23.70	36.10	6.60	265.70	164.80	51.40	21.00	11.90	3.80	2.20		
15	3.20	622.20	14.00	16.20	4.40	288.90	139.20	51.40	21.00	11.90	3.20	1.70		
16	3.20	147.50	815.50	8.30	4.40	131.90	192.50	47.30	18.50	10.00	3.20	2.20		
17	2.20	60.10	183.00	26.50	16.20	147.50	288.90	43.40	18.50	10.00	3.20	2.20		
18	1.70	39.70	79.90	29.50	11.90	325.80	364.50	43.40	18.50	10.00	3.20	3.20		
19	1.70	32.70	64.60	26.50	7.40	156.10	419.60	47.30	18.50	10.00	4.40	14.00		
20	1.70	18.50	43.40	11.90	5.80	97.90	232.70	43.40	18.50	10.00	4.40	8.30		
21	1.70	51.40	16.20	14.00	5.80	79.90	192.50	43.40	21.00	10.00	4.40	4.40		
22	1.40	11.90	11.90	11.90	36.10	104.30	192.50	43.40	21.00	10.00	4.40	3.20		
23	1.10	5.80	10.00	39.70	212.20	104.30	164.80	43.40	18.50	10.00	3.80	2.60		
24	0.80	5.10	51.40	16.20	1330.20	110.90	173.80	39.70	18.50	10.00	3.80	1.70		
25	0.80	8.30	21.00	10.00	1007.10	173.80	183.00	39.70	18.50	10.00	3.20	1.40		
26	85.70	4.40	8.30	11.90	222.30	1037.50	147.50	36.10	16.20	11.90	3.20	1.40		
27	26.50	3.20	5.80	18.50	131.90	2455.20	124.70	36.10	16.20	10.00	3.20	1.40		
28	7.40	2.60	3.80	14.00	110.90	1435.80	110.90	36.10	16.20	10.00	3.20	1.70		
29	10.00	23.70	3.20	10.00	74.30	351.50	104.30	32.70	16.20	8.30		2.20		
30	5.80	32.70	3.20	10.00	55.70	212.20	97.90	32.70	16.20	7.40		2.20		
31		69.40		11.90	139.20		91.70		14.00	7.40		2.20		
Total	190.30	1292.40	1724.70	680.00	3493.90	9223.60	7917.90	1615.60	675.40	393.30	127.70	94.20	27429.00	Ton
Mean	6.30	41.70	57.50	21.90	112.70	307.50	255.40	53.90	21.80	12.70	4.60	3.00		
Max	85.70	622.20	815.50	104.30	1330.20	2455.20	1163.10	91.70	29.50	26.50	7.40	14.00	2455.20	
Min	0.80	2.20	3.20	5.80	4.40	69.40	91.70	32.70	14.00	7.40	3.20	1.40	0.80	

WATER YEAR : 2009

PING RIVER BASIN

Nam Mae Wang at Ban Mae Chaem , Chiang Mai (P.84)

Lat 18 - 35 - 20 N Long 98 - 47 - 59 E

Location : on left bank at Ban Mae Chaem.

	Ban Mae Chaem	Amphoe Mae Wang	Changwat Chiang Mai
Drainage Area	491 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	39		
R-Square	0.9476		
Remarks	Continued Sediment Station		

$$QS = 4.8853 QW^{1.58980}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	1.60	54.10	7.30	4.50	153.10	126.70	93.40	9.90	0.40	2.30	0.40		
2	0.40	2.50	21.60	6.50	18.10	48.00	309.70	86.60	6.50	0.90	0.30	0.20		
3	0.30	1.00	5.30	8.20	8.20	50.00	1120.80	79.90	6.10	1.00	0.30	0.30		
4	0.40	11.80	3.10	5.70	4.50	48.00	802.40	79.90	5.70	0.60	0.30	0.30		
5	0.50	3.80	11.80	11.80	2.30	52.10	647.20	79.90	7.30	0.60	0.40	0.20		
6	0.60	21.60	29.70	76.60	2.50	48.00	269.50	73.40	4.90	0.60	0.40	0.10		
7	0.40	5.30	48.00	86.60	12.80	50.00	167.80	73.40	4.10	2.80	0.70	0.10		
8	0.30	2.10	40.30	44.10	5.70	130.60	126.70	70.30	3.10	13.80	0.70	0.10		
9	0.30	1.60	67.20	40.30	3.10	130.60	134.60	67.20	3.10	9.00	0.90	0.30		
10	0.40	1.00	52.10	29.70	2.50	64.90	143.20	64.90	3.40	7.30	0.30	0.40		
11	0.90	1.20	26.70	10.80	3.40	46.00	183.40	60.50	2.50	0.90	0.50	0.40		
12	0.90	12.80	24.10	4.50	33.10	46.00	397.90	60.50	2.50	1.00	0.10	0.40		
13	0.90	2.10	22.90	5.30	26.70	58.40	173.00	56.20	2.80	3.10	0.10	0.30		
14	1.00	28.00	24.10	36.60	22.90	188.50	153.10	54.10	2.50	3.80	0.30	0.30		
15	1.00	802.40	17.00	18.10	13.80	70.30	130.60	52.10	1.80	3.40	0.10	0.30		
16	1.20	199.10	33.10	5.30	7.30	62.70	130.60	50.00	2.30	2.30	0.10	0.10		
17	0.90	79.90	134.60	5.30	12.80	73.40	221.10	50.00	1.60	2.50	0.10	0.20		
18	0.60	93.40	93.40	33.10	15.90	269.50	193.60	48.00	1.60	3.80	0.10	0.70		
19	0.50	46.00	93.40	34.80	21.60	86.60	276.10	46.00	1.60	4.10	0.10	5.30		
20	0.60	24.10	50.00	9.90	24.10	58.40	276.10	46.00	9.00	3.80	0.10	0.40		
21	0.40	67.20	36.60	6.10	12.80	54.10	210.00	42.20	10.80	3.80	0.10	0.40		
22	0.20	18.10	25.40	7.30	13.80	58.40	250.20	42.20	5.30	1.00	0.10	0.30		
23	0.20	6.50	13.80	12.80	73.40	67.20	157.80	42.20	2.30	0.50	0.40	0.20		
24	0.40	4.50	56.20	31.40	2509.10	79.90	221.10	38.40	1.80	0.40	0.70	0.20		
25	0.60	11.80	26.70	8.20	1443.00	56.20	210.00	40.30	1.40	0.90	1.20	0.20		
26	2.30	13.80	9.00	6.10	178.00	569.10	173.00	36.60	1.00	1.40	2.30	0.20		
27	33.10	8.20	5.70	13.80	83.20	1373.10	134.60	29.70	3.10	7.30	3.80	0.20		
28	6.10	11.80	3.80	13.80	67.20	1839.00	119.00	22.90	1.20	4.10	2.50	0.30		
29	2.50	40.30	1.80	8.20	50.00	352.00	100.50	14.80	0.30	2.80		0.30		
30	2.30	36.60	2.80	3.40	40.30	167.80	83.20	14.80	0.40	1.80		0.30		
31		79.90		5.70	44.10		67.20		0.30	1.60		0.40		
Total	60.80	1640.00	1034.30	597.30	4760.70	6351.90	7710.70	1616.40	110.20	91.30	19.30	13.80	24006.70	Ton
Mean	2.00	52.90	34.50	19.30	153.60	211.70	248.70	53.90	3.60	2.90	0.70	0.40		
Max	33.10	802.40	134.60	86.60	2509.10	1839.00	1120.80	93.40	10.80	13.80	3.80	5.30	2509.10	
Min	0.20	1.00	1.80	3.40	2.30	46.00	67.20	14.80	0.30	0.40	0.10	0.10	0.10	

WATER YEAR : 2009**WANG RIVER BASIN****Wang River at Ban Don Chai , Lampang (W.3A)**

Lat 17 - 38 - 28 N Long 99 - 14 - 01 E

Location : on right bank about 30 meters upstream from Siriyong Bridge.

	Ban Don Chai	Amphoe Thoen	Changwat Lampang
Drainage Area	8,924 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	32		
R-Square	0.8772		
Remarks	Continued Sediment Station		

$$QS = 0.4000 QW^{1.62060}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.20	11.30	91.70	39.00	12.10	45.00	456.10	282.30	5.60	12.10	1.60	1.20		
2	23.70	13.90	88.10	74.70	23.70	54.10	1025.50	156.60	6.10	4.70	1.20	8.10		
3	22.20	12.10	54.10	200.10	33.30	88.10	1147.00	130.70	7.10	2.70	1.20	5.20		
4	18.00	8.90	37.10	231.50	35.20	110.50	708.40	114.50	6.10	1.80	1.10	3.20		
5	19.40	18.00	28.30	165.80	37.10	65.50	647.80	134.90	9.60	1.60	1.10	2.20		
6	13.90	31.50	18.00	110.50	33.30	56.90	540.80	118.50	110.50	2.00	2.20	1.80		
7	9.60	20.80	13.00	282.30	31.50	81.00	398.00	91.70	31.50	2.00	1.40	1.60		
8	16.70	15.70	12.10	501.60	88.10	114.50	501.60	74.70	10.40	3.20	3.90	1.60		
9	19.40	15.70	12.10	456.10	156.60	175.30	419.50	51.30	5.60	11.30	4.30	1.80		
10	18.00	15.70	20.80	398.00	161.10	165.80	264.50	51.30	5.20	28.30	3.20	2.20		
11	68.50	13.90	14.80	242.30	122.50	110.50	180.20	41.00	4.30	18.00	3.00	3.90		
12	43.00	13.90	10.40	152.20	77.80	59.70	205.30	37.10	3.20	12.10	2.20	3.00		
13	54.10	14.80	10.40	143.40	81.00	102.80	306.70	35.20	3.00	13.90	1.80	3.20		
14	45.00	13.00	11.30	114.50	102.80	39.00	351.10	23.70	2.70	20.80	4.30	3.90		
15	29.90	16.70	13.00	180.20	84.50	39.00	434.00	19.40	2.20	12.10	2.50	2.70		
16	41.00	195.10	11.30	170.60	95.30	56.90	253.30	13.00	2.20	13.90	1.80	2.20		
17	33.30	143.40	35.20	99.10	65.50	122.50	288.30	11.30	2.00	19.40	1.60	2.00		
18	26.70	99.10	134.90	68.50	71.60	525.00	276.30	10.40	2.70	13.90	2.00	1.60		
19	25.20	51.30	525.00	77.80	170.60	2072.70	210.40	9.60	2.20	22.20	5.60	1.60		
20	16.70	49.20	782.50	91.70	200.10	1407.00	205.30	8.10	1.60	13.90	3.20	6.60		
21	11.30	20.80	647.80	54.10	84.50	763.70	226.10	8.10	1.60	16.70	3.00	12.10		
22	12.10	13.90	364.20	43.00	33.30	509.30	270.40	8.10	1.60	15.70	1.80	13.00		
23	11.30	12.10	195.10	37.10	33.30	338.20	264.50	7.60	1.60	10.40	8.10	12.10		
24	10.40	11.30	190.10	39.00	139.20	236.90	357.70	5.60	1.80	7.10	6.10	7.10		
25	8.90	15.70	134.90	54.10	517.20	195.10	370.90	7.60	3.00	4.70	2.20	4.70		
26	68.50	13.00	91.70	62.60	294.40	384.30	391.00	7.60	2.70	5.60	1.40	3.50		
27	39.00	8.10	65.50	31.50	165.80	899.00	270.40	7.60	2.00	3.20	1.20	3.00		
28	20.80	8.90	56.90	20.80	118.50	2208.10	185.10	7.10	2.50	3.20	1.20	2.70		
29	22.20	14.80	88.10	13.90	71.60	1344.70	165.80	7.10	8.10	2.70		2.20		
30	19.40	51.30	81.00	14.80	49.20	745.10	180.20	6.10	10.40	1.80		1.80		
31		77.80		16.70	51.30		344.60		20.80	2.00		1.80		
Total	793.40	1021.70	3839.40	4187.50	3242.00	13116.20	11846.80	1487.80	279.90	303.00	74.20	123.60	40315.50	Ton
Mean	26.40	33.00	128.00	135.10	104.60	437.20	382.20	49.60	9.00	9.80	2.60	4.00		
Max	68.50	195.10	782.50	501.60	517.20	2208.10	1147.00	282.30	110.50	28.30	8.10	13.00	2208.10	
Min	8.90	8.10	10.40	13.90	12.10	39.00	165.80	5.60	1.60	1.60	1.10	1.20	1.10	

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Wang Man , Tak (W.4A)

Lat 17 - 12 - 19 N Long 99 - 06 - 05 E

Location : on left bank about 200 meters upstream from the bridge on highway.

	Ban Wang Man	Amphoe Sam Ngao	Changwat Tak
Drainage Area	10,439 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1989-Cont'd		
Actual Measurement	1989-Cont'd		
Using Rating Curve Water Year	1989-2009		
Number of observation	382		
R-Square	0.9110		
Remarks	Continued Sediment Station		

$$QS = 1.7859 QW^{1.43780}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	75.30	119.40	422.70	246.70	103.20	193.30	3886.50	795.60	50.40	65.90	20.20	11.30		
2	75.30	95.30	395.90	215.10	82.70	193.30	3222.60	768.60	47.20	59.10	17.80	9.90		
3	70.60	62.50	313.60	201.90	53.60	172.30	10485.40	450.10	47.20	56.90	17.00	8.70		
4	60.20	68.20	260.60	308.70	50.40	193.30	13099.90	385.30	47.20	45.10	13.30	13.30		
5	38.10	68.20	233.00	411.90	100.50	237.50	12229.00	348.90	47.20	37.10	15.50	19.40		
6	35.20	60.20	237.50	380.00	108.50	206.30	8448.70	348.90	49.30	31.40	14.10	17.00		
7	50.40	65.90	219.50	333.60	108.50	166.20	5281.80	343.80	119.40	27.80	11.90	15.50		
8	46.10	72.90	197.60	433.60	103.20	189.10	3639.60	298.90	111.20	26.90	13.30	14.10		
9	41.10	61.30	163.10	804.70	142.20	224.00	2769.60	279.50	75.30	29.60	15.50	11.90		
10	49.30	58.00	148.10	906.40	242.10	260.60	2119.90	228.40	51.40	35.20	18.60	10.60		
11	53.60	58.00	142.20	795.60	270.00	333.60	1516.00	201.90	45.10	56.90	25.20	9.30		
12	56.90	55.80	154.00	523.80	246.70	265.30	1281.20	189.10	45.10	68.20	20.20	12.60		
13	65.90	54.70	127.80	364.30	197.60	219.50	1061.60	160.10	41.10	54.70	20.20	16.30		
14	92.80	60.20	108.50	308.70	180.60	215.10	1039.30	142.20	35.20	50.40	18.60	17.80		
15	125.00	61.30	82.70	308.70	215.10	160.10	1269.40	127.80	34.20	52.50	17.80	17.80		
16	142.20	148.10	95.30	318.60	215.10	127.80	1257.40	113.90	32.40	55.80	21.00	19.40		
17	127.80	768.60	108.50	333.60	237.50	130.70	1106.80	97.90	32.40	48.20	18.60	16.30		
18	97.90	411.90	260.60	279.50	233.00	219.50	1050.50	75.30	31.40	49.30	16.30	13.30		
19	85.20	354.00	680.70	215.10	219.50	582.60	1095.40	97.90	30.50	55.80	13.30	11.90		
20	75.30	274.80	1118.30	201.90	303.80	3426.00	1028.20	85.20	29.60	47.20	11.90	11.90		
21	63.60	289.10	1529.00	228.40	390.60	3551.10	915.80	72.90	29.60	51.40	16.30	12.60		
22	61.30	172.30	1451.40	180.60	294.00	1891.10	1198.90	68.20	29.60	48.20	19.40	19.40		
23	43.10	119.40	1005.90	154.00	215.10	1245.70	1341.10	63.60	30.50	45.10	17.80	32.40		
24	44.10	100.50	777.60	142.20	157.00	869.00	1129.60	80.20	22.60	42.10	14.10	33.30		
25	43.10	85.20	795.60	122.20	210.70	553.00	1118.30	62.50	19.40	37.10	14.10	32.40		
26	42.10	77.80	466.80	100.50	560.30	597.70	1129.60	48.20	17.80	33.30	24.30	28.70		
27	45.10	80.20	374.80	148.10	663.50	2617.00	1061.60	50.40	21.00	33.30	17.80	24.30		
28	95.30	75.30	274.80	127.80	401.20	7970.00	915.80	56.90	26.90	29.60	13.30	21.00		
29	75.30	160.10	237.50	97.90	298.90	9778.70	655.00	58.00	26.10	26.10		19.40		
30	100.50	260.60	233.00	82.70	251.30	6757.60	516.50	53.60	26.10	23.50		17.80		
31		374.80		75.30	180.60		411.90		26.10	23.50		15.50		
Total	2077.70	4774.60	12616.60	9352.10	7037.00	43547.00	87282.90	6153.80	1278.50	1347.20	477.40	535.10	176479.90	Ton
Mean	69.30	154.00	420.60	301.70	227.00	1451.60	2815.60	205.10	41.20	43.50	17.00	17.30		
Max	142.20	768.60	1529.00	906.40	663.50	9778.70	13099.90	795.60	119.40	68.20	25.20	33.30	13099.90	
Min	35.20	54.70	82.70	75.30	50.40	127.80	411.90	48.20	17.80	23.50	11.90	8.70	8.70	

WATER YEAR : 2009

WANG RIVER BASIN

Nam Mae Soi at Ban Nong Nao , Lampang (W.17)

Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

Location : on right at the bridge of Lampang - Wang Nua Road.

	Ban Nong Nao	Amphoe Chae Hom	Changwat Lampang
Drainage Area	726 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	32		
R-Square	0.8990		
Remarks	Continued Sediment Station		

$$QS = 2.8764 QW^{1.54200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	9.70	237.50	24.40	17.30	61.70	69.70	46.80	11.10	1.30	0.30	0.80		
2	1.40	20.70	78.00	14.10	20.70	50.30	65.60	33.40	12.60	1.30	0.30	0.70		
3	0.70	19.00	43.30	12.60	22.50	39.90	91.10	39.90	9.70	1.10	0.30	0.70		
4	0.60	19.00	20.70	30.30	30.30	61.70	357.10	30.30	11.10	1.00	0.20	0.70		
5	0.40	17.30	15.70	20.70	22.50	141.30	206.80	39.90	4.30	0.80	0.20	0.80		
6	0.40	11.10	15.70	168.30	20.70	69.70	216.90	36.60	3.60	1.00	0.20	0.70		
7	0.30	11.10	57.80	258.70	19.00	50.30	280.60	39.90	5.00	1.80	0.30	0.70		
8	0.30	8.40	39.90	73.80	27.30	54.00	82.30	33.40	6.60	9.70	0.90	0.70		
9	0.30	5.80	24.40	36.60	22.50	36.60	73.80	33.40	6.60	6.60	0.90	0.70		
10	0.30	3.60	22.50	27.30	17.30	27.30	78.00	30.30	6.60	5.00	0.80	0.70		
11	0.30	4.30	20.70	19.00	15.70	20.70	159.20	22.50	5.80	4.30	0.80	0.70		
12	14.10	4.30	9.70	15.70	22.50	27.30	100.20	20.70	6.60	3.60	0.80	0.70		
13	3.60	6.60	9.70	15.70	43.30	61.70	61.70	20.70	5.80	3.00	0.80	0.70		
14	12.60	12.60	11.10	33.40	50.30	323.90	57.80	27.30	5.80	2.40	0.80	0.70		
15	124.30	78.00	54.00	30.30	39.90	150.20	54.00	27.30	4.30	3.00	0.80	0.70		
16	43.30	177.70	27.30	17.30	43.30	100.20	50.30	20.70	1.10	1.80	0.90	0.70		
17	19.00	132.70	374.10	46.80	86.60	248.00	65.60	17.30	1.10	1.30	0.90	0.70		
18	11.10	39.90	206.80	291.80	69.70	619.80	108.00	15.70	1.80	1.00	0.90	0.70		
19	6.60	27.30	100.20	132.70	24.40	187.20	141.30	17.30	2.40	0.70	0.90	0.50		
20	3.60	20.70	46.80	46.80	17.30	78.00	237.50	20.70	5.00	0.70	0.90	0.20		
21	2.40	19.00	22.50	24.40	14.10	57.80	196.90	33.40	3.60	0.60	0.90	0.20		
22	1.30	12.60	19.00	36.60	15.70	69.70	258.70	33.40	3.60	0.70	0.80	0.10		
23	1.10	11.10	19.00	33.40	61.70	78.00	196.90	33.40	3.60	0.60	0.80	0.10		
24	1.00	12.60	15.70	24.40	46.80	108.00	206.80	11.10	2.40	0.60	0.80	0.10		
25	1.00	9.70	17.30	19.00	27.30	73.80	463.50	14.10	2.40	0.70	0.70	0.20		
26	7.50	9.70	12.60	17.30	22.50	57.80	124.30	12.60	1.80	1.00	0.70	0.10		
27	33.40	11.10	11.10	17.30	30.30	269.60	65.60	12.60	2.40	1.30	0.70	0.20		
28	12.60	11.10	9.70	20.70	27.30	168.30	54.00	11.10	3.60	1.80	0.80	0.20		
29	5.80	15.70	9.70	24.40	14.10	91.10	39.90	12.60	1.30	1.30		0.20		
30	7.50	39.90	8.40	19.00	17.30	73.80	39.90	7.50	1.30	1.80		0.20		
31		248.00		19.00	20.70		39.90		1.10	0.40		0.20		
Total	317.30	1030.30	1560.90	1571.80	930.90	3457.70	4243.90	755.90	144.00	62.20	19.10	15.30	14109.30	Ton
Mean	10.60	33.20	52.00	50.70	30.00	115.30	136.90	25.20	4.60	2.00	0.70	0.50		
Max	124.30	248.00	374.10	291.80	86.60	619.80	463.50	46.80	12.60	9.70	0.90	0.80	619.80	
Min	0.30	3.60	8.40	12.60	14.10	20.70	39.90	7.50	1.10	0.40	0.20	0.10	0.10	

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Tha Dua , Lampang (W.21)

Lat 18 - 20 - 18 N Long 99 - 32 - 27 E

Location : on left bank at the bridge on highway.

	Ban Tha Dua	Amphoe Mueang	Changwat Lampang
Drainage Area	3,367 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	1999-2009		
Number of observation	284		
R-Square	0.8887		
Remarks	Continued Sediment Station		

$$QS = 2.9702 QW^{1.37360}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	54.40	11.60	110.70	152.50	117.40	104.00	127.60	127.60	1.80	3.80	5.20	10.00		
2	35.60	10.00	58.70	167.70	117.40	127.60	134.60	91.30	1.80	3.00	6.20	9.20		
3	22.90	10.80	34.00	145.30	127.60	88.30	127.60	110.70	1.80	2.70	9.20	7.70		
4	22.90	15.10	37.20	94.30	117.40	91.30	176.30	91.30	254.00	1.80	14.20	10.80		
5	14.20	16.00	35.60	37.20	85.40	141.70	244.50	68.20	124.10	1.80	13.30	13.30		
6	30.90	22.90	35.60	259.70	79.50	138.20	180.70	124.10	19.30	4.30	16.00	20.50		
7	73.80	21.70	35.60	202.80	159.80	145.30	477.40	52.20	14.20	8.40	8.40	21.70		
8	54.40	21.70	32.40	193.90	216.50	163.40	345.00	30.90	14.20	52.20	5.20	30.90		
9	65.40	19.30	34.00	180.70	152.50	127.60	117.40	18.20	3.40	25.30	5.20	17.10		
10	88.30	18.20	35.60	117.40	110.70	97.60	85.40	12.50	2.50	13.30	3.80	19.30		
11	110.70	18.20	34.00	73.80	85.40	56.50	94.30	10.80	1.80	25.30	3.80	15.10		
12	65.40	17.10	32.40	79.50	82.40	32.40	117.40	5.70	1.80	25.30	3.00	11.60		
13	54.40	17.10	32.40	76.70	52.20	26.60	117.40	4.70	1.80	27.80	10.80	7.20		
14	54.40	21.70	34.00	148.80	50.10	20.50	114.00	3.00	1.80	27.80	6.20	5.20		
15	35.60	21.70	25.30	85.40	40.50	35.60	100.80	3.00	1.80	19.30	6.20	6.20		
16	35.60	20.50	27.80	68.20	25.30	76.70	148.80	3.00	2.00	19.30	6.20	5.70		
17	35.60	13.30	100.80	76.70	60.90	216.50	73.80	3.00	1.80	16.00	10.80	7.70		
18	45.90	11.60	892.20	249.20	52.20	592.60	58.70	2.70	4.30	11.60	16.00	10.80		
19	25.30	10.80	1004.80	76.70	25.30	761.60	60.90	2.70	2.50	11.60	16.00	22.90		
20	18.20	16.00	576.30	35.60	25.30	609.00	60.90	2.50	2.00	10.80	14.20	35.60		
21	16.00	21.70	338.80	26.60	30.90	423.00	65.40	2.30	2.50	6.20	10.00	24.10		
22	16.00	22.90	202.80	20.50	65.40	259.70	85.40	4.70	5.70	3.40	7.20	17.10		
23	15.10	37.20	141.70	16.00	249.20	211.90	114.00	6.20	5.20	3.40	6.20	10.80		
24	16.00	34.00	172.00	60.90	159.80	239.70	85.40	4.70	4.70	7.20	7.20	10.00		
25	15.10	27.80	156.10	25.30	141.70	167.70	131.10	4.30	4.70	7.20	6.70	7.20		
26	16.00	22.90	117.40	21.70	117.40	584.30	58.70	3.80	7.20	4.30	6.70	6.70		
27	16.00	35.60	124.10	20.50	88.30	650.70	54.40	3.00	14.20	3.00	8.40	7.70		
28	14.20	42.20	148.80	25.30	58.70	320.10	58.70	2.50	20.50	3.40	9.20	7.70		
29	12.50	60.90	131.10	58.70	45.90	202.80	576.30	2.30	25.30	3.00		10.80		
30	11.60	100.80	127.60	79.50	32.40	141.70	732.80	2.30	19.30	2.30		13.30		
31		145.30		110.70	30.90		148.80		7.70	3.40		21.70		
Total	1092.40	886.60	4869.80	2987.80	2804.40	6854.60	5074.50	804.20	575.70	358.20	241.50	425.60	26975.30	Ton
Mean	36.40	28.60	162.30	96.40	90.50	228.50	163.70	26.80	18.60	11.60	8.60	13.70		
Max	110.70	145.30	1004.80	259.70	249.20	761.60	732.80	127.60	254.00	52.20	16.00	35.60	1004.80	
Min	11.60	10.00	25.30	16.00	25.30	20.50	54.40	2.30	1.80	1.80	3.00	5.20	1.80	

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Chiang Rai , Tak (W.23)

Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

Location : on left bank at Amphoe Sam Ngao.

	Ban Chiang Rai	Amphoe Sam Ngao	Changwat Tak
Drainage Area	9,930 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	2001-2009		
Number of observation	160		
R-Square	0.9391		
Remarks	Continued Sediment Station		

$$QS = 0.9024 QW^{1.58470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	64.60	77.40	275.80	153.80	70.90	128.00	1230.90	472.90	32.00	50.70	6.60	0.30		
2	58.40	54.50	230.00	118.40	52.60	121.00	2064.60	318.20	29.30	36.30	5.10	0.00		
3	54.50	62.50	189.50	181.30	36.30	135.20	24632.80	258.30	30.70	24.40	5.10	10.70		
4	16.50	60.50	161.50	305.90	79.70	146.30	20081.20	230.00	32.00	15.40	3.90	12.50		
5	18.60	46.90	150.00	312.00	86.50	165.40	7093.90	208.30	30.70	10.70	2.70	8.10		
6	38.00	58.40	142.60	241.20	88.80	121.00	2899.50	241.20	56.50	8.10	2.70	5.80		
7	33.30	73.00	121.00	252.50	81.90	128.00	1695.60	189.50	131.60	10.70	5.10	3.90		
8	24.40	60.50	100.70	472.90	86.50	153.80	1076.70	189.50	70.90	13.40	5.80	2.20		
9	32.00	50.70	95.90	585.40	173.30	177.30	1063.10	150.00	41.50	17.50	11.60	1.70		
10	39.80	48.80	91.10	554.60	219.10	258.30	690.00	124.50	28.10	39.80	13.40	1.70		
11	45.10	45.10	108.20	444.40	224.50	224.50	554.60	128.00	26.80	62.50	10.70	3.30		
12	98.30	41.50	95.90	299.70	169.30	165.40	562.20	108.20	22.00	48.80	11.60	8.10		
13	91.10	45.10	75.20	208.30	142.60	150.00	480.10	88.80	18.60	39.80	7.30	10.70		
14	95.90	54.50	70.90	230.00	157.70	146.30	621.70	81.90	16.50	39.80	5.10	9.80		
15	115.80	46.90	68.70	219.10	169.30	103.20	720.00	75.20	15.40	54.50	12.50	11.60		
16	84.20	362.90	66.60	269.90	173.30	95.90	690.00	62.50	15.40	36.30	9.80	8.90		
17	86.50	337.10	84.20	230.00	173.30	121.00	562.20	56.50	14.40	39.80	3.90	3.90		
18	73.00	208.30	287.70	165.40	165.40	241.20	631.30	60.50	15.40	46.90	2.20	3.30		
19	66.60	161.50	546.90	142.60	213.70	956.40	699.90	58.40	14.40	38.00	1.70	2.20		
20	60.50	173.30	879.10	165.40	312.00	3594.10	602.70	50.70	13.40	48.80	8.10	2.20		
21	45.10	121.00	1009.20	150.00	264.00	1640.50	612.20	45.10	13.40	38.00	8.90	14.40		
22	34.70	81.90	760.80	118.40	208.30	904.60	710.00	45.10	14.40	36.30	7.30	39.80		
23	33.30	62.50	444.40	105.70	100.70	602.70	680.10	43.30	3.90	32.00	3.30	34.70		
24	29.30	56.50	494.70	165.40	118.40	437.40	660.40	64.60	2.70	24.40	8.90	32.00		
25	26.80	52.60	376.00	66.60	312.00	337.10	680.10	25.60	0.90	18.60	18.60	25.60		
26	28.10	60.50	312.00	138.90	546.90	546.90	670.20	24.40	8.10	15.40	8.90	17.50		
27	86.50	48.80	213.70	113.20	362.90	2480.90	631.30	36.30	12.50	15.40	2.20	15.40		
28	64.60	64.60	157.70	81.90	235.60	12595.90	531.80	38.00	10.70	12.50	0.60	9.80		
29	79.70	135.20	150.00	66.60	189.50	8105.30	402.90	36.30	10.70	10.70		7.30		
30	150.00	157.70	177.30	58.40	142.60	2950.30	269.90	34.70	26.80	9.80		4.50		
31		293.70		103.20	131.60		389.40		33.30	7.30		2.70		
Total	1775.20	3204.40	7937.30	6721.10	5489.20	37933.90	74891.30	3546.50	793.00	902.60	193.60	314.60	143702.70	Ton
Mean	59.20	103.40	264.60	216.80	177.10	1264.50	2415.80	118.20	25.60	29.10	6.90	10.10		
Max	150.00	362.90	1009.20	585.40	546.90	12595.90	24632.80	472.90	131.60	62.50	18.60	39.80	24632.80	
Min	16.50	41.50	66.60	58.40	36.30	95.90	269.90	24.40	0.90	7.30	0.60	0.00	0.00	

WATER YEAR : 2009

WANG RIVER BASIN

Wang River at Ban Huai Kod , Lampang (W.25)

Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on right bank at Ban Huai Kod.

	Ban Huai Kod	Amphoe Wang Nua	Changwat Lampang
Drainage Area	762 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	29		
R-Square	0.7706		
Remarks	Continued Sediment Station		

$$QS = 1.2238 QW^{1.47340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.10	132.20	1.00	1.00	8.70	22.50	5.00	3.70	0.30	0.40	0.20		
2	0.40	0.10	69.10	1.00	1.20	10.10	19.90	3.40	3.40	0.30	0.40	0.20		
3	0.30	0.80	48.10	1.00	1.80	12.10	25.30	5.00	3.40	0.40	0.30	0.20		
4	0.30	5.00	44.60	1.00	2.00	14.20	145.40	7.40	3.40	0.40	0.30	0.20		
5	0.30	1.60	41.10	1.10	1.60	32.90	62.30	6.80	3.40	0.40	0.30	0.20		
6	0.30	1.60	39.40	60.10	1.60	16.40	262.40	7.40	3.20	0.40	0.20	0.20		
7	0.30	2.20	37.70	142.10	1.50	8.70	83.40	8.10	2.00	0.50	0.20	0.10		
8	0.20	1.20	31.40	57.90	3.20	57.90	39.40	7.40	1.00	0.70	0.20	0.10		
9	0.20	0.80	31.40	31.40	4.40	26.80	25.30	8.10	0.80	1.10	0.20	0.10		
10	0.10	9.40	125.80	28.30	2.40	14.20	22.50	8.10	0.80	0.70	0.20	0.10		
11	0.10	0.80	36.10	19.90	3.70	8.70	26.80	8.10	0.80	0.60	0.20	0.10		
12	0.10	0.40	21.10	8.70	4.40	10.10	25.30	6.80	0.70	0.50	0.20	0.10		
13	0.10	2.20	8.10	1.20	3.40	12.10	18.70	6.20	0.60	0.30	0.20	0.10		
14	0.10	0.70	18.70	1.10	4.40	14.20	17.50	6.80	0.60	0.30	0.20	0.10		
15	0.20	5.00	23.90	1.20	389.70	32.90	17.50	6.20	0.60	0.30	0.30	0.10		
16	0.20	3.20	32.90	1.20	51.70	16.40	13.10	5.00	0.20	0.20	0.30	0.20		
17	0.20	1.80	189.50	2.40	34.50	8.70	11.10	6.80	0.20	0.30	0.30	0.20		
18	0.20	1.20	66.80	5.60	31.40	57.90	11.10	6.80	0.20	0.30	0.30	0.20		
19	0.20	2.70	34.50	39.40	14.20	26.80	32.90	6.20	0.20	0.30	0.30	0.20		
20	0.10	2.70	29.80	6.20	8.10	14.20	26.80	6.20	0.20	0.30	0.30	0.20		
21	0.10	2.90	18.70	3.90	6.80	22.50	18.70	5.60	0.20	0.20	0.30	0.20		
22	0.10	2.00	11.10	3.40	8.10	73.80	28.30	5.60	0.20	0.20	0.30	0.20		
23	0.10	0.50	5.00	6.20	64.50	169.80	19.90	5.00	0.20	0.20	0.20	0.20		
24	0.10	0.40	3.20	4.40	31.40	122.60	19.90	5.00	0.20	0.20	0.20	0.20		
25	0.10	0.40	1.10	3.20	19.90	51.70	21.10	5.00	0.20	0.20	0.20	0.20		
26	0.10	0.30	1.10	3.40	15.30	36.10	17.50	5.00	0.20	0.30	0.20	0.20		
27	0.10	0.20	1.00	2.40	8.10	193.50	13.10	5.00	0.20	0.40	0.20	0.20		
28	0.10	2.00	1.00	5.00	9.40	85.80	12.10	5.00	0.20	0.70	0.20	0.20		
29	0.10	39.40	1.00	1.10	8.10	46.30	8.10	5.00	0.20	0.70		0.20		
30	0.10	90.80	1.00	6.20	6.20	26.80	6.80	5.00	0.20	0.40		0.20		
31		577.20		1.30	7.40		6.20		0.30	0.40		0.20		
Total	5.00	759.60	1106.40	452.30	751.40	1232.90	1080.90	183.00	31.70	12.50	7.10	5.30	5628.10	Ton
Mean	0.20	24.50	36.90	14.60	24.20	41.10	34.90	6.10	1.00	0.40	0.30	0.20		
Max	0.40	577.20	189.50	142.10	389.70	193.50	262.40	8.10	3.70	1.10	0.40	0.20	577.20	
Min	0.10	0.10	1.00	1.00	1.00	8.70	6.20	3.40	0.20	0.20	0.20	0.10	0.10	

WATER YEAR : 2009**Yom RIVER BASIN****Yom River at Ban Nam Khong , Phrae (Y.1C)**

Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	Ban Nam Khong	Amphoe Mueang	Changwat Phrae
Drainage Area	7,749 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	1997-2009		
Number of observation	352		
R-Square	0.9334		
Remarks	Continued Sediment Station		

$$QS = 1.8306 QW^{1.49640}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	35.10	2.70	867.80	71.70	792.80	1340.30	1024.40	212.80	15.70	0.00	0.00	1.80		
2	83.10	127.00	570.70	127.00	416.60	4411.30	676.70	168.10	7.60	0.00	0.00	1.60		
3	95.00	49.00	352.10	268.00	256.60	4338.90	615.40	143.00	3.00	0.00	0.00	1.80		
4	147.70	101.10	234.40	203.60	194.50	1881.90	906.10	127.00	4.40	0.00	0.00	2.70		
5	83.10	470.70	268.00	256.60	212.80	1429.20	1147.40	134.90	6.80	0.00	0.00	3.70		
6	45.80	134.90	615.40	1340.30	256.60	1566.10	2104.80	159.60	6.80	0.00	0.00	4.40		
7	24.10	49.00	708.10	1746.90	390.30	1085.30	3983.20	168.10	3.70	0.00	0.00	4.00		
8	9.50	134.90	443.40	3637.80	470.70	925.50	2852.50	134.90	1.80	0.30	0.00	4.00		
9	3.00	36.60	470.70	2605.10	390.30	811.30	1024.40	134.90	1.10	4.40	0.00	4.00		
10	7.60	83.10	390.30	1064.90	327.30	1044.60	661.20	134.90	0.30	1.30	0.00	4.00		
11	12.40	59.10	185.50	512.80	256.60	740.00	886.90	134.90	0.30	1.60	0.00	3.70		
12	11.40	8.50	1168.30	364.70	223.50	756.10	585.40	168.10	0.30	0.10	0.00	3.70		
13	11.40	36.60	867.80	377.40	352.10	1085.30	676.70	168.10	0.00	0.00	0.00	3.70		
14	10.40	22.80	279.50	364.70	429.90	708.10	708.10	168.10	0.00	0.00	0.00	3.70		
15	13.50	13.50	203.60	352.10	339.60	811.30	600.30	151.20	0.00	0.00	0.00	3.70		
16	14.60	42.70	151.20	268.00	541.50	1520.00	1004.40	151.20	0.00	0.00	0.00	3.70		
17	13.50	303.10	134.90	223.50	2544.40	3302.90	1147.40	203.60	0.00	0.00	0.00	3.70		
18	21.60	151.20	470.70	303.10	4778.90	5739.50	867.80	159.60	0.20	0.00	0.00	3.40		
19	11.40	159.60	708.10	443.40	2248.30	8530.70	645.80	120.40	0.00	0.00	0.00	3.40		
20	5.20	127.00	774.40	645.80	1105.90	4667.60	512.80	113.80	0.00	0.00	0.30	3.40		
21	4.40	120.40	457.00	600.30	556.00	2424.50	724.00	101.10	0.00	0.00	0.90	3.40		
22	1.10	176.70	203.60	556.00	2394.80	1451.80	1044.60	95.00	0.00	0.00	1.30	3.40		
23	0.50	256.60	168.10	429.90	4267.00	2635.60	1231.90	71.70	0.10	0.00	3.00	3.00		
24	0.10	143.00	151.20	364.70	4484.00	5271.10	1168.30	77.30	0.20	0.00	4.00	3.00		
25	2.10	89.00	143.00	256.60	2190.50	4741.70	1044.60	83.10	0.00	0.00	3.70	2.70		
26	0.60	59.10	83.10	203.60	1800.50	3948.20	2104.80	77.30	0.00	0.00	3.70	3.00		
27	0.10	45.80	62.60	176.70	1451.80	4928.60	867.80	59.10	0.00	0.00	3.40	3.00		
28	0.20	33.70	71.70	151.20	1064.90	5425.80	512.80	36.60	0.00	0.00	2.70	3.40		
29	1.60	7.60	55.70	143.00	585.40	3435.60	377.40	25.40	0.00	0.00		3.40		
30	4.80	18.00	42.70	134.90	585.40	1615.20	291.20	20.30	0.00	0.00		3.70		
31		151.20		724.00	1497.10		256.60		0.00	0.00		4.00		
Total	674.90	3214.20	11303.60	18918.30	37406.60	82574.00	32255.70	3704.10	52.30	7.70	23.00	104.10	190238.50	Ton
Mean	22.50	103.70	376.80	610.30	1206.70	2752.50	1040.50	123.50	1.70	0.20	0.80	3.40		
Max	147.70	470.70	1168.30	3637.80	4778.90	8530.70	3983.20	212.80	15.70	4.40	4.00	4.40	8530.70	
Min	0.10	2.70	42.70	71.70	194.50	708.10	256.60	20.30	0.00	0.00	0.00	1.60	0.00	

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Kaeng Luang , Sukhothai (Y.6)

Lat 17 - 26 - 05 N Long 99 - 47 - 30 E

Location : on left bank about 150 meters upstream from Kaeng Luang.

	Ban Kaeng Luang	Amphoe Si Satchanalai	Changwat Sukhothai
Drainage Area	12,769 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1963 - 1987,1997-Cont'd		
Actual Measurement	1963 - 1987,1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	24		
R-Square	0.9583		
Remarks	Continued Sediment Station		

$$QS = 2.1277 QW^{1.29870}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	39.60	34.30	148.60	572.00	213.00	1533.90	2411.00	1370.30	1122.70	178.60	21.30	3.30		
2	29.10	26.60	195.60	1292.00	348.90	1972.40	1865.30	1370.30	1111.60	99.10	21.30	2.70		
3	21.80	61.00	521.50	1257.70	649.70	2450.00	2828.20	1424.40	1029.60	35.60	21.30	2.10		
4	17.20	59.50	521.50	876.60	480.30	2727.50	2160.60	1397.30	1089.50	24.20	19.00	1.60		
5	12.90	65.50	538.20	729.60	329.00	2084.80	1751.30	1269.10	1122.70	23.00	9.60	1.10		
6	27.90	74.80	1234.90	784.00	252.00	1397.30	2009.70	1520.10	1100.60	20.60	11.60	0.90		
7	84.30	65.50	3470.70	2066.00	221.80	1189.70	2141.60	1506.40	1058.90	20.60	8.50	0.90		
8	70.10	133.40	2391.50	3641.30	296.30	1465.20	2236.90	1686.90	1111.60	26.60	12.90	0.90		
9	56.60	94.10	1356.90	3011.60	447.80	1881.80	2667.50	1303.40	1019.80	52.20	14.60	0.90		
10	45.10	62.50	971.50	3260.20	504.90	1383.80	2430.50	1397.30	981.20	100.80	15.00	0.90		
11	34.30	65.50	895.40	2627.60	423.90	1010.10	1916.70	1144.90	1089.50	153.80	15.00	0.90		
12	27.90	67.00	702.70	1783.70	329.00	952.40	1865.30	1089.50	1089.50	213.00	15.40	0.90		
13	26.60	74.80	623.50	904.80	289.90	886.00	1465.20	1257.70	1068.70	104.10	13.70	0.90		
14	20.60	73.20	867.20	895.40	322.40	971.50	1029.60	1201.00	952.40	55.10	12.00	0.60		
15	16.10	70.10	1212.30	1010.10	658.40	1451.60	1178.50	1257.70	1029.60	50.80	12.00	0.60		
16	24.20	67.00	684.90	848.60	857.90	1397.30	1492.60	1212.30	1068.70	43.70	11.60	0.60		
17	30.40	309.30	431.80	649.70	962.00	1702.90	1234.90	1269.10	1039.30	38.30	10.80	0.40		
18	27.90	199.90	1767.50	546.60	1156.10	4364.10	1561.60	1068.70	729.60	31.70	10.40	0.40		
19	26.60	170.20	5641.50	504.90	2028.40	4786.90	2103.70	1156.10	488.40	25.40	10.00	0.40		
20	27.90	166.10	4508.30	472.10	2236.90	4297.10	1654.80	1189.70	204.30	30.10	8.90	0.40		
21	27.90	133.40	2313.90	513.20	1478.90	3813.70	1623.00	1292.00	153.80	28.60	8.10	0.40		
22	31.70	118.50	1561.60	640.90	1100.60	2687.40	1654.80	1189.70	213.00	27.60	7.40	0.40		
23	36.90	104.10	1303.40	981.20	811.50	2198.70	1751.30	1144.90	283.50	26.60	6.30	0.30		
24	33.00	100.80	1269.10	914.30	1816.30	1972.40	1638.90	1234.90	369.20	25.70	6.30	0.30		
25	34.30	100.80	971.50	811.50	2450.00	2391.50	1735.10	1122.70	431.80	24.70	6.30	0.10		
26	30.40	116.10	720.60	572.00	2009.70	4097.80	1638.90	1246.30	496.70	23.70	5.60	0.10		
27	25.40	95.80	623.50	423.90	1410.80	6755.70	1865.30	1122.70	572.00	23.70	5.20	0.10		
28	18.30	102.40	546.60	329.00	1156.10	6127.20	2141.60	1133.80	667.20	22.80	4.60	0.00		
29	13.90	143.50	580.50	277.10	1000.50	4297.10	1520.10	1111.60	720.60	22.80		0.00		
30	35.60	130.90	488.40	239.60	1201.00	3323.00	1330.10	1078.50	738.60	21.30		0.00		
31		121.00		226.20	1654.80		1465.20		362.40	20.40		0.00		
Total	954.50	3207.60	39065.10	33663.40	29098.80	77570.80	56369.80	37769.30	24517.00	1595.20	324.70	23.10	304159.30	Ton
Mean	31.80	103.50	1302.20	1085.90	938.70	2585.70	1818.40	1259.00	790.90	51.50	11.60	0.70		
Max	84.30	309.30	5641.50	3641.30	2450.00	6755.70	2828.20	1686.90	1122.70	213.00	21.30	3.30	6755.70	
Min	12.90	26.60	148.60	226.20	213.00	886.00	1029.60	1068.70	153.80	20.40	4.60	0.00	0.00	

WATER YEAR : 2009**Yom RIVER BASIN****Yom River at Ban Don Rabiang , Sukhothai (Y.14)**

Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

	Ban Don Rabiang	Amphoe Si Satchanalai	Changwat Sukhothai
Drainage Area	12,100 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1964-Cont'd		
Actual Measurement	1964-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	25		
R-Square	0.9583		
Remarks	Continued Sediment Station		

$$QS = 1.0830 QW^{1.43700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	32.90	38.50	138.20	325.40	180.70	1462.10	2904.00	820.80	98.00	37.30	29.60	14.20		
2	30.70	42.00	154.80	1382.70	189.60	2442.30	2254.00	737.90	89.00	36.20	28.60	14.20		
3	29.60	44.40	185.20	1575.60	260.90	3114.90	3494.20	638.30	83.10	35.10	27.50	11.70		
4	29.60	48.00	199.10	873.90	224.20	3733.60	2050.30	318.80	80.20	40.80	27.50	4.00		
5	39.70	51.80	239.70	677.60	194.10	2678.50	1930.90	255.60	80.20	40.80	25.50	4.00		
6	38.50	51.80	293.70	555.50	189.60	1430.20	2010.30	219.10	80.20	29.60	24.50	3.50		
7	36.20	49.30	400.60	2070.40	199.10	1261.10	2110.80	194.10	77.30	29.60	23.50	2.90		
8	37.30	48.00	1051.70	5663.50	194.10	1708.40	2421.10	180.70	71.70	29.60	25.50	2.40		
9	42.00	51.80	1063.70	3600.00	189.60	2192.30	2722.10	176.30	68.90	29.60	26.50	1.90		
10	48.00	51.80	983.10	3233.90	176.30	1494.30	2337.10	163.30	66.20	53.00	25.50	1.90		
11	48.00	68.90	873.90	2316.20	229.40	1005.40	1641.60	163.30	63.50	40.80	26.50	1.10		
12	49.30	77.30	477.90	1913.50	345.40	938.90	1414.30	176.30	60.80	40.80	24.50	1.10		
13	49.30	110.50	386.60	994.20	312.20	949.90	1136.50	194.10	53.00	40.80	23.50	0.70		
14	46.80	130.10	386.60	972.00	293.70	1063.70	960.90	185.20	53.00	40.80	22.50	0.40		
15	45.60	138.20	1173.50	906.20	400.60	1827.20	1273.80	185.20	50.50	40.80	18.70	0.00		
16	44.40	146.40	748.10	884.60	1099.90	1542.90	1674.90	194.10	48.00	40.80	18.70	0.00		
17	42.00	142.30	293.70	820.80	768.70	2463.50	1235.90	194.10	45.60	40.80	18.70	0.00		
18	42.00	255.60	4005.20	707.60	852.50	11881.20	1592.00	189.60	44.40	40.80	17.70	0.00		
19	40.80	219.10	8688.90	591.20	707.60	9443.50	1526.70	176.30	42.00	40.80	17.70	0.00		
20	40.80	163.30	5837.90	379.60	677.60	11047.30	1063.70	167.60	40.80	40.80	16.00	0.00		
21	39.70	126.10	3573.40	352.20	648.00	5032.30	906.20	167.60	40.80	40.80	15.10	0.00		
22	38.50	126.10	1462.10	352.20	628.50	3186.10	841.90	163.30	40.80	38.50	15.10	1.10		
23	36.20	159.00	1173.50	1051.70	1970.50	2570.30	972.00	163.30	38.50	38.50	15.10	7.90		
24	34.00	142.30	1051.70	1112.10	2997.20	2110.80	1039.70	154.80	36.20	37.30	17.70	9.40		
25	35.10	134.10	852.50	638.30	3311.30	2857.80	1335.70	138.20	37.30	37.30	16.80	9.40		
26	35.10	118.20	667.70	469.50	2400.00	6453.40	1148.80	130.10	40.80	34.00	16.00	8.70		
27	35.10	110.50	582.20	407.70	1641.60	11671.00	994.20	126.10	39.70	19.60	16.00	8.70		
28	36.20	146.40	538.00	372.70	1320.10	8688.90	1382.70	110.50	38.50	30.70	15.10	8.70		
29	36.20	224.20	469.50	338.70	983.10	5802.90	994.20	110.50	38.50	38.50		8.70		
30	36.20	163.30	400.60	260.90	1124.30	4282.50	928.00	101.10	37.30	28.60		8.70		
31		118.20		194.10	1542.90		873.90		37.30	27.50		7.90		
Total	1175.80	3497.50	38353.30	35994.50	26253.30	116337.20	49172.40	6896.20	1722.10	1140.90	595.60	143.20	281282.00	Ton
Mean	39.20	112.80	1278.40	1161.10	846.90	3877.90	1586.20	229.90	55.60	36.80	21.30	4.60		
Max	49.30	255.60	8688.90	5663.50	3311.30	11881.20	3494.20	820.80	98.00	53.00	29.60	14.20	11881.20	
Min	29.60	38.50	138.20	194.10	176.30	938.90	841.90	101.10	36.20	19.60	15.10	0.00	0.00	

WATER YEAR : 2009

Yom RIVER BASIN

Yom River at Ban Huai Sak , Phrae (Y.20)

Lat 18 - 35 - 06 N Long 100 - 09 - 16 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

	Ban Huai Sak	Amphoe Song	Changwat Phrae
Drainage Area	5,394 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	33		
R-Square	0.9784		
Remarks	Continued Sediment Station		

$$QS = 50.1000 QW^{0.85000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	417.70	305.80	1103.20	453.70	489.30	2923.50	1201.20	745.70	371.80	183.30	212.70	58.50		
2	576.30	297.50	754.40	630.60	435.70	3283.40	1090.80	710.60	353.20	183.30	190.70	64.70		
3	390.30	585.40	594.50	612.60	684.10	2010.70	1003.70	684.10	334.40	175.80	168.30	58.50		
4	246.30	861.30	515.60	524.40	773.90	2050.60	1237.50	657.50	324.90	183.30	145.30	58.50		
5	212.70	408.60	871.60	567.70	630.60	1930.50	1591.90	675.30	324.90	175.80	131.10	52.20		
6	190.70	371.80	841.40	1297.70	541.80	1649.60	2390.90	630.60	315.40	168.30	123.80	52.20		
7	175.80	362.50	657.50	3053.90	585.40	1533.90	2792.10	603.50	297.50	168.30	116.50	45.80		
8	175.80	334.40	666.40	2615.20	745.70	1580.30	1440.30	621.60	289.00	435.70	109.20	45.80		
9	145.30	272.10	612.60	1661.00	728.20	1487.20	1237.50	603.50	280.60	280.60	116.50	45.80		
10	145.30	237.50	648.50	1213.30	675.30	1189.00	1041.20	603.50	289.00	280.60	101.70	45.80		
11	131.10	212.70	1463.80	965.90	594.50	1237.50	1127.80	585.40	272.10	272.10	101.70	45.80		
12	116.50	198.10	1498.90	793.30	559.10	1028.70	1297.70	567.70	263.50	254.90	94.10	45.80		
13	145.30	168.30	657.50	737.00	892.10	1152.40	1416.70	559.10	237.50	228.80	78.70	45.80		
14	175.80	220.00	515.60	675.30	1176.80	1404.90	1176.80	541.80	198.10	205.40	78.70	39.20		
15	289.00	480.40	462.60	892.10	1768.30	1510.60	1066.10	533.10	228.80	183.30	86.50	39.20		
16	254.90	399.40	480.40	892.10	1970.70	1237.50	1041.20	541.80	220.00	175.80	78.70	32.50		
17	254.90	471.50	541.80	745.70	2850.70	2762.80	1127.80	533.10	220.00	160.70	70.70	32.50		
18	246.30	444.70	902.40	1016.20	2406.00	4307.10	1078.50	533.10	220.00	145.30	70.70	32.50		
19	212.70	435.70	1285.70	1591.90	1768.30	3326.10	953.30	515.60	220.00	145.30	70.70	25.40		
20	175.80	426.70	912.60	1522.30	1201.20	2406.00	1127.80	541.80	228.80	138.20	78.70	25.40		
21	131.10	666.40	675.30	1003.70	943.10	1836.20	1487.20	489.30	220.00	131.10	70.70	18.00		
22	116.50	612.60	541.80	841.40	1369.30	2345.60	1700.00	453.70	220.00	123.80	70.70	18.00		
23	145.30	435.70	480.40	822.20	3154.70	3789.70	1557.20	453.70	212.70	131.10	70.70	32.50		
24	175.80	334.40	435.70	754.40	2143.20	3664.30	1557.20	444.70	205.40	138.20	64.70	39.20		
25	289.00	289.00	417.70	621.60	2130.00	2130.00	2390.90	435.70	198.10	138.20	58.50	39.20		
26	254.90	263.50	453.70	550.40	2195.70	1970.70	1649.60	426.70	190.70	145.30	52.20	45.80		
27	254.90	263.50	381.00	498.10	1603.50	2938.10	1189.00	417.70	183.30	237.50	52.20	52.20		
28	246.30	237.50	353.20	471.50	1649.60	2451.10	1028.70	408.60	175.80	343.80	52.20	45.80		
29	212.70	719.40	324.90	621.60	1140.10	1822.70	933.00	399.40	168.30	371.80		39.20		
30	175.80	1053.60	334.40	498.10	943.10	1416.70	841.40	381.00	183.30	297.50		45.80		
31		1164.60		515.60	1498.90		793.30		183.30	237.50		45.80		
Total	6680.80	13534.60	20385.10	29660.50	40248.90	64377.40	41568.30	16298.90	7630.40	6440.60	2716.90	1313.40	250855.80	Ton
Mean	222.70	436.60	679.50	956.80	1298.40	2145.90	1340.90	543.30	246.10	207.80	97.00	42.40		
Max	576.30	1164.60	1498.90	3053.90	3154.70	4307.10	2792.10	745.70	371.80	435.70	212.70	64.70	4307.10	
Min	116.50	168.30	324.90	453.70	435.70	1028.70	793.30	381.00	168.30	123.80	52.20	18.00	18.00	

WATER YEAR : 2009**Yom RIVER BASIN****Nam Mae Mok at Ban Mae Phu , Lampang (Y.26)**

Lat 17 - 19 - 37 N Long 99 - 27 - 42 E

Location : on left bank downstream from Ban Mae Phu Tambon Wiang Mok.

	Ban Mae Phu	Amphoe Thoen	Changwat Lampang
Drainage Area	784 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	30		
R-Square	0.8443		
Remarks	Continued Sediment Station		

$$QS = 1.9484 QW^{0.98890}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.80	1.40	3.90	16.40	13.70	6.30	12.00	7.30	6.90	9.90	11.10	11.10		
2	4.80	1.40	3.40	14.70	13.70	6.30	21.40	7.30	1.90	9.90	11.10	11.10		
3	4.60	1.30	5.60	14.50	13.70	6.30	373.50	7.30	2.40	9.90	11.10	11.10		
4	4.60	1.30	7.50	14.90	13.70	6.20	276.40	7.10	2.40	9.90	10.90	11.10		
5	4.60	1.30	8.60	14.50	13.70	6.00	147.40	7.10	2.40	9.90	10.90	11.10		
6	4.40	1.50	16.10	15.80	13.70	5.80	92.70	6.90	7.10	9.90	11.60	11.10		
7	4.40	1.50	14.70	15.50	13.70	5.80	60.50	6.90	7.10	9.90	12.00	11.10		
8	4.40	1.50	14.70	14.50	13.70	3.00	42.50	6.50	7.10	9.90	12.00	11.30		
9	4.40	1.60	14.70	14.50	13.70	2.80	34.30	6.20	7.10	9.90	12.00	11.30		
10	3.40	1.60	13.90	14.50	13.70	2.70	29.10	5.80	7.30	9.90	11.80	11.30		
11	2.10	1.60	13.70	14.30	13.70	2.70	26.50	5.40	7.30	9.80	11.80	11.30		
12	2.10	1.60	13.70	14.30	13.70	2.70	25.10	5.00	7.50	9.80	11.80	11.30		
13	2.00	1.80	13.70	14.10	13.30	2.80	24.20	4.60	7.50	9.80	11.80	11.30		
14	2.00	3.80	13.90	19.70	13.50	2.80	23.40	4.20	7.70	9.90	11.10	11.30		
15	2.50	4.10	13.70	15.20	13.50	2.80	22.30	3.90	7.90	9.90	11.10	11.10		
16	2.20	12.20	13.70	14.70	13.50	2.80	21.40	3.70	7.90	9.90	10.90	11.10		
17	2.00	3.50	58.60	14.30	13.50	4.10	20.60	3.70	8.10	9.90	10.90	11.10		
18	1.80	3.20	44.80	14.30	11.10	8.20	19.70	3.70	8.60	9.80	10.90	11.10		
19	1.80	2.70	16.60	14.30	10.70	3.70	18.60	3.50	10.10	9.80	11.30	10.90		
20	1.80	2.70	15.20	14.10	10.70	4.60	18.10	3.50	10.10	9.80	11.30	10.90		
21	1.70	2.90	14.90	14.90	10.70	4.20	17.50	3.40	10.10	11.60	11.30	11.10		
22	1.50	2.60	14.90	15.50	10.70	2.90	16.90	3.40	10.30	11.80	11.30	8.10		
23	1.30	2.50	14.90	14.70	10.70	3.30	16.40	3.30	10.30	11.80	11.30	3.10		
24	1.20	2.70	15.00	14.30	10.90	3.10	16.40	3.20	10.30	11.80	10.90	2.80		
25	1.20	2.50	14.90	13.90	10.90	3.30	16.40	3.20	10.30	11.80	10.90	2.70		
26	1.20	2.50	14.70	13.90	9.60	9.60	16.10	3.00	8.80	11.80	10.90	2.70		
27	1.80	2.50	14.50	13.90	5.60	8.60	14.90	3.30	8.10	12.00	10.90	2.70		
28	1.90	3.80	14.50	13.70	5.60	18.60	13.70	7.30	8.10	12.00	11.10	2.70		
29	1.90	3.20	14.50	13.70	5.60	6.20	13.30	10.90	9.90	11.80		2.70		
30	3.60	3.00	14.50	13.70	11.60	6.20	13.20	11.60	9.90	11.80		2.70		
31		3.10		13.70	31.40		11.50		9.90	11.80		2.70		
Total	82.00	82.90	468.00	455.00	387.50	154.40	1476.00	162.20	240.40	327.40	316.00	267.00	4418.80	Ton
Mean	2.70	2.70	15.60	14.70	12.50	5.10	47.60	5.40	7.80	10.60	11.30	8.60		
Max	4.80	12.20	58.60	19.70	31.40	18.60	373.50	11.60	10.30	12.00	12.00	11.30	373.50	
Min	1.20	1.30	3.40	13.70	5.60	2.70	11.50	3.00	1.90	9.80	10.90	2.70	1.20	

WATER YEAR : 2009**Yom RIVER BASIN****Huai Pong at Ban Pong , Lampang (Y.30)**

Lat 18 - 42 - 29 N Long 99 - 57 - 40 E

Location : on right bank at the bridge on highway.

	Ban Pong	Amphoe Ngao	Changwat Lampang
Drainage Area	325 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2008-2009		
Number of observation	65		
R-Square	0.7562		
Remarks	Continued Sediment Station		

$$QS = 4.7308 QW^{1.14260}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.40	1.20	8.60	3.70	4.30	34.60	16.60	16.00	4.60	2.40	3.70	3.70		
2	16.60	1.90	4.60	3.40	6.90	40.90	14.90	16.00	4.60	3.10	3.10	3.10		
3	0.90	1.10	2.60	3.40	10.60	17.20	14.90	15.50	3.70	2.90	3.10	3.70		
4	0.80	5.90	3.10	3.70	5.60	17.20	26.40	14.90	3.40	2.60	3.10	3.70		
5	0.50	2.10	5.60	4.00	4.60	20.40	23.70	13.80	1.70	2.60	2.90	3.10		
6	0.50	4.30	8.60	4.90	4.60	29.10	124.00	11.60	1.70	2.60	2.60	2.10		
7	0.40	3.10	8.20	4.60	4.90	21.10	36.60	12.10	1.70	1.90	2.90	2.90		
8	0.90	2.40	7.30	5.90	9.00	31.80	25.70	11.60	2.90	2.10	3.10	3.10		
9	0.70	2.40	6.60	3.70	6.60	16.00	22.40	11.00	2.40	2.90	2.90	3.40		
10	1.10	2.10	4.60	3.70	5.60	13.80	21.10	11.00	3.40	3.70	3.10	3.10		
11	1.90	2.10	4.90	3.70	4.90	12.10	21.70	10.60	3.10	5.30	2.90	4.00		
12	0.90	1.20	4.60	3.70	5.30	11.60	17.20	9.80	2.10	4.60	2.90	3.10		
13	1.10	1.20	4.90	4.00	6.90	11.00	16.00	8.60	1.90	4.90	3.10	3.10		
14	1.10	0.90	4.90	4.30	17.90	20.40	14.30	8.20	2.10	3.10	3.10	3.40		
15	1.20	0.90	4.90	4.30	11.60	16.60	16.00	8.20	3.40	2.90	2.60	3.40		
16	1.10	0.90	4.60	3.70	9.00	12.70	13.80	7.70	3.70	2.10	2.90	3.10		
17	1.10	1.10	4.90	6.30	16.00	46.10	14.30	8.20	3.40	1.90	2.90	2.40		
18	1.10	1.10	12.10	5.30	9.80	43.40	10.60	8.60	2.90	1.90	3.10	2.10		
19	0.90	1.70	10.20	6.60	7.70	25.70	9.40	7.70	3.10	2.40	3.10	1.90		
20	0.90	0.90	7.30	8.20	6.90	17.90	10.60	7.70	4.00	1.90	3.40	1.90		
21	0.90	1.40	4.90	4.60	6.30	14.90	12.10	8.20	2.90	1.90	3.70	2.10		
22	0.90	1.20	4.60	5.60	25.00	35.30	30.40	7.70	2.10	2.60	3.10	2.10		
23	0.90	1.20	4.90	4.90	50.20	69.90	27.10	6.90	2.40	2.90	2.60	2.90		
24	0.90	0.90	4.90	5.60	36.60	34.60	30.40	6.60	3.10	2.40	2.90	2.60		
25	0.90	0.70	4.90	4.90	29.80	22.40	84.90	5.90	2.60	2.90	2.90	3.10		
26	4.00	0.70	4.60	4.60	20.40	28.40	33.90	5.60	3.10	4.00	2.90	3.10		
27	2.60	0.70	4.90	4.90	14.30	36.60	23.70	5.30	3.70	3.10	3.10	1.90		
28	2.60	0.80	12.10	4.00	11.00	31.80	21.10	4.90	3.10	2.90	3.10	2.10		
29	2.40	4.00	10.20	4.30	9.40	22.40	17.90	4.90	2.40	2.60		2.90		
30	2.40	3.70	7.30	4.00	8.20	19.20	17.20	4.60	2.60	2.40		2.60		
31		7.70		4.00	10.20		11.60		2.40	2.90		2.90		
Total	54.60	61.50	186.40	142.50	380.10	775.10	780.50	279.40	90.20	88.40	84.80	88.60	3012.10	Ton
Mean	1.80	2.00	6.20	4.60	12.30	25.80	25.20	9.30	2.90	2.90	3.00	2.90		
Max	16.60	7.70	12.10	8.20	50.20	69.90	124.00	16.00	4.60	5.30	3.70	4.00	124.00	
Min	0.40	0.70	2.60	3.40	4.30	11.00	9.40	4.60	1.70	1.90	2.60	1.90	0.40	

WATER YEAR : 2009

YOM RIVER BASIN

Yom River at Ban Tha Mai , Nakhon Sawan (Y.41)

Lat 15 - 54 - 55 N Long 100 - 14 - 50 E

Location : on left bank at Ban Tha Mai.

	Ban	Tha Mai	Amphoe	Chum Saeng	Changwat	Nakhon Sawan
Drainage Area	-	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2009-Cont'd					
Actual Measurement	2009-Cont'd					
Using Rating Curve Water Year	2009					
Number of observation	16					
R-Square	0.7520					
Remarks	Continued Sediment Station					

QS = 24.6230 QW^{1.57100}

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	692.00	429.40	11431.40	76438.20	74285.20	45471.00	97574.20	89437.00	7449.10	161.40	178.60	506.10	
2	998.90	587.20	12856.70	76351.90	67975.40	61213.90	99466.50	88547.90	5561.40	178.60	99.30	840.40	
3	1272.60	720.90	11431.40	76265.70	61213.90	74662.70	100100.20	88547.90	4390.70	306.70	144.90	871.30	
4	809.90	871.30	8602.20	76007.20	69358.40	77043.00	101180.80	88252.30	3393.20	375.00	144.90	779.80	
5	290.40	809.90	6973.60	75634.40	72154.70	78751.50	103146.20	87028.20	2945.80	290.40	92.40	1065.00	
6	129.00	546.10	6357.50	75376.80	71451.80	78577.10	106192.80	85870.30	2434.90	357.40	121.30	1903.70	
7	63.10	750.10	6973.60	75348.10	70053.70	77837.60	108241.70	84308.00	1493.30	392.80	205.50	2801.80	
8	55.60	663.60	10421.20	75462.60	66056.30	77158.40	108927.90	82667.20	1803.20	692.00	233.80	2110.50	
9	52.00	169.90	13609.30	75949.80	60024.30	76668.30	107044.80	81045.60	2006.10	2730.70	243.50	966.40	
10	45.10	18.70	33814.10	76610.80	56506.90	76495.70	104327.10	79866.30	2873.40	7449.10	306.70	448.10	
11	48.50	0.00	50323.10	76812.40	60024.30	76495.70	101587.10	78795.10	3547.50	7610.10	306.70	290.40	
12	85.60	0.00	70053.70	76495.70	54332.10	76351.90	99466.50	77664.00	3241.50	5341.20	306.70	178.60	
13	224.20	0.00	74349.20	75663.10	46427.10	75892.40	96320.10	76870.00	3241.50	4289.30	357.40	214.80	
14	448.10	0.00	74406.20	74948.00	37269.70	75434.00	94201.50	76438.20	3018.70	3625.50	429.40	205.50	
15	467.20	0.00	74477.40	74691.20	31138.60	75033.70	95445.70	75892.40	1954.60	3092.40	663.60	187.40	
16	411.00	144.90	74491.60	74833.80	33137.70	74976.60	95071.80	75233.70	1201.90	2490.60	635.70	169.90	
17	375.00	1308.50	74392.00	74862.40	42414.00	75176.60	94574.10	74662.70	809.90	2660.40	448.10	79.00	
18	411.00	2873.40	74299.40	75090.80	66056.30	75577.20	94822.90	74384.80	779.80	2163.40	375.00	121.30	
19	566.50	2216.70	57670.80	75233.70	74377.70	76122.00	96195.00	63618.40	663.60	1031.80	357.40	106.50	
20	411.00	779.80	41661.90	75033.70	74456.00	76639.60	95695.20	45471.00	608.20	840.40	546.10	38.50	
21	161.40	323.30	40914.70	74833.80	74427.60	77533.80	94449.90	38702.80	840.40	1167.10	663.60	23.90	
22	41.80	392.80	58843.30	74976.60	74363.50	77881.00	93953.40	37269.70	966.40	635.70	635.70	8.00	
23	14.10	750.10	70053.70	75262.30	74313.70	77533.80	93628.10	30605.90	720.90	224.20	392.80	0.00	
24	0.00	1308.50	74363.50	75348.10	70751.50	77187.20	93728.80	21141.30	546.10	205.50	224.20	0.00	
25	0.00	1344.70	74448.90	75148.00	54332.10	77273.80	94325.70	14432.10	663.60	214.80	323.30	0.00	
26	0.00	902.60	74634.10	74919.40	43171.00	78098.30	94574.10	9287.80	692.00	161.40	467.20	0.00	
27	0.00	546.10	75176.60	74862.40	38702.80	79917.50	94698.50	6973.60	692.00	74.90	375.00	0.00	
28	11.90	525.90	75519.90	74890.90	38702.80	83334.00	94449.90	10821.20	635.70	29.40	411.00	0.00	
29	121.30	448.10	75835.10	74748.20	40914.70	89239.10	93025.10	11877.80	525.90	26.60		0.00	
30	290.40	340.20	76208.20	74456.00	39435.10	94325.70	91923.30	10223.20	392.80	59.30		0.00	
31		840.40		74356.30	40914.70		90627.30		196.40	161.40		0.00	
Total	8497.60	20613.11	484594.42	336912.51	778743.92	293903.03	28966.01	765936.50	60290.50	49039.50	9689.80	13916.90	***** Ton
Mean	283.30	664.90	49486.50	75384.30	57378.80	76463.40	97708.60	58864.60	1944.90	1581.90	346.10	448.90	
Max	1272.60	2873.40	76208.20	76812.40	74456.00	94325.70	108927.90	89437.00	7449.10	7610.10	663.60	2801.80	108927.90
Min	0.00	0.00	6357.50	74356.30	31138.60	45471.00	90627.30	6973.60	196.40	26.60	92.40	0.00	0.00

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Forestry Office , Nan (N.1)

Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

Location : on right bank in front of Forestry Office.

	Ban Forestry Office	Amphoe Mueang	Changwat Nan
Drainage Area	4,560 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1979-Cont'd		
Actual Measurement	1979-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	34		
R-Square	0.9760		
Remarks	Continued Sediment Station		

$$QS = 0.1270 QW^{1.98160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.40	14.40	290.80	10021.10	1824.30	3524.80	976.40	480.40	74.80	27.20	20.50	1.10		
2	9.40	11.00	145.70	7261.90	4535.40	2928.40	930.40	432.50	69.00	27.20	18.30	1.10		
3	18.30	11.00	87.10	4535.40	5466.20	2218.50	863.40	372.50	63.40	27.20	12.70	1.10		
4	11.00	20.50	53.00	2218.50	2517.10	1938.60	798.90	344.10	63.40	23.70	9.40	0.90		
5	8.00	18.30	39.00	6183.80	1713.50	1536.50	863.40	330.40	63.40	20.50	5.50	0.90		
6	6.70	18.30	74.80	39153.60	1336.70	1571.10	1242.00	316.90	58.10	16.30	3.20	0.90		
7	5.50	12.70	171.50	35902.80	1938.60	2177.40	841.60	303.70	58.10	16.30	3.20	0.90		
8	11.00	9.40	180.60	16183.80	5123.90	1571.10	885.40	290.80	53.00	100.40	2.80	0.90		
9	20.50	6.70	171.50	7839.10	3219.80	1468.40	778.00	278.10	53.00	122.00	2.50	0.70		
10	11.00	5.50	230.40	4857.90	2177.40	1468.40	907.80	253.70	53.00	69.00	2.20	0.70		
11	30.90	3.60	253.70	3370.60	2136.60	1401.80	1071.70	241.90	48.10	43.40	2.20	0.90		
12	93.60	3.20	162.70	2517.10	4663.10	1180.70	976.40	230.40	43.40	34.80	2.20	0.70		
13	87.10	2.80	137.60	7585.70	3806.00	1121.00	976.40	209.10	39.00	23.70	1.90	0.90		
14	48.10	3.20	114.60	63982.20	7839.10	1369.00	1121.00	189.90	34.80	20.50	2.20	0.90		
15	43.40	16.30	74.80	16828.10	21333.50	1211.20	1242.00	189.90	39.00	18.30	2.20	0.90		
16	30.90	63.40	137.60	8661.30	37743.30	5191.50	953.20	180.60	34.80	18.30	2.20	0.70		
17	20.50	80.90	841.60	7023.70	12693.20	19352.50	716.80	189.90	34.80	16.30	1.90	0.70		
18	14.40	39.00	1071.70	20713.80	9232.10	16698.20	658.10	171.50	34.80	14.40	1.90	0.70		
19	12.70	34.80	999.80	40348.50	5191.50	7585.70	639.10	171.50	34.80	14.40	1.90	0.90		
20	11.00	820.10	432.50	12133.80	3473.00	4792.60	863.40	162.70	39.00	11.00	1.90	1.10		
21	8.00	976.40	241.90	6867.00	2741.80	3864.40	1977.40	154.10	39.00	8.00	1.60	2.50		
22	5.50	145.70	145.70	5328.00	3864.40	3370.60	2696.10	145.70	34.80	8.00	1.60	2.20		
23	5.50	80.90	114.60	3524.80	4285.20	3690.60	1900.10	137.60	39.00	8.00	1.60	1.90		
24	4.40	100.40	100.40	2696.10	4990.10	2696.10	1677.40	129.70	39.00	8.00	1.60	1.60		
25	3.60	53.00	129.70	2218.50	3121.10	2473.30	1824.30	114.60	39.00	8.00	1.60	1.40		
26	3.20	34.80	93.60	1862.00	2650.80	2260.00	1606.20	100.40	34.80	18.30	1.40	0.90		
27	14.40	63.40	80.90	1434.90	1977.40	2344.20	930.40	100.40	39.00	18.30	1.40	0.90		
28	63.40	154.10	162.70	1211.20	1787.00	1677.40	757.30	87.10	39.00	63.40	1.40	0.90		
29	20.50	114.60	1536.50	1150.70	1502.20	1304.70	677.40	80.90	34.80	39.00		0.90		
30	23.70	171.50	5536.00	1304.70	1369.00	1071.70	583.70	80.90	30.90	23.70		0.70		
31		253.70		1150.70	2386.80		530.80		30.90	20.50		1.60		
Total	650.60	3343.60	13813.00	346071.30	168640.10	105060.40	33466.50	6471.90	1391.90	888.10	113.00	33.10	679943.50	Ton
Mean	21.70	107.90	460.40	11163.60	5440.00	3502.00	1079.60	215.70	44.90	28.60	4.00	1.10		
Max	93.60	976.40	5536.00	63982.20	37743.30	19352.50	2696.10	480.40	74.80	122.00	20.50	2.50	63982.20	
Min	3.20	2.80	39.00	1150.70	1336.70	1071.70	530.80	80.90	30.90	8.00	1.40	0.70	0.70	

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Mueang , Phichit (N.7A)

Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

Location : on right bank in front of Phichit Phitthaya Khom School

	Ban Rat Chang Khwan	Amphoe Mueang	Changwat Phichit
Drainage Area	27,897 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	2009		
Number of observation	35		
R-Square	0.8706		
Remarks	Continued Sediment Station		

$$QS = 0.0330 QW^{1.96160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2633.70	2709.60	2864.60	2235.20	965.10	742.90	15372.00	5000.70	513.80	742.90	561.10	1173.40		
2	3187.20	2825.50	2412.40	2200.60	1297.80	1468.60	14279.00	5987.80	426.20	900.10	780.40	1362.20		
3	2825.50	3146.00	1852.90	1933.00	1949.20	4502.00	14230.20	6110.90	627.40	965.10	627.40	1185.60		
4	2270.10	2904.00	1667.30	1933.00	1868.70	6392.50	14622.50	4840.50	761.60	900.10	761.60	1388.50		
5	2132.10	2652.60	1682.40	2048.00	1637.30	5496.90	15881.90	4579.00	848.10	1173.40	889.50	1821.30		
6	2081.40	3312.60	1758.90	2252.60	1336.30	4527.60	17077.30	4053.20	943.20	1101.80	858.00	1868.70		
7	2064.60	3207.90	1758.90	2614.90	1272.40	3312.60	17355.00	3207.90	1185.60	1310.50	752.20	1297.80		
8	2183.30	2166.20	1916.80	3725.00	1336.30	2614.90	16747.10	2448.60	1336.30	1998.30	752.20	828.50		
9	2183.30	1622.50	2633.70	5136.20	1125.40	2652.60	13939.50	2098.20	1523.20	2904.00	752.20	976.20		
10	2252.60	1210.10	3207.90	5667.40	943.20	2864.60	12393.00	1805.60	1637.30	2577.50	789.90	733.70		
11	2149.10	1078.40	3146.00	4867.00	965.10	2709.60	10807.80	1414.90	1578.80	1697.60	858.00	670.70		
12	2098.20	1101.80	3187.20	3483.30	954.10	2412.40	9932.20	1149.30	1667.30	1161.30	828.50	610.50		
13	2098.20	879.00	3397.40	2485.10	809.10	2149.10	8706.00	1021.00	1564.80	1078.40	921.50	593.80		
14	2394.40	921.50	3814.90	2149.10	679.60	1805.60	8975.90	858.00	1336.30	998.50	976.20	679.60		
15	2633.70	1482.10	3837.50	2540.30	879.00	1821.30	9850.70	636.00	1272.40	858.00	868.50	715.40		
16	2728.80	2323.00	3270.50	3044.00	998.50	1482.10	9932.20	569.20	1113.60	965.10	780.40	577.40		
17	2767.30	2923.80	2614.90	3483.30	954.10	1375.30	10978.60	492.30	1197.80	889.50	828.50	987.30		
18	2963.60	2577.50	2200.60	3570.30	1336.30	1712.80	11499.20	426.20	932.30	742.90	662.00	688.40		
19	2690.60	1712.80	1916.80	3003.70	1323.40	2217.80	12347.60	452.10	943.20	1197.80	789.90	394.90		
20	2183.30	1323.40	2235.20	2671.60	1310.50	3658.30	11411.60	506.10	1066.80	1482.10	900.10	394.90		
21	1852.90	1185.60	3003.70	3023.80	1455.10	4053.20	10596.00	838.30	910.80	900.10	789.90	324.60		
22	1712.80	1362.20	2748.00	3418.80	1637.30	3461.80	9850.70	848.10	715.40	569.20	644.60	281.50		
23	1652.30	1789.90	2521.90	3249.60	1401.70	2825.50	9408.30	858.00	742.90	742.90	733.70	204.30		
24	1622.50	1965.50	2485.10	2558.90	848.10	2614.90	9408.30	742.90	900.10	697.40	910.80	155.40		
25	1564.80	1428.20	2540.30	2166.20	627.40	3680.50	9648.40	529.30	771.00	593.80	799.50	186.90		
26	1712.80	1210.10	2825.50	2305.30	889.50	5811.40	9249.90	602.20	818.80	472.00	688.40	261.10		
27	1805.60	1078.40	2983.60	2252.60	1272.40	8782.70	9092.80	724.60	809.10	388.80	670.70	445.60		
28	2081.40	1173.40	2884.30	2149.10	1137.30	12529.90	8515.60	636.00	697.40	376.70	879.00	521.50		
29	2558.90	1592.90	2786.60	1758.90	889.50	15220.60	7702.60	602.20	724.60	529.30		401.10		
30	2596.20	2904.00	2540.30	1336.30	848.10	17077.30	6842.90	513.80	644.60	771.00		302.70		
31		3312.60		1101.80	653.30		5753.60		636.00	653.30		376.70		
Total	67681.20	61083.10	78696.10	86364.90	35601.10	131977.30	352408.40	54552.90	30846.70	32339.40	22054.70	22410.20	976016.10	Ton
Mean	2256.00	1970.40	2623.20	2786.00	1148.40	4399.20	11368.00	1818.40	995.10	1043.20	787.70	722.90		
Max	3187.20	3312.60	3837.50	5667.40	1949.20	17077.30	17355.00	6110.90	1667.30	2904.00	976.20	1868.70	17355.00	
Min	1564.80	879.00	1667.30	1101.80	627.40	742.90	5753.60	426.20	426.20	376.70	561.10	155.40	155.40	

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Ban Hor Krai , Phichit (N.8A)

Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

Location : on right bank opposite to Wat Bang Mun Nak.

	Ban	Hor Krai	Amphoe	Bang Mun Nak	Changwat	Phichit
Drainage Area	31,472	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	2009					
Number of observation	56					
R-Square	0.8261					
Remarks	Continued Sediment Station					

$$QS = 0.1982 QW^{1.71300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2119.50	2186.70	2449.80	3220.90	1466.30	1235.40	16050.30	8326.10	789.60	726.50	701.80	895.10		
2	2300.90	2198.00	2277.90	3144.40	1372.00	1592.80	16585.90	8212.30	783.20	796.00	689.70	1063.50		
3	2289.40	2243.60	2042.00	2978.90	1372.00	2560.60	16630.80	8326.10	738.90	922.30	757.80	1114.90		
4	2463.60	2314.30	1827.30	2846.30	1622.60	4586.10	16946.60	8212.30	841.60	1013.10	701.80	1063.50		
5	2354.60	2255.00	1796.00	2687.60	1816.80	5226.70	17539.80	7680.80	908.60	942.90	757.80	1217.50		
6	2300.90	2198.00	1764.90	2574.60	1869.40	4348.40	18422.50	7271.70	963.80	998.90	815.40	1409.30		
7	2153.00	2368.10	1858.80	2645.00	1672.90	3439.00	18894.20	6379.20	1027.40	998.90	815.40	1390.60		
8	1858.80	2314.30	1987.30	2964.00	1602.70	3236.30	18704.90	5273.80	1144.70	1191.10	776.80	1144.70		
9	1806.40	1858.80	1976.40	3758.80	1612.70	2904.90	16856.20	4446.80	1289.30	1662.80	757.80	963.80		
10	1785.60	1466.30	2368.10	4506.30	1533.80	2934.40	15741.60	4096.80	1381.30	2020.10	796.00	848.20		
11	1754.50	1400.00	2574.60	4808.60	1543.70	3038.70	14659.10	3851.50	1475.90	1890.70	828.50	745.20		
12	1785.60	1418.80	2477.30	5368.50	1524.10	3220.90	13581.40	2701.80	1573.10	1612.70	726.50	683.60		
13	1754.50	1174.80	2477.30	5681.10	1262.20	3344.80	11617.80	2186.70	1622.60	1244.30	732.70	641.80		
14	1775.20	1056.20	2588.60	5035.50	1085.40	3407.50	11226.40	2119.50	1543.70	1152.20	695.70	689.70		
15	1976.40	1114.90	2730.50	2602.60	1006.00	3344.80	12602.10	1922.70	1573.10	1063.50	738.90	726.50		
16	2220.70	1344.20	2919.60	2730.50	998.90	2860.90	12343.90	1754.50	1078.10	1013.10	815.40	738.90		
17	2314.30	1495.10	2802.60	2875.50	998.90	2164.20	11689.60	1796.00	1034.60	1100.10	888.30	738.90		
18	2198.00	1612.70	2408.80	3144.40	1381.30	2255.00	12270.40	1713.50	1056.20	1253.30	841.60	922.30		
19	2266.50	1409.30	2119.50	3329.20	1693.10	2395.20	12975.20	1271.20	1013.10	1226.40	815.40	732.70		
20	2198.00	1129.70	1944.10	3518.40	1754.50	2546.60	11869.90	1167.20	956.80	1078.10	861.50	595.40		
21	1880.10	1612.70	1944.10	2701.80	1632.60	2831.70	11546.40	1307.40	1013.10	1262.20	881.60	671.60		
22	1612.70	1573.10	2730.50	2993.80	1837.80	4020.70	11332.50	1418.80	942.90	970.80	881.60	732.70		
23	1592.80	1632.60	2645.00	3144.40	1848.30	3582.40	11015.30	1533.80	874.90	854.90	868.20	641.80		
24	1504.70	1816.80	2687.60	2949.20	1652.80	3190.20	11261.90	1524.10	908.60	895.10	881.60	330.30		
25	1466.30	1703.30	2730.50	2463.60	1344.20	3282.60	11332.50	1199.90	936.00	881.60	895.10	322.90		
26	1437.80	1514.40	2846.30	2314.30	1174.80	4289.80	11546.40	1041.80	895.10	796.00	815.40	290.40		
27	1553.50	1335.00	3129.20	2314.30	1409.30	6176.30	11761.70	1034.60	895.10	714.10	757.80	349.20		
28	1672.90	1307.40	3376.10	2243.60	1504.70	9617.50	11474.90	1056.20	895.10	584.10	751.50	485.90		
29	1954.90	1372.00	3407.50	2086.00	1362.70	12713.80	10221.20	1013.10	861.50	512.40		507.00		
30	2097.10	1827.30	3423.20	1848.30	1217.50	15045.00	9551.20	868.20	835.10	595.40		400.10		
31		2381.70		1592.80	1235.40		8772.20		783.20	665.60		385.70		
Total	58449.20	52635.10	74311.40	97073.20	45409.40	125393.20	417024.80	100708.40	32636.20	32639.20	22247.60	23443.70	1081971.50	Ton
Mean	1948.30	1697.90	2477.00	3131.40	1464.80	4179.80	13452.40	3356.90	1052.80	1052.90	794.60	756.20		
Max	2463.60	2381.70	3423.20	5681.10	1869.40	15045.00	18894.20	8326.10	1622.60	2020.10	895.10	1409.30	18894.20	
Min	1437.80	1056.20	1764.90	1592.80	998.90	1235.40	8772.20	868.20	738.90	512.40	689.70	290.40	290.40	

WATER YEAR : 2009

Nan RIVER BASIN

Nam Khwae Noi at Ban Nong Krathao , Phitsanulok (N.36)

Lat 17 - 04 - 59 N Long 100 - 49 - 44 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
Drainage Area	1,710 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2000-Cont'd		
Actual Measurement	2000-Cont'd		
Using Rating Curve Water Year	2000-2009		
Number of observation	145		
R-Square	0.7650		
Remarks	Continued Sediment Station		

$$QS = 5.3552 QW^{1.35170}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	121.70	186.90	317.60	1336.30	1407.70	1374.50	2406.10	495.80	106.30	43.60	25.70	27.70		
2	30.70	83.10	134.40	1733.80	1761.20	1594.00	2730.30	458.10	87.80	44.80	19.10	31.70		
3	22.80	51.70	125.80	885.70	873.70	2095.90	3259.50	413.10	89.60	42.50	26.70	14.10		
4	16.40	55.20	106.30	678.10	965.40	3099.70	3197.10	377.20	86.00	37.00	35.90	15.10		
5	13.20	41.40	104.40	1283.30	978.20	3425.20	3148.30	369.30	84.50	39.20	50.50	14.10		
6	8.00	26.70	78.70	3374.00	544.30	3323.00	2931.20	350.00	81.60	42.50	52.90	14.10		
7	13.20	23.70	67.20	2685.00	585.90	2318.50	2362.20	324.70	75.80	33.80	54.00	16.40		
8	21.90	20.00	108.20	1645.80	1030.20	3361.20	2384.10	307.00	72.90	40.30	56.40	19.10		
9	20.00	17.30	226.20	1416.00	891.70	3438.00	2943.20	296.40	70.00	74.30	57.60	16.40		
10	20.90	18.20	138.80	790.80	625.10	3697.40	3541.20	282.50	67.20	52.90	54.00	21.90		
11	34.90	78.70	307.00	483.10	466.40	3386.80	3003.10	273.40	61.70	47.00	42.50	22.80		
12	102.50	42.50	535.20	339.10	373.20	2572.50	2165.70	255.50	57.60	41.40	15.10	21.90		
13	517.10	81.60	1559.70	1017.20	365.40	1788.80	1568.20	232.00	57.60	39.20	13.70	20.90		
14	487.30	296.40	1432.80	3710.50	562.70	4081.90	1230.90	220.50	55.20	41.40	13.20	20.00		
15	445.70	558.10	576.60	3658.20	441.60	4230.30	1202.10	214.80	54.00	44.80	13.20	21.90		
16	161.10	1500.10	342.80	1881.30	377.20	3361.20	2516.70	209.10	50.50	38.10	11.00	20.90		
17	134.40	1483.20	820.20	1517.10	581.30	2685.00	1977.70	200.70	49.30	34.90	6.90	27.70		
18	50.50	572.00	891.70	558.10	625.10	2572.50	2046.50	200.70	48.20	32.80	6.50	29.70		
19	33.80	405.00	397.00	721.60	590.60	1698.10	1525.60	195.20	48.20	29.70	5.60	33.80		
20	29.70	1145.60	264.40	826.10	672.70	1298.40	1321.10	184.20	47.00	24.70	15.50	26.70		
21	23.70	2007.10	321.20	1238.40	369.30	946.40	1328.70	170.70	47.00	34.90	16.40	29.70		
22	20.90	1602.60	212.00	733.00	258.40	885.70	1321.10	158.90	44.80	43.60	13.20	31.70		
23	17.30	832.00	220.50	699.60	214.80	1816.40	1131.60	152.10	44.80	48.20	17.30	11.00		
24	14.10	296.40	373.20	491.60	429.30	1585.40	1568.20	145.40	43.60	59.00	22.80	11.90		
25	15.10	544.30	198.00	397.00	339.10	873.70	1424.40	138.80	43.60	63.10	22.80	11.00		
26	19.10	744.50	377.20	328.30	267.40	3184.90	928.10	134.40	42.50	65.80	25.70	11.40		
27	136.60	335.50	2105.90	310.50	405.00	3921.60	1542.60	127.90	40.30	70.00	26.70	12.30		
28	214.80	209.10	672.70	270.40	487.30	4014.90	1063.10	123.60	41.40	56.40	23.70	11.90		
29	152.10	672.70	699.60	240.70	339.10	3789.30	761.80	115.80	40.30	48.20		12.30		
30	361.50	715.90	808.40	270.40	289.50	3051.30	619.80	108.20	42.50	40.30		11.40		
31		683.50		445.70	609.40		553.50		44.80	37.00		11.40		
Total	3261.00	15331.00	14523.70	35966.70	18728.20	79472.50	59703.70	7236.00	1826.60	1391.40	744.60	602.90	238788.30	Ton
Mean	108.70	494.50	484.10	1160.20	604.10	2649.10	1925.90	241.20	58.90	44.90	26.60	19.40		
Max	517.10	2007.10	2105.90	3710.50	1761.20	4230.30	3541.20	495.80	106.30	74.30	57.60	33.80	4230.30	
Min	8.00	17.30	67.20	240.70	214.80	873.70	553.50	108.20	40.30	24.70	5.60	11.00	5.60	

WATER YEAR : 2009

Nan RIVER BASIN

Nam Khwae Noi at Ban Nong Bon , Phitsanulok (N.40)

Lat 17 - 13 - 07 N Long 100 - 21 - 14 E

Location : on right bank about 2 kilometers upstream, Ban Nong Bon.

	Ban Nong Bon	Amphoe Wat Bot	Changwat Phitsanulok
Drainage Area	4,264 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2000-Cont'd		
Actual Measurement	2000-Cont'd		
Using Rating Curve Water Year	2000-2009		
Number of observation	34		
R-Square	0.9760		
Remarks	Continued Sediment Station		

$$QS = 2.4718 QW^{1.40980}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	697.00	2530.00	496.50	1293.20	1327.70	2835.60	1293.20	1857.90	1604.10	2035.80	352.80	1166.10		
2	805.30	2543.10	531.00	1301.80	1327.70	2903.40	1267.50	1879.40	1668.50	1868.60	415.50	1174.50		
3	939.40	2622.00	686.20	1327.70	1327.70	2648.40	1191.20	1962.60	2023.60	1783.10	406.30	1174.50		
4	994.80	2661.60	766.20	1319.10	1327.70	2464.90	1233.40	2011.30	2209.60	1761.90	349.20	1174.50		
5	846.80	1284.60	798.70	1310.40	1371.30	2477.90	1740.70	2072.70	2374.70	1804.40	352.80	1067.20		
6	670.20	46.40	839.20	1319.10	1450.60	2464.90	2011.30	2197.10	2490.90	2147.10	352.80	839.20		
7	541.00	18.40	1091.70	1319.10	1477.40	2464.90	1974.80	2285.40	2543.10	2134.60	349.20	596.80		
8	443.60	13.90	1531.30	1319.10	1495.30	2517.00	1986.90	2477.90	2595.60	2134.60	349.20	345.50		
9	401.70	9.80	649.00	1310.40	1513.30	2556.20	1962.60	2490.90	2622.00	1149.40	349.20	345.50		
10	415.50	8.20	617.50	1301.80	1549.40	2582.40	1950.50	2530.00	2622.00	1083.50	349.20	352.80		
11	397.80	10.60	602.00	1293.20	1659.30	2674.90	2011.30	2543.10	2582.40	1051.00	345.50	352.80		
12	477.00	11.40	766.20	1284.60	1698.70	2648.40	2122.20	2503.90	2517.00	1042.90	345.50	352.80		
13	496.50	36.10	1406.40	1293.20	1730.20	2648.40	2426.10	2490.90	2569.30	1042.90	345.50	352.80		
14	511.20	180.70	1522.30	1353.80	1698.70	2648.40	2464.90	2490.90	2674.90	1034.80	345.50	352.80		
15	576.30	213.10	1432.90	1327.70	1567.60	2530.00	2260.00	2490.90	2517.00	1051.00	345.50	352.80		
16	596.80	271.20	1327.70	1327.70	1513.30	2464.90	1938.40	2503.90	2595.60	1108.10	345.50	356.50		
17	649.00	254.90	1258.90	1319.10	1576.70	2517.00	1585.80	2517.00	2701.50	1116.30	341.80	378.90		
18	831.60	213.10	1345.10	1319.10	1772.50	2543.10	1388.80	2543.10	2635.20	1091.70	341.80	386.40		
19	1141.10	157.00	1576.70	1319.10	1914.30	2517.00	1397.60	2530.00	2569.30	1042.90	341.80	420.20		
20	1450.60	54.70	1659.30	1319.10	2298.10	2490.90	1450.60	2503.90	2490.90	947.30	341.80	424.80		
21	1441.80	29.50	1585.80	1310.40	2310.80	2452.00	1540.40	2247.40	2361.80	805.30	341.80	429.50		
22	1406.40	40.00	1477.40	1327.70	2097.40	2439.00	1730.20	2109.80	2147.10	697.00	341.80	429.50		
23	1362.50	44.70	1450.60	1319.10	2336.30	2439.00	1730.20	1847.10	1847.10	638.50	341.80	448.30		
24	1388.80	54.70	1504.30	1258.90	2582.40	1879.40	1751.30	1719.70	1836.40	586.60	341.80	1224.90		
25	1594.90	67.10	1468.50	1241.90	2582.40	2714.80	1688.20	1659.30	2517.00	397.80	341.80	1380.00		
26	1868.60	78.30	1406.40	1233.40	2582.40	2957.90	1688.20	1613.20	2517.00	448.30	443.60	1450.60		
27	2310.80	104.10	1362.50	1250.40	2608.80	1740.70	1804.40	1540.40	2517.00	798.70	818.40	1513.30		
28	2530.00	406.30	1336.40	1319.10	2688.20	1310.40	1836.40	1504.30	2439.00	734.10	1149.40	1540.40		
29	2635.20	622.70	1319.10	1327.70	2781.80	1301.80	1793.70	1504.30	2209.60	766.20		1576.70		
30	2661.60	586.60	1301.80	1336.40	2768.30	1293.20	1783.10	1540.40	2122.20	541.00		1504.30		
31		581.40		1336.40	2674.90		1804.40		2085.10	345.50		798.70		
Total	33083.80	15756.20	35117.60	40539.70	59611.20	72126.80	54808.30	64168.70	73206.50	35190.90	11186.80	24263.60	519060.10	Ton
Mean	1102.80	508.30	1170.60	1307.70	1922.90	2404.20	1768.00	2139.00	2361.50	1135.20	399.50	782.70		
Max	2661.60	2661.60	1659.30	1353.80	2781.80	2957.90	2464.90	2543.10	2701.50	2147.10	1149.40	1576.70	2957.90	
Min	397.80	8.20	496.50	1233.40	1327.70	1293.20	1191.20	1504.30	1604.10	345.50	341.80	345.50	8.20	

WATER YEAR : 2009

Nan RIVER BASIN

Nam Phak at Ban Tha Sakae , Phitsanulok (N.55)

Lat 17 - 15 - 06 N Long 100 - 37 - 53 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
Drainage Area	971 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1994-Cont'd		
Actual Measurement	1994-Cont'd		
Using Rating Curve Water Year	2001-2009		
Number of observation	143		
R-Square	0.7436		
Remarks	Continued Sediment Station		

$$QS = 3.1045 QW^{1.36120}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.80	27.80	315.30	56.80	73.90	85.90	289.40	131.60	31.60	17.80	15.20	10.20		
2	15.20	32.40	157.40	64.60	71.50	104.20	277.60	119.80	30.80	17.80	14.60	9.80		
3	15.20	30.80	85.90	60.10	59.00	107.00	403.20	108.40	30.10	17.10	14.00	9.80		
4	11.30	21.20	77.40	55.70	54.60	115.50	387.10	100.00	28.50	15.80	13.50	9.00		
5	10.20	17.10	52.50	77.40	85.90	89.50	337.80	95.90	29.30	17.10	14.00	9.00		
6	11.30	14.00	50.30	215.30	57.90	75.00	299.30	89.50	29.30	15.80	15.20	8.60		
7	15.20	12.90	179.60	222.70	52.50	148.10	285.40	85.90	27.00	16.40	14.00	8.60		
8	16.40	11.80	269.80	194.30	56.80	174.80	545.00	81.00	27.00	23.30	14.60	8.60		
9	14.60	11.30	145.10	154.30	57.90	239.40	319.30	77.40	25.50	34.00	14.00	8.60		
10	14.60	32.40	162.10	114.10	54.60	426.40	333.60	73.90	25.50	23.30	12.90	8.60		
11	12.90	21.90	121.30	89.50	48.20	226.30	228.20	70.30	24.80	19.80	13.50	8.60		
12	15.20	24.10	114.10	71.50	43.00	154.30	231.90	65.70	24.10	18.40	12.40	8.60		
13	15.80	57.90	271.80	277.60	42.00	127.10	202.70	62.30	24.10	16.40	11.80	8.20		
14	11.30	48.20	162.10	346.60	38.00	133.00	165.30	59.00	23.30	15.20	11.80	8.20		
15	9.00	194.30	160.50	414.70	36.40	333.60	226.30	56.80	22.60	15.20	12.40	8.20		
16	10.20	192.60	168.40	295.30	70.30	127.10	426.40	55.70	21.90	15.80	11.80	8.20		
17	15.80	115.50	426.40	197.60	61.20	143.60	442.90	52.50	21.90	15.80	11.80	7.90		
18	14.00	116.90	237.50	154.30	53.50	137.50	342.20	65.70	21.20	14.60	11.80	8.20		
19	12.90	76.20	165.30	136.00	41.00	114.10	235.60	55.70	21.20	14.00	11.30	8.20		
20	11.80	327.40	127.10	108.40	35.60	107.00	313.30	52.50	20.50	14.00	11.30	7.90		
21	10.70	613.50	108.40	93.30	34.80	88.30	279.60	45.10	20.50	14.60	10.70	8.20		
22	10.20	677.60	93.30	127.10	36.40	85.90	269.80	43.00	19.80	14.60	10.20	7.90		
23	9.80	315.30	72.70	111.20	35.60	178.00	235.60	41.00	19.10	14.60	10.20	7.90		
24	9.40	121.30	87.10	83.40	61.20	151.20	473.90	40.00	19.10	16.40	10.20	7.90		
25	9.40	133.00	84.60	71.50	71.50	128.60	266.00	40.00	17.80	18.40	10.20	7.50		
26	19.80	124.20	65.70	88.30	55.70	360.00	217.20	38.00	17.80	17.10	10.20	7.10		
27	81.00	93.30	59.00	75.00	48.20	442.90	271.80	36.40	17.10	15.80	10.20	7.10		
28	65.70	75.00	51.40	66.90	55.70	552.50	211.70	35.60	17.80	15.20	10.20	7.50		
29	85.90	70.30	45.10	105.60	51.40	575.40	179.60	34.80	17.80	15.80		7.50		
30	61.20	371.20	42.00	59.00	75.00	407.80	160.50	33.20	18.40	15.80		7.50		
31		394.00		56.80	72.70		145.10		17.80	14.60		7.10		
Total	625.80	4375.40	4159.20	4244.90	1692.00	6140.00	9003.30	1946.70	713.20	530.50	344.00	256.20	34031.20	Ton
Mean	20.90	141.10	138.60	136.90	54.60	204.70	290.40	64.90	23.00	17.10	12.30	8.30		
Max	85.90	677.60	426.40	414.70	85.90	575.40	545.00	131.60	31.60	34.00	15.20	10.20	677.60	
Min	9.00	11.30	42.00	55.70	34.80	75.00	145.10	33.20	17.10	14.00	10.20	7.10	7.10	

WATER YEAR : 2009**Nan RIVER BASIN****Lam Nam Khan at Ban Na Chan , Phitsanulok (N.59)**

Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Chan.

	Ban Na Chan	Amphoe Nakhon Thai	Changwat Phitsanulok
Drainage Area	415 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	2001-2009		
Number of observation	138		
R-Square	0.7866		
Remarks	Continued Sediment Station		

$$QS = 8.2611 QW^{1.35500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	34.30	18.50	27.70	580.40	1141.90	171.50	351.30	83.20	16.60	6.90	2.70	0.50		
2	4.10	3.20	16.00	191.70	285.80	320.30	580.40	74.10	16.00	6.60	2.60	0.50		
3	10.70	2.50	20.40	100.00	149.20	900.90	427.40	67.30	14.80	6.30	2.50	0.50		
4	1.50	1.50	14.10	62.50	510.30	1307.80	371.80	64.40	14.80	6.10	2.40	0.40		
5	0.70	0.70	18.00	622.00	153.70	1053.30	606.80	61.50	14.40	5.80	2.40	0.30		
6	0.40	0.40	9.60	377.90	110.90	342.70	303.80	56.80	14.40	5.60	2.20	0.20		
7	0.20	0.20	6.60	164.90	206.10	242.20	368.70	54.10	14.40	5.80	2.20	0.30		
8	0.10	0.10	5.10	108.70	275.60	606.80	283.20	51.30	14.40	6.90	2.00	0.30		
9	0.70	0.00	4.90	208.20	181.50	565.40	866.60	52.20	14.10	8.90	1.80	0.20		
10	28.70	0.10	21.00	99.00	125.80	1069.30	1014.00	48.30	14.10	7.20	1.70	0.30		
11	0.70	99.00	9.60	102.20	90.50	411.80	331.40	44.80	14.10	5.80	1.30	0.30		
12	7.50	56.80	303.80	47.60	76.10	218.70	354.00	42.00	13.70	5.40	1.10	0.20		
13	8.60	26.60	495.80	3204.70	68.20	723.40	204.00	39.30	13.70	11.40	1.10	0.20		
14	6.90	44.10	82.20	1898.60	177.50	1651.80	191.70	36.60	12.90	10.70	0.90	0.10		
15	47.60	39.90	38.60	543.20	85.30	440.10	265.60	34.30	12.20	10.70	0.80	2.70		
16	34.30	384.00	36.10	212.40	108.70	246.60	475.30	33.20	11.40	9.30	0.70	3.90		
17	18.00	68.20	288.30	144.40	71.20	309.20	231.40	32.70	11.40	8.60	0.70	0.40		
18	3.90	46.90	39.90	124.40	163.20	430.60	535.80	32.10	11.10	7.90	0.70	0.30		
19	1.80	20.40	27.70	260.60	78.10	225.00	183.50	30.90	11.10	6.60	0.60	0.30		
20	1.30	82.20	21.90	290.90	153.70	171.50	199.90	27.70	10.00	5.80	0.70	0.20		
21	1.20	44.80	30.30	193.70	65.30	110.90	181.50	26.00	8.90	5.40	0.60	0.20		
22	1.70	37.30	26.60	424.30	53.10	214.50	222.90	25.10	8.30	4.10	0.60	0.20		
23	0.60	14.80	38.60	212.40	47.60	462.40	127.10	23.50	7.90	4.60	0.60	0.70		
24	0.10	10.00	107.60	147.50	109.80	268.10	399.40	22.40	7.90	4.60	0.60	0.10		
25	1.50	52.20	17.00	131.30	63.40	357.00	179.50	21.90	7.90	4.90	0.50	0.00		
26	2.60	127.10	255.60	97.90	68.20	667.20	119.00	21.40	7.70	18.50	0.60	0.50		
27	7.20	25.50	240.10	87.30	191.70	646.10	293.40	21.00	7.70	6.90	0.50	0.50		
28	10.30	15.20	164.90	76.10	280.70	606.80	119.00	19.40	7.50	4.40	0.50	0.40		
29	5.40	102.20	100.00	66.30	129.90	311.80	116.30	18.50	7.20	3.50		0.40		
30	129.90	69.20	119.00	81.20	71.20	231.40	92.60	17.00	7.70	3.20		0.40		
31		47.60		246.60	177.50		84.20		7.50	3.10		0.40		
Total	372.50	1441.20	2587.00	11108.90	5471.70	15285.10	10081.50	1183.00	355.80	211.50	35.60	15.90	48149.70	Ton
Mean	12.40	46.50	86.20	358.40	176.50	509.50	325.20	39.40	11.50	6.80	1.30	0.50		
Max	129.90	384.00	495.80	3204.70	1141.90	1651.80	1014.00	83.20	16.60	18.50	2.70	3.90	3204.70	
Min	0.10	0.00	4.90	47.60	47.60	110.90	84.20	17.00	7.20	3.10	0.50	0.00	0.00	

WATER YEAR : 2009

Nan RIVER BASIN

Nan River at Ban Pha Khwang , Nan (N.64)

Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

Location : on right bank at the bridge on highway from Tambon Bo.

	Ban Pha Khwang	Amphoe Mueang	Changwat Nan
Drainage Area	3,476 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1994-Cont'd		
Actual Measurement	1994-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	35		
R-Square	0.7804		
Remarks	Continued Sediment Station		

$$QS = 0.3074 QW^{1.48390}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.30	60.60	58.30	852.90	182.60	466.80	137.70	87.60	20.90	14.80	14.80	5.50		
2	20.90	56.10	43.20	737.30	684.80	397.50	125.20	82.40	17.80	16.30	13.40	4.90		
3	22.60	58.30	33.30	360.30	397.50	328.80	147.40	77.40	16.30	16.30	12.00	4.40		
4	20.90	56.10	27.80	201.20	302.50	264.50	144.10	72.50	16.30	14.80	9.40	4.90		
5	20.90	51.70	33.30	483.30	150.60	228.20	131.40	67.60	17.80	13.40	9.40	4.90		
6	24.30	47.30	39.10	3214.50	131.40	201.20	125.20	77.40	16.30	13.40	9.40	4.90		
7	26.00	43.20	43.20	2458.60	298.20	201.20	119.10	77.40	17.80	17.80	9.40	4.90		
8	24.30	39.10	43.20	1145.60	511.50	182.60	137.70	77.40	19.30	43.20	8.00	4.90		
9	24.30	27.80	45.20	633.60	285.40	175.30	119.10	74.90	17.80	29.60	8.00	3.30		
10	27.80	31.40	49.50	418.40	264.50	186.30	119.10	74.90	16.30	20.90	8.00	3.30		
11	37.10	20.90	49.50	328.80	455.90	178.90	122.20	74.90	16.30	16.30	7.40	3.30		
12	51.70	14.80	41.10	240.10	397.50	175.30	122.20	72.50	16.30	14.80	7.40	3.90		
13	51.70	9.40	49.50	1473.40	369.50	220.40	150.60	62.90	16.30	13.40	7.40	4.40		
14	51.70	6.70	31.40	3202.30	770.70	171.70	164.60	60.60	17.80	13.40	6.70	4.40		
15	82.40	5.50	35.20	1010.40	2581.90	175.30	131.40	58.30	17.80	13.40	6.70	4.40		
16	85.00	20.90	79.90	710.90	2869.10	633.60	128.30	60.60	16.30	13.40	6.70	4.40		
17	77.40	31.40	98.60	608.50	1010.40	1374.70	119.10	58.30	22.60	12.00	6.70	4.40		
18	74.90	14.80	116.10	1818.10	614.70	1223.00	119.10	56.10	22.60	8.70	6.70	3.90		
19	70.00	35.20	95.80	1903.60	494.40	602.30	113.10	53.90	22.60	8.00	6.10	3.90		
20	65.30	216.50	60.60	852.90	337.70	461.30	119.10	51.70	22.60	6.10	6.10	6.70		
21	53.90	90.20	45.20	553.20	324.40	351.20	293.90	49.50	20.90	8.00	6.10	8.00		
22	29.60	33.30	39.10	445.10	671.90	298.20	342.20	47.30	19.30	8.70	7.40	6.70		
23	19.30	24.30	33.30	285.40	333.20	298.20	320.00	43.20	16.30	12.00	6.10	6.70		
24	14.80	31.40	47.30	228.20	571.50	272.80	281.20	41.10	17.80	10.60	6.10	5.50		
25	13.40	24.30	41.10	220.40	333.20	289.70	182.60	35.20	16.30	16.30	6.70	4.40		
26	19.30	22.60	51.70	178.90	252.20	293.90	150.60	27.80	14.80	14.80	6.70	4.40		
27	74.90	27.80	49.50	157.50	216.50	264.50	140.90	24.30	16.30	19.30	6.10	4.40		
28	74.90	24.30	113.10	128.30	201.20	205.00	131.40	24.30	16.30	24.30	5.50	4.40		
29	70.00	27.80	224.30	171.70	186.30	190.00	110.20	22.60	14.80	17.80		4.40		
30	65.30	47.30	639.90	137.70	150.60	137.70	110.20	22.60	16.30	16.30		6.10		
31		74.90		107.20	450.50		90.20		16.30	16.30		6.10		
Total	1310.90	1275.90	2358.30	25268.30	16802.30	10450.10	4749.10	1717.20	553.20	484.40	220.40	150.70	65340.80	Ton
Mean	43.70	41.20	78.60	815.10	542.00	348.30	153.20	57.20	17.80	15.60	7.90	4.90		
Max	85.00	216.50	639.90	3214.50	2869.10	1374.70	342.20	87.60	22.60	43.20	14.80	8.00	3214.50	
Min	13.40	5.50	27.80	107.20	131.40	137.70	90.20	22.60	14.80	6.10	5.50	3.30	3.30	

WATER YEAR : 2009

Nan RIVER BASIN

Nam Yao at Ban Pang Sa , Nan (N.65)

Lat 19 - 13 - 47 N Long 100 - 45 - 27 E

Location : on right bank at the bridge on highway.

	Ban Pang Sa	Amphoe	Tha Wang Pha	Changwat	Nan
Drainage Area	621 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	1997-Cont'd				
Actual Measurement	1997-Cont'd				
Using Rating Curve Water Year	2007-2009				
Number of observation	106				
R-Square	0.7625				
Remarks	Continued Sediment Station				

$$QS = 0.6932 QW^{1.74160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	27.10	6.50	33.40	391.00	81.10	169.30	108.50	29.10	7.80	5.30	4.20	1.70		
2	9.00	5.80	31.20	201.90	139.20	143.80	45.10	27.10	7.80	5.30	3.70	1.70		
3	6.50	5.80	27.10	112.70	96.30	112.70	45.10	27.10	7.80	5.30	3.70	1.50		
4	6.50	5.80	21.30	73.90	77.50	104.40	45.10	25.10	7.80	5.30	3.20	1.50		
5	5.80	5.80	19.50	373.30	63.70	96.30	96.30	23.20	7.80	4.70	2.70	1.50		
6	5.30	5.30	14.60	907.00	57.20	81.10	60.40	23.20	7.80	4.70	2.70	1.50		
7	4.70	5.30	10.30	446.40	1408.10	73.90	51.00	21.30	7.80	9.00	2.70	1.50		
8	6.50	5.30	11.60	382.10	355.90	67.00	45.10	19.50	7.80	11.60	2.70	1.50		
9	4.70	5.30	7.80	314.00	169.30	63.70	40.30	17.80	7.10	5.80	2.70	1.50		
10	4.20	4.70	7.80	169.30	121.30	51.00	54.10	16.20	7.10	5.30	2.30	1.50		
11	6.50	4.70	29.10	139.20	96.30	48.00	67.00	16.20	7.10	5.30	2.30	1.70		
12	23.20	4.70	27.10	139.20	92.40	45.10	57.20	16.20	7.10	5.30	2.30	1.70		
13	16.20	4.20	37.90	427.60	104.40	54.10	51.00	14.60	7.10	4.70	2.30	1.50		
14	14.60	4.70	37.90	953.60	520.90	54.10	57.20	14.60	7.10	4.70	2.30	1.50		
15	23.20	25.10	33.40	409.10	2192.20	54.10	67.00	14.60	6.50	4.70	2.30	1.50		
16	7.80	23.20	84.80	282.00	1116.30	338.90	45.10	14.60	6.50	4.70	1.50	1.50		
17	6.50	19.50	215.60	175.60	533.10	175.60	40.30	13.10	6.50	4.70	2.30	1.50		
18	5.80	11.60	60.40	465.50	322.20	382.10	40.30	13.10	6.50	4.70	2.00	1.50		
19	5.80	10.30	48.00	289.90	215.60	169.30	40.30	13.10	5.80	4.70	2.00	1.50		
20	5.80	11.60	29.10	201.90	163.10	169.30	54.10	13.10	5.80	4.20	2.00	1.70		
21	5.30	51.00	35.60	153.30	139.20	116.90	88.60	13.10	5.80	4.20	2.00	1.70		
22	5.30	9.00	21.30	130.10	195.20	112.70	73.90	13.10	5.80	4.20	2.00	1.50		
23	5.30	7.80	23.20	104.40	143.80	116.90	51.00	11.60	5.80	4.20	2.00	1.50		
24	4.70	7.10	33.40	81.10	175.60	108.50	48.00	11.60	5.80	4.20	2.00	1.20		
25	4.70	7.10	16.20	77.50	148.60	88.60	48.00	11.60	5.80	5.30	1.70	1.00		
26	17.80	6.50	11.60	70.40	130.10	96.30	45.10	11.60	5.80	4.20	1.70	1.00		
27	37.90	5.80	19.50	63.70	96.30	81.10	40.30	11.60	5.80	7.10	1.70	1.00		
28	25.10	5.30	259.10	54.10	63.70	63.70	35.60	9.00	4.20	7.10	1.70	1.00		
29	11.60	45.10	635.00	48.00	48.00	57.20	35.60	9.00	5.80	5.30		1.50		
30	11.60	21.30	1184.40	73.90	45.10	54.10	31.20	7.80	5.30	4.70		2.70		
31		27.10		70.40	182.10		31.20		5.30	4.20		2.30		
Total	325.00	368.30	3027.20	7782.10	9293.80	3349.80	1639.00	482.80	203.80	164.70	66.70	47.40	26750.60	Ton
Mean	10.80	11.90	100.90	251.00	299.80	111.70	52.90	16.10	6.60	5.30	2.40	1.50		
Max	37.90	51.00	1184.40	953.60	2192.20	382.10	108.50	29.10	7.80	11.60	4.20	2.70	2192.20	
Min	4.20	4.20	7.80	48.00	45.10	45.10	31.20	7.80	4.20	4.20	1.50	1.00	1.00	

WATER YEAR : 2009**Nan RIVER BASIN****Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)**

Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Noen Phoem.

	Ban Noen Phoem	Amphoe Nakhon Thai	Changwat Phitsanulok
Drainage Area	152 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	2001-2009		
Number of observation	119		
R-Square	0.7460		
Remarks	Continued Sediment Station		

$$QS = 13.1560 QW^{1.43150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	6.00	2.80	180.50	18.30	265.10	112.90	16.50	2.60	0.60	0.30	0.20		
2	0.40	2.60	2.10	84.90	13.20	461.30	231.80	14.70	2.60	0.60	0.20	0.20		
3	0.60	0.80	1.90	100.20	14.10	329.70	269.80	13.20	2.10	0.40	0.20	0.30		
4	0.40	0.60	4.90	35.00	95.40	65.50	215.40	13.20	1.90	0.40	0.20	0.30		
5	0.40	0.50	2.80	432.40	24.20	208.90	189.70	13.20	1.70	0.40	0.10	0.30		
6	0.20	0.30	1.50	129.90	12.80	115.50	148.20	11.90	1.70	0.40	0.20	0.20		
7	10.80	0.30	1.10	65.50	32.00	96.40	121.30	10.40	1.50	0.40	0.10	0.20		
8	1.00	1.00	1.00	56.60	51.70	134.40	139.00	10.10	1.30	0.60	0.20	0.20		
9	0.40	0.20	1.00	50.50	28.40	253.60	512.20	9.60	1.20	0.70	0.40	0.20		
10	0.30	0.20	8.90	26.20	20.20	92.00	142.00	9.20	1.10	2.60	0.40	0.20		
11	0.60	0.30	3.30	18.90	15.30	79.40	110.10	8.90	1.00	2.30	0.30	0.20		
12	162.50	0.30	61.60	14.70	12.20	58.30	84.90	8.20	1.00	0.80	0.20	0.20		
13	7.60	1.50	108.60	56.60	18.90	77.40	73.00	7.60	1.00	0.80	0.20	0.20		
14	1.50	9.60	15.90	77.40	49.70	482.90	68.60	7.30	1.00	1.00	0.10	0.20		
15	0.90	14.10	8.20	24.20	16.50	128.40	65.50	6.90	0.90	0.40	0.40	0.20		
16	0.70	26.90	5.20	14.70	10.80	89.60	104.70	6.30	0.90	0.40	0.30	0.20		
17	0.60	40.40	17.70	11.90	9.60	79.40	62.50	6.30	0.90	0.90	0.30	0.20		
18	0.40	8.20	7.30	12.80	51.70	67.70	80.70	6.00	0.80	0.90	0.30	0.20		
19	0.40	8.50	4.30	15.90	24.90	54.50	60.40	5.40	0.80	0.60	0.20	0.20		
20	0.40	293.50	4.30	10.80	104.70	43.90	62.50	5.20	0.70	0.30	0.20	0.20		
21	0.40	27.60	4.60	18.90	39.40	37.80	45.80	4.90	0.60	0.20	0.30	0.20		
22	0.30	18.90	3.50	17.10	26.20	17.10	47.70	4.60	0.70	0.50	0.10	0.20		
23	0.20	10.10	3.00	9.60	20.20	131.40	45.00	4.60	0.60	1.00	0.20	0.20		
24	0.20	6.00	39.40	7.30	47.70	46.90	64.60	4.30	0.60	1.20	0.10	0.20		
25	0.20	135.90	4.90	6.60	49.70	49.70	39.40	4.10	0.60	1.10	0.00	0.20		
26	0.40	10.80	308.00	5.70	24.20	409.90	32.70	3.80	0.60	2.10	0.00	0.20		
27	0.20	4.90	37.80	6.30	26.90	199.40	60.40	3.80	0.60	1.30	0.00	0.20		
28	2.10	3.00	17.70	5.70	43.90	148.20	31.20	3.30	0.50	0.90	0.00	0.20		
29	4.90	2.60	45.00	5.20	46.90	97.80	26.20	3.00	0.60	0.60		0.20		
30	6.00	5.20	38.60	10.40	96.40	75.20	21.50	2.80	0.60	0.60		0.20		
31		11.90		8.90	701.30		18.30		0.60	0.60		0.20		
Total	205.40	652.70	766.90	1521.30	1747.40	4397.30	3288.00	229.30	33.30	25.60	5.50	6.50	12879.20	Ton
Mean	6.80	21.10	25.60	49.10	56.40	146.60	106.10	7.60	1.10	0.80	0.20	0.20		
Max	162.50	293.50	308.00	432.40	701.30	482.90	512.20	16.50	2.60	2.60	0.40	0.30	701.30	
Min	0.20	0.20	1.00	5.20	9.60	17.10	18.30	2.80	0.50	0.20	0.00	0.20	0.00	

WATER YEAR : 2009

NAN RIVER BASIN

Nan River at Ban Koei Chai, Nakhon Sawan (N.67)

Lat 15 - 52 - 05 N Long 100 - 16 - 07 E

Location : on right bank at the bridge near Wat Koei Chai Nua

	Ban Koei Chai	Amphoe Chum Saeng	Changwat Nakhon Sawan
Drainage Area	57,384 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	15		
R-Square	0.9730		
Remarks	Continued Sediment Station		

$$QS = 7.6150 QW^{1.18500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual		
1	6213.90	5904.10	6858.90	11255.90	6984.30	6469.10	25848.50	20299.30	4058.70	2691.20	2895.40	3310.40			
2	6497.60	6100.90	6796.30	11374.40	6583.10	7331.20	26620.80	19820.90	3797.90	2610.20	2650.70	3478.80			
3	6921.60	6242.20	6469.10	11255.90	6796.30	9584.50	26879.00	20101.50	3648.50	3101.80	2772.60	3605.90			
4	6383.90	6383.90	5960.30	10705.30	7457.90	13053.60	27344.90	19913.40	3605.90	3289.50	2752.20	3584.70			
5	5690.60	6327.10	5639.90	10195.20	7489.70	14561.50	28208.50	19129.80	3712.40	3019.00	2731.90	3755.10			
6	5312.30	6044.60	5513.50	9871.20	7331.20	14069.70	29318.50	18351.10	3755.10	3081.10	2793.00	4203.40			
7	5012.70	6270.50	5614.60	9835.30	7015.70	12972.80	30043.60	17351.10	3691.10	3101.80	2998.30	4519.60			
8	4963.00	6242.20	5792.10	10195.20	6858.90	12049.70	30267.20	16180.80	3755.10	3478.80	3060.40	4179.20			
9	4987.90	5412.80	6242.20	11137.60	6765.00	11137.60	29374.20	14602.60	4034.70	4642.10	3019.00	3584.70			
10	4913.40	4789.80	7173.20	12489.90	6583.10	10901.50	28374.60	13539.80	4446.30	5766.70	3101.80	3226.70			
11	4888.70	3986.70	7872.20	12811.50	6526.10	10980.10	27241.20	12530.00	4715.90	6044.60	3122.60	2998.30			
12	5237.10	3712.40	8096.70	12249.50	6327.10	10783.70	26157.00	11098.20	4642.10	5412.80	3122.60	2813.50			
13	5513.50	3712.40	8711.00	10783.70	6044.60	10015.00	24518.20	10051.00	4666.70	4814.50	3143.40	2813.50			
14	5988.30	3669.80	9086.10	9620.30	5715.90	9299.20	23502.60	9620.30	4617.50	4568.50	3268.50	2833.90			
15	5988.30	3819.40	9548.80	9192.50	5387.60	8711.00	24365.50	8979.80	4179.20	4348.90	3521.10	2854.40			
16	5932.20	5087.30	9656.10	9477.40	5639.90	8548.60	24009.60	8386.80	3733.80	4082.80	3500.00	2854.40			
17	5904.10	6440.70	9121.50	9727.70	6072.80	8909.10	23806.60	8064.60	3500.00	4276.10	3268.50	2590.00			
18	5932.20	7521.40	8322.20	10231.40	6796.30	9477.40	23857.30	7585.00	3521.10	4131.00	3226.70	2772.60			
19	6157.40	7047.20	7585.00	10339.80	7840.20	10267.50	24620.20	6355.50	3415.50	3542.30	3164.20	2630.50			
20	6044.60	5988.30	7173.20	9835.30	8289.90	11295.40	24212.80	5848.10	3373.40	3542.30	3331.40	2374.00			
21	5437.90	5387.60	7521.40	9406.00	8257.70	12610.30	23603.80	5848.10	3584.70	3843.20	3457.70	2303.40			
22	4913.40	5387.60	8289.90	9727.70	8096.70	12932.50	23300.30	6100.90	3669.80	3415.50	3457.70	2163.20			
23	4666.70	5463.10	8419.10	10159.20	8032.50	12329.50	23047.70	6298.80	3648.50	2936.50	3247.60	1955.60			
24	4397.50	5876.10	8776.00	10159.20	7616.80	11612.10	23148.70	5690.60	3331.40	2936.50	2936.50	1802.10			
25	4251.80	5848.10	9121.50	9513.10	6827.60	11572.40	23452.00	5162.20	3478.80	2957.10	3101.80	1583.90			
26	4227.60	5437.90	9441.70	9086.10	6213.90	12811.50	23553.20	4814.50	3478.80	2813.50	3289.50	1569.40			
27	4373.20	5187.10	10195.20	9015.20	6270.50	14849.70	23654.50	4397.50	3457.70	2552.00	3164.20	1598.40			
28	4642.10	5112.30	10593.50	8873.80	6355.50	18168.60	23452.00	4642.10	3457.70	2356.40	3185.00	1836.00			
29	5287.20	5012.70	10940.80	8516.20	6327.10	21941.80	22594.30	4642.10	3331.40	2285.80		1990.00			
30	5741.30	5287.20	11295.40	7936.20	6213.90	24569.20	21841.70	4373.20	3185.00	2516.20		1921.30			
31		6100.90		7299.50	6242.20		21192.70		2936.50	2854.40		1671.50			
Total	162422.00	170804.30	241827.40	312277.20	210960.00	363815.80	781411.60	319779.60	116431.20	111013.10	87284.3	8	5378.40	2963404.80	Ton
Mean	5414.10	5509.80	8060.90	10073.50	6805.20	12127.20	25206.80	10659.30	3755.80	3581.10	3117.30	2754.10			
Max	6921.60	7521.40	11295.40	12811.50	8289.90	24569.20	30267.20	20299.30	4715.90	6044.60	3521.10	4519.60	30267.20		
Min	4227.60	3669.80	5513.50	7299.50	5387.60	6469.10	21192.70	4373.20	2936.50	2285.80	2650.70	1569.40	1569.40		

WATER YEAR : 2009

Nan RIVER BASIN

Khleng Tron at Ban Wang Pla Kod , Uttaradit (N.72)

Lat 17 - 27 - 24 N Long 100 - 16 - 39 E

Location : on right bank at Ban Wang Pla Kod.

	Ban Wang Pla Kod	Amphoe	Thong Saen Khan	Changwat	Uttaradit
Drainage Area	225 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	2005-Cont'd				
Actual Measurement	2005-Cont'd				
Using Rating Curve Water Year	2009				
Number of observation	30				
R-Square	0.8102				
Remarks	Continued Sediment Station				

$$QS = 3.3789 QW^{1.58930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.80	8.20	56.00	6.10	45.40	83.10	71.10	20.00	2.60	0.10	0.10	4.20		
2	4.80	4.50	20.00	9.00	20.90	64.60	146.10	17.30	2.40	0.10	0.40	3.90		
3	5.40	16.40	30.10	60.10	10.70	30.10	323.80	15.70	2.20	0.10	0.30	3.70		
4	5.80	48.00	15.70	14.40	7.50	14.40	692.60	15.70	2.00	0.10	0.30	4.50		
5	7.10	11.90	10.20	18.20	7.10	8.60	1682.80	13.10	1.70	0.10	0.40	4.20		
6	8.60	7.50	9.40	175.40	7.10	7.90	887.50	13.80	1.10	0.10	0.60	3.90		
7	7.90	3.70	285.30	154.70	9.40	17.30	319.40	13.80	1.10	0.10	1.30	3.70		
8	7.50	2.80	181.40	206.50	18.20	130.80	118.50	12.50	1.30	1.30	2.40	3.20		
9	6.10	2.20	35.70	69.40	19.10	29.00	61.60	10.70	1.30	3.70	3.20	3.70		
10	4.80	2.00	16.40	25.90	10.70	13.80	32.30	10.70	1.30	4.80	2.80	4.20		
11	3.40	1.80	20.00	13.10	9.40	15.10	22.90	9.00	1.30	4.50	1.50	3.70		
12	2.20	5.80	11.30	7.10	7.50	13.10	50.60	8.20	1.20	4.20	1.70	3.20		
13	5.40	20.90	16.40	9.00	6.80	12.50	328.10	7.10	1.20	5.40	2.00	2.60		
14	20.90	84.90	14.40	20.90	5.80	13.80	125.90	7.90	1.20	5.40	1.70	2.80		
15	15.70	297.90	13.10	36.90	8.20	20.90	187.60	6.40	1.20	5.10	1.30	3.00		
16	26.90	444.70	7.90	20.00	10.70	20.00	766.20	5.80	1.20	5.10	1.50	3.00		
17	12.50	49.30	6.10	11.90	13.80	143.50	1380.20	6.10	1.20	4.80	1.80	3.00		
18	7.10	39.30	8.20	11.30	4.20	232.70	547.40	13.80	1.20	4.50	2.00	2.80		
19	5.10	11.30	10.70	16.40	3.70	79.60	169.40	9.40	1.20	5.40	2.20	2.80		
20	5.40	7.50	6.10	16.40	7.10	28.00	69.40	7.10	1.20	6.40	2.20	3.20		
21	6.10	2309.30	7.10	26.90	6.80	15.70	219.50	5.80	1.20	7.10	2.00	3.70		
22	6.40	216.20	6.10	30.10	6.80	23.90	72.80	4.80	1.20	6.80	3.70	4.50		
23	9.80	29.00	3.90	20.90	8.60	350.40	172.30	4.50	1.20	6.40	3.40	5.40		
24	4.20	10.70	67.80	19.10	7.90	109.10	226.10	3.90	1.20	6.10	3.20	5.10		
25	4.50	10.20	32.30	13.80	23.90	60.10	151.80	3.90	0.70	5.80	2.40	4.50		
26	24.90	6.40	7.10	13.10	15.70	1417.80	99.90	3.70	0.30	5.40	2.00	3.90		
27	81.30	17.30	4.80	15.10	9.80	987.40	350.40	3.40	0.30	1.10	3.20	3.40		
28	146.10	783.20	4.20	14.40	12.50	817.40	172.30	3.20	0.20	0.30	3.40	3.00		
29	53.30	163.40	7.90	15.10	14.40	226.10	76.20	3.00	0.20	0.30		3.00		
30	20.00	61.60	5.80	14.40	17.30	104.40	39.30	2.80	0.20	0.40		3.70		
31		175.40		39.30	20.90		22.90		0.20	0.30		3.90		
Total	524.00	4853.30	921.40	1124.90	377.90	5091.10	9586.90	263.10	36.00	101.30	53.00	113.40	23046.30	Ton
Mean	17.50	156.60	30.70	36.30	12.20	169.70	309.30	8.80	1.20	3.30	1.90	3.70		
Max	146.10	2309.30	285.30	206.50	45.40	1417.80	1682.80	20.00	2.60	7.10	3.70	5.40	2309.30	
Min	2.20	1.80	3.90	6.10	3.70	7.90	22.90	2.80	0.20	0.10	0.10	2.60	0.10	

WATER YEAR : 2009

SAKAE KRANG RIVER BASIN

Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan (Ct.7)

Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

Location : on right bank at Ban Mai Khlong Charoen.

	Ban Mai Khlong Charoen	Amphoe Mae Poen	Changwat Nakhon Sawan
Drainage Area	453	sq.km.	
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	166		
R-Square	0.8754		
Remarks	Continued Sediment Station		

$$QS = 9.2562 QW^{1.39360}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.60	7.40	205.50	7.40	3.50	1141.20	601.10	50.10	4.50	1.00	0.40	1.00		
2	16.30	16.30	90.10	6.20	3.00	1681.50	6848.30	44.40	4.50	1.00	0.40	1.00		
3	11.90	8.60	56.90	6.20	3.00	361.80	3039.30	35.10	4.00	1.00	7.40	1.00		
4	8.60	19.40	42.00	8.00	3.00	149.20	627.20	32.80	4.00	0.70	4.00	0.70		
5	7.40	13.30	32.80	7.40	2.60	74.80	296.80	32.80	4.00	0.70	2.10	0.70		
6	6.80	7.40	26.40	5.60	2.60	110.30	171.10	30.60	3.50	0.70	1.30	0.70		
7	9.30	6.80	22.60	5.60	2.60	86.20	118.70	26.40	3.50	0.70	5.60	0.70		
8	8.00	10.60	17.80	6.20	2.60	94.10	82.40	22.60	3.00	60.40	4.50	42.00		
9	6.80	7.40	14.80	5.60	2.60	1600.80	56.90	21.00	3.00	71.10	3.00	71.10		
10	6.20	5.60	13.30	5.60	2.60	304.70	90.10	17.80	2.60	19.40	2.10	19.40		
11	5.60	14.80	14.80	5.10	2.60	106.20	53.50	14.80	2.60	6.80	1.30	6.80		
12	5.60	17.80	11.90	5.60	2.60	60.40	149.20	13.30	2.60	5.60	1.00	5.60		
13	16.30	11.90	11.90	5.60	2.10	42.00	588.10	11.90	2.60	4.50	1.00	4.50		
14	13.30	353.50	19.40	4.50	2.60	512.10	370.20	9.30	2.60	4.00	0.00	4.00		
15	9.30	114.50	13.30	4.50	3.00	133.30	149.20	8.60	2.10	3.50	0.40	3.50		
16	7.40	71.10	9.30	4.00	4.50	67.50	102.10	8.00	2.10	3.50	0.10	3.50		
17	6.80	42.00	296.80	3.00	8.60	704.90	467.80	8.60	2.10	3.00	1.00	3.00		
18	5.60	78.60	94.10	3.00	19.40	229.40	614.10	8.00	1.70	3.00	1.00	3.00		
19	5.60	44.40	44.40	3.00	16.30	123.00	265.60	8.00	1.70	2.60	1.00	2.60		
20	5.10	35.10	28.50	3.00	11.90	78.60	235.50	7.40	1.70	2.60	1.00	2.60		
21	4.50	71.10	19.40	3.50	8.00	53.50	133.30	6.80	1.70	2.60	0.70	2.60		
22	4.50	154.60	16.30	3.50	6.20	37.30	102.10	6.20	1.70	2.10	0.70	2.10		
23	4.00	165.50	13.30	17.80	6.20	46.80	1424.00	5.60	1.70	2.10	0.70	2.10		
24	3.50	71.10	13.30	10.60	6.20	28.50	1257.30	5.60	1.70	1.70	0.40	1.70		
25	3.00	37.30	10.60	7.40	6.80	32.80	387.10	5.60	1.30	1.30	0.40	1.30		
26	3.50	50.10	8.60	5.60	8.00	524.60	211.40	5.60	1.30	1.30	0.40	1.30		
27	3.00	44.40	8.00	4.50	6.20	827.00	182.40	5.10	1.30	0.40	0.40	0.40		
28	2.60	42.00	7.40	4.00	5.60	2257.60	149.20	5.10	1.30	1.00	0.40	1.00		
29	3.50	171.10	7.40	4.00	50.10	405.70	106.20	4.50	1.30	1.00		1.00		
30	6.80	110.30	9.30	3.50	90.10	171.10	82.40	4.50	1.00	1.00		1.00		
31		171.10		3.50	71.10		63.90		1.00	0.70		0.70		
Total	223.40	1975.10	1180.20	173.00	366.20	12046.90	19026.50	466.10	73.70	211.00	42.70	192.60	35977.40	Ton
Mean	7.40	63.70	39.30	5.60	11.80	401.60	613.80	15.50	2.40	6.80	1.50	6.20		
Max	22.60	353.50	296.80	17.80	90.10	2257.60	6848.30	50.10	4.50	71.10	7.40	71.10	6848.30	
Min	2.60	5.60	7.40	3.00	2.10	28.50	53.50	4.50	1.00	0.40	0.00	0.40	0.00	

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Pa , Saraburi (S.9)

Lat 14 - 37 - 39 N Long 101 - 01 - 02 E

Location : on left bank at Ban Mueang Nua railway bridge.

	Ban Pa	Amphoe	Kaeng Khoi	Changwat	Saraburi
Drainage Area	14,233 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	1978-Cont'd				
Actual Measurement	1978-Cont'd				
Using Rating Curve Water Year	1978-2009				
Number of observation	406				
R-Square	0.8020				
Remarks	Continued Sediment Station				

$$QS = 2.7760 QW^{1.28200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	264.80	641.60	439.90	168.50	151.10	197.10	197.10	1677.10	324.30	299.20	397.00	530.70		
2	250.30	456.20	434.50	140.90	161.50	186.30	720.40	1912.00	324.30	299.20	391.70	523.90		
3	189.90	413.00	439.90	117.70	161.50	186.30	1338.90	2142.70	324.30	299.20	381.10	510.50		
4	127.60	339.60	439.90	104.90	151.10	208.10	2464.10	2550.00	324.30	294.20	370.70	445.30		
5	108.10	319.30	434.50	165.00	134.20	231.30	6142.90	2393.10	324.30	294.20	402.30	439.90		
6	71.50	319.30	434.50	186.30	121.00	250.30	8985.00	1252.20	634.50	264.80	402.30	439.90		
7	73.70	269.70	434.50	193.50	121.00	240.80	9504.20	413.00	613.40	250.30	391.70	423.70		
8	121.00	204.40	434.50	289.30	161.50	219.20	6967.90	319.30	510.50	355.10	402.30	429.10		
9	158.00	208.10	423.70	294.20	165.00	260.00	3208.70	299.20	503.70	365.50	461.70	375.90		
10	161.50	204.40	423.70	294.20	127.60	189.90	1781.20	423.70	503.70	349.90	490.40	304.20		
11	215.50	231.30	429.10	304.20	121.00	151.10	2341.30	461.70	503.70	360.30	490.40	284.40		
12	898.80	240.80	423.70	319.30	104.90	147.70	3983.00	445.30	503.70	370.70	483.70	264.80		
13	691.50	231.30	423.70	365.50	121.00	95.50	7692.70	445.30	503.70	370.70	483.70	264.80		
14	537.50	231.30	324.30	381.10	208.10	92.40	8733.10	439.90	503.70	375.90	490.40	269.70		
15	365.50	222.90	299.20	461.70	211.80	80.30	8934.50	211.80	407.60	309.20	523.90	284.40		
16	304.20	215.50	294.20	467.20	189.90	87.10	9111.60	189.90	240.80	231.30	483.70	279.40		
17	314.20	222.90	255.10	450.80	182.70	78.10	7497.90	204.40	219.20	193.50	439.90	279.40		
18	269.70	193.50	236.10	445.30	137.60	95.50	5311.50	200.70	215.50	179.10	413.00	370.70		
19	179.10	186.30	240.80	279.40	104.90	161.50	4410.50	200.70	215.50	226.60	478.20	391.70		
20	172.00	240.80	240.80	222.90	114.50	89.40	4761.00	197.10	211.80	324.30	606.40	375.90		
21	168.50	304.20	236.10	219.20	121.00	89.40	4963.30	193.50	211.80	309.20	655.70	370.70		
22	165.00	299.20	231.30	208.10	124.30	84.80	5518.70	161.50	360.30	329.40	670.00	370.70		
23	165.00	299.20	231.30	200.70	140.90	89.40	6352.80	154.60	375.90	314.20	599.50	397.00		
24	165.00	299.20	245.60	179.10	154.60	124.30	5796.40	154.60	375.90	349.90	537.50	418.30		
25	197.10	299.20	236.10	172.00	158.00	172.00	3965.40	151.10	375.90	349.90	537.50	490.40		
26	360.30	407.60	231.30	179.10	137.60	186.30	3292.90	172.00	309.20	349.90	445.30	490.40		
27	497.10	445.30	231.30	186.30	130.90	154.60	1888.10	172.00	299.20	360.30	423.70	490.40		
28	585.60	439.90	179.10	182.70	134.20	124.30	1446.50	294.20	299.20	360.30	517.20	456.20		
29	571.70	439.90	168.50	186.30	193.50	98.60	1358.30	329.40	299.20	349.90		429.10		
30	786.30	439.90	172.00	172.00	279.40	111.30	1329.20	329.40	299.20	386.40		445.30		
31		439.90		161.50	211.80		1338.90		299.20	386.40		523.90		
Total	9136.00	9705.70	9669.20	7698.90	4738.10	4482.90	141338.00	18491.40	11417.50	9859.00	13370.90	12370.70	252278.30	Ton
Mean	304.50	313.10	322.30	248.40	152.80	149.40	4559.30	616.40	368.30	318.00	477.50	399.10		
Max	898.80	641.60	439.90	467.20	279.40	260.00	9504.20	2550.00	634.50	386.40	670.00	530.70	9504.20	
Min	71.50	186.30	168.50	104.90	104.90	78.10	197.10	151.10	211.80	179.10	370.70	264.80	71.50	

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Kham Phran , Saraburi (S.28A)

Lat 14 - 49 - 15 N Long 101 - 05 - 09 E

Location : on left bank at Ban Kham Phran.

	Ban	Kham Phran	Amphoe	Wang Muang	Changwat	Saraburi
Drainage Area	12,843	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2003-Cont'd					
Actual Measurement	2003-Cont'd					
Using Rating Curve Water Year	2003-2009					
Number of observation	53					
R-Square	0.7360					
Remarks	Continued Sediment Station					

$$QS = 2.3240 QW^{1.04400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	84.90	159.70	138.90	50.50	55.50	40.60	57.20	460.50	99.40	92.60	119.10	168.40		
2	80.70	126.80	138.90	50.50	55.50	41.50	207.80	505.60	99.40	91.70	118.20	166.70		
3	71.40	114.80	138.90	50.50	55.50	43.90	353.60	546.80	99.40	91.70	117.30	139.80		
4	54.70	101.90	138.90	63.90	55.50	43.10	855.60	578.40	99.40	90.90	125.10	138.00		
5	48.90	100.20	137.20	74.80	55.50	43.90	1658.40	479.60	137.20	91.70	133.70	138.00		
6	37.40	109.60	136.30	63.00	55.50	50.50	1768.30	201.70	198.20	90.90	132.80	139.80		
7	39.80	66.40	136.30	77.30	54.70	46.40	1620.40	94.30	158.00	106.20	132.80	138.90		
8	63.00	69.70	136.30	99.40	54.70	49.70	1001.40	84.10	150.20	124.20	133.70	136.30		
9	63.00	66.40	135.40	99.40	54.70	48.90	460.50	84.10	150.20	123.40	155.40	113.10		
10	68.10	72.30	133.70	99.40	54.70	48.10	501.50	129.40	150.20	123.40	154.50	112.20		
11	109.60	79.00	135.40	99.40	54.70	48.10	628.10	126.80	150.20	123.40	153.60	103.60		
12	190.30	73.90	132.80	107.10	53.90	37.40	1125.20	125.90	149.30	121.60	153.60	102.80		
13	161.40	69.70	113.10	119.10	72.30	32.50	1546.90	125.90	148.40	121.60	151.90	101.90		
14	138.90	68.90	96.00	131.10	92.60	32.50	1594.60	95.10	136.30	117.30	160.60	101.90		
15	92.60	68.90	95.10	145.80	90.00	31.70	1605.60	44.80	96.00	100.20	165.80	101.90		
16	99.40	68.90	93.40	144.90	80.70	31.70	1513.90	56.40	65.50	73.10	164.10	101.10		
17	99.40	56.40	77.30	144.10	80.70	33.30	1112.00	56.40	66.40	73.90	140.60	114.80		
18	79.80	53.90	77.30	123.40	50.50	34.10	832.30	56.40	64.70	73.90	148.40	131.10		
19	68.10	62.20	78.20	72.30	50.50	34.90	864.90	56.40	64.70	107.90	160.60	130.30		
20	67.20	95.10	78.20	73.10	51.40	34.10	914.80	56.40	64.70	117.30	196.40	129.40		
21	67.20	95.10	76.50	73.10	51.40	34.10	962.60	49.70	87.50	117.30	195.50	131.10		
22	66.40	95.10	76.50	73.10	51.40	34.90	1046.60	39.80	112.20	117.30	193.80	130.30		
23	66.40	95.10	75.60	67.20	52.20	35.70	1109.80	39.80	112.20	115.60	170.20	140.60		
24	80.70	96.00	76.50	55.50	52.20	35.70	900.80	39.80	112.20	115.60	168.40	148.40		
25	96.80	108.80	75.60	55.50	53.00	38.20	672.90	44.80	101.10	117.30	167.50	159.70		
26	172.80	138.00	75.60	55.50	53.00	36.50	585.30	49.70	93.40	116.50	138.00	159.70		
27	175.40	139.80	63.90	55.50	52.20	30.00	364.40	59.70	93.40	114.80	150.20	157.10		
28	175.40	138.90	50.50	55.50	52.20	26.80	348.80	99.40	93.40	113.90	169.30	141.50		
29	178.00	138.90	50.50	55.50	56.40	28.40	347.60	99.40	92.60	115.60		140.60		
30	177.10	139.80	50.50	55.50	56.40	42.30	347.60	99.40	92.60	119.10		158.00		
31		138.90		55.50	54.70		382.40		91.70	119.10		166.70		
Total	2974.80	3009.10	3019.30	2546.40	1814.20	1149.50	27291.80	4586.50	3430.10	3339.00	4271.10	4143.70	61575.50	Ton
Mean	99.20	97.10	100.60	82.10	58.50	38.30	880.40	152.90	110.60	107.70	152.50	133.70		
Max	190.30	159.70	138.90	145.80	92.60	50.50	1768.30	578.40	198.20	124.20	196.40	168.40	1768.30	
Min	37.40	53.90	50.50	50.50	50.50	26.80	57.20	39.80	64.70	73.10	117.30	101.10	26.80	

WATER YEAR : 2009

PASAK RIVER BASIN

Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

Location : on left bank at Ban Tha Hai Yong

	Ban Tha Hai Yong	Amphoe Lom Kao	Changwat Phetchabun
Drainage Area	521 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	2009		
Number of observation	16		
R-Square	0.7913		
Remarks	Continued Sediment Station		

$$QS = 0.5513 QW^{3.23770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	2.50	55.30	4544.00	38.10	192.30	2832.70	77.10	10.70	4.40	3.10	0.80		
2	0.60	1.30	49.10	417.50	391.90	595.90	10206.60	69.30	10.70	4.40	2.50	0.80		
3	0.60	0.60	55.30	114.70	3391.10	391.90	4728.10	69.30	9.40	4.40	2.50	0.80		
4	0.60	0.30	34.90	49.10	94.60	321.60	1719.70	55.30	9.40	4.40	2.00	0.80		
5	2.50	0.10	12.20	162503.70	49.10	1456.60	3856.80	38.10	9.40	3.70	2.00	0.80		
6	34.90	0.10	9.40	3103.30	31.80	821.00	630.00	38.10	9.40	3.70	2.00	0.80		
7	2.00	0.10	9.40	907.50	104.30	3541.80	2965.90	29.00	9.40	4.40	2.00	0.80		
8	10.70	12.20	77.10	8989.40	125.80	953.00	595.90	23.80	9.40	4.40	2.50	0.80		
9	0.80	29.00	26.30	472.20	321.60	1297.50	665.40	23.80	8.20	4.40	3.10	0.60		
10	1.00	5.20	114.70	114.70	69.30	300.30	391.90	23.80	8.20	6.10	2.00	0.60		
11	0.40	2.50	26.30	62.00	31.80	125.80	391.90	29.00	8.20	5.20	2.00	0.60		
12	0.60	45.20	1222.70	38.10	26.30	77.10	208.10	23.80	7.10	5.20	1.60	0.40		
13	0.80	2014.00	2119.30	23752.80	26.30	3696.90	177.40	23.80	7.10	4.40	1.60	0.40		
14	0.40	77.10	41.50	3391.10	23.80	177.40	137.50	23.80	7.10	4.40	1.30	0.40		
15	0.60	1150.90	192.30	780.00	21.50	208.10	34318.80	21.50	7.10	4.40	1.30	0.40		
16	0.80	595.90	740.40	224.70	49.10	150.10	5516.40	21.50	7.10	3.70	1.30	0.40		
17	0.60	21.50	740.40	125.80	29.00	2119.30	531.50	23.80	6.10	3.70	1.30	0.40		
18	0.40	8.20	55.30	104.30	31.80	531.50	344.00	29.00	6.10	3.70	1.00	0.40		
19	0.20	15.50	94.60	444.30	19.30	367.40	367.40	21.50	6.10	3.10	1.00	0.40		
20	0.10	104.30	321.60	85.60	17.30	224.70	280.00	19.30	6.10	2.50	3.10	0.30		
21	0.10	77.10	595.90	69.30	15.50	104.30	321.60	19.30	6.10	2.50	1.60	0.30		
22	0.10	367.40	94.60	41.50	41.50	1628.60	1912.30	19.30	5.20	5.20	1.60	0.30		
23	0.00	563.10	137.50	77.10	19.30	740.40	630.00	17.30	5.20	9.40	1.30	0.30		
24	0.00	34.90	41.50	38.10	472.20	300.30	3245.00	17.30	5.20	8.20	1.00	0.30		
25	0.00	740.40	69.30	29.00	34.90	907.50	367.40	15.50	5.20	8.20	1.00	0.30		
26	0.80	55.30	9892.30	34.90	19.30	50102.30	260.60	15.50	5.20	5.20	0.80	0.30		
27	31.80	15.50	31.80	29.00	41.50	165753.80	260.60	15.50	5.20	3.70	0.80	0.20		
28	21.50	83092.50	29.00	21.50	55.30	30779.70	163.40	13.70	5.20	3.70	0.60	0.20		
29	15.50	630.00	114.70	19.30	208.10	4544.00	104.30	13.70	5.20	3.10		0.20		
30	15.50	367.40	4728.10	29.00	34.90	1082.00	94.60	12.20	4.40	3.10		0.20		
31		2579.00		150.10	1222.70		85.60		4.40	3.10		0.20		
Total	144.50	92609.10	21732.80	210763.60	7059.00	273493.10	78311.40	843.90	218.80	140.00	47.90	14.50	685378.50	Ton
Mean	4.80	2987.40	724.40	6798.80	227.70	9116.40	2526.20	28.10	7.10	4.50	1.70	0.50		
Max	34.90	83092.50	9892.30	162503.70	3391.10	165753.80	34318.80	77.10	10.70	9.40	3.10	0.80	165753.80	
Min	0.00	0.10	9.40	19.30	15.50	77.10	85.60	12.20	4.40	2.50	0.60	0.20	0.00	

WATER YEAR : 2009**MAE KLONG RIVER BASIN****Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)**

Lat 14 - 09 - 17 N Long 99 - 25 - 07 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	Ban Thung Na Nang Rok	Amphoe Mueang	Changwat Kanchanaburi
Drainage Area	2,375	sq.km.	
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	45		
R-Square	0.8689		
Remarks	Continued Sediment Station		

$$QS = 3.5616 QW^{1.27680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.40	38.10	151.20	15.20	14.20	35.10	28.50	154.90	17.80	10.90	5.60	0.90		
2	5.60	32.90	103.50	14.70	13.70	38.90	42.70	127.70	16.20	10.10	5.60	0.90		
3	4.90	29.20	77.90	14.20	14.20	33.60	112.70	111.10	14.20	9.70	5.20	0.90		
4	8.50	20.90	61.20	14.20	14.20	25.00	199.80	106.50	13.30	8.90	5.20	0.80		
5	6.60	18.30	50.30	13.30	13.30	20.90	313.20	99.00	16.20	8.50	5.20	0.80		
6	5.60	15.20	44.60	12.80	8.50	18.30	405.60	93.10	17.80	8.10	5.60	0.80		
7	3.60	11.40	40.40	14.20	6.60	16.20	444.10	90.10	17.80	8.50	4.90	0.80		
8	3.10	9.70	35.80	19.30	5.20	14.70	413.30	84.60	17.20	8.10	4.20	0.70		
9	3.00	8.50	35.80	22.90	4.90	11.80	327.70	79.20	11.80	8.50	3.60	0.70		
10	4.20	8.10	35.80	23.60	5.20	11.40	240.70	71.30	13.70	8.90	3.10	0.70		
11	4.20	8.90	35.10	22.90	4.90	28.50	171.60	64.80	15.70	8.50	1.90	0.70		
12	4.90	10.90	33.60	22.30	3.60	11.40	180.10	60.20	15.20	8.50	1.40	0.50		
13	7.80	18.30	32.10	21.60	3.20	11.80	319.00	58.20	14.70	8.10	1.40	0.40		
14	33.60	38.10	29.20	18.30	2.80	12.80	420.90	55.20	14.20	7.80	1.60	0.50		
15	46.50	127.70	25.70	16.70	2.80	11.40	1012.90	52.30	13.30	7.80	1.50	0.50		
16	26.40	248.50	25.70	22.90	4.20	11.40	2331.30	47.50	14.20	7.00	1.20	0.70		
17	25.00	417.10	27.10	26.40	3.00	9.30	1781.30	41.90	14.70	7.40	1.10	0.90		
18	25.70	330.60	26.40	27.80	15.20	8.50	1029.20	38.90	14.20	6.60	1.00	1.90		
19	14.70	190.80	27.10	22.90	15.20	8.10	827.30	35.80	13.70	6.60	0.90	2.40		
20	12.80	151.20	29.20	23.60	20.40	8.90	822.10	33.60	13.30	7.00	1.40	2.60		
21	11.40	108.10	27.10	24.30	30.00	10.50	1045.60	32.10	13.70	7.00	1.60	2.30		
22	10.50	118.90	21.60	24.30	28.50	10.10	895.30	29.20	13.70	6.30	1.70	2.10		
23	9.70	118.90	20.40	25.70	24.30	10.50	695.00	27.80	12.80	5.60	1.90	2.60		
24	8.50	118.90	17.80	21.60	18.30	18.80	596.70	25.70	12.80	5.20	1.70	2.30		
25	7.80	108.10	15.70	16.70	29.20	70.00	535.30	25.00	12.80	6.30	1.60	1.90		
26	8.50	80.50	13.70	11.80	32.90	36.60	428.60	23.60	11.40	7.00	1.40	1.60		
27	8.50	88.70	16.20	10.10	50.30	34.30	354.90	22.30	8.90	7.00	1.10	1.60		
28	10.10	67.40	19.80	9.70	43.70	41.20	307.50	20.40	9.70	6.30	1.00	1.10		
29	18.80	93.10	17.80	13.30	37.30	38.10	267.90	19.30	10.90	5.90		1.00		
30	30.00	105.00	16.20	13.70	31.40	28.50	232.90	18.30	11.40	5.60		1.20		
31		140.30		14.20	52.30		188.60		11.40	5.90		2.10		
Total	377.90	2882.30	1114.00	575.20	553.50	646.60	16972.30	1749.60	428.70	233.60	73.60	38.90	25646.20	Ton
Mean	12.60	93.00	37.10	18.60	17.90	21.60	547.50	58.30	13.80	7.50	2.60	1.30		
Max	46.50	417.10	151.20	27.80	52.30	70.00	2331.30	154.90	17.80	10.90	5.60	2.60	2331.30	
Min	3.00	8.10	13.70	9.70	2.80	8.10	28.50	18.30	8.90	5.20	0.90	0.40	0.40	

WATER YEAR : 2009**MAE KLONG RIVER BASIN****Lam Phachi at Ban Bo , Ratchaburi (K.17)**

Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	Ban Bo	Amphoe	Suan Phung	Changwat	Ratchaburi
Drainage Area	1,344	sq.km.			
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	1999-Cont'd				
Actual Measurement	1999-Cont'd				
Using Rating Curve Water Year	2009				
Number of observation	35				
R-Square	0.9133				
Remarks	Continued Sediment Station				

$$QS = 1.1334 QW^{1.61400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.40	3.70	7.70	8.10	20.90	36.50	35.20	52.40	6.50	2.60	1.10	0.40		
2	4.40	18.00	9.20	7.70	28.70	25.10	94.50	44.70	5.70	2.60	1.20	0.40		
3	3.70	17.00	18.90	6.90	62.50	21.90	80.20	37.90	5.70	2.20	1.40	1.50		
4	3.00	7.70	62.50	6.10	64.70	16.10	58.40	66.80	5.00	2.20	1.40	2.60		
5	3.00	5.70	132.40	6.10	41.10	15.20	42.90	66.80	5.00	2.20	3.50	2.40		
6	3.50	4.20	112.90	6.10	29.90	13.60	35.20	46.60	4.70	2.20	2.60	2.80		
7	3.70	3.90	71.20	7.30	32.50	15.20	32.50	37.90	4.70	2.60	2.60	2.60		
8	3.70	3.70	52.40	7.30	32.50	29.90	29.90	35.20	4.40	2.60	2.40	2.80		
9	6.50	3.90	32.50	7.30	29.90	33.80	25.10	32.50	4.20	2.60	2.20	3.00		
10	4.70	4.20	24.00	6.50	36.50	26.20	20.90	29.90	3.90	2.40	1.90	2.60		
11	4.20	13.60	21.90	5.40	33.80	25.10	32.50	26.20	4.20	2.00	1.70	2.40		
12	16.10	12.10	33.80	5.00	26.20	28.70	422.10	21.90	3.70	2.00	1.70	2.60		
13	13.60	17.00	29.90	5.00	20.90	20.90	766.30	18.90	3.70	2.00	1.50	2.40		
14	8.10	33.80	19.90	8.60	16.10	16.10	264.20	17.00	3.50	2.00	1.20	2.60		
15	7.70	37.90	18.00	39.30	13.60	14.40	229.50	15.20	3.50	2.00	1.40	2.60		
16	5.00	23.00	15.20	37.90	41.10	12.80	259.10	16.10	3.70	2.20	1.10	2.40		
17	3.90	17.00	16.10	29.90	21.90	12.10	215.10	15.20	3.50	1.50	1.20	2.60		
18	3.70	18.00	17.00	19.90	25.10	12.10	192.10	23.00	3.20	1.70	1.10	1.40		
19	3.20	15.20	14.40	15.20	64.70	21.90	249.10	27.40	3.20	1.50	1.10	1.10		
20	2.80	16.10	12.10	17.00	112.90	18.00	290.10	18.00	3.20	1.40	1.50	1.20		
21	2.60	16.10	11.40	18.00	56.40	25.10	205.80	15.20	3.20	1.40	2.00	1.70		
22	2.40	12.10	12.10	16.10	32.50	18.90	334.30	13.60	3.20	1.50	1.20	1.20		
23	2.20	9.20	18.00	15.20	31.20	19.90	422.10	10.60	3.20	1.50	1.10	1.20		
24	1.90	8.10	25.10	11.40	54.30	37.90	295.40	9.20	3.00	1.40	0.90	1.50		
25	1.90	7.30	32.50	9.90	39.30	44.70	178.70	8.60	3.00	1.40	0.90	1.40		
26	2.20	6.50	27.40	9.20	29.90	52.40	132.40	7.70	2.80	1.50	0.80	1.50		
27	2.60	6.50	19.90	12.80	24.00	39.30	109.70	7.70	2.60	1.50	0.70	2.00		
28	4.70	13.60	12.80	20.90	26.20	32.50	97.50	7.30	2.60	1.40	0.40	2.00		
29	28.70	8.60	9.90	19.90	36.50	29.90	80.20	6.90	2.60	1.40		2.20		
30	4.40	8.10	9.90	16.10	28.70	26.20	73.40	6.50	2.60	1.40		2.40		
31		7.30		15.20	58.40		64.70		2.60	1.20		2.80		
Total	163.50	379.10	901.00	417.30	1172.90	742.40	5369.10	742.90	116.60	58.10	41.80	62.30	10167.00	Ton
Mean	5.40	12.20	30.00	13.50	37.80	24.70	173.20	24.80	3.80	1.90	1.50	2.00		
Max	28.70	37.90	132.40	39.30	112.90	52.40	766.30	66.80	6.50	2.60	3.50	3.00	766.30	
Min	1.90	3.70	7.70	5.00	13.60	12.10	20.90	6.50	2.60	1.20	0.40	0.40	0.40	

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)

Lat 14 - 26 - 04 N Long 98 - 49 - 20 E

Location : on right bank about 2 kilometers downstream from station K.22A

	Ban Nam Chon	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	799 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	49		
R-Square	0.9334		
Remarks	Continued Sediment Station		

$$QS = 0.6197 QW^{1.65030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.20	3.40	15.00	41.80	2914.80	227.90	511.10	96.20	33.40	17.20	7.70	4.20		
2	9.10	3.40	26.50	40.00	2880.50	253.00	701.90	93.10	31.80	17.20	7.70	3.80		
3	6.10	3.80	38.40	38.40	3886.60	246.40	479.80	87.00	30.30	16.10	7.10	3.80		
4	4.70	3.80	41.80	38.40	3320.40	227.90	341.30	80.90	30.30	16.10	7.10	3.80		
5	4.20	3.80	87.00	33.40	3639.70	300.50	272.90	80.90	28.90	16.10	7.10	3.80		
6	7.10	3.40	158.70	49.20	2198.30	324.20	253.00	75.10	28.90	15.00	7.10	3.80		
7	41.80	3.40	431.60	93.10	2950.70	1747.10	253.00	72.20	27.70	15.00	7.10	3.40		
8	12.90	3.10	470.00	60.10	8182.10	1342.00	216.10	69.40	27.70	15.00	6.60	3.40		
9	6.60	3.10	555.10	57.90	6405.00	814.70	222.00	72.20	27.70	15.00	6.60	3.40		
10	5.10	3.80	216.10	53.50	3886.60	555.10	227.90	64.70	26.50	15.00	6.60	3.40		
11	21.70	4.70	222.00	41.80	2137.10	441.00	198.80	69.40	26.50	14.00	6.10	3.40		
12	75.10	6.10	177.30	38.40	1321.00	385.40	210.30	57.90	26.50	14.00	6.10	3.40		
13	57.90	4.70	163.30	117.50	906.80	307.50	829.50	55.60	24.10	12.90	5.60	3.40		
14	31.80	5.60	140.90	2812.40	688.90	259.60	566.30	55.60	24.10	12.90	5.60	3.10		
15	17.20	22.90	136.60	1473.10	555.10	266.20	341.30	53.50	24.10	11.90	5.60	3.10		
16	9.10	16.10	125.00	771.00	470.00	246.40	315.80	51.30	24.10	11.90	5.60	3.10		
17	6.10	10.00	96.20	403.60	394.40	227.90	441.00	49.20	22.90	11.00	5.60	3.10		
18	5.60	17.20	72.20	358.70	341.30	233.90	272.90	47.10	22.90	11.00	5.10	3.10		
19	5.10	12.90	117.50	376.40	300.50	198.80	259.60	45.30	21.70	11.00	5.10	3.10		
20	4.70	7.70	266.20	1957.80	324.20	182.10	240.00	43.50	21.70	10.00	5.10	3.10		
21	4.70	6.60	177.30	6720.30	279.70	167.90	198.80	43.50	21.70	10.00	4.70	3.10		
22	4.20	9.10	233.90	1987.20	259.60	167.90	193.20	41.80	20.60	10.00	4.70	3.10		
23	3.80	8.20	140.90	906.80	233.90	177.30	367.50	41.80	20.60	10.00	4.70	3.10		
24	3.40	8.20	117.50	715.10	233.90	204.50	227.90	40.00	20.60	10.00	4.70	3.10		
25	3.10	6.60	106.50	600.50	341.30	198.80	187.60	40.00	19.50	10.00	4.70	3.10		
26	3.10	5.60	78.00	625.30	246.40	286.60	167.90	38.40	19.50	10.00	4.20	2.90		
27	3.10	21.70	64.70	1721.40	240.00	272.90	140.90	36.70	19.50	9.10	4.20	2.90		
28	5.60	17.20	55.60	1497.20	204.50	227.90	128.80	36.70	18.40	9.10	4.20	2.90		
29	4.70	18.40	49.20	1747.10	182.10	315.80	117.50	35.00	18.40	8.20		3.40		
30	3.80	11.90	45.30	3518.60	324.20	315.80	110.10	33.40	18.40	8.20		3.10		
31		8.20		2106.80	272.90		103.00		17.20	8.20		2.90		
Total	388.60	264.60	4626.30	31002.80	50522.50	11123.00	9097.70	1707.40	746.20	381.10	162.30	102.30	110124.80	Ton
Mean	13.00	8.50	154.20	1000.10	1629.80	370.80	293.50	56.90	24.10	12.30	5.80	3.30		
Max	75.10	22.90	555.10	6720.30	8182.10	1747.10	829.50	96.20	33.40	17.20	7.70	4.20	8182.10	
Min	3.10	3.10	15.00	33.40	182.10	167.90	103.00	33.40	17.20	8.20	4.20	2.90	2.90	

WATER YEAR : 2009**MAE KLONG RIVER BASIN****Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)**

Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

Location : on right bank at Ban Bong Ti.

	Ban Bong Ti	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	518 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	22		
R-Square	0.7872		
Remarks	Continued Sediment Station		

$$QS = 2.8470 QW^{1.37340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	2.70	12.20	7.60	37.20	53.80	115.80	8.20	1.30	0.30	0.20	0.10		
2	3.90	2.50	10.80	7.00	41.20	49.50	325.20	7.00	1.10	0.30	0.20	0.10		
3	3.40	2.80	10.10	6.40	43.20	35.60	174.30	6.10	1.00	0.30	0.20	0.10		
4	3.00	3.20	12.20	6.20	39.20	21.20	123.30	5.80	1.00	0.20	0.20	0.10		
5	4.50	3.20	22.10	5.90	119.50	23.60	93.40	5.70	0.90	0.20	0.20	0.10		
6	4.70	2.80	30.90	7.00	90.40	19.20	134.90	5.70	0.80	0.20	0.20	0.10		
7	4.10	2.70	34.00	11.50	123.30	174.30	79.10	5.40	0.80	0.20	0.20	0.10		
8	3.70	2.50	30.90	8.80	256.50	276.60	58.20	5.10	0.80	0.20	0.20	0.10		
9	3.40	2.50	35.60	7.60	383.20	193.70	87.40	5.90	0.80	0.20	0.20	0.10		
10	3.40	2.30	26.50	6.40	297.20	123.30	47.40	5.20	0.70	0.20	0.20	0.10		
11	6.20	3.40	41.20	6.10	183.90	108.90	47.40	5.00	0.70	0.20	0.20	0.10		
12	43.20	4.70	30.90	6.10	108.90	81.50	81.50	4.50	0.70	0.20	0.20	0.10		
13	20.20	5.40	23.60	10.10	71.90	56.00	573.30	4.10	0.60	0.20	0.20	0.10		
14	13.80	5.40	21.20	90.40	49.50	60.40	353.90	3.70	0.60	0.20	0.20	0.10		
15	10.10	21.20	20.20	249.90	30.90	39.20	174.30	3.40	0.60	0.20	0.20	0.10		
16	6.20	10.10	22.10	203.60	19.20	26.50	155.40	3.20	0.50	0.20	0.10	0.10		
17	5.70	9.50	37.20	102.60	16.40	37.20	239.40	3.00	0.50	0.20	0.20	0.10		
18	5.20	6.20	23.60	74.30	25.00	34.00	119.50	3.00	0.50	0.20	0.10	0.10		
19	4.70	8.20	17.40	53.80	19.20	22.10	81.50	2.80	0.40	0.20	0.10	0.10		
20	4.30	9.50	15.50	56.00	39.20	17.40	69.60	2.70	0.40	0.20	0.10	0.10		
21	3.90	8.20	12.20	49.50	29.40	14.60	84.40	2.30	0.40	0.20	0.10	0.10		
22	3.70	20.20	12.20	39.20	20.20	12.20	56.00	2.10	0.40	0.20	0.10	0.10		
23	3.40	11.50	11.50	30.90	18.30	14.60	69.60	1.90	0.40	0.20	0.10	0.10		
24	3.20	7.60	10.80	25.00	20.20	12.20	49.50	1.90	0.40	0.20	0.10	0.10		
25	3.00	5.90	16.40	21.20	108.90	26.50	45.30	1.70	0.40	0.20	0.10	0.10		
26	3.00	6.10	12.90	18.30	76.70	41.20	34.00	1.70	0.30	0.20	0.10	0.10		
27	2.80	15.50	12.20	18.30	87.40	25.00	43.20	1.60	0.30	0.20	0.10	0.10		
28	3.00	12.90	10.10	15.50	51.60	25.00	26.50	1.60	0.30	0.20	0.10	0.10		
29	3.00	29.40	8.20	12.20	34.00	22.10	19.20	1.40	0.30	0.20		0.10		
30	2.80	19.20	7.00	19.20	22.10	23.60	13.80	1.30	0.30	0.20		0.10		
31		11.50		30.90	56.00		10.10		0.30	0.20		0.10		
Total	188.70	258.80	591.70	1207.50	2519.80	1671.00	3586.40	113.00	18.50	6.50	4.40	3.10	10169.40	Ton
Mean	6.30	8.30	19.70	39.00	81.30	55.70	115.70	3.80	0.60	0.20	0.20	0.10		
Max	43.20	29.40	41.20	249.90	383.20	276.60	573.30	8.20	1.30	0.30	0.20	0.10	573.30	
Min	2.80	2.30	7.00	5.90	16.40	12.20	10.10	1.30	0.30	0.20	0.10	0.10	0.10	

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	Ban Nong Bang	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	122 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	2009		
Number of observation	31		
R-Square	0.7786		
Remarks	Continued Sediment Station		

$$QS = 1.8919 QW^{1.78210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	0.20	0.70	3.20	21.10	7.60	25.70	14.50	3.20	1.90	1.20	0.70		
2	0.80	0.20	0.70	2.70	19.80	6.60	19.00	13.40	3.20	1.90	1.20	0.70		
3	0.70	0.20	0.70	2.40	18.40	13.40	17.80	12.10	3.20	1.90	1.20	0.70		
4	0.60	0.20	1.20	2.10	20.40	9.70	15.50	12.10	3.20	1.90	1.20	0.70		
5	0.40	0.20	2.10	1.70	19.00	8.60	13.40	12.10	3.20	1.90	1.20	0.70		
6	0.30	0.20	2.90	1.70	16.70	13.40	13.90	10.90	3.20	1.90	1.20	0.60		
7	0.30	0.20	12.10	2.70	26.50	23.40	10.90	10.90	3.20	1.90	1.20	0.60		
8	0.20	0.20	4.00	2.40	33.40	22.60	24.90	10.90	2.90	1.90	1.20	0.60		
9	0.20	0.20	3.20	2.10	31.40	27.50	16.70	10.90	2.90	1.70	1.10	0.60		
10	0.20	0.20	1.70	1.90	25.70	24.20	16.70	9.70	2.90	1.70	0.90	0.60		
11	0.20	0.20	1.20	1.90	18.40	19.80	15.50	9.70	2.90	1.70	0.90	0.60		
12	0.50	0.30	1.70	1.90	16.70	17.80	17.80	8.60	2.90	1.70	0.90	0.60		
13	0.30	0.30	1.90	2.90	14.50	17.80	135.30	7.60	2.70	1.70	0.90	0.60		
14	0.30	0.30	1.70	22.60	13.40	16.10	30.40	7.60	2.70	1.40	0.90	0.60		
15	0.30	1.20	2.10	17.30	12.10	16.10	25.70	7.60	2.70	1.40	0.90	0.60		
16	0.20	1.10	1.90	15.00	15.00	15.50	21.90	6.60	2.70	1.40	0.90	0.60		
17	0.20	0.40	2.10	9.70	9.70	15.50	19.00	6.60	2.70	1.40	0.90	0.60		
18	0.20	0.30	1.70	12.10	9.70	13.90	20.40	5.70	2.70	1.40	0.90	0.50		
19	0.20	0.20	2.10	15.00	8.60	9.70	19.00	6.60	2.40	1.40	0.90	0.50		
20	0.20	0.20	2.10	13.40	8.60	8.60	28.40	5.70	2.40	1.40	0.80	0.50		
21	0.20	0.50	2.40	14.50	7.60	7.60	19.80	5.70	2.40	1.40	0.80	0.50		
22	0.20	0.30	2.10	12.10	6.60	7.60	19.00	4.80	2.40	1.40	0.80	0.50		
23	0.20	0.30	2.10	32.40	6.60	7.60	19.00	4.80	2.40	1.40	0.80	0.50		
24	0.20	0.30	1.70	28.40	10.90	7.60	19.00	4.80	2.40	1.40	0.80	0.50		
25	0.20	0.30	1.40	24.90	15.50	16.10	19.00	4.80	2.10	1.40	0.70	0.40		
26	0.20	0.30	1.70	24.90	8.60	15.50	18.40	4.80	2.10	1.40	0.70	0.40		
27	0.60	1.20	1.70	21.10	7.60	14.50	17.80	4.80	2.10	1.40	0.70	0.40		
28	0.20	0.80	1.40	16.70	6.60	13.40	16.70	4.00	2.10	1.40	0.70	0.40		
29	0.20	0.70	1.70	19.00	4.80	10.90	15.50	3.20	2.10	1.40		0.50		
30	0.20	0.90	2.70	18.40	4.80	10.90	15.50	3.20	1.90	1.20		0.50		
31		0.70		16.10	13.90		15.00		1.90	1.20		0.40		
Total	9.80	12.80	66.70	363.20	452.60	419.50	702.60	234.70	81.80	48.50	26.50	17.20	2435.90	Ton
Mean	0.30	0.40	2.20	11.70	14.60	14.00	22.70	7.80	2.60	1.60	0.90	0.60		
Max	1.10	1.20	12.10	32.40	33.40	27.50	135.30	14.50	3.20	1.90	1.20	0.70	135.30	
Min	0.20	0.20	0.70	1.70	4.80	6.60	10.90	3.20	1.90	1.20	0.70	0.40	0.20	

WATER YEAR : 2009**MAE KLONG RIVER BASIN****Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)**

Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	Ban Ong Thi	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	51 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	38		
R-Square	0.8208		
Remarks	Continued Sediment Station		

$$QS = 3.1699 QW^{1.32470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	0.30	1.90	2.20	11.00	4.50	11.60	2.70	1.30	0.70	0.50	0.20		
2	0.70	0.20	1.50	1.70	11.00	3.70	8.50	2.40	1.30	0.70	0.50	0.20		
3	0.60	0.20	2.70	1.50	7.90	5.70	6.20	2.40	1.30	0.70	0.50	0.20		
4	0.50	0.20	1.70	1.50	7.10	7.10	6.60	2.40	1.10	0.70	0.50	0.20		
5	0.50	0.20	1.90	1.50	11.00	6.60	4.90	2.70	1.10	0.60	0.50	0.20		
6	0.50	0.20	7.50	2.70	10.40	5.70	9.80	2.40	1.10	0.60	0.50	0.20		
7	0.60	0.20	5.30	2.20	25.50	40.40	6.20	2.40	1.10	0.70	0.40	0.20		
8	4.10	0.20	3.70	1.90	23.20	10.40	4.90	2.40	1.30	0.70	0.40	0.20		
9	1.70	0.20	4.50	1.90	31.50	14.30	4.50	2.70	1.30	0.70	0.40	0.20		
10	0.90	0.20	2.70	1.70	14.30	9.80	3.70	2.70	1.10	0.70	0.40	0.20		
11	0.80	0.20	2.90	1.50	11.00	7.90	3.70	2.70	0.90	0.60	0.40	0.20		
12	0.70	0.20	2.20	1.50	8.50	6.60	5.30	2.40	0.90	0.60	0.30	0.20		
13	0.70	0.20	2.70	6.60	7.10	6.60	9.80	2.40	0.90	0.60	0.30	0.20		
14	0.60	0.40	2.20	6.60	5.70	5.30	5.70	2.20	0.90	0.60	0.30	0.20		
15	0.50	0.60	1.90	5.70	5.70	5.30	4.50	1.90	0.80	0.50	0.20	0.20		
16	0.50	0.60	1.50	5.30	5.30	5.30	4.10	1.90	0.80	0.50	0.20	0.20		
17	0.40	0.40	1.50	4.90	4.50	4.50	3.70	1.90	0.90	0.50	0.20	0.20		
18	0.40	0.40	1.70	4.10	4.10	4.10	3.70	1.90	0.90	0.50	0.20	0.20		
19	0.50	0.40	2.20	4.10	3.70	3.70	4.10	1.90	0.90	0.50	0.20	0.20		
20	0.40	0.40	2.20	7.10	3.50	3.50	4.10	1.90	0.70	0.50	0.20	0.20		
21	0.40	0.40	1.90	5.30	3.20	3.50	4.10	1.90	0.70	0.50	0.20	0.20		
22	0.40	0.40	1.70	4.50	3.20	3.20	4.10	1.70	0.80	0.50	0.20	0.20		
23	0.40	0.40	1.70	5.30	4.10	3.20	4.10	1.70	0.70	0.50	0.20	0.20		
24	0.40	0.40	1.30	4.50	5.70	2.90	3.70	1.50	0.80	0.50	0.20	0.20		
25	0.40	0.40	1.30	3.70	3.70	3.70	3.50	1.50	0.80	0.50	0.20	0.20		
26	0.40	0.40	1.50	4.50	3.50	3.70	3.70	1.50	0.70	0.50	0.20	0.20		
27	0.40	1.50	1.50	3.70	2.90	3.50	3.50	1.50	0.70	0.50	0.20	0.20		
28	0.30	0.70	1.50	3.20	2.70	2.90	2.90	1.50	0.70	0.50	0.20	0.20		
29	0.30	2.40	4.50	4.90	3.70	3.20	2.90	1.50	0.70	0.50		0.20		
30	0.30	0.90	3.20	10.40	2.20	4.50	2.70	1.50	0.70	0.50		0.20		
31		0.90		5.70	9.80		2.70		0.70	0.50		0.20		
Total	20.40	14.70	74.50	121.90	256.70	195.30	153.50	62.10	28.60	17.70	8.70	6.20	960.30	Ton
Mean	0.70	0.50	2.50	3.90	8.30	6.50	5.00	2.10	0.90	0.60	0.30	0.20		
Max	4.10	2.40	7.50	10.40	31.50	40.40	11.60	2.70	1.30	0.70	0.50	0.20	40.40	
Min	0.30	0.20	1.30	1.50	2.20	2.90	2.70	1.50	0.70	0.50	0.20	0.20	0.20	

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)

Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

	Ban Hin Laem	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	123 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	32		
R-Square	0.8396		
Remarks	Continued Sediment Station		

$$QS = 2.7024 QW^{1.16150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	Ton
1	1.50	0.20	1.80	1.50	11.00	4.60	13.10	2.30	1.10	0.80	0.70	0.30		
2	1.20	0.20	1.80	1.30	13.00	3.60	17.80	2.10	1.10	0.80	0.60	0.30		
3	1.10	0.20	3.60	1.10	12.80	8.00	12.30	1.80	1.10	0.80	0.50	0.30		
4	0.90	0.20	2.70	1.80	9.70	5.70	9.10	1.50	1.10	0.80	0.50	0.30		
5	0.70	0.20	2.50	1.30	11.00	7.70	8.10	1.50	1.10	0.80	0.40	0.30		
6	0.50	0.20	11.40	1.00	10.20	5.30	7.20	1.50	1.10	0.80	0.40	0.20		
7	0.40	0.20	28.80	4.20	22.10	17.10	6.40	1.50	1.10	0.80	0.40	0.20		
8	3.60	0.20	7.90	2.50	22.50	11.70	5.30	1.40	1.10	0.80	0.40	0.20		
9	0.90	0.20	8.00	3.60	46.10	35.40	3.80	1.30	1.10	0.80	0.40	0.30		
10	0.70	0.10	6.80	2.50	18.80	11.60	3.10	1.40	1.10	0.80	0.40	0.10		
11	0.60	0.10	6.40	2.30	11.90	9.50	2.70	1.40	1.00	0.80	0.40	0.10		
12	0.60	0.10	3.80	2.10	9.30	8.60	3.40	1.40	1.00	0.70	0.40	0.10		
13	0.60	0.20	3.80	2.90	8.20	7.80	6.80	1.40	1.00	0.60	0.40	0.10		
14	0.60	0.30	3.10	13.10	6.80	6.40	7.90	1.30	1.00	0.70	0.40	0.10		
15	0.60	0.50	2.70	10.40	6.40	4.90	4.90	1.30	1.00	0.70	0.40	0.10		
16	0.50	3.80	2.10	14.60	5.30	7.70	3.60	1.20	1.00	0.70	0.40	0.10		
17	0.50	2.70	2.10	9.90	3.80	6.80	3.80	1.20	1.00	0.70	0.30	0.10		
18	0.50	6.40	1.60	9.70	3.10	5.70	3.60	1.20	1.00	0.80	0.30	0.10		
19	0.40	1.10	2.10	9.00	2.90	6.80	4.90	1.10	1.00	0.70	0.30	0.10		
20	0.40	0.90	1.80	8.20	2.70	4.60	3.60	1.10	1.00	0.80	0.30	0.10		
21	0.30	1.00	1.80	9.50	2.50	3.60	3.10	1.10	1.00	0.70	0.40	0.10		
22	0.30	1.00	2.10	9.30	2.50	3.10	5.70	1.10	1.00	0.70	0.40	0.10		
23	0.30	0.70	1.50	23.80	2.30	2.90	7.60	1.10	1.00	0.70	0.40	0.10		
24	0.30	0.70	1.30	13.60	2.30	2.70	5.30	1.30	1.00	0.70	0.30	0.10		
25	0.30	0.60	1.10	10.50	9.20	7.20	4.20	1.30	1.00	0.70	0.30	0.10		
26	0.30	0.90	1.50	8.70	3.40	7.70	6.00	1.20	1.00	0.70	0.30	0.10		
27	0.30	6.40	1.40	7.90	2.70	6.80	3.40	1.10	1.00	0.70	0.30	0.10		
28	0.30	2.10	2.30	6.40	2.10	5.30	2.50	1.10	1.00	0.70	0.30	0.10		
29	0.30	15.70	1.50	6.40	2.10	3.40	2.50	1.10	0.90	0.70		0.10		
30	0.20	7.20	7.20	8.60	1.80	8.60	2.30	1.10	0.90	0.70		0.10		
31		4.20		8.90	4.20		2.30		0.90	0.70		0.10		
Total	19.70	58.50	126.50	216.60	272.70	230.80	176.30	40.40	31.70	22.90	11.00	4.60	1211.70	Ton
Mean	0.70	1.90	4.20	7.00	8.80	7.70	5.70	1.30	1.00	0.70	0.40	0.10		
Max	3.60	15.70	28.80	23.80	46.10	35.40	17.80	2.30	1.10	0.80	0.70	0.30	46.10	
Min	0.20	0.10	1.10	1.00	1.80	2.70	2.30	1.10	0.90	0.60	0.30	0.10	0.10	

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Mae Kraban at Ban Si Mong Khon , Kanchanaburi (K.53)

Lat 14 - 01 - 38 N Long 99 - 13 - 23 E

Location : on right bank at the bridge on road.

	Ban Si Mong Khon	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	308 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	167		
R-Square	0.9371		
Remarks	Continued Sediment Station		

$$QS = 8.9982 QW^{1.62290}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	59.40	0.30	4.30	1.90	2.90	4.90	2.90	14.80	1.30	0.20	0.10	0.10		
2	2.90	0.30	13.80	1.60	2.60	4.30	3.70	10.70	1.00	0.20	0.10	0.10		
3	1.30	0.30	12.60	1.30	2.60	3.70	10.70	8.30	1.00	0.20	0.10	0.00		
4	0.60	0.30	9.00	1.00	2.90	3.30	18.10	7.60	0.80	0.20	0.10	0.00		
5	0.40	0.30	9.90	0.80	2.60	3.30	7.60	8.30	0.80	0.20	0.10	0.00		
6	0.30	0.30	15.90	0.80	2.60	3.30	5.50	7.60	0.60	0.20	0.10	0.00		
7	0.30	0.30	19.50	1.00	3.30	3.30	42.70	6.10	0.60	0.20	0.10	0.00		
8	0.30	0.30	9.00	1.30	6.10	3.70	13.80	4.90	0.60	0.20	0.10	0.00		
9	0.20	0.30	6.90	1.30	8.30	3.30	8.30	4.90	0.60	0.20	0.10	0.00		
10	0.30	0.30	4.90	0.80	9.90	3.30	13.80	4.30	0.50	0.20	0.10	0.00		
11	1.30	0.30	4.30	0.60	9.00	99.60	78.50	3.70	0.50	0.20	0.10	0.00		
12	3.30	0.40	3.70	0.50	8.30	88.80	663.30	4.90	0.40	0.20	0.10	0.00		
13	1.60	0.30	3.30	0.50	7.60	27.70	2037.10	3.70	0.40	0.20	0.10	0.00		
14	1.60	1.00	3.70	1.30	6.90	107.80	663.30	2.90	0.40	0.20	0.10	0.00		
15	1.30	12.60	2.90	3.30	21.90	37.50	189.60	2.90	0.40	0.10	0.10	0.00		
16	1.00	2.90	9.90	4.90	50.90	20.70	96.00	2.90	0.40	0.10	0.10	0.00		
17	0.80	2.20	4.90	3.70	35.80	17.00	59.40	2.60	0.40	0.10	0.10	0.00		
18	0.80	23.40	3.30	3.30	321.10	10.70	524.90	37.50	0.40	0.10	0.10	0.00		
19	0.60	11.60	2.60	2.90	195.70	8.30	338.60	17.00	0.40	0.10	0.10	0.00		
20	0.50	15.90	2.60	2.60	356.40	6.10	189.60	8.30	0.40	0.10	0.10	0.00		
21	0.40	13.80	2.20	2.60	42.70	4.90	247.10	4.90	0.40	0.10	0.10	0.00		
22	0.40	13.80	2.20	2.20	23.40	4.30	99.60	4.30	0.40	0.10	0.10	0.00		
23	0.40	5.50	2.20	2.60	14.80	3.30	270.90	3.30	0.40	0.10	0.10	0.00		
24	0.40	3.70	1.90	2.90	10.70	3.30	676.30	2.90	0.30	0.10	0.10	0.00		
25	0.40	2.60	5.50	5.50	9.00	8.30	456.50	2.20	0.30	0.10	0.10	0.00		
26	0.30	2.20	2.90	3.70	8.30	10.70	143.10	2.20	0.30	0.10	0.00	0.00		
27	0.40	14.80	2.20	4.30	6.90	6.10	75.20	1.90	0.30	0.10	0.00	0.00		
28	0.40	4.90	1.90	3.70	6.10	4.30	48.10	1.60	0.30	0.10	0.10	0.00		
29	0.40	2.90	1.30	3.30	5.50	3.30	30.90	1.60	0.30	0.10		0.00		
30	0.40	3.30	1.30	3.30	4.90	2.90	23.40	1.30	0.20	0.10		0.10		
31		4.30		3.30	5.50		18.10		0.20	0.10		0.00		
Total	82.70	145.40	170.60	72.80	1195.20	512.00	7056.60	190.10	15.30	4.50	2.60	0.30	9448.10	Ton
Mean	2.80	4.70	5.70	2.30	38.60	17.10	227.60	6.30	0.50	0.10	0.10	0.00		
Max	59.40	23.40	19.50	5.50	356.40	107.80	2037.10	37.50	1.30	0.20	0.10	0.10	2037.10	
Min	0.20	0.30	1.30	0.50	2.60	2.90	2.90	1.30	0.20	0.10	0.00	0.00	0.00	

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

Location : on right bank at the bridge on road.

	Ban Kui Mang	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	128 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	2009		
Number of observation	41		
R-Square	0.8016		
Remarks	Continued Sediment Station		

$$QS = 3.4546 QW^{1.31140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.10	0.40	3.40	6.60	28.70	11.90	43.30	7.70	3.70	2.30	1.20	0.30		
2	2.00	0.40	4.00	6.60	32.50	9.00	30.90	7.40	3.70	2.30	1.10	0.30		
3	1.50	0.30	5.70	6.10	23.80	18.70	23.80	7.40	3.70	2.30	1.00	0.30		
4	1.20	0.30	4.60	5.00	18.10	14.60	15.20	6.90	3.70	2.30	0.90	0.20		
5	1.20	0.40	5.40	4.60	16.90	12.50	13.50	6.90	3.40	2.30	0.90	0.20		
6	1.20	0.30	13.50	5.00	18.10	10.50	13.00	6.60	3.40	2.30	0.80	0.20		
7	1.60	0.30	27.90	6.60	31.70	46.30	10.00	6.60	3.40	2.30	0.80	0.20		
8	1.50	0.30	10.90	6.10	37.70	56.80	8.60	6.60	3.40	2.00	0.80	0.20		
9	1.40	0.40	8.60	6.60	84.30	132.40	9.50	6.10	3.40	2.00	0.70	0.20		
10	1.20	0.40	7.40	5.40	53.50	37.70	13.00	6.10	3.40	1.80	0.70	0.20		
11	1.10	1.00	6.60	4.60	27.20	33.20	7.70	6.10	3.40	1.80	0.70	0.20		
12	2.80	0.70	6.10	4.60	18.70	36.80	7.70	5.70	3.10	1.80	0.50	0.20		
13	1.80	1.20	6.90	8.60	14.00	20.00	25.70	5.70	3.10	1.80	0.50	0.20		
14	1.50	1.60	6.90	30.90	10.00	15.80	24.40	5.70	3.10	1.80	0.50	0.20		
15	1.20	3.10	6.10	27.20	9.50	12.50	14.00	5.40	3.10	1.60	0.50	0.20		
16	1.00	1.80	6.10	28.70	9.00	16.90	11.90	5.40	3.10	1.60	0.40	0.10		
17	0.90	3.70	6.10	13.50	8.20	21.20	18.70	5.00	3.10	1.60	0.40	0.10		
18	0.70	2.50	4.60	10.00	8.20	27.90	13.50	5.00	2.80	1.60	0.40	0.10		
19	0.70	2.00	5.00	9.00	7.70	15.20	10.50	5.00	2.80	1.50	0.40	0.10		
20	0.90	1.60	5.40	10.50	8.20	10.90	19.30	4.60	2.80	1.50	0.40	0.10		
21	0.80	1.80	5.40	9.00	7.70	9.50	11.90	4.60	2.80	1.50	0.30	0.10		
22	0.70	2.30	5.00	10.50	7.40	8.20	9.00	4.60	2.80	1.40	0.30	0.10		
23	0.60	2.00	4.60	47.30	7.40	7.70	9.00	4.30	2.80	1.40	0.30	0.10		
24	0.50	1.60	4.30	25.00	6.90	7.70	8.60	4.30	2.80	1.40	0.30	0.10		
25	0.50	1.50	4.00	69.70	20.60	17.50	8.60	4.30	2.50	1.40	0.30	0.10		
26	0.50	1.50	3.70	25.00	7.70	10.00	8.20	4.00	2.50	1.40	0.30	0.10		
27	0.40	5.40	4.30	18.70	7.70	9.00	8.20	4.00	2.50	1.40	0.30	0.10		
28	0.80	3.70	5.00	16.30	7.40	10.50	7.70	4.00	2.50	1.20	0.30	0.10		
29	0.50	4.30	4.60	12.50	7.70	8.60	7.70	4.00	2.50	1.20		0.10		
30	0.40	4.00	5.70	18.10	7.70	10.50	7.70	3.70	2.50	1.20		0.10		
31		2.80		14.60	15.20		7.70		2.50	1.20		0.10		
Total	34.20	53.60	197.80	472.90	569.40	660.00	428.50	163.70	94.30	53.20	16.00	4.90	2748.50	Ton
Mean	1.10	1.70	6.60	15.30	18.40	22.00	13.80	5.50	3.00	1.70	0.60	0.20		
Max	3.10	5.40	27.90	69.70	84.30	132.40	43.30	7.70	3.70	2.30	1.20	0.30	132.40	
Min	0.40	0.30	3.40	4.60	6.90	7.70	7.70	3.70	2.50	1.20	0.30	0.10	0.10	

WATER YEAR : 2009

MAE KLONG RIVER BASIN

Lam Phachi at Chom Bung , Ratchaburi (K.61)

Lat 13 - 41 - 28 N Long 99 - 27 - 08 E

Location : on right bank at the bridge on highway.

	Ban -	Amphoe Chom Bung	Changwat Ratchaburi
Drainage Area	1,844 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	39		
R-Square	0.8103		
Remarks	Continued Sediment Station		

$$QS = 0.8841 QW^{1.64230}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.00	5.20	10.30	10.30	13.90	50.60	29.10	52.30	9.20	3.00	1.70	1.20		
2	2.50	6.60	10.80	9.20	19.10	33.10	58.00	47.10	8.10	3.00	1.90	0.40		
3	1.90	23.10	13.90	7.60	29.10	25.40	90.10	42.00	7.60	3.00	1.70	0.30		
4	1.50	13.90	40.40	7.10	56.00	21.10	70.40	50.60	7.60	2.80	1.90	0.30		
5	1.20	9.20	77.20	6.60	43.70	19.10	54.10	82.20	7.10	2.50	2.30	0.30		
6	1.40	6.10	115.20	6.10	30.50	16.30	42.00	58.00	6.60	2.10	2.80	0.30		
7	1.50	5.20	72.50	6.60	26.60	17.20	38.80	48.80	5.70	2.30	2.80	0.20		
8	1.50	4.40	54.10	8.10	27.80	22.10	35.80	40.40	5.20	2.30	2.50	0.20		
9	1.90	4.80	35.80	8.60	25.40	33.10	30.50	37.20	4.80	2.50	2.30	0.60		
10	2.30	4.80	26.60	7.10	27.80	29.10	25.40	33.10	4.40	2.50	2.10	1.50		
11	1.70	6.60	21.10	6.60	33.10	25.40	24.20	30.50	4.40	2.30	2.30	0.60		
12	3.50	12.60	26.60	5.70	27.80	27.80	178.30	25.40	4.40	2.30	1.40	0.30		
13	7.10	14.50	31.70	5.20	22.10	25.40	975.50	23.10	4.40	2.10	1.50	0.20		
14	4.80	38.80	23.10	6.60	17.20	19.10	457.40	20.10	4.40	2.10	1.00	0.10		
15	3.70	204.70	19.10	15.40	14.50	16.30	251.80	17.20	4.00	2.10	1.00	0.10		
16	3.20	47.10	18.20	34.40	33.10	15.40	200.20	16.30	4.00	2.50	1.00	0.10		
17	2.30	26.60	18.20	29.10	31.70	13.90	297.40	16.30	4.00	2.10	1.00	0.10		
18	1.70	22.10	20.10	20.10	48.80	13.30	191.30	18.20	3.70	1.90	1.00	0.10		
19	1.20	18.20	18.20	14.50	42.00	18.20	324.80	40.40	3.70	1.90	1.20	0.10		
20	0.90	18.20	15.40	13.90	124.10	20.10	266.70	27.80	3.70	1.70	1.20	0.30		
21	0.90	17.20	13.90	15.40	98.20	19.10	232.50	20.10	3.70	1.70	1.70	0.30		
22	0.90	13.90	13.90	16.30	52.30	22.10	324.80	16.30	3.70	1.70	1.90	0.10		
23	0.90	11.40	17.20	14.50	33.10	19.10	450.20	13.90	3.70	1.70	1.70	0.20		
24	0.90	10.30	22.10	13.30	48.80	26.60	450.20	13.90	3.70	1.70	0.90	0.30		
25	0.90	9.20	23.10	12.00	72.50	43.70	223.10	12.60	3.70	1.90	0.90	0.20		
26	3.70	7.60	29.10	10.80	56.00	48.80	158.30	12.00	3.50	1.00	1.40	0.20		
27	7.60	12.60	20.10	10.80	35.80	43.70	118.10	10.80	3.50	1.50	1.20	0.20		
28	7.60	29.10	14.50	14.50	38.80	34.40	95.40	10.30	3.50	1.90	0.40	0.10		
29	25.40	15.40	12.00	18.20	45.40	29.10	82.20	9.70	3.20	1.90		0.20		
30	9.20	11.40	10.80	15.40	34.40	27.80	70.40	9.20	3.20	1.40		0.60		
31		10.30		13.30	42.00		58.00		3.00	1.20		0.90		
Total	106.80	641.10	845.20	383.30	1251.60	776.40	5905.00	855.80	145.40	64.60	44.70	10.60	11030.50	Ton
Mean	3.60	20.70	28.20	12.40	40.40	25.90	190.50	28.50	4.70	2.10	1.60	0.30		
Max	25.40	204.70	115.20	34.40	124.10	50.60	975.50	82.20	9.20	3.00	2.80	1.50	975.50	
Min	0.90	4.40	10.30	5.20	13.90	13.30	24.20	9.20	3.00	1.00	0.40	0.10	0.10	

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Khao Chakan , Sa Kaeo (Kgt.9)

Lat 13 - 40 - 11 N Long 102 - 04 - 38 E

Location : on right bank near Wat Khao Chakan.

	Ban Khao Chakan	Amphoe Khao Chakan	Changwat Sa Kaeo
Drainage Area	2,264 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	17		
R-Square	0.8368		
Remarks	Continued Sediment Station		

$$QS = 8.7410 QW^{1.26970}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.60	360.10	412.20	1006.00	142.30	360.10	1994.40	85.00	0.00	18.40	0.00	0.00		
2	44.50	286.10	328.60	1036.50	244.80	915.70	2543.50	360.10	0.00	18.40	0.00	0.00		
3	465.70	231.40	328.60	0.00	205.00	1239.40	2443.90	205.00	0.00	18.40	0.00	0.00		
4	35.30	205.00	574.10	1067.20	142.30	2290.80	1717.40	192.10	0.00	18.40	0.00	0.00		
5	11.00	142.30	975.70	429.90	96.00	5026.00	1785.80	244.80	0.00	18.40	0.00	0.00		
6	107.20	85.00	798.10	394.70	85.00	9213.10	2499.20	231.40	64.10	11.00	0.00	0.00		
7	107.20	54.10	465.70	483.90	74.40	5116.10	2290.80	205.00	258.40	11.00	0.00	0.00		
8	54.10	35.30	412.20	628.60	96.00	2995.90	2621.50	130.40	343.10	11.00	0.00	0.00		
9	107.20	26.60	377.30	712.30	107.20	2843.40	2843.40	107.20	258.40	11.00	0.00	0.00		
10	166.80	11.00	300.10	328.60	96.00	1994.40	3357.00	64.10	26.60	26.60	0.00	0.00		
11	1191.90	107.20	154.40	286.10	85.00	2136.10	3574.50	64.10	54.10	26.60	0.00	0.00		
12	856.50	574.10	231.40	231.40	107.20	1191.90	3042.00	286.10	11.00	44.50	0.00	0.00		
13	856.50	1532.20	142.30	107.20	483.90	1384.10	2950.00	205.00	74.40	35.30	0.00	0.00		
14	465.70	2334.30	107.20	130.40	394.70	2443.90	2488.10	154.40	130.40	18.40	0.00	0.00		
15	377.30	1335.50	107.20	179.30	154.40	2065.00	2323.40	343.10	35.30	11.00	0.00	0.00		
16	300.10	856.50	179.30	166.80	272.20	2334.30	1582.30	827.20	0.00	4.60	0.00	0.00		
17	300.10	502.20	218.10	179.30	394.70	1287.30	1144.80	465.70	0.00	4.60	0.00	0.00		
18	231.40	520.60	286.10	179.30	656.20	1144.80	1006.00	244.80	0.00	4.60	0.00	0.00		
19	54.10	272.20	377.30	166.80	769.30	3654.30	2565.80	218.10	0.00	4.60	0.00	0.00		
20	54.10	154.40	244.80	154.40	328.60	5056.00	1717.40	179.30	11.00	4.60	0.00	0.00		
21	26.60	231.40	286.10	107.20	314.30	2279.90	1239.40	154.40	244.80	0.00	0.00	0.00		
22	18.40	520.60	300.10	96.00	166.80	1239.40	1335.50	130.40	231.40	0.00	0.00	0.00		
23	11.00	798.10	377.30	96.00	166.80	2610.40	1384.10	74.40	18.40	0.00	0.00	0.00		
24	11.00	231.40	179.30	107.20	192.10	2782.90	2345.20	35.30	18.40	0.00	0.00	0.00		
25	11.00	74.40	218.10	130.40	483.90	2610.40	1582.30	35.30	11.00	0.00	0.00	0.00		
26	18.40	377.30	244.80	130.40	1335.50	2965.30	798.10	35.30	18.40	0.00	0.00	0.00		
27	18.40	547.20	192.10	179.30	1006.00	2711.30	601.20	44.50	18.40	0.00	0.00	0.00		
28	26.60	769.30	205.00	712.30	656.20	3042.00	412.20	44.50	26.60	0.00	0.00	0.00		
29	18.40	712.30	360.10	429.90	286.10	5910.30	300.10	54.10	35.30	0.00	0.00	0.00		
30	465.70	272.20	856.50	258.40	231.40	2632.70	314.30	54.10	26.60	0.00	0.00	0.00		
31		218.10		166.80	231.40		231.40		18.40	0.00	0.00	0.00		
Total	6438.80	14378.40	10240.10	10282.60	10005.70	83477.20	57035.00	5475.20	1934.50	321.40	0.00	0.00	199588.90	Ton
Mean	214.60	463.80	341.30	331.70	322.80	2782.60	1839.80	182.50	62.40	10.40	0.00	0.00		
Max	1191.90	2334.30	975.70	1067.20	1335.50	9213.10	3574.50	827.20	343.10	44.50	0.00	0.00	9213.10	
Min	11.00	11.00	107.20	0.00	74.40	360.10	231.40	35.30	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khleng Phra Prong at Ban Kaeng , Sa Kao (Kgt.12)

Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	Ban Kaeng	Amphoe Mueang	Changwat Sa Kao
Drainage Area	1,478 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2005-2009		
Number of observation	57		
R-Square	0.7997		
Remarks	Continued Sediment Station		

$$QS = 8.6549 QW^{1.03690}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	30.80	34.50	28.90	47.80	187.30	92.30	780.20	94.20	19.60	8.70	10.50	19.60		
2	28.90	34.50	30.80	53.60	201.40	187.30	538.40	80.60	19.60	12.30	12.30	19.60		
3	28.90	36.40	57.40	53.60	205.40	245.70	429.60	69.00	17.80	12.30	14.10	23.30		
4	28.90	36.40	100.10	47.80	183.30	239.60	476.10	61.20	17.80	14.10	15.90	25.20		
5	28.90	34.50	119.70	45.90	141.50	203.40	494.80	55.50	17.80	12.30	15.90	25.20		
6	28.90	30.80	113.80	45.90	107.90	183.30	522.80	49.70	15.90	14.10	15.90	25.20		
7	28.90	25.20	96.20	53.60	86.40	259.80	550.80	45.90	15.90	14.10	15.90	25.20		
8	28.90	25.20	76.70	67.00	70.90	331.10	529.00	44.00	15.90	15.90	15.90	27.00		
9	28.90	23.30	61.20	86.40	61.20	276.10	451.30	42.10	15.90	14.10	15.90	27.00		
10	30.80	36.40	53.60	96.20	53.60	270.00	324.90	42.10	14.10	15.90	15.90	27.00		
11	32.70	27.00	61.20	88.40	53.60	153.40	239.60	40.20	14.10	17.80	15.90	27.00		
12	34.50	28.90	72.80	67.00	53.60	139.50	195.30	38.30	14.10	17.80	15.90	27.00		
13	34.50	42.10	80.60	53.60	49.70	117.80	177.30	36.40	15.90	17.80	15.90	27.00		
14	32.70	51.60	72.80	42.10	45.90	102.10	155.40	34.50	15.90	15.90	15.90	27.00		
15	32.70	51.60	53.60	34.50	42.10	104.00	149.40	34.50	15.90	15.90	15.90	27.00		
16	34.50	45.90	45.90	32.70	36.40	173.30	199.30	36.40	15.90	15.90	15.90	27.00		
17	34.50	47.80	45.90	30.80	32.70	270.00	207.40	36.40	15.90	14.10	15.90	27.00		
18	34.50	49.70	63.20	30.80	30.80	297.40	207.40	34.50	15.90	12.30	15.90	25.20		
19	32.70	45.90	65.10	32.70	30.80	284.20	217.40	32.70	14.10	15.90	15.90	25.20		
20	30.80	45.90	59.30	34.50	28.90	294.40	245.70	30.80	14.10	15.90	17.80	25.20		
21	28.90	42.10	53.60	32.70	28.90	473.00	290.30	30.80	14.10	14.10	17.80	25.20		
22	28.90	42.10	51.60	34.50	27.00	414.20	355.60	30.80	14.10	14.10	17.80	25.20		
23	28.90	38.30	49.70	36.40	25.20	245.70	476.10	28.90	12.30	14.10	17.80	27.00		
24	27.00	36.40	63.20	47.80	23.30	197.30	525.90	27.00	10.50	14.10	15.90	27.00		
25	25.20	36.40	65.10	53.60	27.00	163.30	560.20	27.00	10.50	14.10	15.90	27.00		
26	23.30	36.40	55.50	49.70	30.80	145.50	448.20	25.20	8.70	14.10	15.90	27.00		
27	23.30	32.70	45.90	47.80	34.50	233.60	278.10	23.30	6.90	10.50	17.80	28.90		
28	25.20	30.80	36.40	42.10	38.30	501.00	213.40	21.50	8.70	5.10	17.80	28.90		
29	27.00	30.80	34.50	49.70	42.10	676.20	169.30	19.60	8.70	1.60		28.90		
30	32.70	32.70	42.10	113.80	42.10	799.10	137.50	19.60	8.70	1.60		28.90		
31		30.80		167.30	57.40		113.80		8.70	1.60		32.70		
Total	897.30	1143.10	1856.40	1720.30	2080.00	8073.60	10660.50	1192.70	434.00	398.10	445.80	815.60	29717.40	Ton
Mean	29.90	36.90	61.90	55.50	67.10	269.10	343.90	39.80	14.00	12.80	15.90	26.30		
Max	34.50	51.60	119.70	167.30	205.40	799.10	780.20	94.20	19.60	17.80	17.80	32.70	799.10	
Min	23.30	23.30	28.90	30.80	23.30	92.30	113.80	19.60	6.90	1.60	10.50	19.60	1.60	

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

Lat 13 - 54 - 29 N Long 101 - 51 - 32 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

	Ban Non Suk Phum	Amphoe Kabin Buri	Changwat Prachin Buri
Drainage Area	4,906 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	192		
R-Square	0.8675		
Remarks	Continued Sediment Station		

$$QS = 6.0415 QW^{1.17720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.10	182.70	135.00	409.10	708.60	482.40	3759.00	476.90	13.70	9.00	20.30	10.50		
2	57.70	218.80	159.20	512.80	705.00	992.90	3360.60	316.90	9.00	9.00	16.90	11.30		
3	82.40	159.20	216.40	504.50	748.80	1297.40	2995.40	329.80	7.50	21.20	6.80	15.30		
4	16.90	106.60	401.00	697.70	708.60	1393.70	2736.40	316.90	15.30	29.10	16.10	15.30		
5	9.00	95.10	535.10	970.00	537.90	1543.30	2392.60	241.00	30.90	21.20	17.80	12.10		
6	21.20	50.30	759.90	585.70	377.10	2693.60	2288.80	233.50	0.00	12.90	22.90	9.70		
7	19.50	37.40	852.70	366.50	258.40	3368.00	2404.80	253.40	7.50	8.20	21.20	9.70		
8	182.70	28.20	387.70	358.60	197.00	3501.00	2374.20	138.40	16.10	24.60	19.50	9.00		
9	39.20	26.40	248.40	468.70	145.30	3464.00	2355.80	128.20	22.00	9.00	21.20	6.80		
10	101.60	39.20	173.20	577.30	133.30	3221.10	2386.40	83.90	10.50	7.50	21.20	9.00		
11	59.20	23.80	148.70	446.90	114.80	2679.40	2495.20	77.60	12.90	17.80	18.60	9.70		
12	66.80	82.40	250.90	228.60	106.60	2246.20	2887.00	57.70	11.30	21.20	18.60	9.70		
13	306.60	281.10	283.60	182.70	223.70	1940.20	2736.40	50.30	12.90	15.30	6.80	9.70		
14	143.60	774.60	223.70	138.40	283.60	1369.50	2544.60	83.90	12.90	14.50	15.30	11.30		
15	216.40	1029.00	143.60	111.50	145.30	1461.70	2173.60	126.50	26.40	8.20	17.80	9.00		
16	38.30	834.00	116.50	114.80	113.20	1641.20	1676.00	350.70	25.50	7.50	10.50	8.20		
17	22.90	433.30	101.60	114.80	66.80	1560.50	1716.70	337.60	25.50	2.10	2.70	8.20		
18	23.80	614.20	311.70	113.20	39.20	1851.40	1560.50	250.90	28.20	16.90	4.60	6.00		
19	28.20	571.60	422.50	118.10	243.40	1652.80	1364.70	206.70	13.70	22.90	6.80	7.50		
20	18.60	382.40	283.60	108.20	283.60	2222.00	1734.20	166.20	25.50	30.00	9.70	8.20		
21	14.50	238.50	175.60	103.30	395.70	2772.20	1763.40	121.50	26.40	22.00	9.00	8.20		
22	15.30	141.80	147.00	111.50	197.00	2750.70	1612.30	88.70	14.50	26.40	7.50	8.20		
23	12.90	140.10	154.50	133.30	141.80	1934.20	1963.90	44.50	14.50	26.40	9.00	9.70		
24	13.70	311.70	283.60	226.20	101.60	1928.30	2331.40	30.90	0.90	17.80	6.00	9.70		
25	19.50	337.60	417.10	337.60	128.20	1869.10	3038.80	38.30	9.70	22.00	6.80	9.00		
26	21.20	248.40	390.40	314.30	170.90	2149.50	2349.70	30.00	15.30	23.80	4.60	9.70		
27	20.30	487.90	161.50	296.30	403.70	2264.50	2125.40	23.80	9.70	26.40	9.70	11.30		
28	32.70	401.00	126.50	228.60	406.40	2836.70	1466.60	21.20	9.70	23.80	9.00	14.50		
29	26.40	468.70	131.60	406.40	337.60	2793.70	1164.40	14.50	18.60	21.20		12.10		
30	35.50	455.10	248.40	401.00	187.40	3627.30	860.20	11.30	19.50	25.50		12.10		
31		414.40		476.90	166.20		679.50		29.10	19.50		13.70		
Total	1682.70	9615.50	8391.20	10163.50	8776.70	65508.50	67298.50	4651.70	495.20	562.90	356.90	314.40	177817.70	Ton
Mean	56.10	310.20	279.70	327.90	283.10	2183.60	2170.90	155.10	16.00	18.20	12.70	10.10		
Max	306.60	1029.00	852.70	970.00	748.80	3627.30	3759.00	476.90	30.90	30.00	22.90	15.30	3759.00	
Min	9.00	23.80	101.60	103.30	39.20	482.40	679.50	11.30	0.00	2.10	2.70	6.00	0.00	

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Huai Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

Lat 14 - 09 - 29 N Long 101 - 52 - 50 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

	Ban Thung Faek	Amphoe Na Di	Changwat Prachin Buri
Drainage Area	354 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2008-2009		
Number of observation	35		
R-Square	0.8253		
Remarks	Continued Sediment Station		

$$QS = 5.7814 QW^{1.38440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.40	9.70	0.60	17.20	19.40	334.50	3.90	0.30	0.10	0.00	0.00		
2	0.00	0.20	8.80	0.50	12.10	443.80	492.60	3.50	0.30	0.10	0.00	0.00		
3	0.00	0.10	15.10	0.40	9.70	72.30	197.20	3.50	0.30	0.10	0.00	0.00		
4	0.00	0.10	11.60	0.30	7.40	39.40	87.20	3.50	0.30	0.10	0.00	0.00		
5	0.00	0.00	67.50	0.60	18.90	82.10	184.50	5.00	0.30	0.10	0.00	0.00		
6	0.00	0.00	25.20	1.90	12.10	60.50	87.20	3.90	0.20	0.10	0.00	0.00		
7	0.00	0.00	12.10	8.80	12.50	55.90	46.40	3.50	0.20	0.10	0.00	0.00		
8	0.00	0.00	8.30	2.20	9.20	214.40	32.80	3.20	0.20	0.10	0.00	0.00		
9	0.00	0.00	4.60	1.20	14.10	42.20	23.50	36.70	0.10	0.10	0.00	0.00		
10	0.60	0.20	8.30	0.70	11.60	58.20	18.90	9.20	0.10	0.20	0.00	0.00		
11	0.40	0.30	7.90	0.50	7.00	38.00	16.70	5.00	0.10	0.10	0.00	0.00		
12	6.20	0.50	2.90	0.30	3.90	21.10	22.90	4.20	0.10	0.10	0.00	0.00		
13	2.50	0.30	2.00	0.50	2.50	13.50	97.60	5.40	0.10	0.10	0.00	0.00		
14	1.50	0.50	1.20	0.50	1.90	12.50	250.10	3.90	0.10	0.10	0.00	0.00		
15	0.50	3.20	1.90	0.50	1.10	25.20	122.00	3.20	0.10	0.00	0.00	0.00		
16	0.30	0.80	14.60	0.50	0.80	24.00	69.90	2.50	0.10	0.00	0.00	0.00		
17	0.10	1.10	7.40	0.50	0.70	16.10	58.20	2.20	0.10	0.00	0.00	0.00		
18	0.10	9.20	21.10	0.50	18.30	17.80	163.90	1.90	0.10	0.00	0.00	0.00		
19	0.00	0.80	24.00	0.50	7.90	25.20	67.50	1.70	0.10	0.00	0.00	0.00		
20	0.00	0.70	18.90	0.50	5.40	46.40	38.00	1.60	0.10	0.00	0.00	0.00		
21	0.00	0.80	16.70	16.70	3.50	15.10	36.70	1.40	0.10	0.00	0.00	0.00		
22	0.00	12.10	12.10	11.10	17.20	12.50	30.20	1.10	0.10	0.00	0.00	0.00		
23	0.00	172.10	18.90	7.40	17.80	14.10	21.70	0.80	0.10	0.00	0.00	0.00		
24	0.00	53.70	9.20	113.70	9.20	142.00	17.80	0.80	0.10	0.10	0.00	0.00		
25	0.00	28.90	7.00	27.70	4.60	136.20	14.10	0.80	0.10	0.10	0.00	0.00		
26	0.00	7.00	2.90	13.00	60.50	116.50	12.50	0.70	0.10	0.10	0.00	0.00		
27	0.00	6.60	1.60	10.60	49.30	72.30	10.60	0.60	0.10	0.10	0.00	0.00		
28	0.20	8.80	1.00	8.80	16.10	1334.80	8.80	0.60	0.10	0.10	0.00	0.00		
29	0.50	13.50	1.10	3.90	19.40	159.90	7.00	0.50	0.10	0.10		0.00		
30	0.50	6.20	1.10	10.10	12.50	67.50	5.80	0.50	0.10	0.00		0.00		
31		3.90		15.10	34.10		4.60		0.10	0.00		0.00		
Total	13.40	332.00	344.70	260.10	418.50	3398.90	2581.40	115.30	4.40	2.10	0.00	0.00	7470.80	Ton
Mean	0.40	10.70	11.50	8.40	13.50	113.30	83.30	3.80	0.10	0.10	0.00	0.00		
Max	6.20	172.10	67.50	113.70	60.50	1334.80	492.60	36.70	0.30	0.20	0.00	0.00	1334.80	
Min	0.00	0.00	1.00	0.30	0.70	12.50	4.60	0.50	0.10	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Tharapha , Sa Kaeo (Kgt.42)

Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

	Ban Tharapha	Amphoe Mueang	Changwat Sa Kaeo
Drainage Area	2,558 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	17		
R-Square	0.8286		
Remarks	Continued Sediment Station		

$$QS = 23.6020 QW^{0.97350}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	113.10	187.40	275.90	889.50	308.10	397.80	2801.90	154.70	3.70	0.00	0.00	0.00		
2	515.40	375.40	429.60	1120.80	314.50	566.10	1873.20	172.20	8.50	0.00	0.00	0.00		
3	365.80	275.90	448.70	1136.30	372.20	968.50	2448.20	189.60	13.20	0.00	0.00	0.00		
4	21.30	183.00	534.40	964.30	295.20	1136.30	1958.80	211.20	17.80	0.00	0.00	0.00		
5	10.80	139.40	575.50	843.70	221.00	1971.00	1527.50	259.80	22.50	0.00	0.00	0.00		
6	8.50	93.20	597.60	689.00	154.70	3323.20	1677.10	298.50	27.00	0.00	0.00	0.00		
7	7.30	50.90	534.40	626.00	115.30	3767.20	2044.30	250.10	24.80	0.00	0.00	0.00		
8	7.30	24.80	388.20	693.20	115.30	3807.30	1665.80	193.90	20.10	0.00	0.00	0.00		
9	6.10	2.50	266.30	735.10	113.10	3344.30	2235.30	150.40	3.70	0.00	0.00	0.00		
10	3.70	1.30	178.70	655.40	104.30	2554.50	2618.20	104.30	12.00	0.00	0.00	0.00		
11	8.50	27.00	349.80	420.10	95.40	1589.00	2957.10	77.70	9.70	0.00	0.00	0.00		
12	304.90	266.30	464.60	206.90	77.70	1527.50	3098.10	178.70	8.50	0.00	0.00	0.00		
13	935.20	1301.40	275.90	146.00	202.60	1224.10	2759.50	211.20	6.10	0.00	0.00	0.00		
14	718.30	1916.00	156.90	137.20	359.40	1394.00	2554.50	275.90	4.90	0.00	0.00	0.00		
15	493.20	1762.90	124.10	161.30	365.80	1799.70	1750.70	337.00	1.30	0.00	0.00	0.00		
16	298.50	801.90	117.50	217.70	369.00	1481.40	1660.70	401.00	0.00	0.00	0.00	0.00		
17	156.90	697.40	170.00	259.80	381.80	1630.00	1306.60	451.90	0.00	0.00	0.00	0.00		
18	91.00	726.70	1001.70	209.10	451.90	1126.00	1172.50	436.00	0.00	0.00	0.00	0.00		
19	57.60	663.80	581.90	209.10	877.00	1460.80	1203.50	230.70	0.00	0.00	0.00	0.00		
20	44.10	349.80	340.20	183.00	797.80	2985.30	1964.90	217.70	0.00	0.00	0.00	0.00		
21	28.20	214.50	237.20	159.10	722.50	3386.40	1306.60	180.90	0.00	0.00	0.00	0.00		
22	19.00	214.50	230.70	132.90	375.40	1873.20	1193.10	154.70	0.00	0.00	0.00	0.00		
23	8.50	413.70	356.20	124.10	401.00	1683.20	1563.40	113.10	0.00	0.00	0.00	0.00		
24	0.00	993.40	756.00	135.00	327.40	2519.10	1824.20	77.70	0.00	0.00	0.00	0.00		
25	0.00	697.40	897.80	185.20	381.80	2639.40	2068.70	39.60	0.00	0.00	0.00	0.00		
26	0.00	439.20	365.80	259.80	960.20	2497.80	1481.40	23.60	0.00	0.00	0.00	0.00		
27	0.00	432.80	256.60	217.70	852.00	2928.90	1079.40	15.50	0.00	0.00	0.00	0.00		
28	0.00	534.40	230.70	230.70	772.70	2724.20	822.80	6.10	0.00	0.00	0.00	0.00		
29	0.00	831.10	432.80	333.80	480.50	3154.40	569.20	4.90	0.00	0.00	0.00	0.00		
30	0.00	509.10	951.90	340.20	391.40	3677.10	493.20	3.70	0.00	0.00	0.00	0.00		
31		288.80		314.50	391.40		445.60		0.00	0.00	0.00	0.00		
Total	4223.20	15415.90	12527.60	12936.50	12148.40	65137.70	54126.00	5422.30	183.80	0.00	0.00	0.00	182121.40	Ton
Mean	140.80	497.30	417.60	417.30	391.90	2171.30	1746.00	180.70	5.90	0.00	0.00	0.00		
Max	935.20	1916.00	1001.70	1136.30	960.20	3807.30	3098.10	451.90	27.00	0.00	0.00	0.00	3807.30	
Min	0.00	1.30	117.50	124.10	77.70	397.80	445.60	3.70	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

NAKHON NAYOK RIVER BASIN

Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)

Lat 14 - 17 - 04 N Long 101 - 04 - 28 E

Location : on left bank near Wat Ban Pa Kha.

	Ban Pa Kha	Amphoe Ban Na	Changwat Nakhon Nayok
Drainage Area	203 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	20		
R-Square	0.7123		
Remarks	Continued Sediment Station		

$$QS = 5.1898 QW^{1.07120}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.10	35.40	7.40	24.50	260.20	35.70	20.80	8.00	5.50	0.00	0.00		
2	0.00	0.10	10.30	6.90	22.10	278.60	100.30	18.30	8.00	5.50	0.00	0.00		
3	0.00	0.00	8.00	6.90	19.30	144.00	111.40	17.40	8.00	5.50	0.00	0.00		
4	0.00	0.00	5.70	6.30	18.60	139.90	75.70	16.50	7.40	4.70	0.00	0.00		
5	0.00	0.10	8.00	6.30	16.50	300.40	55.90	17.10	7.40	2.90	0.00	0.00		
6	0.00	1.20	9.70	8.60	14.70	319.40	49.40	16.20	8.90	2.90	0.00	0.00		
7	0.00	3.70	6.90	14.40	14.70	208.30	43.00	15.30	8.60	3.20	0.00	0.00		
8	0.00	4.50	6.90	19.60	14.70	126.40	39.20	17.70	8.00	3.50	0.00	0.00		
9	0.00	5.00	6.90	17.70	11.80	105.40	33.80	15.90	7.40	4.60	0.00	0.00		
10	0.00	5.70	8.00	12.70	14.10	76.30	32.90	18.60	5.50	5.20	0.00	0.00		
11	0.00	6.00	5.20	6.90	13.80	69.00	43.60	18.30	5.20	4.40	0.00	0.00		
12	0.00	6.60	3.10	8.60	13.00	62.50	65.10	17.40	8.90	3.30	0.00	0.00		
13	0.00	8.30	2.60	8.60	13.30	80.30	46.90	16.80	7.20	3.20	0.00	0.00		
14	0.00	10.90	8.00	8.60	13.00	140.90	38.50	9.70	8.00	3.50	0.00	0.00		
15	0.00	13.00	6.90	8.60	11.50	92.70	32.90	15.00	6.90	3.50	0.00	0.00		
16	0.00	13.00	8.00	6.90	13.80	88.50	55.30	14.10	7.40	3.20	0.00	0.00		
17	0.00	16.20	12.10	6.90	14.70	90.20	95.20	13.60	6.00	3.20	0.00	0.00		
18	0.20	19.60	11.50	5.20	13.60	61.10	102.90	13.00	6.00	3.20	0.00	0.00		
19	0.20	23.00	11.50	5.20	13.60	44.90	80.30	12.70	6.00	3.20	0.00	0.00		
20	0.20	35.20	11.50	5.70	14.40	35.20	63.10	12.10	4.70	3.20	0.00	0.00		
21	0.20	44.30	15.60	8.00	16.20	30.00	55.30	11.50	3.40	3.20	0.00	0.00		
22	0.20	57.20	12.10	272.80	14.10	25.80	61.10	10.90	4.90	3.20	0.00	0.00		
23	0.00	66.40	12.70	322.70	13.60	22.60	57.20	10.60	6.00	3.20	0.00	0.00		
24	0.00	71.00	8.60	215.00	14.40	31.50	87.70	10.60	14.10	0.00	0.00	0.00		
25	0.00	72.30	8.00	157.60	14.70	60.50	88.50	10.30	10.00	0.00	0.00	0.00		
26	0.00	73.70	8.00	53.30	14.70	48.10	65.70	10.00	4.50	0.00	0.00	0.00		
27	0.00	80.30	6.30	46.90	14.70	46.20	54.60	9.70	2.90	0.00	0.00	0.00		
28	0.10	104.50	5.70	32.90	15.00	43.60	43.60	10.00	3.40	0.00	0.00	0.00		
29	0.10	129.50	5.70	24.90	19.60	39.80	35.20	9.70	4.20	0.00		0.00		
30	0.10	150.30	6.90	40.50	53.30	32.90	27.70	9.20	5.50	0.00		0.00		
31		164.90		32.90	37.60		24.00		4.90	0.00		0.00		
Total	1.30	1186.60	275.80	1385.50	533.60	3105.20	1801.70	419.00	207.30	87.00	0.00	0.00	9003.00	Ton
Mean	0.00	38.30	9.20	44.70	17.20	103.50	58.10	14.00	6.70	2.80	0.00	0.00		
Max	0.20	164.90	35.40	322.70	53.30	319.40	111.40	20.80	14.10	5.50	0.00	0.00	322.70	
Min	0.00	0.00	2.60	5.20	11.50	22.60	24.00	9.20	2.90	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

NAKHON NAYOK RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	Ban Noen Hom	Amphoe Mueang	Changwat Prachin Buri
Drainage Area	128 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1986-Cont'd		
Actual Measurement	1986-Cont'd		
Using Rating Curve Water Year	1986-2009		
Number of observation	327		
R-Square	0.7790		
Remarks	Continued Sediment Station		

$$QS = 1.5568 QW^{1.16490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	3.30	13.50	17.00	33.10	83.10	31.40	8.40	2.10	0.70	0.40	0.40		
2	0.90	2.90	13.50	17.00	26.50	59.40	33.10	7.00	1.90	0.70	0.40	0.40		
3	0.70	2.30	18.60	14.50	39.10	47.80	24.90	6.00	1.70	0.70	0.40	0.40		
4	0.60	2.10	12.10	12.60	69.30	39.90	34.00	6.70	1.60	0.70	0.40	0.00		
5	0.50	1.90	14.00	89.80	69.30	54.90	30.60	6.70	1.60	0.70	0.40	0.40		
6	0.50	1.90	15.00	84.40	44.30	141.50	22.50	6.00	1.60	0.70	0.40	0.40		
7	0.50	1.70	17.50	70.50	48.70	64.30	19.10	6.00	1.50	0.70	0.40	0.40		
8	0.50	1.60	14.00	41.60	53.10	52.20	16.50	5.40	1.40	0.70	0.40	0.40		
9	0.80	1.70	30.60	31.40	50.40	54.90	15.00	5.70	1.40	0.60	0.40	0.40		
10	0.90	1.90	51.30	22.50	36.50	60.40	13.00	6.00	1.40	0.50	0.40	0.20		
11	1.10	2.50	43.40	17.50	33.10	81.80	12.10	7.40	1.40	0.50	0.40	0.20		
12	1.70	2.90	21.70	22.50	33.10	74.30	12.60	8.10	1.40	0.50	0.40	0.20		
13	1.50	3.30	19.10	50.40	25.70	52.20	11.10	5.70	1.40	0.50	0.40	0.20		
14	1.20	3.10	15.00	33.10	20.90	39.90	10.60	5.70	1.20	0.50	0.40	0.20		
15	1.00	3.30	14.50	25.70	17.50	44.30	13.00	5.70	1.20	0.50	0.40	0.20		
16	1.00	2.70	33.10	20.10	17.00	44.30	11.60	6.00	1.20	0.50	0.40	0.20		
17	1.00	3.10	42.50	19.60	18.60	31.40	14.00	5.70	1.20	0.50	0.40	0.20		
18	1.00	5.40	41.60	21.70	23.30	25.70	13.00	4.70	1.00	0.50	0.40	0.20		
19	0.70	6.70	46.00	17.00	24.90	20.10	11.10	4.70	1.00	0.50	0.40	0.20		
20	0.70	15.50	68.00	21.70	20.90	18.10	13.00	4.40	1.00	0.50	1.30	0.20		
21	0.70	11.60	49.50	89.80	17.00	16.50	28.10	4.10	1.00	0.50	1.20	0.20		
22	0.70	8.10	71.80	61.30	19.60	16.00	20.90	4.10	1.00	0.70	1.10	0.20		
23	0.70	7.40	62.20	54.90	17.00	17.00	33.10	3.50	1.00	0.60	0.90	0.20		
24	0.70	6.00	45.10	126.20	22.50	42.50	33.10	3.30	0.90	0.50	0.80	0.20		
25	0.70	4.70	33.10	85.70	18.10	34.80	23.30	2.90	0.90	0.50	0.60	0.20		
26	1.20	5.40	25.70	58.50	18.10	27.30	19.10	2.70	0.90	0.50	0.50	0.20		
27	2.90	6.00	22.50	46.00	18.10	31.40	17.50	2.30	0.80	0.40	0.50	0.20		
28	5.70	5.40	18.60	44.30	18.60	30.60	14.50	2.30	0.70	0.40	0.40	0.20		
29	3.50	5.40	16.50	69.30	39.90	22.50	13.00	2.30	0.70	0.40		0.20		
30	3.30	6.40	19.10	41.60	24.90	19.10	11.60	2.30	0.70	0.40		0.20		
31		6.70		35.60	54.90		9.80		0.70	0.40		0.20		
Total	37.70	142.90	909.10	1363.80	974.00	1348.20	586.20	151.80	37.50	17.00	14.90	7.60	5590.70	Ton
Mean	1.30	4.60	30.30	44.00	31.40	44.90	18.90	5.10	1.20	0.50	0.50	0.20		
Max	5.70	15.50	71.80	126.20	69.30	141.50	34.00	8.40	2.10	0.70	1.30	0.40	141.50	
Min	0.50	1.60	12.10	12.60	17.00	16.00	9.80	2.30	0.70	0.40	0.40	0.00	0.00	

WATER YEAR : 2009

NAKHON NAYOK RIVER BASIN

Upper Khlong Ban at Ban Cha Om , Saraburi (Ny.6)

Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

	Ban Cha Om	Amphoe Kaeng Khoi	Changwat Saraburi
Drainage Area	126 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	190		
R-Square	0.8259		
Remarks	Continued Sediment Station		

$$QS = 2.4012 QW^{1.15500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.20	7.90	6.00	4.70	6.90	103.70	28.40	5.30	1.60	1.60	1.60	1.60		
2	20.10	7.90	6.00	4.70	5.70	43.40	58.00	5.30	1.60	1.60	1.60	1.60		
3	21.60	7.90	5.30	4.70	5.30	37.90	30.00	4.70	1.60	1.60	1.60	1.60		
4	21.60	7.20	5.30	4.70	4.70	50.60	20.10	4.70	1.60	1.60	1.60	1.60		
5	21.60	7.20	5.30	4.70	4.70	97.50	17.20	4.70	1.60	1.60	1.90	1.60		
6	23.10	6.30	5.30	5.30	4.40	81.30	13.50	4.10	1.60	1.60	1.90	1.10		
7	23.10	6.00	5.30	6.30	4.10	44.40	10.90	4.10	1.60	1.90	1.90	1.10		
8	23.10	5.30	5.30	15.60	4.10	56.90	10.20	4.10	1.60	1.90	1.90	1.10		
9	23.10	5.30	4.70	10.20	4.10	37.90	8.20	4.10	1.60	1.90	1.90	1.10		
10	23.10	5.30	4.70	6.90	3.80	27.70	8.20	4.10	1.60	1.90	1.90	1.10		
11	15.10	5.30	4.10	7.20	3.30	23.90	9.90	4.10	1.60	1.90	1.90	1.10		
12	15.10	5.30	4.10	6.00	3.30	21.60	10.20	3.80	1.60	1.90	1.90	1.10		
13	15.10	5.30	5.30	5.30	3.30	74.60	8.90	3.80	1.60	1.90	1.90	0.40		
14	15.10	5.30	5.30	5.30	3.30	43.40	7.60	3.80	1.60	1.90	1.90	0.40		
15	15.10	5.30	5.70	5.30	3.00	24.60	8.20	3.80	1.60	1.90	1.90	0.40		
16	15.10	5.30	9.50	4.70	3.50	39.50	16.70	3.80	1.10	1.90	1.90	0.40		
17	11.20	5.30	6.90	4.70	3.50	21.60	30.80	3.80	1.10	1.90	1.90	0.40		
18	11.20	5.30	6.60	4.70	3.50	17.20	22.40	3.80	1.10	1.90	1.90	0.40		
19	8.50	8.50	6.60	4.10	3.50	12.40	15.60	3.80	1.10	1.90	1.90	0.00		
20	8.50	7.90	14.00	4.10	4.10	10.20	13.50	3.80	1.90	1.90	1.90	0.00		
21	7.90	7.90	10.20	6.30	4.10	9.50	11.90	3.30	1.90	1.90	1.60	0.00		
22	7.90	7.90	7.90	6.60	3.50	7.90	11.90	3.30	2.40	1.90	1.60	0.00		
23	7.90	6.90	6.90	163.80	6.00	6.60	17.20	3.30	2.40	1.90	1.60	0.00		
24	7.90	6.00	6.00	42.40	5.30	19.40	33.90	3.30	2.40	1.90	1.60	0.00		
25	7.90	5.30	5.30	16.10	5.30	15.60	18.70	3.30	2.40	1.90	1.60	0.00		
26	8.50	5.30	4.70	9.90	5.30	13.50	14.50	3.30	2.40	1.90	1.60	0.00		
27	8.50	9.20	4.70	6.90	4.70	10.90	11.90	3.30	1.30	1.60	1.60	0.00		
28	8.50	14.50	4.10	6.60	7.60	11.60	9.90	3.30	1.30	1.60	1.60	0.00		
29	8.50	8.50	4.10	20.90	31.60	10.90	8.20	3.30	1.30	1.60		0.00		
30	8.50	6.60	4.10	11.20	17.90	8.90	6.60	3.30	1.30	1.60		0.00		
31		6.00		8.50	36.30		6.00		1.30	1.60		0.00		
Total	429.60	209.20	179.30	418.40	209.70	985.10	499.20	116.50	50.70	55.60	49.60	18.10	3221.00	Ton
Mean	14.30	6.70	6.00	13.50	6.80	32.80	16.10	3.90	1.60	1.80	1.80	0.60		
Max	23.10	14.50	14.00	163.80	36.30	103.70	58.00	5.30	2.40	1.90	1.90	1.60	163.80	
Min	7.90	5.30	4.10	4.10	3.00	6.60	6.00	3.30	1.10	1.60	1.60	0.00	0.00	

WATER YEAR : 2009
EAST COAST - GULF BASIN
Khlong Yai at Ban Si Bua Thong , Trat (Z.10)
Lat 12 - 28 - 24 N Long 102 - 28 - 49 E

Location : on left bank at Ban Si Bua Thong

	Ban Si Bua Thong	Amphoe Khao Saming	Changwat Trat
Drainage Area	779 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1978-Cont'd		
Actual Measurement	1978-Cont'd		
Using Rating Curve Water Year	2008-2009		
Number of observation	60		
R-Square	0.7803		
Remarks	Continued Sediment Station		

$$QS = 0.6565 QW^{1.50710}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	102.80	567.10	226.20	2294.80	1009.60	1177.00	128.20	15.80	3.80	2.20	1.00		
2	0.00	111.10	1659.40	176.30	1111.20	1495.80	1306.70	122.90	13.70	3.60	1.50	0.90		
3	0.00	142.40	2386.20	160.90	806.80	1509.20	947.20	112.70	7.40	3.60	1.30	0.90		
4	0.00	180.20	1171.50	192.50	706.60	1502.50	1030.70	104.50	5.90	3.10	1.20	0.90		
5	0.00	180.20	2045.40	346.20	831.30	1964.50	957.50	93.20	5.70	2.60	1.60	0.90		
6	0.00	168.60	1563.00	464.70	628.90	1924.40	906.30	81.40	6.80	2.50	1.70	0.80		
7	0.00	147.90	811.70	298.90	567.10	3070.00	1751.50	76.50	6.50	2.90	1.50	0.80		
8	0.00	107.70	512.20	216.40	471.90	2320.30	602.10	74.00	6.30	2.60	1.40	0.80		
9	0.00	93.20	1154.90	192.50	436.20	1751.50	1144.00	69.20	6.50	2.30	1.30	0.80		
10	0.00	99.60	619.90	168.60	493.80	1057.30	1549.50	64.60	6.50	1.90	1.10	0.80		
11	326.40	304.30	501.10	142.40	588.90	2111.00	739.50	62.30	6.50	1.80	1.00	0.70		
12	588.90	461.10	309.80	199.50	523.40	1345.10	674.20	53.30	6.30	1.70	0.90	0.70		
13	318.10	468.30	216.40	2227.40	450.30	906.30	866.10	41.80	6.30	1.50	0.80	0.60		
14	309.80	1036.00	238.60	2261.00	439.70	739.50	1149.40	43.90	6.10	1.50	0.70	0.60		
15	259.10	226.20	282.70	1281.30	323.60	792.20	1160.40	60.00	5.90	1.40	0.80	0.60		
16	190.10	157.20	1774.70	1232.80	309.80	906.30	584.60	58.90	5.30	1.30	0.70	0.60		
17	174.40	523.40	1262.30	1177.00	546.10	1057.30	349.10	52.20	5.10	1.20	0.50	0.60		
18	147.90	266.90	1009.60	886.10	633.30	702.00	538.50	44.90	4.70	1.10	0.30	0.60		
19	147.90	836.30	1100.40	957.50	464.70	993.90	2193.90	36.00	4.30	1.00	0.30	0.50		
20	149.70	142.40	792.20	1667.00	320.80	471.90	1325.80	30.40	4.30	1.10	0.30	0.50		
21	140.60	135.20	606.60	5656.70	241.20	375.10	660.50	29.50	4.30	1.30	1.60	0.50		
22	124.70	256.50	386.90	6070.70	318.10	343.40	730.10	28.70	4.30	1.30	1.60	0.50		
23	107.70	186.10	624.40	6912.00	326.40	293.40	816.60	27.80	4.20	1.20	1.50	0.40		
24	98.00	96.40	702.00	6834.00	615.40	340.50	866.10	28.70	4.20	1.10	1.50	0.50		
25	96.40	70.40	392.90	3785.00	490.10	392.90	354.80	26.90	3.80	1.40	1.20	0.50		
26	94.80	55.50	261.70	1502.50	464.70	2676.70	290.70	23.50	1.70	3.60	1.10	2.90		
27	94.80	54.40	213.90	1712.90	307.00	3453.70	266.90	18.00	1.00	4.30	1.00	1.30		
28	93.20	891.10	293.40	692.70	562.80	3632.00	251.30	18.80	1.70	3.80	1.00	0.80		
29	94.80	1095.00	349.10	886.10	624.40	2607.60	192.50	18.80	2.60	4.20		0.50		
30	99.60	772.90	259.10	702.00	315.30	1171.50	159.10	17.30	2.90	3.30		0.30		
31		1495.80		1227.20	1160.40		133.50		2.80	2.90		0.10		
Total	3656.90	10865.10	24069.10	50457.00	18375.00	42917.40	25676.10	1648.90	169.40	70.90	31.60	22.90	177960.30	Ton
Mean	121.90	350.50	802.30	1627.60	592.70	1430.60	828.30	55.00	5.50	2.30	1.10	0.70		
Max	588.90	1495.80	2386.20	6912.00	2294.80	3632.00	2193.90	128.20	15.80	4.30	2.20	2.90	6912.00	
Min	0.00	54.40	213.90	142.40	241.20	293.40	133.50	17.30	1.00	1.00	0.30	0.10	0.00	

WATER YEAR : 2009**EAST COAST - GULF BASIN****Khlong Prasae at Ban Chak Khrok , Rayong (Z.11)**

Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

	Ban Chak Khrok	Amphoe Klaeng	Changwat Rayong
Drainage Area	1,236 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	1996-2009		
Number of observation	233		
R-Square	0.7651		
Remarks	Continued Sediment Station		

$$QS = 6.1275 QW^{1.15470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	21.80	135.90	415.20	54.20	58.00	198.90	392.60	181.60	61.80	43.00	43.00	43.00		
2	13.60	112.60	392.60	54.20	56.10	276.40	542.00	164.50	61.80	43.00	41.10	44.80		
3	9.00	79.50	344.90	83.50	56.10	221.30	774.60	143.00	58.00	43.00	41.10	44.80		
4	9.00	61.80	335.40	91.50	54.20	112.60	913.40	124.20	56.10	41.10	46.60	44.80		
5	16.80	56.10	344.90	101.80	54.20	91.50	904.50	105.90	56.10	43.00	43.00	43.00		
6	75.50	52.30	444.50	93.60	52.30	93.60	926.60	95.60	56.10	43.00	43.00	41.10		
7	52.30	52.30	399.10	133.50	48.50	77.50	1002.50	79.50	56.10	43.00	43.00	41.10		
8	41.10	56.10	341.70	184.00	46.60	85.50	1215.40	63.70	54.20	43.00	41.10	41.10		
9	46.60	56.10	319.70	176.70	44.80	138.20	1361.40	79.50	54.20	43.00	41.10	41.10		
10	65.70	54.20	304.90	179.10	44.80	99.70	1220.10	75.50	54.20	43.00	41.10	43.00		
11	85.50	69.60	302.00	103.90	46.60	81.50	1083.60	71.50	54.20	43.00	43.00	43.00		
12	83.50	71.50	329.10	77.50	54.20	114.90	1321.80	65.70	54.20	43.00	43.00	41.10		
13	61.80	145.30	296.30	99.70	52.30	179.10	1456.10	75.50	52.30	41.10	43.00	56.10		
14	52.30	240.00	279.20	105.90	43.00	179.10	1267.70	83.50	52.30	39.30	43.00	44.80		
15	41.10	267.90	273.60	75.50	41.10	169.40	1139.80	85.50	52.30	41.10	43.00	39.30		
16	25.20	316.60	270.80	71.50	43.00	237.20	975.60	85.50	52.30	48.50	43.00	39.30		
17	7.60	357.50	335.40	65.70	48.50	131.20	807.20	93.60	52.30	43.00	43.00	41.10		
18	0.00	379.80	402.30	59.90	93.60	97.70	835.80	91.50	52.30	39.30	43.00	41.10		
19	0.00	338.60	341.70	56.10	79.50	85.50	1326.70	85.50	52.30	39.30	43.00	43.00		
20	0.00	242.80	287.80	54.20	65.70	83.50	1144.50	79.50	52.30	37.50	43.00	44.80		
21	0.00	167.00	273.60	63.70	61.80	121.80	1083.60	75.50	52.30	35.70	43.00	44.80		
22	0.00	176.70	259.50	147.70	56.10	234.40	1088.20	73.50	50.40	41.10	43.00	44.80		
23	0.00	174.30	145.30	332.30	50.40	216.30	1351.50	69.60	50.40	41.10	43.00	44.80		
24	16.80	154.90	131.20	316.60	46.60	287.80	1406.10	67.60	50.40	39.30	44.80	43.00		
25	46.60	150.10	69.60	231.70	46.60	412.00	1401.10	69.60	50.40	44.80	44.80	43.00		
26	46.60	206.30	58.00	157.30	46.60	1130.40	1168.10	67.60	50.40	79.50	44.80	41.10		
27	48.50	262.30	54.20	87.50	54.20	1431.10	827.60	67.60	50.40	56.10	43.00	46.60		
28	54.20	766.50	50.40	83.50	89.50	1215.40	467.40	65.70	50.40	46.60	41.10	48.50		
29	75.50	948.90	54.20	81.50	101.80	908.90	299.20	65.70	50.40	44.80		43.00		
30	69.60	722.10	59.90	63.70	114.90	618.60	237.20	63.70	46.60	43.00		41.10		
31		451.00		58.00	114.90		206.30		43.00	43.00		41.10		
Total	1066.20	7326.60	7917.00	3545.50	1866.50	9331.00	30148.20	2616.40	1640.50	1358.20	1201.60	1343.20	69360.90	Ton
Mean	35.50	236.30	263.90	114.40	60.20	311.00	972.50	87.20	52.90	43.80	42.90	43.30		
Max	85.50	948.90	444.50	332.30	114.90	1431.10	1456.10	181.60	61.80	79.50	46.60	56.10	1456.10	
Min	0.00	52.30	50.40	54.20	41.10	77.50	206.30	63.70	43.00	35.70	41.10	39.30	0.00	

WATER YEAR : 2009

EAST COAST - GULF BASIN

Khlung Phayat at Ban Chaman , Chanthaburi (Z.14)

Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

Location : on left bank at the bridge of Khlung Phayat near Wat Chaman.

	Ban Chaman	Amphoe Makham	Changwat Chanthaburi
Drainage Area	229 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1978-Cont'd		
Actual Measurement	1978-Cont'd		
Using Rating Curve Water Year	1994-2009		
Number of observation	283		
R-Square	0.7999		
Remarks	Continued Sediment Station		

$$QS = 1.0027 QW^{1.44320}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	6.20	82.30	23.00	189.20	155.20	362.20	37.80	5.80	2.30	0.00	0.00		
2	2.30	5.80	61.90	53.70	134.60	127.50	228.50	33.90	4.90	2.10	0.20	0.90		
3	2.10	4.20	94.90	40.20	99.60	94.90	165.80	33.90	4.50	1.80	0.50	0.70		
4	1.50	3.20	98.40	69.20	94.90	478.00	254.20	33.90	4.50	0.30	0.30	0.00		
5	1.30	3.20	316.50	100.80	97.20	565.20	296.40	30.80	2.30	1.80	0.70	0.00		
6	1.50	2.10	173.40	112.90	103.20	190.70	178.10	28.60	3.90	1.80	0.70	0.00		
7	4.50	1.80	69.20	105.60	77.80	141.90	155.20	29.40	3.90	1.80	0.90	0.00		
8	2.30	1.30	48.50	59.10	76.70	175.00	105.60	27.20	4.20	1.50	0.70	0.00		
9	1.80	1.30	320.60	45.10	66.00	164.20	121.90	24.40	4.20	0.70	0.50	0.00		
10	2.60	2.60	127.50	37.00	98.40	124.70	92.60	23.70	3.90	1.10	0.30	0.00		
11	4.50	3.50	78.90	31.60	189.20	100.80	189.20	21.60	3.90	0.90	0.30	0.00		
12	4.50	3.50	78.90	43.50	131.80	93.70	168.80	19.70	4.20	0.30	0.70	0.00		
13	6.20	4.50	50.20	256.00	99.60	82.30	176.60	20.30	3.90	0.20	0.50	0.00		
14	6.20	9.60	41.80	91.40	81.20	84.50	119.20	17.70	3.90	0.20	0.50	0.00		
15	4.50	6.70	46.00	103.20	72.40	72.40	136.10	17.70	3.20	0.30	0.20	0.00		
16	3.90	5.30	73.50	83.40	59.10	66.00	90.20	17.70	3.90	0.10	0.70	0.00		
17	2.30	8.10	49.40	63.90	69.20	58.20	99.60	16.50	1.30	0.00	0.00	0.00		
18	2.10	9.60	208.50	52.90	59.10	56.40	164.20	15.30	3.90	0.00	0.00	0.00		
19	2.60	4.90	105.60	44.30	52.90	52.90	121.90	15.30	2.90	0.00	0.30	0.00		
20	3.20	4.50	119.20	343.30	48.50	49.40	116.70	14.70	3.20	0.00	0.30	0.00		
21	2.90	8.10	65.00	128.90	46.00	44.30	109.20	12.40	2.30	1.80	0.20	0.00		
22	2.10	10.20	65.00	161.20	50.20	41.80	94.90	11.80	2.30	1.80	0.50	1.80		
23	0.90	9.10	62.90	424.00	46.80	44.30	230.20	11.30	2.60	1.80	0.50	2.90		
24	1.10	11.80	47.70	187.60	44.30	89.10	99.60	10.70	2.10	0.90	0.50	1.80		
25	1.10	7.60	44.30	110.50	67.10	216.80	85.70	9.60	2.10	1.30	0.30	1.50		
26	0.70	7.60	37.00	78.90	67.10	707.10	72.40	8.60	2.10	1.10	0.10	3.50		
27	7.60	29.40	34.60	139.00	65.00	784.40	61.90	7.10	2.10	0.70	0.20	2.90		
28	18.40	245.60	35.40	84.50	50.20	539.10	55.50	8.60	2.30	0.30	0.00	3.20		
29	21.00	195.60	23.70	89.10	86.80	250.70	50.20	5.80	2.10	0.00		2.30		
30	5.30	146.30	27.20	90.20	99.60	168.80	45.10	4.90	2.30	0.30		2.30		
31		393.00		140.40	99.60		42.60		3.50	0.10		2.30		
Total	124.20	1156.20	2688.00	3394.40	2623.30	5820.30	4290.30	570.90	102.20	27.30	10.60	26.10	20833.80	Ton
Mean	4.10	37.30	89.60	109.50	84.60	194.00	138.40	19.00	3.30	0.90	0.40	0.80		
Max	21.00	393.00	320.60	424.00	189.20	784.40	362.20	37.80	5.80	2.30	0.90	3.50	784.40	
Min	0.70	1.30	23.70	23.00	44.30	41.80	42.60	4.90	1.30	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

EAST COAST - GULF BASIN

Khlong Sato at Ban Nong Bua , Trat (Z.30)

Lat 12 - 32 - 22 N Long 102 - 26 - 58 E

Location : on right bank at Ban Nong Bua.

	Ban Nong Bua	Amphoe Khao Saming	Changwat Trat
Drainage Area	316 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2005-2009		
Number of observation	69		
R-Square	0.7086		
Remarks	Continued Sediment Station		

$$QS = 0.3263 QW^{1.83070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	164.60	43.60	596.30	274.50	396.30	39.60	0.10	0.00	0.00	0.00		
2	0.00	0.00	461.60	38.00	247.20	257.00	423.70	35.00	0.00	0.00	0.00	0.00		
3	0.00	0.60	794.20	43.60	163.10	205.40	282.10	28.50	0.00	0.00	0.00	0.00		
4	0.00	5.10	292.50	47.00	132.90	723.70	225.90	29.90	0.50	0.00	0.00	0.00		
5	0.00	4.90	521.00	175.30	163.10	1147.40	313.70	20.50	0.50	0.00	0.00	0.00		
6	0.00	6.00	338.40	257.00	144.10	763.60	201.00	16.40	0.50	0.00	0.00	0.00		
7	0.00	2.00	145.50	118.30	105.60	1579.50	346.90	14.70	0.50	0.00	0.00	0.00		
8	0.00	0.10	99.50	76.80	90.10	521.00	169.20	14.70	0.50	0.00	0.00	0.00		
9	0.00	0.30	507.50	61.60	76.80	429.90	375.60	14.70	0.50	0.00	0.00	0.00		
10	0.00	0.00	109.30	45.30	114.40	319.20	352.50	11.50	0.60	0.00	0.00	0.00		
11	0.00	14.00	185.80	38.00	124.80	494.20	212.10	10.00	0.50	0.00	0.00	0.00		
12	0.00	13.00	79.00	29.20	114.40	313.70	177.40	13.40	0.50	0.00	0.00	0.00		
13	0.00	16.40	53.10	1297.30	91.30	196.60	335.70	12.70	0.40	0.00	0.00	0.00		
14	0.00	91.30	47.00	436.20	122.20	172.20	284.70	10.90	0.30	0.00	0.00	0.00		
15	0.00	37.20	45.30	399.30	73.60	161.60	201.00	17.50	0.30	0.00	0.00	0.00		
16	0.00	16.40	490.90	352.50	60.60	212.10	131.60	27.20	0.30	0.00	0.00	0.00		
17	0.90	151.30	254.50	259.40	85.60	201.00	111.80	22.70	0.20	0.00	0.00	0.00		
18	0.70	58.70	163.10	152.70	141.30	145.50	126.20	14.40	0.10	0.00	0.00	0.00		
19	1.10	29.20	160.10	113.10	148.40	257.00	361.10	8.70	0.00	0.00	0.00	0.00		
20	0.90	9.50	108.10	665.70	97.10	118.30	157.10	7.40	0.00	0.00	0.00	0.00		
21	0.70	19.70	80.00	3561.80	117.00	91.30	175.30	7.40	0.10	0.00	0.00	0.00		
22	0.60	42.80	66.50	2470.20	117.00	84.40	152.70	7.20	0.10	0.00	0.00	0.00		
23	0.00	19.70	69.50	3147.10	71.60	109.30	272.00	6.20	0.10	0.00	0.00	0.00		
24	0.00	12.70	79.00	2248.00	64.50	106.80	161.60	6.20	0.10	0.00	0.00	0.00		
25	0.00	9.20	57.70	899.90	63.50	137.10	113.10	5.80	0.00	0.00	0.00	0.00		
26	0.00	6.40	45.30	375.60	75.70	1284.50	87.80	3.20	0.00	0.00	0.00	0.00		
27	0.00	5.50	42.00	266.90	82.20	2073.30	66.50	3.40	0.00	0.00	0.00	0.00		
28	0.00	214.40	79.00	164.60	139.90	2490.90	55.90	3.80	0.00	0.00	0.00	0.00		
29	0.00	327.40	77.90	163.10	97.10	910.80	54.00	3.80	0.00	0.00		0.00		
30	0.00	269.40	59.60	130.20	86.70	358.20	41.20	4.10	0.00	0.00		0.00		
31		555.50		198.80	366.90		39.60		0.00	0.00		0.00		
Total	4.90	1938.70	5677.50	18276.10	4175.00	16140.00	6405.30	421.50	6.70	0.00	0.00	0.00	53045.70	Ton
Mean	0.20	62.50	189.30	589.60	134.70	538.00	206.60	14.10	0.20	0.00	0.00	0.00		
Max	1.10	555.50	794.20	3561.80	596.30	2490.90	423.70	39.60	0.60	0.00	0.00	0.00	3561.80	
Min	0.00	0.00	42.00	29.20	60.60	84.40	39.60	3.20	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009**EAST COAST - GULF BASIN****Khlong Prakaet at Ban Prakaet , Chanthaburi (Z.42)**

Lat 12 - 57 - 32 N Long 101 - 51 - 57 E

Location : on left bank at Ban Prakaet, Tambon Sam Phinong.

	Ban Prakaet	Amphoe Kaeng Hang Maeo	Changwat Chanthaburi
Drainage Area	451 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	1999-2009		
Number of observation	120		
R-Square	0.8404		
Remarks	Continued Sediment Station		

$$QS = 2.3919 QW^{1.51430}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	45.10	20.30	48.00	357.30	1717.00	42.10	2.00	0.80	12.90	12.00		
2	0.00	63.50	35.20	51.10	28.60	398.50	3102.20	36.50	1.40	0.80	12.90	12.00		
3	0.00	57.70	33.80	104.90	15.90	187.50	825.40	23.70	1.40	0.80	12.90	12.00		
4	0.00	49.50	31.20	43.60	15.90	130.50	438.70	28.60	1.10	0.80	12.90	12.00		
5	0.00	40.70	77.90	37.90	14.90	379.30	370.50	27.40	1.10	0.40	12.90	12.00		
6	0.00	29.90	75.80	65.50	14.90	344.30	269.80	23.70	0.80	0.40	12.90	12.00		
7	0.00	28.60	43.60	184.00	20.30	121.80	374.90	21.40	0.80	0.00	12.90	12.00		
8	0.00	35.20	29.90	121.80	19.20	119.30	1190.60	20.30	0.80	0.00	12.90	12.00		
9	0.00	31.20	21.40	91.10	17.00	187.50	777.90	19.20	0.80	0.00	12.90	12.00		
10	0.00	31.20	22.50	55.80	21.40	107.20	331.50	17.00	0.80	0.00	12.90	12.00		
11	0.00	31.20	35.20	37.90	408.50	102.50	1043.40	14.90	0.80	0.00	12.90	12.00		
12	0.00	26.10	27.40	145.60	88.80	75.80	1003.70	13.90	0.80	0.00	12.90	12.00		
13	0.00	2.00	19.20	48.00	48.00	116.80	825.40	13.90	0.80	0.00	12.90	12.00		
14	0.00	1.10	13.90	42.10	29.90	1027.50	600.60	20.30	0.80	0.00	12.90	12.00		
15	0.00	1.10	9.30	37.90	22.50	238.70	959.00	22.50	0.80	0.00	12.90	12.00		
16	0.00	0.20	31.20	32.50	19.20	164.40	298.00	19.20	0.80	0.00	12.90	12.00		
17	0.00	8.40	119.30	24.90	24.90	151.80	258.00	18.10	0.80	0.00	12.00	12.00		
18	0.00	23.70	67.50	17.00	40.70	102.50	1140.80	14.90	0.80	0.00	12.00	12.00		
19	0.00	6.30	31.20	13.90	43.60	84.40	1140.80	12.90	0.80	0.00	12.00	12.00		
20	0.00	3.60	21.40	11.10	63.50	923.20	340.00	12.90	0.80	0.00	12.00	12.00		
21	0.00	11.10	27.40	12.90	39.30	238.70	234.90	12.90	0.80	0.00	12.00	12.00		
22	0.00	5.80	24.90	39.30	35.20	261.90	238.70	12.90	0.80	0.00	12.00	12.00		
23	0.00	6.80	310.40	1190.60	19.20	408.50	449.00	12.90	0.80	1.70	12.00	12.00		
24	0.00	12.00	48.00	880.80	17.00	306.30	366.10	12.90	0.80	0.40	12.00	12.00		
25	0.00	7.60	27.40	124.70	145.60	2285.10	164.40	12.90	0.80	0.40	12.00	12.00		
26	0.00	23.70	20.30	69.60	227.40	2428.90	114.40	12.90	0.80	0.40	12.00	12.00		
27	0.00	88.80	15.90	54.20	449.00	771.20	91.10	12.90	0.80	0.10	12.00	12.00		
28	0.00	528.30	11.10	55.80	73.70	1067.50	77.90	12.90	0.80	0.10	12.00	12.00		
29	0.00	231.10	11.10	39.30	449.00	764.50	67.50	12.90	0.80	0.10		12.00		
30	0.00	59.60	20.30	27.40	139.50	258.00	57.70	12.90	0.80	0.00		12.00		
31		69.60		28.60	258.00		49.50		0.80	0.00		12.00		
Total	0.00	1515.60	1308.80	3710.10	2858.60	14111.40	18919.40	552.40	27.80	7.20	350.40	372.00	43733.70	Ton
Mean	0.00	48.90	43.60	119.70	92.20	470.40	610.30	18.40	0.90	0.20	12.50	12.00		
Max	0.00	528.30	310.40	1190.60	449.00	2428.90	3102.20	42.10	2.00	1.70	12.90	12.00	3102.20	
Min	0.00	0.00	9.30	11.10	14.90	75.80	49.50	12.90	0.80	0.00	12.00	12.00	0.00	

WATER YEAR : 2009
EAST COAST - GULF BASIN
Khlong Ko Lae at Ban Nong Bon , Trat (Z.45)

Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

	Ban Nong Bon	Amphoe Bo Rai	Changwat Trat
Drainage Area	58 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2005-2009		
Number of observation	65		
R-Square	0.8303		
Remarks	Continued Sediment Station		

$$QS = 0.7574 QW^{2.06740}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.20	71.10	61.70	67.90	134.60	298.20	14.00	0.20	0.00	0.00	0.00		
2	0.10	0.10	1289.60	39.90	71.10	268.20	118.10	13.00	0.20	0.00	0.00	0.00		
3	0.00	0.20	118.10	44.90	97.80	152.20	146.20	13.00	0.10	0.00	0.00	0.00		
4	0.00	0.00	64.80	83.90	134.60	158.30	447.30	13.00	0.10	0.00	0.00	0.00		
5	0.00	0.10	146.20	190.70	140.30	363.10	93.10	12.00	0.10	0.00	0.00	0.00		
6	0.00	0.00	75.30	83.90	107.70	1117.30	233.70	11.00	0.10	0.00	0.00	0.00		
7	0.00	0.00	47.50	83.90	97.80	2112.00	118.10	10.10	0.10	0.00	0.00	0.00		
8	0.00	0.00	52.90	61.70	67.90	473.00	79.60	10.10	0.10	0.00	0.00	0.00		
9	0.10	0.00	50.20	26.70	118.10	134.60	158.30	9.20	0.00	0.00	0.00	0.00		
10	0.00	0.00	44.90	16.20	107.70	204.50	140.30	9.20	0.00	0.00	0.00	0.00		
11	0.00	0.00	42.30	55.80	140.30	642.80	97.80	11.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	32.90	197.60	102.70	241.40	140.30	11.00	0.00	0.00	0.00	0.00		
13	0.00	79.60	47.50	1093.70	249.10	512.90	540.50	8.40	0.00	0.00	0.00	0.00		
14	0.00	93.10	39.90	190.70	67.90	298.20	218.90	6.80	0.00	0.00	0.00	0.00		
15	0.00	42.30	83.90	211.70	44.90	268.20	184.00	4.80	0.00	0.00	0.00	0.00		
16	0.10	93.10	88.50	123.50	28.70	226.30	88.50	1.80	0.00	0.00	0.00	0.00		
17	0.00	64.80	197.60	268.20	61.70	146.20	107.70	1.30	0.00	0.00	0.00	0.00		
18	0.00	58.70	75.30	340.80	88.50	526.60	71.10	0.90	0.00	0.00	0.00	0.00		
19	0.10	37.50	71.10	75.30	102.70	329.80	102.70	0.80	0.00	0.00	0.00	0.00		
20	0.00	47.50	58.70	4941.90	64.80	211.70	83.90	0.60	0.00	0.00	0.00	0.00		
21	0.10	47.50	52.90	1070.40	97.80	164.50	129.00	0.60	0.00	0.00	0.00	0.00		
22	0.00	42.30	47.50	1977.90	64.80	97.80	129.00	0.50	0.00	0.00	0.00	0.00		
23	0.00	42.30	58.70	1341.20	93.10	55.80	226.30	0.40	0.00	0.00	0.00	0.00		
24	0.30	107.70	71.10	319.10	129.00	102.70	112.80	0.30	0.00	0.00	0.00	0.00		
25	0.10	597.90	32.90	140.30	102.70	1474.70	79.60	0.20	0.00	0.00	0.00	0.00		
26	0.00	129.00	55.80	158.30	55.80	1643.60	58.70	0.10	0.00	0.00	0.00	0.00		
27	0.00	64.80	47.50	88.50	258.50	3494.90	35.20	0.20	0.00	0.00	0.00	0.00		
28	0.00	129.00	52.90	64.80	278.00	1420.50	18.60	0.20	0.00	0.00	0.00	0.00		
29	0.00	71.10	75.30	79.60	64.80	140.30	17.40	0.10	0.00	0.00	0.00	0.00		
30	0.00	42.30	97.80	75.30	329.80	118.10	17.40	0.10	0.00	0.00	0.00	0.00		
31		39.90		152.20	93.10		17.40		0.00	0.00		0.00		
Total	1.00	1831.00	3290.70	13660.30	3529.60	17234.80	4309.70	164.70	1.00	0.00	0.00	0.00	44022.80	Ton
Mean	0.00	59.10	109.70	440.70	113.90	574.50	139.00	5.50	0.00	0.00	0.00	0.00		
Max	0.30	597.90	1289.60	4941.90	329.80	3494.90	540.50	14.00	0.20	0.00	0.00	0.00	4941.90	
Min	0.00	0.00	32.90	16.20	28.70	55.80	17.40	0.10	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2009**PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)**

Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

	Ban	Song Phi Nong	Amphoe	Kaeng Krachan	Changwat	Phetchaburi
Drainage Area	2,220	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1997-Cont'd					
Actual Measurement	1997-Cont'd					
Using Rating Curve Water Year	2004-2009					
Number of observation	141					
R-Square	0.7647					
Remarks	Continued Sediment Station					

$$QS = 1.7223 QW^{1.12950}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	100.20	121.50	59.20	64.40	115.80	197.20	199.40	201.60	60.50	103.30	16.00	107.90		
2	106.40	121.50	69.80	63.10	150.40	195.10	199.40	201.60	60.50	95.50	16.80	107.90		
3	107.90	121.50	69.80	63.10	195.10	195.10	71.30	104.80	60.50	26.00	16.80	109.50		
4	106.40	121.50	71.30	64.40	192.90	195.10	54.20	92.50	61.80	25.00	17.60	109.50		
5	107.90	109.50	72.80	72.80	192.90	195.10	53.10	92.50	60.50	24.00	14.00	114.20		
6	107.90	109.50	78.80	81.80	190.70	197.20	49.60	92.50	59.20	22.40	12.60	136.80		
7	107.90	109.50	72.80	90.90	188.50	197.20	50.80	92.50	59.20	25.00	12.60	136.80		
8	109.50	109.50	72.80	78.80	188.50	197.20	53.10	94.00	60.50	25.00	13.30	121.50		
9	129.10	111.10	74.20	33.90	188.50	197.20	57.90	94.00	60.50	25.00	20.80	104.80		
10	133.00	111.10	71.30	20.00	188.50	192.90	83.30	146.50	40.60	36.10	22.40	103.30		
11	133.00	112.60	72.80	15.30	188.50	195.10	90.90	148.40	22.40	39.50	23.20	106.40		
12	112.60	114.20	61.80	11.90	192.90	195.10	67.10	150.40	25.00	27.00	23.20	106.40		
13	109.50	114.20	51.90	16.00	195.10	195.10	24.00	150.40	25.00	27.00	55.40	104.80		
14	109.50	125.30	51.90	16.00	199.40	195.10	21.60	131.00	25.00	38.30	112.60	109.50		
15	107.90	115.80	51.90	10.60	199.40	195.10	21.60	107.90	25.00	55.40	109.50	109.50		
16	100.20	115.80	51.90	14.60	197.20	195.10	22.40	107.90	25.00	53.10	107.90	107.90		
17	100.20	115.80	51.90	14.60	197.20	195.10	28.90	109.50	25.00	45.10	109.50	101.70		
18	100.20	115.80	33.90	19.20	197.20	192.90	29.90	109.50	25.00	1.60	140.70	101.70		
19	106.40	121.50	14.00	87.90	197.20	195.10	23.20	103.30	25.00	0.60	92.50	101.70		
20	114.20	123.40	9.30	106.40	197.20	188.50	25.00	95.50	26.00	0.60	131.00	101.70		
21	115.80	117.70	7.40	106.40	201.60	195.10	47.30	95.50	26.00	0.60	129.10	101.70		
22	115.80	119.60	8.80	104.80	203.80	192.90	46.20	95.50	24.00	0.60	129.10	101.70		
23	115.80	117.70	6.00	95.50	201.60	146.50	55.40	92.50	22.40	4.30	138.70	104.80		
24	117.70	119.60	6.50	86.30	201.60	104.80	77.20	68.40	22.40	3.90	95.50	140.70		
25	117.70	103.30	6.90	84.80	201.60	104.80	77.20	59.20	22.40	3.60	104.80	150.40		
26	117.70	103.30	24.00	84.80	201.60	104.80	77.20	59.20	22.40	16.00	107.90	156.40		
27	119.60	111.10	28.00	83.30	197.20	104.80	77.20	59.20	22.40	16.00	107.90	112.60		
28	121.50	109.50	16.80	86.30	199.40	134.90	78.80	59.20	36.10	16.00	107.90	95.50		
29	121.50	90.90	45.10	92.50	197.20	195.10	121.50	59.20	50.80	16.00		100.20		
30	121.50	61.80	46.20	103.30	195.10	197.20	160.60	59.20	75.70	16.00		115.80		
31		49.60		114.20	195.10		203.80		103.30	16.00		111.10		
Total	3394.50	3424.70	1359.80	1987.90	5948.90	5382.40	2249.10	3133.40	1260.10	804.50	1989.30	3494.40	34429.00	Ton
Mean	113.20	110.50	45.30	64.10	191.90	179.40	72.60	104.40	40.60	26.00	71.00	112.70		
Max	133.00	125.30	78.80	114.20	203.80	197.20	203.80	201.60	103.30	103.30	140.70	156.40	203.80	
Min	100.20	49.60	6.00	10.60	115.80	104.80	21.60	59.20	22.40	0.60	12.60	95.50	0.60	

WATER YEAR : 2009

PHETCHABURI RIVER BASIN

Huai Mae Prachan at Ban Sa Yai Non , Phetchaburi (B.6)

Lat 12 - 56 - 00 N Long 99 - 46 - 59 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet - Kaeng Krachan Reservoir Road.

	Ban Sa Yai Non	Amphoe Kaeng Krachan	Changwat Phetchaburi
Drainage Area	1,003 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	22		
R-Square	0.8961		
Remarks	Continued Sediment Station		

$$QS = 3.9923 QW^{1.30500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.70	5.70	49.70	1.10	0.90	2.40	23.60	1.80	63.90	24.80	21.20	7.90		
2	18.20	5.70	45.50	1.10	1.40	1.40	72.80	1.50	68.10	32.20	21.20	8.30		
3	27.20	5.30	41.40	1.10	5.30	1.00	132.00	1.40	68.10	33.50	20.50	7.00		
4	29.70	8.30	94.00	1.10	273.40	1.00	83.20	1.30	63.90	34.80	18.20	6.60		
5	30.90	8.80	102.20	1.10	218.80	1.00	75.40	1.20	61.80	32.20	18.20	6.20		
6	27.20	5.70	68.10	1.10	61.80	1.00	51.60	1.20	63.90	26.00	18.20	5.70		
7	13.90	6.20	99.50	1.20	68.10	1.00	36.10	1.20	61.80	24.80	18.20	5.70		
8	8.30	6.60	107.80	1.50	49.70	0.90	23.60	1.10	57.70	45.50	18.20	5.30		
9	9.90	7.40	105.00	2.40	44.10	1.20	18.20	1.10	59.70	59.70	19.00	6.60		
10	9.90	9.90	99.50	1.70	41.40	1.80	14.60	1.00	59.70	63.90	18.20	6.20		
11	5.00	11.20	94.00	2.90	40.00	2.60	16.70	1.00	57.70	59.70	17.50	7.00		
12	7.00	21.20	85.90	1.50	37.40	5.00	68.10	0.90	57.70	53.60	16.70	6.60		
13	26.00	13.90	68.10	1.20	36.10	7.40	511.30	0.90	57.70	46.90	19.00	6.60		
14	28.40	11.20	23.60	1.20	34.80	11.80	352.70	0.90	61.80	45.50	19.00	5.70		
15	27.20	16.00	18.20	1.10	32.20	12.50	192.60	0.90	61.80	45.50	17.50	4.00		
16	28.40	17.50	16.70	1.10	30.90	11.20	88.60	1.00	57.70	42.70	16.70	5.70		
17	29.70	13.90	15.30	1.00	30.90	23.60	167.30	1.00	57.70	11.80	17.50	4.70		
18	26.00	11.80	13.20	1.00	20.50	63.90	85.90	1.00	55.60	9.20	13.20	7.00		
19	11.20	13.20	12.50	1.00	2.00	32.20	66.00	1.00	53.60	61.80	9.20	7.90		
20	4.70	19.00	12.50	1.00	1.20	45.50	63.90	1.00	57.70	59.70	8.30	7.00		
21	2.90	14.60	11.80	1.00	1.10	38.70	41.40	1.00	59.70	53.60	8.80	6.60		
22	11.20	11.80	12.50	1.00	1.10	29.70	38.70	1.00	57.70	41.40	10.50	6.20		
23	9.20	10.50	12.50	1.00	1.10	42.70	29.70	0.90	61.80	38.70	9.90	4.30		
24	4.00	9.20	11.20	0.90	1.10	48.20	21.20	0.90	61.80	28.40	8.80	4.30		
25	5.30	8.80	6.20	0.90	1.10	102.20	15.30	0.70	55.60	24.80	8.80	4.50		
26	5.00	8.30	3.80	0.90	1.10	142.80	8.80	0.70	44.10	24.80	8.80	5.30		
27	5.00	14.60	1.20	0.90	1.20	94.00	5.70	0.70	36.10	23.60	8.30	7.90		
28	6.20	45.50	1.10	0.90	1.20	51.60	4.00	0.70	29.70	22.80	7.40	9.20		
29	7.00	116.30	1.10	0.90	1.20	42.70	2.60	1.70	27.20	21.20		11.80		
30	5.30	110.60	1.10	0.90	1.20	32.20	2.50	32.20	19.70	21.20		13.20		
31		68.10		0.90	2.30		2.20		19.70	21.20		12.50		
Total	446.60	636.80	1235.20	36.60	1044.60	853.20	2316.30	62.90	1680.70	1135.50	417.00	213.50	10078.90	Ton
Mean	14.90	20.50	41.20	1.20	33.70	28.40	74.70	2.10	54.20	36.60	14.90	6.90		
Max	30.90	116.30	107.80	2.90	273.40	142.80	511.30	32.20	68.10	63.90	21.20	13.20	511.30	
Min	2.90	5.30	1.10	0.90	0.90	0.90	2.20	0.70	19.70	9.20	7.40	4.00	0.70	

WATER YEAR : 2009

WEST COAST - GULF BASIN

Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

Lat 11 - 29 - 40 N Long 99 - 36 - 20 E

Location : on right bank at Ban Klang.

	Ban Klang	Amphoe Thap Sakae	Changwat Prachuap Khiri Khan
Drainage Area	125 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2007-2009		
Number of observation	27		
R-Square	0.9085		
Remarks	Continued Sediment Station		

$$QS = 8.9810 QW^{1.16400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	3.30	0.80	1.80	2.30	5.00	2.00	0.50	0.00	0.10	0.00		
2	0.00	0.10	3.70	0.80	2.50	1.80	13.10	1.70	0.50	0.00	0.10	0.00		
3	0.00	0.10	4.60	0.50	2.70	2.00	10.10	1.40	0.50	0.00	0.10	0.00		
4	0.00	0.10	8.20	0.50	3.90	1.50	6.70	1.40	0.50	0.00	0.10	0.00		
5	0.00	0.10	7.60	0.80	5.40	2.60	4.80	1.20	0.30	0.10	0.10	0.00		
6	0.00	0.00	6.30	1.40	4.80	3.90	3.90	1.10	0.30	0.10	0.10	0.00		
7	0.00	0.00	4.60	1.50	4.10	4.30	3.30	1.10	0.30	0.10	0.00	0.00		
8	0.00	0.00	3.10	2.10	2.90	4.30	3.10	1.50	0.30	0.00	0.00	0.00		
9	0.30	0.00	2.50	1.10	2.70	3.90	3.30	2.30	0.30	0.00	0.00	0.00		
10	0.70	0.00	2.10	0.80	3.90	3.30	2.60	2.50	0.30	0.00	0.00	0.00		
11	0.50	0.10	2.00	0.70	5.80	2.60	8.60	2.00	0.30	0.00	0.00	0.00		
12	0.20	0.00	1.70	0.70	4.60	1.80	4.80	2.30	0.30	0.00	0.00	0.00		
13	0.20	0.20	1.50	1.40	2.90	1.40	3.50	2.10	0.30	0.00	0.00	0.00		
14	0.20	0.30	1.50	1.70	2.30	1.10	2.90	2.30	0.20	0.10	0.00	0.00		
15	0.10	2.10	1.50	1.00	2.00	1.00	2.30	2.00	0.20	0.10	0.00	0.00		
16	0.10	0.80	1.50	0.90	1.70	0.90	1.80	1.70	0.20	0.10	0.00	0.00		
17	0.10	0.30	1.50	1.00	1.20	0.80	1.70	1.40	0.20	0.10	0.00	0.00		
18	0.10	0.20	1.50	2.00	1.10	0.80	1.70	1.40	0.20	0.10	0.00	0.00		
19	0.10	0.30	1.40	1.50	1.00	0.80	2.60	3.30	0.20	0.10	0.00	0.00		
20	0.00	0.30	1.40	1.20	0.90	1.00	1.50	2.50	0.20	0.00	0.00	0.00		
21	0.00	0.20	1.40	1.20	0.80	0.80	1.40	2.00	0.20	0.00	0.00	0.00		
22	0.00	0.20	1.20	1.70	0.70	0.70	1.20	1.70	0.20	0.00	0.00	0.00		
23	0.00	0.20	1.40	2.30	0.70	0.70	2.70	1.40	0.20	0.00	0.00	0.00		
24	0.00	0.20	1.40	3.30	0.80	0.80	2.70	1.10	0.20	0.20	0.00	0.00		
25	0.00	0.20	1.40	3.50	0.70	0.70	17.10	1.10	0.20	0.30	0.00	0.00		
26	0.20	0.20	1.20	2.90	0.70	1.20	7.60	1.00	0.20	0.20	0.00	0.00		
27	0.20	0.20	1.10	2.30	0.70	1.20	4.80	0.70	0.20	0.20	0.00	0.00		
28	0.20	0.20	1.00	1.80	0.80	1.50	4.10	0.50	0.20	0.10	0.00	0.00		
29	0.10	0.50	1.10	1.50	0.90	1.70	3.50	0.50	0.20	0.10		0.00		
30	0.10	3.70	0.90	1.50	1.20	2.00	2.60	0.30	0.20	0.10		0.00		
31		3.30		1.70	1.50		2.10		0.20	0.10		0.00		
Total	3.40	14.10	73.60	46.10	67.70	53.40	137.10	47.50	8.30	2.20	0.60	0.00	454.00	Ton
Mean	0.10	0.50	2.50	1.50	2.20	1.80	4.40	1.60	0.30	0.10	0.00	0.00		
Max	0.70	3.70	8.20	3.50	5.80	4.30	17.10	3.30	0.50	0.30	0.10	0.00	17.10	
Min	0.00	0.00	0.90	0.50	0.70	0.70	1.20	0.30	0.20	0.00	0.00	0.00	0.00	

WATER YEAR : 2009

WEST COAST - GULF BASIN

Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)

Lat 11 - 03 - 44 N Long 99 - 22 - 30 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
Drainage Area	61 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	231		
R-Square	0.9001		
Remarks	Continued Sediment Station		

$$QS = 4.1104 QW^{1.55310}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	1.00	4.10	2.20	4.10	1.00	19.90	2.80	1.00	0.60	0.20	0.00		
2	0.10	1.00	6.30	2.20	6.30	1.00	18.30	2.80	1.00	0.60	0.20	0.00		
3	0.10	0.80	31.90	2.00	8.60	0.80	21.50	2.50	0.80	0.50	0.20	0.00		
4	0.30	1.00	24.80	2.00	7.80	0.60	21.50	2.20	0.80	0.60	0.20	0.00		
5	0.50	1.00	15.40	2.20	7.10	0.80	18.30	2.00	0.80	0.80	0.20	0.00		
6	0.20	1.10	11.20	2.50	6.30	1.00	15.40	2.00	0.60	1.10	0.10	0.00		
7	0.20	1.00	7.10	2.80	7.80	1.50	13.00	1.80	0.60	5.60	0.10	0.00		
8	0.30	0.80	4.80	3.80	6.30	2.20	10.30	3.40	0.60	11.20	0.10	0.00		
9	4.10	0.80	3.80	2.20	8.60	4.80	9.50	7.80	0.60	6.30	0.10	0.00		
10	13.00	0.80	3.10	2.00	10.30	4.40	7.80	7.10	0.60	5.60	0.20	0.00		
11	14.00	1.00	4.80	2.20	5.60	4.10	6.30	4.10	0.50	6.30	0.20	0.10		
12	10.30	1.00	4.40	2.80	3.80	3.80	5.60	3.40	0.50	7.80	0.20	0.00		
13	8.60	1.10	4.10	4.10	3.10	3.80	4.80	3.40	0.60	11.20	0.10	0.00		
14	7.10	3.10	4.10	5.20	2.20	3.10	4.40	3.10	0.60	8.60	0.10	0.00		
15	5.20	2.20	4.40	3.40	2.00	2.80	4.10	3.10	0.80	7.10	0.10	0.00		
16	4.10	1.80	4.10	3.10	1.80	2.50	3.80	2.80	0.80	7.10	0.10	0.00		
17	3.80	1.50	4.40	4.10	1.50	2.50	3.40	2.80	0.60	5.60	0.10	0.00		
18	2.80	4.80	4.40	5.20	1.50	2.20	3.10	2.80	0.60	4.80	0.10	0.00		
19	2.20	4.80	4.10	8.60	1.30	2.20	2.50	2.50	0.50	4.10	0.10	0.00		
20	1.80	3.80	4.10	13.00	1.10	2.00	2.50	2.50	0.50	2.50	0.10	0.00		
21	1.80	3.40	3.80	9.50	1.10	2.80	3.40	2.20	0.50	1.00	0.10	0.00		
22	1.50	2.80	4.40	7.80	1.00	3.10	4.80	2.00	0.60	0.30	0.00	0.00		
23	1.50	2.50	4.80	5.60	1.00	3.40	6.30	2.00	0.80	0.20	0.00	0.00		
24	1.30	2.20	4.10	7.10	0.60	4.10	7.80	1.80	0.80	0.20	0.00	0.00		
25	1.30	2.00	4.10	6.30	0.60	4.80	10.30	1.80	0.60	0.20	0.00	0.00		
26	1.10	1.50	3.80	5.60	0.50	4.40	8.60	1.50	0.60	0.20	0.00	0.00		
27	1.10	1.80	3.80	5.20	0.50	4.10	7.80	1.30	0.60	0.20	0.00	0.10		
28	1.10	2.20	3.40	5.60	1.10	4.10	5.20	1.30	0.60	0.20	0.00	0.10		
29	1.00	2.80	3.80	4.80	1.00	4.80	3.80	1.10	0.80	0.20		0.00		
30	1.00	3.10	3.40	4.80	1.00	7.80	3.10	1.10	0.80	0.20		0.00		
31		3.80		4.40	1.10		2.80		0.60	0.20		0.10		
Total	91.50	62.50	194.80	142.30	106.60	90.50	259.90	81.00	20.70	101.10	2.90	0.40	1154.20	Ton
Mean	3.10	2.00	6.50	4.60	3.40	3.00	8.40	2.70	0.70	3.30	0.10	0.00		
Max	14.00	4.80	31.90	13.00	10.30	7.80	21.50	7.80	1.00	11.20	0.20	0.10	31.90	
Min	0.10	0.80	3.10	2.00	0.50	0.60	2.50	1.10	0.50	0.20	0.00	0.00	0.00	

WATER YEAR : 2009

SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

	Ban Wang Phai	Amphoe Mueang	Changwat Chumphon
Drainage Area	296 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	37		
R-Square	0.7274		
Remarks	Continued Sediment Station		

$$QS = 15.1030 QW^{1.04670}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	23.10	23.10	60.20	47.70	196.80	144.00	1813.90	62.30	51.90	37.80	24.70	19.90		
2	24.70	24.70	60.20	44.40	150.60	130.90	2924.70	58.10	49.90	36.10	23.10	18.30		
3	24.70	29.60	1045.50	42.70	219.20	100.80	3148.00	56.00	47.70	36.10	23.10	15.10		
4	26.30	92.00	1845.60	44.40	714.90	122.20	1647.30	216.90	46.00	37.80	23.10	13.50		
5	42.70	39.40	647.40	42.70	477.50	315.70	980.70	168.20	46.00	37.80	21.50	12.00		
6	32.80	32.80	397.60	42.70	527.40	760.00	647.40	96.50	44.40	37.80	21.50	8.80		
7	29.60	31.20	201.20	44.40	362.00	1218.00	532.90	74.90	42.70	47.70	21.50	8.80		
8	39.40	29.60	130.90	42.70	351.10	791.10	566.30	894.20	42.70	60.20	21.50	7.30		
9	89.90	27.90	96.50	42.70	555.20	571.90	411.30	1145.00	44.40	49.90	19.90	7.30		
10	122.20	42.70	79.20	39.40	827.90	969.20	569.10	337.40	44.40	53.90	19.90	7.30		
11	58.10	34.50	70.70	41.10	1372.20	706.40	362.00	194.70	42.70	41.10	18.30	245.40		
12	46.00	41.10	60.20	229.30	768.50	535.70	419.50	146.20	41.10	36.10	18.30	56.00		
13	70.70	36.10	51.90	950.60	474.70	444.30	313.00	126.50	41.10	32.80	18.30	29.60		
14	109.40	49.90	49.90	1011.10	356.50	392.10	248.10	107.10	44.40	34.50	16.70	23.10		
15	51.90	102.80	51.90	367.40	283.20	310.20	210.30	94.20	41.10	41.10	16.70	19.90		
16	42.70	47.70	122.20	250.80	280.50	245.40	185.80	94.20	39.40	36.10	15.10	18.30		
17	37.80	41.10	115.80	745.90	219.20	201.20	168.20	102.80	39.40	34.50	15.10	15.10		
18	34.50	49.90	229.30	2625.50	205.80	170.50	157.30	150.60	39.40	32.80	15.10	21.50		
19	31.20	130.90	219.20	1521.40	201.20	152.90	139.60	973.00	44.40	31.20	15.10	49.90		
20	31.20	53.90	159.40	731.80	253.50	174.90	135.20	351.10	51.90	29.60	13.50	27.90		
21	31.20	42.70	117.90	488.50	137.50	248.10	130.90	181.40	74.90	29.60	15.10	23.10		
22	32.80	41.10	102.80	785.40	111.50	157.30	137.50	135.20	64.50	29.60	13.50	18.30		
23	31.20	39.40	83.50	1852.10	117.90	133.10	148.30	109.40	47.70	27.90	16.70	16.70		
24	31.20	36.10	77.20	917.50	117.90	144.00	113.50	94.20	44.40	29.60	13.50	15.10		
25	27.90	32.80	64.50	1229.50	85.70	299.40	107.10	83.50	42.70	29.60	13.50	13.50		
26	26.30	39.40	58.10	796.80	74.90	340.10	98.50	77.20	41.10	26.30	15.10	12.00		
27	31.20	58.10	53.90	494.10	70.70	879.00	94.20	70.70	41.10	26.30	13.50	12.00		
28	29.60	157.30	58.10	362.00	94.20	839.30	100.80	64.50	39.40	26.30	19.90	7.30		
29	26.30	66.50	53.90	299.40	66.50	870.50	87.70	58.10	39.40	26.30		7.30		
30	24.70	83.50	47.70	237.40	66.50	602.60	77.20	53.90	37.80	24.70		8.80		
31		87.70		216.90	85.70		68.70		37.80	24.70		15.10		
Total	1261.30	1645.50	6412.40	16588.30	9826.90	12970.80	16745.00	6378.00	1395.80	1085.80	502.80	774.20	75586.80	Ton
Mean	42.00	53.10	213.70	535.10	317.00	432.40	540.20	212.60	45.00	35.00	18.00	25.00		
Max	122.20	157.30	1845.60	2625.50	1372.20	1218.00	3148.00	1145.00	74.90	60.20	24.70	245.40	3148.00	
Min	23.10	23.10	47.70	39.40	66.50	100.80	68.70	53.90	37.80	24.70	13.50	7.30	7.30	

WATER YEAR : 2009

SOUTHERN PENINSULA EAST COAST

Khlong Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

Lat 08 - 23 - 52 N Long 99 - 50 - 14 E

Location : on left bank at the bridge.

	Ban Tha Yai	Amphoe Lan Saka	Changwat Nakhon Si Thammarat
Drainage Area	105 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2009		
Number of observation	249		
R-Square	0.7607		
Remarks	Continued Sediment Station		

$$QS = 1.9015 QW^{1.39590}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	48.60	25.90	21.90	20.50	8.80	23.20	16.70	13.20	24.60	13.20	16.70	12.00		
2	137.30	27.30	20.50	19.20	7.80	15.50	42.80	14.30	28.80	14.30	15.50	10.90		
3	112.50	39.00	23.20	18.00	14.30	12.00	44.70	46.70	48.60	23.20	18.00	10.90		
4	71.90	35.30	31.70	19.20	28.80	9.90	37.10	716.30	40.80	117.60	16.70	9.90		
5	40.80	27.30	25.90	19.20	30.20	19.20	31.70	263.30	271.90	63.20	16.70	9.90		
6	33.40	24.60	23.20	19.20	9.90	27.30	40.80	107.50	115.10	74.20	16.70	9.90		
7	33.40	23.20	21.90	19.20	14.30	18.00	42.80	214.20	67.50	207.10	15.50	10.90		
8	27.30	16.70	19.20	28.80	28.80	15.50	30.20	285.00	39.00	173.30	15.50	10.90		
9	221.30	16.70	18.00	33.40	25.90	18.00	25.90	120.20	27.30	83.30	15.50	9.90		
10	235.80	15.50	16.70	21.90	15.50	27.30	35.30	63.20	21.90	56.80	16.70	13.20		
11	92.80	39.00	15.50	1.30	18.00	31.70	50.60	39.00	16.70	37.10	15.50	25.90		
12	56.80	25.90	15.50	33.40	21.90	28.80	35.30	44.70	13.20	28.80	15.50	23.20		
13	42.80	23.20	15.50	12.00	23.20	15.50	23.20	39.00	12.00	25.90	15.50	14.30		
14	37.10	31.70	14.30	8.80	24.60	12.00	19.20	28.80	9.90	21.90	14.30	10.90		
15	44.70	30.20	16.70	16.70	24.60	15.50	19.20	21.90	8.80	18.00	14.30	10.90		
16	42.80	23.20	20.50	16.70	20.50	12.00	19.20	27.30	6.80	16.70	15.50	9.90		
17	28.80	21.90	18.00	18.00	24.60	15.50	15.50	27.30	15.50	19.20	15.50	9.90		
18	23.20	16.70	18.00	18.00	24.60	21.90	15.50	33.40	42.80	25.90	15.50	8.80		
19	24.60	28.80	15.50	12.00	21.90	28.80	10.90	44.70	21.90	16.70	13.20	15.50		
20	20.50	30.20	19.20	13.20	27.30	16.70	10.90	27.30	52.70	16.70	13.20	15.50		
21	18.00	16.70	21.90	16.70	23.20	13.20	15.50	37.10	44.70	21.90	13.20	10.90		
22	16.70	14.30	16.70	23.20	24.60	10.90	30.20	31.70	40.80	23.20	12.00	10.90		
23	24.60	10.90	12.00	14.30	30.20	12.00	21.90	27.30	37.10	20.50	10.90	10.90		
24	27.30	8.80	14.30	23.20	33.40	23.20	19.20	25.90	27.30	21.90	10.90	8.80		
25	25.90	19.20	20.50	13.20	40.80	37.10	21.90	21.90	25.90	23.20	12.00	12.00		
26	28.80	23.20	18.00	15.50	33.40	31.70	30.20	19.20	27.30	24.60	12.00	12.00		
27	25.90	24.60	25.90	14.30	30.20	35.30	25.90	21.90	23.20	30.20	10.90	14.30		
28	24.60	27.30	21.90	14.30	28.80	21.90	117.60	21.90	23.20	27.30	9.90	14.30		
29	25.90	25.90	20.50	9.90	39.00	13.20	28.80	20.50	15.50	25.90		19.20		
30	24.60	25.90	20.50	12.00	19.20	14.30	15.50	19.20	14.30	18.00		10.90		
31		25.90		12.00	15.50		15.50		13.20	13.20		10.90		
Total	1618.70	745.00	583.10	537.30	733.80	597.10	909.70	2423.90	1178.30	1303.00	403.30	388.30	11421.50	Ton
Mean	54.00	24.00	19.40	17.30	23.70	19.90	29.30	80.80	38.00	42.00	14.40	12.50		
Max	235.80	39.00	31.70	33.40	40.80	37.10	117.60	716.30	271.90	207.10	18.00	25.90	716.30	
Min	16.70	8.80	12.00	1.30	7.80	9.90	10.90	13.20	6.80	13.20	9.90	8.80	1.30	

WATER YEAR : 2009

SOUTHERN PENINSULA EAST COAST

Khlong Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

Lat 08 - 25 - 34 N Long 99 - 51 - 47 E

Location : on left bank upstream side of the bridge.

	Ban Wang Kong	Amphoe Mueang	Changwat Nakhon Si Thammarat
Drainage Area	36 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1989-Cont'd		
Actual Measurement	1989-Cont'd		
Using Rating Curve Water Year	1989-2009		
Number of observation	324		
R-Square	0.8149		
Remarks	Continued Sediment Station		

$$QS = 3.7541 QW^{1.35570}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	116.60	5.90	6.20	4.80	4.50	6.20	5.90	7.10	7.40	6.50	7.70	6.20		
2	60.60	5.90	6.20	4.50	4.50	5.90	5.90	6.50	9.00	6.50	7.70	5.90		
3	48.60	6.50	6.20	4.50	4.50	5.90	6.50	14.10	9.00	6.50	7.70	5.60		
4	30.20	6.50	5.90	4.50	4.30	5.90	6.50	264.30	9.60	40.30	7.70	5.40		
5	23.00	7.70	5.90	4.50	4.50	5.90	6.50	123.60	20.90	23.70	7.10	5.40		
6	22.30	9.00	5.90	4.30	4.30	5.90	6.50	32.50	33.30	28.00	7.10	5.40		
7	28.80	8.00	5.90	4.30	4.50	5.90	6.50	64.40	39.60	60.60	7.10	5.40		
8	9.60	7.70	5.90	5.60	4.50	5.90	6.50	118.00	20.30	35.50	7.10	4.80		
9	70.30	7.10	5.60	5.90	4.30	5.40	6.50	38.70	12.70	25.80	7.10	4.80		
10	58.70	6.80	5.60	6.20	4.30	5.40	6.50	27.30	9.60	22.30	7.10	4.80		
11	44.40	6.50	5.40	5.10	4.30	5.90	6.50	19.60	9.60	14.10	7.10	4.80		
12	20.90	6.80	5.40	4.50	4.30	5.40	6.50	11.70	9.60	11.30	7.10	4.80		
13	13.10	6.80	5.40	4.50	4.50	5.40	6.50	16.40	8.60	9.60	7.10	5.90		
14	10.50	7.10	5.40	4.50	5.10	5.40	6.50	10.50	8.30	9.30	6.80	5.90		
15	9.60	8.00	5.10	4.30	5.10	5.40	6.50	8.60	7.40	9.00	6.50	5.90		
16	9.60	6.80	5.10	4.30	5.10	5.40	7.40	8.00	6.50	9.00	6.50	5.40		
17	9.30	6.50	5.10	4.30	4.50	5.60	7.40	7.70	6.80	8.30	6.50	5.40		
18	8.60	7.10	5.10	4.30	4.30	5.40	7.10	8.00	9.00	7.70	5.90	4.00		
19	8.30	7.40	4.80	4.30	4.30	5.40	6.50	9.30	8.60	7.70	5.90	4.00		
20	8.00	8.30	4.80	4.30	6.20	5.40	6.50	9.30	11.70	7.70	5.60	4.00		
21	7.70	7.10	4.80	4.30	5.60	5.40	7.10	9.00	12.20	7.70	5.40	4.00		
22	7.70	6.80	4.80	4.50	5.10	5.40	6.50	9.00	10.50	7.70	4.80	4.00		
23	7.40	6.20	4.80	4.80	8.00	5.40	6.50	8.30	9.60	7.70	4.00	4.00		
24	6.80	5.90	4.80	4.80	8.00	5.90	6.50	7.70	9.00	7.70	3.30	4.00		
25	5.90	5.90	4.80	4.80	9.30	5.90	6.50	7.10	9.00	7.70	1.90	4.00		
26	5.90	5.60	4.80	4.80	3.80	5.90	5.90	7.10	9.30	7.70	1.90	4.00		
27	7.10	6.20	4.80	4.80	3.30	5.90	5.90	7.10	8.30	7.70	5.90	4.00		
28	6.50	6.50	4.80	4.50	3.80	5.90	70.30	7.10	7.70	7.70	6.50	6.50		
29	6.50	6.50	4.80	4.50	6.50	5.90	9.30	7.10	6.50	7.70		4.30		
30	5.90	6.50	4.50	4.50	6.50	5.90	7.40	7.10	6.50	7.70		3.80		
31		6.50		4.50	6.50		7.40		6.50	7.70		3.80		
Total	678.40	212.10	158.60	144.30	158.30	170.50	270.50	882.20	352.60	434.10	172.10	150.20	3783.90	Ton
Mean	22.60	6.80	5.30	4.70	5.10	5.70	8.70	29.40	11.40	14.00	6.10	4.80		
Max	116.60	9.00	6.20	6.20	9.30	6.20	70.30	264.30	39.60	60.60	7.70	6.50	264.30	
Min	5.90	5.60	4.50	4.30	3.30	5.40	5.90	6.50	6.50	6.50	1.90	3.80	1.90	

WATER YEAR : 2009

SOUTHERN PENINSULA EAST COAST

Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

Location : on right bank at the bridge.

	Ban Sao Thong	Amphoe Ron Phibun	Changwat Nakhon Si Thammarat
Drainage Area	252 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	37		
R-Square	0.7497		
Remarks	Continued Sediment Station		

$$QS = 7.3615 QW^{1.16300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	69.00	73.90	89.30	26.40	39.10	84.20	32.70	39.10	73.90	45.60	89.30	32.70		
2	105.00	52.30	69.00	26.40	39.10	79.10	32.70	32.70	142.80	39.10	89.30	29.50		
3	233.00	52.30	94.50	26.40	39.10	52.30	42.30	17.40	237.80	45.60	84.20	29.50		
4	165.10	153.90	110.30	29.50	39.10	45.60	39.10	343.80	295.20	365.90	79.10	29.50		
5	233.00	115.70	110.30	29.50	35.80	42.30	29.50	1651.80	273.70	853.40	69.00	26.40		
6	159.50	131.80	89.30	29.50	35.80	79.10	35.80	1339.60	302.30	393.70	69.00	20.40		
7	142.80	153.90	84.20	32.70	42.30	45.60	49.00	1484.80	266.60	651.30	69.00	11.80		
8	159.50	99.70	89.30	29.50	32.70	45.60	42.30	1201.20	242.70	1201.20	69.00	9.10		
9	233.70	99.70	94.50	29.50	29.50	42.30	42.30	552.90	233.00	480.70	69.00	26.40		
10	704.50	94.50	79.10	39.10	45.60	94.50	39.10	334.70	185.10	334.70	64.10	26.40		
11	386.30	142.80	73.90	39.10	39.10	73.90	105.00	276.60	165.10	302.30	52.30	26.40		
12	349.20	137.30	55.70	49.00	29.50	94.50	126.40	253.90	137.30	261.00	26.40	26.40		
13	261.00	126.40	49.00	115.70	29.50	84.20	84.20	272.30	99.70	246.90	17.40	26.40		
14	233.00	205.40	45.60	49.00	23.40	73.90	52.30	235.00	69.00	234.30	14.60	26.40		
15	178.40	131.80	35.80	39.10	99.70	45.60	42.30	191.80	59.20	219.10	14.60	23.40		
16	236.40	275.10	32.70	35.80	94.50	39.10	35.80	142.80	59.20	205.40	14.60	20.40		
17	233.70	280.80	35.80	42.30	89.30	35.80	32.70	212.30	55.70	165.10	14.60	20.40		
18	233.70	233.70	35.80	52.30	35.80	26.40	29.50	148.40	137.30	148.40	29.50	17.40		
19	198.60	205.40	29.50	49.00	32.70	26.40	26.40	244.10	110.30	148.40	45.60	20.40		
20	165.10	191.80	26.40	45.60	94.50	32.70	23.40	233.00	73.90	131.80	52.30	26.40		
21	142.80	178.40	26.40	42.30	26.40	42.30	20.40	171.70	198.60	121.00	39.10	26.40		
22	131.80	171.70	23.40	29.50	45.60	35.80	14.60	219.10	185.10	115.70	26.40	23.40		
23	126.40	126.40	20.40	45.60	73.90	35.80	14.60	131.80	142.80	59.20	20.40	23.40		
24	115.70	137.30	14.60	45.60	126.40	39.10	9.10	105.00	142.80	55.70	23.40	23.40		
25	126.40	148.40	14.60	52.30	73.90	45.60	4.10	105.00	121.00	142.80	32.70	11.80		
26	131.80	115.70	14.60	39.10	42.30	84.20	17.40	105.00	121.00	110.30	52.30	1.80		
27	99.70	110.30	14.60	35.80	42.30	49.00	35.80	110.30	110.30	99.70	55.70	0.00		
28	99.70	105.00	14.60	35.80	45.60	49.00	35.80	94.50	99.70	99.70	35.80	4.10		
29	94.50	110.30	14.60	35.80	137.30	35.80	126.40	79.10	59.20	99.70		6.50		
30	84.20	105.00	32.70	35.80	110.30	32.70	55.70	73.90	49.00	99.70		29.50		
31		105.00		35.80	99.70		52.30		45.60	94.50		35.80		
Total	5833.50	4371.70	1520.50	1248.80	1769.80	1592.40	1329.00	10403.60	4494.90	7571.90	1318.70	661.80	42116.60	Ton
Mean	194.40	141.00	50.70	40.30	57.10	53.10	42.90	346.80	145.00	244.30	47.10	21.30		
Max	704.50	280.80	110.30	115.70	137.30	94.50	126.40	1651.80	302.30	1201.20	89.30	35.80	1651.80	
Min	69.00	52.30	14.60	26.40	23.40	26.40	4.10	17.40	45.60	39.10	14.60	0.00	0.00	

WATER YEAR : 2009
SOUTHERN PENINSULA EAST COAST
Upper Khlong Lang Suan at Ban Phato , Chumphon (X.213)
 Lat 09 - 46 - 55 N Long 98 - 46 - 55 E

Location : on left bank at the bridge.

	Ban Phato	Amphoe Phato	Changwat Chumphon
Drainage Area	714 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	42		
R-Square	0.7174		
Remarks	Continued Sediment Station		

$$QS = 12.9410 QW^{1.05430}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	176.20	176.20	256.60	330.30	991.90	1372.30	3287.50	574.20	388.60	285.30	232.80	336.70		
2	194.90	199.70	247.00	304.50	908.50	1103.10	9373.80	557.70	421.10	285.30	228.00	247.00		
3	199.70	251.80	388.60	290.10	1933.50	1014.10	7594.30	599.10	408.10	280.50	228.00	237.50		
4	223.30	251.80	508.10	290.10	2340.80	1282.30	3870.70	2371.10	532.90	395.10	223.30	209.10		
5	242.30	237.50	369.10	285.30	3251.20	2826.50	3005.00	1181.30	499.90	294.90	223.30	204.40		
6	199.70	228.00	304.50	362.60	2632.40	5929.60	2568.70	766.50	458.80	290.10	218.50	194.90		
7	199.70	209.10	266.10	285.30	2280.20	3053.80	2616.20	665.80	421.10	304.50	218.50	190.20		
8	223.30	232.80	247.00	270.90	2988.80	2129.10	2729.30	888.20	382.10	408.10	213.80	185.50		
9	362.60	270.90	247.00	261.40	3870.70	2340.80	2174.40	716.10	375.60	349.70	213.80	185.50		
10	847.50	223.30	294.90	256.60	2891.30	2371.10	1843.60	624.10	369.10	290.10	209.10	180.80		
11	786.70	204.40	270.90	375.60	2431.80	2431.80	1613.60	582.50	362.60	290.10	209.10	180.80		
12	375.60	194.90	237.50	1858.60	1933.50	2250.00	1495.80	565.90	349.70	285.30	209.10	180.80		
13	336.70	223.30	223.30	4674.40	1587.40	1993.60	1349.80	549.40	343.20	285.30	209.10	180.80		
14	317.40	294.90	232.80	1978.60	1482.70	1653.00	1237.40	524.60	330.30	304.50	209.10	176.20		
15	362.60	330.30	408.10	1192.50	1495.80	1561.20	1159.00	499.90	323.80	304.50	209.10	171.50		
16	299.70	414.60	1259.80	2159.30	1873.50	1443.50	1069.70	491.60	323.80	280.50	209.10	166.80		
17	247.00	421.10	2008.60	6343.80	1561.20	1237.40	1025.20	541.10	323.80	275.70	204.40	162.10		
18	223.30	343.20	2099.00	7151.60	1304.70	1192.50	1003.00	491.60	467.00	261.40	204.40	162.10		
19	213.80	375.60	1271.00	3523.80	1361.00	1047.50	949.30	837.40	362.60	256.60	199.70	176.20		
20	213.80	290.10	908.50	2507.80	1521.90	980.90	908.50	599.10	458.80	251.80	199.70	166.80		
21	213.80	266.10	682.50	2507.80	1069.70	908.50	857.70	508.10	369.10	247.00	199.70	162.10		
22	266.10	266.10	549.40	3037.50	1003.00	847.50	806.90	483.40	343.20	251.80	213.80	157.50		
23	421.10	232.80	724.50	3102.60	1361.00	817.10	796.80	458.80	330.30	251.80	204.40	157.50		
24	270.90	213.80	724.50	2310.50	1738.90	1125.50	776.60	434.20	323.80	247.00	204.40	152.80		
25	223.30	204.40	557.70	3269.30	1248.60	1338.50	766.50	427.70	323.80	247.00	204.40	152.80		
26	209.10	336.70	475.20	2295.40	1058.60	2219.70	699.30	421.10	311.00	242.30	204.40	148.20		
27	204.40	632.40	421.10	1724.00	1058.60	4164.00	741.20	414.60	304.50	237.50	199.70	148.20		
28	190.20	499.90	375.60	1406.20	1014.10	2794.10	674.20	408.10	299.70	242.30	237.50	176.20		
29	180.80	343.20	369.10	1293.50	959.60	2114.00	690.90	401.60	294.90	237.50		180.80		
30	176.20	343.20	362.60	1114.30	939.10	1709.10	615.80	395.10	290.10	232.80		162.10		
31		285.30		1136.60	1237.40		582.50		290.10	228.00		157.50		
Total	8601.70	8997.40	17290.60	57900.80	53331.40	57252.10	58883.20	18979.90	11383.40	8644.30	5940.20	5651.40	312856.40	Ton
Mean	286.70	290.20	576.40	1867.80	1720.40	1908.40	1899.50	632.70	367.20	278.80	212.20	182.30		
Max	847.50	632.40	2099.00	7151.60	3870.70	5929.60	9373.80	2371.10	532.90	408.10	237.50	336.70	9373.80	
Min	176.20	176.20	223.30	256.60	908.50	817.10	582.50	395.10	290.10	228.00	199.70	148.20	148.20	

WATER YEAR : 2009

SOUTHERN PENINSULA EAST COAST

Lower Khlong Lamae at Ban Thung Luang , Chumphon (X.214)

Lat 09 - 46 - 06 N Long 99 - 05 - 00 E

Location : on left bank at the highway bridge., Tambon Thung Luang

	Ban Thung Luang	Amphoe Lamae	Changwat Chumphon
Drainage Area	144 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	30		
R-Square	0.7000		
Remarks	Continued Sediment Station		

$$QS = 10.6930 QW^{1.20300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.20	3.80	7.20	11.00	37.20	55.00	97.50	22.70	7.20	20.20	13.40	6.70		
2	7.90	3.80	5.10	11.00	30.80	66.70	458.00	11.00	41.50	20.20	11.10	6.30		
3	28.80	8.70	4.40	11.00	22.70	48.30	822.10	26.70	37.20	20.20	8.20	5.80		
4	63.70	26.70	11.70	10.20	171.30	48.30	375.00	561.20	143.50	20.20	8.20	5.80		
5	48.30	24.80	30.80	10.20	276.60	66.70	155.40	881.40	132.00	20.20	8.20	5.80		
6	26.70	8.70	48.30	37.20	183.50	171.30	107.10	262.00	85.00	20.20	7.70	5.80		
7	17.00	8.70	43.70	33.00	143.50	155.40	107.10	183.50	75.70	20.20	7.70	5.80		
8	48.30	7.20	41.50	26.70	155.40	97.50	75.70	525.70	52.60	87.50	7.70	5.30		
9	63.70	7.20	33.00	24.80	175.20	75.70	75.70	291.40	20.80	61.30	8.20	4.40		
10	458.00	3.80	26.70	24.80	143.50	75.70	75.70	132.00	26.70	44.10	7.70	4.00		
11	375.00	3.80	22.70	22.70	107.10	75.70	48.30	55.00	24.80	35.00	7.20	3.60		
12	262.00	3.80	22.70	22.70	85.00	55.00	48.30	55.00	22.70	32.80	7.20	3.60		
13	107.10	26.70	20.80	214.20	75.70	48.30	48.30	52.60	18.80	31.00	7.20	3.60		
14	314.90	26.70	20.80	320.80	75.70	48.30	48.30	48.30	31.00	29.90	7.20	3.60		
15	314.90	26.70	18.80	218.90	75.70	41.50	48.30	41.50	31.90	28.80	7.20	3.60		
16	75.70	26.70	17.00	75.70	75.70	30.80	48.30	143.50	28.80	27.90	6.70	3.60		
17	37.20	26.70	17.00	375.00	66.70	30.80	48.30	55.00	27.00	27.00	6.70	3.60		
18	37.20	22.70	37.20	375.00	48.30	33.00	48.30	46.00	85.10	26.00	6.70	3.60		
19	33.00	24.80	48.30	276.60	55.00	26.70	48.30	37.20	64.40	25.10	6.70	3.60		
20	26.70	26.70	48.30	286.40	97.50	33.00	48.30	35.00	102.00	23.10	7.20	3.60		
21	22.70	22.70	48.30	237.90	48.30	143.50	41.50	33.00	64.40	22.10	6.70	3.60		
22	20.80	22.70	26.70	237.90	48.30	85.00	55.00	30.80	49.80	20.20	6.30	3.60		
23	22.70	22.70	26.70	276.60	48.30	41.50	52.60	28.80	42.80	19.00	5.80	3.10		
24	22.70	20.80	22.70	276.60	48.30	37.20	41.50	28.80	48.40	17.10	5.30	3.10		
25	15.10	11.00	22.70	276.60	48.30	48.30	41.50	26.70	46.90	16.40	6.30	3.10		
26	13.30	11.00	26.70	155.40	48.30	75.70	37.20	22.70	39.00	15.20	5.80	2.30		
27	12.50	10.20	22.70	132.00	41.50	75.70	37.20	20.80	27.00	14.70	18.40	2.30		
28	12.50	10.20	20.80	85.00	46.00	200.20	22.70	18.80	27.00	14.00	9.80	2.70		
29	8.70	10.20	26.70	75.70	43.70	113.60	24.80	17.00	24.00	13.40		3.10		
30	5.80	8.70	22.70	52.60	46.00	66.70	26.70	10.20	22.10	12.80		3.10		
31		8.70		33.00	43.70		26.70		20.20	12.30		3.60		
Total	2510.10	477.60	792.70	4227.20	2612.80	2171.10	3239.70	3704.30	1470.30	798.10	222.50	125.30	22351.70	Ton
Mean	83.70	15.40	26.40	136.40	84.30	72.40	104.50	123.50	47.40	25.70	7.90	4.00		
Max	458.00	26.70	48.30	375.00	276.60	200.20	822.10	881.40	143.50	87.50	18.40	6.70	881.40	
Min	5.80	3.80	4.40	10.20	22.70	26.70	22.70	10.20	7.20	12.30	5.30	2.30	2.30	

WATER YEAR : 2009

SOUTHERN PENINSULA EAST COAST

Lower Khlong Tako at Ban Nong Chik , Chumphon (X.270)

Lat 09 - 57 - 15 N Long 99 - 04 - 47 E

Location : on left bank at Ban Nong Chik.

	Ban Nong Chik	Amphoe Thung Tako	Changwat Chumphon
Drainage Area	68 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	33		
R-Square	0.7180		
Remarks	Continued Sediment Station		

$$QS = 43.7372 QW^{1.14660}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.50	6.10	24.30	47.80	90.20	47.80	571.00	23.00	33.90	30.00	16.20	0.00		
2	8.50	3.80	41.70	45.70	58.00	41.70	2561.10	24.30	33.90	30.00	14.90	0.00		
3	30.00	5.00	56.00	37.80	60.10	33.90	5363.80	23.00	39.70	26.20	13.60	0.00		
4	24.30	41.70	1450.90	35.80	90.20	33.90	598.90	943.00	767.10	31.90	9.70	0.00		
5	64.30	26.20	330.20	30.00	96.80	66.40	297.30	474.60	836.90	28.10	9.70	0.00		
6	31.90	12.30	205.80	35.80	77.10	330.20	210.70	210.70	325.00	28.10	5.00	0.00		
7	20.20	13.60	111.40	31.90	70.70	358.30	145.90	130.20	200.90	105.80	5.00	0.00		
8	18.90	13.60	99.10	26.20	70.70	162.40	133.10	3899.20	158.90	255.40	2.80	0.00		
9	41.70	11.00	72.80	23.00	101.30	101.30	114.20	793.20	111.40	99.10	5.00	0.00		
10	407.20	11.00	58.00	17.50	120.50	297.30	111.40	319.20	94.60	49.80	2.80	0.00		
11	529.40	7.30	58.00	14.90	158.90	447.50	88.00	205.80	85.80	60.10	3.80	3.80		
12	235.40	7.30	47.80	21.60	120.50	220.50	79.30	158.90	64.30	45.70	3.80	1.70		
13	99.10	14.90	39.70	250.40	81.50	108.00	70.70	136.60	58.00	41.70	3.80	14.90		
14	270.50	62.20	39.70	330.20	66.40	88.00	64.30	120.50	56.00	45.70	2.80	6.10		
15	117.60	176.70	43.70	200.90	94.60	33.90	56.00	90.20	45.70	461.00	3.80	0.00		
16	66.40	62.20	47.80	130.20	120.50	62.20	53.90	75.00	39.70	145.90	1.70	0.00		
17	133.10	88.00	66.40	240.40	72.80	111.40	101.30	68.60	41.70	92.40	0.80	0.00		
18	62.20	60.10	83.60	925.20	58.00	58.00	51.90	66.40	145.90	70.70	0.00	0.00		
19	35.80	196.00	149.40	557.10	53.90	37.80	37.80	369.40	90.20	58.00	0.00	0.00		
20	28.10	96.80	88.00	235.40	145.90	56.00	31.90	191.20	978.80	45.70	0.00	0.00		
21	30.00	60.10	79.30	152.40	81.50	72.80	12.30	169.00	286.40	39.70	0.00	0.00		
22	28.10	47.80	58.00	145.90	64.30	60.10	18.90	105.80	200.90	33.90	0.00	0.00		
23	24.30	39.70	49.80	715.20	58.00	51.90	81.50	81.50	120.50	30.00	0.00	0.00		
24	23.00	72.80	43.70	515.60	37.80	62.20	53.90	70.70	123.90	28.10	0.00	0.00		
25	18.90	51.90	39.70	613.00	53.90	130.20	56.00	64.30	79.30	26.20	0.00	0.00		
26	12.30	37.80	35.80	325.00	37.80	123.90	43.70	58.00	64.30	24.30	0.00	0.00		
27	6.10	35.80	35.80	205.80	37.80	77.10	39.70	51.90	60.10	23.00	0.00	0.00		
28	11.00	58.00	33.90	139.50	37.80	162.40	41.70	41.70	45.70	23.00	0.00	0.00		
29	11.00	47.80	33.90	94.60	33.90	145.90	35.80	43.70	39.70	21.60		0.00		
30	3.80	43.70	31.90	96.80	33.90	133.10	33.90	41.70	35.80	20.20		0.00		
31		45.70		75.00	28.10		33.90		33.90	20.20		0.00		
Total	2401.60	1456.90	3556.10	6316.60	2313.40	3716.10	11193.80	9051.30	5298.90	2041.50	105.20	26.50	47477.90	Ton
Mean	80.10	47.00	118.50	203.80	74.60	123.90	361.10	301.70	170.90	65.90	3.80	0.90		
Max	529.40	196.00	1450.90	925.20	158.90	447.50	5363.80	3899.20	978.80	461.00	16.20	14.90	5363.80	
Min	3.80	3.80	24.30	14.90	28.10	33.90	12.30	23.00	33.90	20.20	0.00	0.00	0.00	

WATER YEAR : 2009

TAPI RIVER BASIN

Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)

Lat 08 - 34 - 03 N Long 99 - 15 - 15 E

Location : on left bank at Tambon Yan Din Daeng.

	Ban Yan Din Daeng	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	5,383 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	37		
R-Square	0.7910		
Remarks	Continued Sediment Station		

$$QS = 2.0590 QW^{1.42030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	344.80	262.90	1622.70	323.80	505.90	1734.30	2917.50	2422.70	1141.90	224.50	156.00	129.30		
2	303.10	272.80	1326.20	313.40	443.80	1927.30	2408.50	1817.50	928.30	212.30	149.20	116.60		
3	287.80	272.80	952.50	297.90	395.80	1901.90	2479.80	1416.30	888.40	200.30	142.50	119.80		
4	407.60	339.50	764.40	282.80	372.50	1710.70	2852.60	1237.90	802.50	192.40	135.90	113.50		
5	372.50	624.50	764.40	277.80	355.50	1416.30	3231.50	2143.30	771.90	220.40	129.30	80.80		
6	344.80	818.00	756.80	308.20	395.80	1257.40	3746.10	3887.10	764.40	329.00	166.40	69.80		
7	378.30	810.20	682.30	344.80	474.60	1710.70	4282.60	4820.80	794.90	350.20	156.00	61.80		
8	401.80	719.30	596.90	366.70	456.00	2061.50	5001.90	5313.00	741.70	384.10	119.80	56.70		
9	366.70	756.80	518.60	443.80	462.20	1710.70	5418.00	5460.10	704.40	563.80	107.20	54.20		
10	462.20	764.40	437.80	596.90	583.60	1386.10	5523.50	5397.00	583.60	512.20	98.20	51.10		
11	756.80	741.70	378.30	734.20	653.20	1746.10	5334.00	5271.20	518.60	419.60	95.20	51.10		
12	1067.70	794.90	339.50	697.00	638.80	2933.80	5125.70	4919.90	462.20	395.80	92.30	49.60		
13	944.40	985.00	313.40	888.40	531.50	3248.30	5001.90	4374.00	419.60	384.10	86.50	49.60		
14	719.30	810.20	292.90	1793.60	449.90	3198.00	4858.60	3798.80	390.00	329.00	83.60	51.10		
15	596.90	1113.60	272.80	1793.60	407.60	3282.00	4577.20	3451.80	360.90	303.10	80.80	51.10		
16	590.20	825.70	277.80	1123.00	425.70	3366.50	4137.40	2982.80	339.50	272.80	78.00	48.10		
17	596.90	734.20	323.80	764.40	667.70	3417.60	3763.70	2982.80	339.50	258.00	75.30	46.70		
18	864.70	741.70	372.50	631.60	1113.60	3554.80	3537.60	3332.60	313.40	245.30	72.50	45.20		
19	787.20	864.70	318.50	771.90	1228.20	3214.80	3148.00	3214.80	323.80	236.90	69.80	43.70		
20	726.70	952.50	329.00	660.50	1237.90	2917.50	2667.90	3148.00	344.80	224.50	67.10	42.30		
21	660.50	833.50	372.50	499.50	1228.20	2741.40	2184.60	3065.10	318.50	220.40	67.10	40.90		
22	518.60	1160.90	360.90	431.60	1017.90	2508.40	1980.70	2726.60	344.80	216.30	67.10	42.30		
23	437.80	1104.10	344.80	493.30	787.20	2198.40	1841.50	2309.70	334.30	216.30	75.30	42.30		
24	413.70	1042.70	329.00	993.20	928.30	1914.00	1675.60	1914.00	360.90	220.40	69.80	39.50		
25	360.90	1001.40	323.80	1805.60	1612.20	1877.70	1456.90	1612.20	372.50	208.20	75.30	39.50		
26	313.40	802.50	323.80	2116.00	2240.00	2638.70	1508.20	1396.20	360.90	196.30	80.80	40.90		
27	313.40	771.90	323.80	1570.30	2653.30	3922.60	1591.20	1228.20	350.20	188.50	101.20	39.50		
28	329.00	968.70	318.50	1076.10	2494.10	4466.00	2048.00	1237.90	329.00	180.70	129.30	39.50		
29	297.90	1042.70	318.50	849.10	2088.70	4447.60	2788.20	1396.20	308.20	176.90		39.50		
30	272.80	1518.50	318.50	711.80	1994.10	3763.70	3114.70	1356.10	313.40	173.40		42.30		
31		1793.60		590.20	1746.10		2950.10		249.50	162.90		40.90		
Total	15238.40	26245.90	14975.20	24551.00	30589.90	78174.80	103153.70	89634.60	15576.50	8418.60	2827.50	1779.20	411165.30	Ton
Mean	507.90	846.60	499.20	792.00	986.80	2605.80	3327.50	2987.80	502.50	271.60	101.00	57.40		
Max	1067.70	1793.60	1622.70	2116.00	2653.30	4466.00	5523.50	5460.10	1141.90	563.80	166.40	129.30	5523.50	
Min	272.80	262.90	272.80	277.80	355.50	1257.40	1456.90	1228.20	249.50	162.90	67.10	39.50	39.50	

WATER YEAR : 2009

TAPI RIVER BASIN

Khlung Sin Pun at Ban Bang Rup , Surat Thani (X.198)

Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

	Ban Bang Rup	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	866 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2007-Cont'd		
Actual Measurement	2007-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	37		
R-Square	0.7477		
Remarks	Continued Sediment Station		

$$QS = 10.9420 QW^{1.16520}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	68.70	19.30	436.80	18.20	32.00	87.20	137.50	229.00	206.20	38.60	18.80	20.70		
2	38.60	26.40	408.60	18.20	30.30	122.50	130.60	130.60	133.40	35.30	18.20	17.00		
3	25.80	68.70	346.50	17.60	25.80	96.90	140.10	90.80	114.50	29.60	17.60	14.30		
4	28.40	272.80	258.70	16.60	22.50	96.90	149.90	99.30	99.30	29.00	17.00	11.10		
5	32.00	246.80	186.50	16.60	21.80	77.70	236.90	420.30	96.90	29.00	17.00	8.90		
6	32.70	222.00	159.70	16.60	20.70	77.70	484.50	716.60	96.90	29.00	16.60	7.20		
7	36.20	202.80	127.90	14.70	19.30	159.70	576.90	842.70	96.90	29.00	16.20	5.50		
8	32.70	184.90	92.00	15.10	18.80	266.70	631.40	896.70	82.80	29.00	16.20	4.30		
9	33.60	172.80	68.70	22.50	17.00	250.80	589.20	925.40	70.70	28.40	15.70	3.20		
10	31.20	163.80	50.60	67.70	18.80	165.30	470.10	911.00	61.20	28.40	15.70	2.70		
11	28.40	171.30	34.50	79.80	25.10	319.60	408.60	702.80	55.80	27.70	14.30	2.40		
12	27.70	199.30	25.80	57.60	36.20	618.90	389.90	448.70	55.80	27.00	13.80	2.40		
13	27.00	299.10	24.40	118.40	29.60	641.30	496.50	313.40	53.30	26.40	13.30	2.10		
14	36.20	422.70	22.50	145.80	27.70	638.80	482.10	268.70	51.40	26.40	13.30	1.80		
15	59.40	557.20	22.50	162.50	25.10	545.00	371.30	297.00	47.90	25.80	12.50	1.50		
16	144.30	508.60	29.60	130.60	44.40	520.70	220.20	432.10	46.30	25.10	12.90	1.40		
17	133.40	528.00	39.50	95.70	151.30	446.30	125.20	591.70	44.40	24.40	12.00	1.20		
18	127.90	589.20	63.80	62.00	344.40	378.30	130.60	713.90	40.30	24.40	12.00	1.20		
19	93.30	554.80	56.80	39.50	278.80	293.00	129.20	758.30	37.80	24.40	12.00	1.20		
20	54.10	489.30	43.70	36.90	204.50	216.70	125.20	791.90	37.80	24.40	11.50	1.20		
21	42.00	451.10	34.50	34.50	163.80	134.60	113.10	738.80	37.80	23.30	11.10	1.00		
22	36.20	434.50	27.70	37.80	129.20	121.30	100.60	436.80	36.90	22.50	11.10	1.00		
23	32.00	406.20	23.80	43.70	73.70	104.20	99.30	284.90	36.90	21.80	10.20	1.00		
24	24.40	371.30	21.80	107.90	55.80	107.90	100.60	177.40	37.80	21.30	12.00	1.00		
25	22.50	276.80	21.30	313.40	166.80	115.90	101.80	129.20	38.60	21.30	12.00	1.00		
26	18.20	149.90	22.50	268.70	254.70	420.30	121.30	109.20	38.60	20.70	12.00	0.90		
27	18.80	123.80	23.80	134.60	192.60	606.50	133.40	106.70	39.50	20.70	12.00	0.90		
28	23.30	201.00	25.80	66.70	156.90	528.00	579.30	366.70	39.50	20.70	11.50	0.90		
29	23.30	369.00	25.10	47.90	138.80	362.10	708.30	486.90	39.50	20.00		0.90		
30	19.30	465.30	25.10	42.00	119.80	155.40	661.40	399.20	38.60	20.00		0.90		
31		396.90		40.30	90.80		535.30		38.60	20.00		0.90		
Total	1351.60	9545.60	2750.50	2290.10	2937.00	8676.20	9680.30	13816.70	1951.90	793.60	388.50	121.70	54303.70	Ton
Mean	45.10	307.90	91.70	73.90	94.70	289.20	312.30	460.60	63.00	25.60	13.90	3.90		
Max	144.30	589.20	436.80	313.40	344.40	641.30	708.30	925.40	206.20	38.60	18.80	20.70	925.40	
Min	18.20	19.30	21.30	14.70	17.00	77.70	99.30	90.80	36.90	20.00	10.20	0.90	0.90	

WATER YEAR : 2009**TAPI RIVER BASIN****Khlong I - Pan at Ban Arpart , Surat Thani (X.260)**

Lat 08 - 32 - 28 N Long 99 - 13 - 25 E

Location : on left bank at Ban Arpart.

	Ban Arpart	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	2,076 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	37		
R-Square	0.8369		
Remarks	Continued Sediment Station		

$$QS = 6.1810 QW^{1.26040}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	86.30	25.70	382.70	40.00	86.30	401.10	640.00	516.70	189.30	35.50	17.70	26.80		
2	86.30	32.20	288.50	40.00	78.30	401.10	505.00	371.80	141.70	31.10	16.70	23.70		
3	86.30	40.00	170.50	40.00	70.50	412.20	648.10	285.10	176.70	26.80	16.70	57.90		
4	86.30	40.00	125.50	40.00	54.20	412.20	947.50	236.20	134.30	25.70	16.70	24.70		
5	78.30	47.00	119.70	30.00	42.30	254.50	1282.20	508.90	131.30	31.10	17.70	16.70		
6	70.50	70.50	121.20	70.50	70.50	229.60	1491.90	1070.30	115.40	48.20	97.20	14.80		
7	70.50	104.10	121.20	70.50	104.10	571.70	2017.00	1574.70	118.30	60.40	41.10	13.90		
8	70.50	121.20	121.20	70.50	106.90	601.60	2055.70	1780.40	112.60	79.70	21.60	13.00		
9	104.10	121.20	86.30	70.50	106.90	434.50	2066.00	813.00	134.30	111.20	17.70	12.10		
10	189.30	101.30	54.20	70.50	161.30	279.90	1998.90	689.10	86.30	90.40	16.70	12.10		
11	344.70	91.70	42.30	70.50	111.20	357.30	851.60	642.00	70.50	70.50	16.70	12.10		
12	288.50	104.10	42.30	434.50	104.10	625.80	730.60	579.60	60.40	77.00	16.70	12.10		
13	252.80	179.80	70.50	916.80	82.30	862.40	617.70	497.30	54.20	89.00	16.70	12.10		
14	229.60	264.60	70.50	916.80	69.20	680.90	567.70	430.80	50.60	56.70	16.70	12.10		
15	221.40	307.60	65.40	813.00	54.20	714.00	491.50	419.60	47.00	64.10	16.70	12.10		
16	203.60	382.70	69.20	520.60	54.20	770.50	453.40	357.30	47.00	36.60	16.70	12.10		
17	194.00	480.00	104.10	362.70	114.00	817.30	442.10	401.10	42.30	28.90	16.70	11.20		
18	146.10	607.70	206.80	337.60	307.60	699.50	468.60	468.60	42.30	24.70	15.70	11.20		
19	153.70	779.00	288.50	307.60	236.20	563.80	406.60	397.40	40.00	22.60	15.70	11.20		
20	170.50	607.70	224.60	279.90	229.60	501.20	339.40	362.70	40.00	22.60	15.70	11.20		
21	122.60	307.60	184.50	293.70	229.60	464.80	323.40	350.10	37.70	22.60	15.70	11.20		
22	82.30	254.50	140.20	278.20	172.00	427.00	290.30	316.40	37.70	21.60	16.70	11.20		
23	66.70	218.10	89.00	197.20	143.20	391.80	261.20	262.90	37.70	21.60	18.60	11.20		
24	62.90	158.20	70.50	229.60	90.40	371.80	252.80	247.80	36.60	20.60	15.70	11.20		
25	54.20	149.10	77.00	821.60	307.60	353.70	242.80	227.90	36.60	20.60	20.60	11.20		
26	70.50	125.50	86.30	680.90	430.80	625.80	227.90	211.60	35.50	19.60	23.70	11.20		
27	70.50	153.70	71.80	434.50	483.90	1317.50	288.50	194.00	32.20	19.60	31.10	11.20		
28	36.60	213.20	51.80	203.60	430.80	1750.40	497.30	184.50	85.00	18.60	24.70	11.20		
29	26.80	307.60	50.60	150.60	359.10	1453.30	798.10	213.20	65.40	18.60		11.20		
30	25.70	399.20	50.60	114.00	421.40	954.10	745.30	221.40	60.40	18.60		11.20		
31		508.90		100.00	307.60		670.60		56.70	18.60		11.20		
Total	3752.10	7303.70	3647.50	9006.40	5620.30	18701.30	23619.70	14832.40	2356.00	1253.40	610.60	456.30	91159.70	Ton
Mean	125.10	235.60	121.60	290.50	181.30	623.40	761.90	494.40	76.00	40.40	21.80	14.70		
Max	344.70	779.00	382.70	916.80	483.90	1750.40	2066.00	1780.40	189.30	111.20	97.20	57.90	2066.00	
Min	25.70	25.70	42.30	30.00	42.30	229.60	227.90	184.50	32.20	18.60	15.70	11.20	11.20	

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Rattaphum at Ban Kampheang Phet , Songkhla (X.67A)

Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Kampheang Phet.

	Ban Kampheang Phet	Amphoe Rattaphum	Changwat Songkhla
Drainage Area	248 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2006-Cont'd		
Actual Measurement	2006-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	34		
R-Square	0.9001		
Remarks	Continued Sediment Station		

$$QS = 8.1282 QW^{1.28880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	45.40	33.50	26.50	6.60	8.10	64.70	33.50	153.00	590.30	26.50	8.10	8.10		
2	42.40	33.50	25.10	6.60	8.10	48.50	40.80	135.60	1565.40	26.50	7.90	7.60		
3	40.80	47.00	22.50	6.40	7.90	64.70	36.40	82.70	681.60	238.30	7.10	6.90		
4	48.50	47.00	22.50	6.60	7.60	90.70	33.50	85.40	522.80	153.00	7.10	6.40		
5	56.50	45.40	21.10	6.90	8.10	153.00	32.10	652.60	459.80	56.50	6.90	5.60		
6	61.40	43.90	19.90	7.10	7.60	258.50	33.50	8445.30	343.20	40.80	6.90	5.60		
7	77.50	48.50	18.60	7.40	7.40	118.50	26.50	3499.30	289.60	33.50	6.90	5.40		
8	459.80	45.40	17.30	7.60	7.10	61.40	19.90	1104.40	238.30	53.30	6.60	5.40		
9	659.60	40.80	16.10	8.10	7.60	56.50	27.80	597.20	213.30	48.50	6.40	5.10		
10	666.90	33.50	12.50	18.60	7.90	33.50	36.40	398.60	171.00	40.80	6.40	4.90		
11	522.80	32.10	10.30	56.50	7.60	29.20	45.40	289.60	153.00	33.50	6.40	4.90		
12	459.80	30.60	9.20	118.50	7.10	25.10	43.90	429.00	135.60	30.60	6.40	4.90		
13	238.30	26.50	8.10	484.80	6.90	19.90	26.50	326.80	118.50	26.50	6.10	4.90		
14	153.00	25.10	8.10	343.20	6.60	22.50	22.50	189.20	104.40	19.90	6.10	5.10		
15	135.60	23.80	7.90	118.50	6.60	29.20	26.50	118.50	77.50	19.90	6.10	5.10		
16	118.50	22.50	7.60	48.50	6.40	26.50	22.50	112.90	64.70	17.30	5.90	5.10		
17	90.70	238.30	7.60	26.50	6.90	22.50	19.90	104.40	64.70	16.10	5.60	4.90		
18	77.50	398.60	7.60	23.80	8.10	21.10	14.90	348.50	63.00	14.90	5.40	4.90		
19	72.30	167.30	7.90	19.90	10.30	19.90	12.50	638.60	61.40	13.70	5.40	4.70		
20	56.50	56.50	7.90	13.70	8.10	18.60	12.50	1976.50	58.10	11.40	5.40	4.50		
21	47.00	48.50	8.10	10.30	7.90	17.30	11.40	7238.80	56.50	8.10	5.10	4.20		
22	40.80	40.80	8.10	19.90	7.90	13.70	10.30	5969.90	53.30	7.90	5.10	4.00		
23	37.90	37.90	7.90	17.30	101.60	11.40	8.10	3845.60	50.10	7.90	5.10	3.60		
24	43.90	33.50	7.40	14.90	142.50	13.70	13.70	1482.50	48.50	7.60	5.10	3.60		
25	45.40	32.10	7.10	13.70	208.50	33.50	23.80	898.70	45.40	8.10	17.30	3.60		
26	45.40	30.60	6.90	10.30	171.00	48.50	33.50	674.20	40.80	13.70	80.10	3.30		
27	43.90	33.50	6.90	9.20	33.50	72.30	61.40	536.20	36.40	19.90	17.30	3.30		
28	42.40	34.90	6.60	8.10	90.70	88.00	128.60	441.20	33.50	12.50	8.10	3.20		
29	40.80	36.40	6.60	39.40	104.40	40.80	688.90	393.10	32.10	9.20		3.20		
30	33.50	33.50	6.60	19.90	218.30	36.40	688.90	337.60	30.60	8.10		2.90		
31		33.50		9.20	90.70		645.60		30.60	7.60		2.90		
Total	4504.80	1835.00	356.50	1508.00	1329.00	1560.10	2881.70	41505.90	6434.00	1032.10	272.30	147.80	63367.20	Ton
Mean	150.20	59.20	11.90	48.60	42.90	52.00	93.00	1383.50	207.50	33.30	9.70	4.80		
Max	666.90	398.60	26.50	484.80	218.30	258.50	688.90	8445.30	1565.40	238.30	80.10	8.10	8445.30	
Min	33.50	22.50	6.60	6.40	6.40	11.40	8.10	82.70	30.60	7.60	5.10	2.90	2.90	

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)

Lat 06 - 55 - 39 N Long 100 - 26 - 37 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

	Ban Bang Sala	Amphoe	Khlong Hoi Khong	Changwat	Songkhla
Drainage Area	1,547 sq.km.				
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	2005-Cont'd				
Actual Measurement	2005-Cont'd				
Using Rating Curve Water Year	2009				
Number of observation	32				
R-Square	0.7666				
Remarks	Continued Sediment Station				

$$QS = 24.0630 QW^{1.04040}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	503.70	228.50	163.30	147.20	341.40	469.90	87.30	1252.60	1591.40	374.80	133.70	397.10		
2	341.40	288.90	128.40	135.10	143.10	520.60	358.10	1478.10	1591.40	397.10	149.80	299.90		
3	405.50	358.10	88.60	59.80	143.10	543.20	425.00	1181.20	1426.80	433.40	141.80	163.30		
4	372.00	372.00	244.90	83.30	131.10	441.80	347.00	1089.60	1171.00	512.10	139.10	75.50		
5	467.10	427.80	310.90	103.10	119.10	408.30	269.60	842.60	1222.00	422.20	128.40	78.10		
6	692.20	489.60	302.70	65.00	95.20	302.70	143.10	11929.70	475.50	683.70	128.40	120.40		
7	543.20	422.20	223.00	59.80	163.30	228.50	264.10	24186.50	444.70	515.00	123.10	157.90		
8	464.30	358.10	193.10	72.80	171.40	402.70	352.50	20085.00	427.80	517.80	115.10	184.90		
9	509.30	305.40	141.80	75.50	127.10	224.40	352.50	11990.20	402.70	537.50	101.80	195.80		
10	551.70	294.40	88.60	99.20	163.30	258.60	692.20	6875.60	413.90	623.90	101.80	206.70		
11	436.20	286.10	41.80	75.50	163.30	220.30	649.50	3707.50	374.80	509.30	96.50	171.40		
12	402.70	277.80	26.60	99.20	163.30	155.20	554.50	2184.40	322.00	411.10	88.60	166.00		
13	537.50	363.70	167.30	286.10	143.10	139.10	571.50	1488.40	324.80	427.80	123.10	171.40		
14	864.20	416.60	330.30	515.00	143.10	159.30	297.10	1232.20	453.10	358.10	247.60	182.20		
15	825.40	433.40	111.10	369.20	220.30	139.10	228.50	1232.20	419.40	168.70	297.10	174.10		
16	743.70	366.40	41.80	269.60	99.20	103.10	224.40	2005.80	333.10	352.50	220.30	168.70		
17	577.10	611.20	103.10	242.10	179.50	167.30	216.20	2387.60	324.80	405.50	141.80	190.30		
18	529.10	842.60	216.20	171.40	167.30	131.10	253.10	2268.00	416.60	427.80	112.40	190.30		
19	515.00	760.80	228.50	83.30	139.10	224.40	385.90	2925.50	547.40	628.20	104.40	179.50		
20	402.70	778.00	187.60	75.50	163.30	413.90	492.40	3556.90	500.90	225.70	149.80	166.00		
21	250.40	760.80	163.30	107.10	208.00	663.70	621.10	9683.00	419.40	179.50	179.50	144.50		
22	464.30	658.10	115.10	54.70	313.70	313.70	498.00	17090.40	363.70	149.80	133.70	139.10		
23	455.90	534.70	143.10	115.10	369.20	135.10	341.40	22123.90	411.10	136.40	107.10	144.50		
24	338.60	430.60	99.20	232.60	264.10	107.10	167.30	19916.00	405.50	117.70	72.80	166.00		
25	250.40	355.30	49.50	139.10	242.10	115.10	560.10	13027.50	360.90	104.40	107.10	190.30		
26	369.20	344.20	95.20	99.20	280.60	155.20	599.80	8340.60	316.50	160.60	136.40	217.50		
27	439.00	363.70	107.10	79.40	352.50	91.20	369.20	4626.40	193.10	209.40	198.50	214.80		
28	402.70	341.40	111.10	167.30	380.40	191.70	678.00	2993.40	347.00	190.30	316.50	176.80		
29	302.70	330.30	87.30	171.40	425.00	163.30	1396.00	2303.80	308.20	157.90		152.50		
30	272.30	297.10	83.30	253.10	560.10	91.20	1344.70	2077.20	250.40	115.10		168.70		
31		255.90		280.60	628.20		1293.50		228.50	125.70		190.30		
Total	14229.50	13353.70	4393.80	4787.30	7203.50	7680.80	15033.60	206081.80	16788.40	10579.00	4096.20	5544.50	309772.10	Ton
Mean	474.30	430.80	146.50	154.40	232.40	256.00	485.00	6869.40	541.60	341.30	146.30	178.90		
Max	864.20	842.60	330.30	515.00	628.20	663.70	1396.00	24186.50	1591.40	683.70	316.50	397.10	24186.50	
Min	250.40	228.50	26.60	54.70	95.20	91.20	87.30	842.60	193.10	104.40	72.80	75.50	26.60	

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

Location : on left bank at the bridge.

	Ban Khlong Lam	Amphoe Srinagarindra	Changwat Phatthalung
Drainage Area	258 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	33		
R-Square	0.9100		
Remarks	Continued Sediment Station		

$$QS = 2.9991 QW^{1.55240}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.20	28.30	48.40	10.60	5.60	48.40	72.00	57.50	338.50	44.10	44.10	15.20		
2	98.80	32.10	39.90	10.60	5.60	39.90	35.90	67.00	2184.70	44.10	44.10	15.20		
3	301.70	137.40	39.90	10.60	7.10	28.30	28.30	57.50	1147.40	301.70	39.90	12.40		
4	227.40	82.40	35.90	8.80	5.60	21.40	28.30	1590.80	883.30	227.40	39.90	12.40		
5	162.70	39.90	44.10	12.40	8.80	21.40	21.40	3247.20	443.80	171.50	121.40	12.40		
6	87.70	32.10	39.90	10.60	28.30	98.80	39.90	4861.60	313.80	121.40	48.40	12.40		
7	113.70	52.90	35.90	8.80	32.10	35.90	57.50	5027.30	278.10	3554.30	44.10	10.60		
8	154.10	39.90	32.10	8.80	48.40	24.80	39.90	2534.10	237.20	1338.10	39.90	8.80		
9	769.90	48.40	28.30	10.60	24.80	21.40	44.10	883.30	180.40	627.50	35.90	7.10		
10	989.30	39.90	28.30	10.60	24.80	24.80	35.90	457.60	145.70	351.10	35.90	7.10		
11	715.30	32.10	24.80	10.60	12.40	32.10	121.40	289.80	129.40	208.10	35.90	7.10		
12	237.20	67.00	24.80	93.20	10.60	21.40	52.90	227.40	113.70	137.40	32.10	7.10		
13	145.70	35.90	21.40	82.40	8.80	32.10	39.90	180.40	98.80	106.20	32.10	5.60		
14	106.20	39.90	21.40	24.80	7.10	35.90	35.90	145.70	87.70	98.80	28.30	5.60		
15	154.10	39.90	21.40	15.20	18.20	32.10	32.10	171.50	87.70	82.40	28.30	5.60		
16	576.80	82.40	39.90	12.40	35.90	24.80	28.30	113.70	77.10	77.10	28.30	4.20		
17	154.10	82.40	28.30	18.20	12.40	24.80	24.80	154.10	87.70	44.10	28.30	4.20		
18	98.80	162.70	21.40	12.40	8.80	18.20	21.40	576.80	87.70	72.00	24.80	3.00		
19	77.10	137.40	21.40	10.60	10.60	21.40	21.40	1078.60	87.70	67.00	24.80	1.90		
20	72.00	67.00	21.40	8.80	12.40	28.30	18.20	2534.10	171.50	67.00	24.80	1.00		
21	62.20	72.00	18.20	8.80	10.60	18.20	32.10	9125.10	93.20	67.00	21.40	0.30		
22	62.20	62.20	18.20	15.20	8.80	18.20	24.80	4971.80	77.10	129.40	21.40	0.30		
23	52.90	44.10	18.20	18.20	12.40	15.20	18.20	1170.70	72.00	72.00	21.40	0.00		
24	67.00	39.90	18.20	21.40	77.10	12.40	21.40	644.70	67.00	87.70	21.40	0.00		
25	48.40	35.90	15.20	15.20	106.20	145.70	15.20	430.10	67.00	67.00	24.80	0.00		
26	48.40	93.20	15.20	10.60	28.30	106.20	24.80	326.10	57.50	57.50	32.10	0.00		
27	39.90	52.90	15.20	8.80	18.20	48.40	67.00	416.50	57.50	62.20	24.80	0.00		
28	35.90	93.20	12.40	8.80	15.20	35.90	313.80	257.40	52.90	52.90	21.40	1.90		
29	32.10	72.00	12.40	8.80	198.70	28.30	864.00	208.10	48.40	52.90		5.60		
30	32.10	62.20	12.40	7.10	98.80	67.00	145.70	171.50	48.40	48.40		12.40		
31		52.90		7.10	57.50		82.40		44.10	48.40		12.40		
Total	5741.90	1960.50	774.50	521.00	960.10	1131.70	2408.90	41978.00	7867.00	8486.70	970.00	191.80	72992.10	Ton
Mean	191.40	63.20	25.80	16.80	31.00	37.70	77.70	1399.30	253.80	273.80	34.60	6.20		
Max	989.30	162.70	48.40	93.20	198.70	145.70	864.00	9125.10	2184.70	3554.30	121.40	15.20	9125.10	
Min	18.20	28.30	12.40	7.10	5.60	12.40	15.20	57.50	44.10	44.10	21.40	0.00	0.00	

WATER YEAR : 2009

THALE SAP SONGKHLA

Khlong Wa at Ban Khlong Wa , Songkhla (X.174)

Lat 06 - 59 - 42 N Long 100 - 29 - 05 E

Location : on right bank at the bridge.

	Ban Khlong Wa	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	116 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	25		
R-Square	0.8366		
Remarks	Continued Sediment Station		

$$QS = 11.9580 QW^{1.01680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	24.20	29.10	24.20	15.00	7.20	9.40	5.10	24.20	257.90	42.70	19.30	42.70		
2	24.20	30.40	24.20	15.00	6.90	9.00	4.70	26.70	248.30	40.30	19.30	46.50		
3	24.20	31.60	23.60	15.00	6.20	8.70	4.50	29.10	199.20	41.50	18.70	49.00		
4	26.70	34.10	23.00	15.00	6.50	9.00	4.70	26.70	161.00	39.00	18.70	52.70		
5	29.10	36.50	23.00	15.00	6.50	8.30	6.20	73.30	148.30	42.70	18.10	58.30		
6	31.60	36.50	23.00	15.00	6.50	8.00	6.50	1187.00	138.20	52.70	17.40	65.80		
7	54.60	31.60	22.40	15.00	6.50	6.90	5.10	989.60	121.80	35.30	17.40	58.30		
8	95.30	27.90	22.40	15.00	6.50	7.20	6.50	556.80	123.90	32.80	16.80	49.00		
9	106.40	25.40	22.40	9.80	6.50	8.30	6.50	232.30	95.30	31.60	16.80	46.50		
10	117.30	24.20	24.20	8.70	6.50	5.40	6.50	153.40	104.10	29.10	16.80	37.80		
11	102.00	24.20	22.40	9.40	6.50	5.10	6.20	104.10	126.20	27.90	16.20	31.60		
12	44.00	23.60	21.10	11.60	6.50	5.10	6.90	90.90	80.80	26.70	15.60	25.40		
13	36.50	21.70	20.50	12.60	6.50	4.70	6.50	79.00	71.40	24.20	15.60	25.40		
14	36.50	21.10	19.90	11.60	12.60	4.50	5.80	79.00	67.70	23.60	15.60	23.60		
15	36.50	19.90	18.70	10.50	18.70	4.50	4.50	77.10	62.10	23.60	15.00	23.60		
16	35.30	19.30	16.20	10.10	10.90	4.50	5.10	65.80	60.20	23.00	15.00	23.00		
17	36.50	17.40	15.60	9.80	9.80	4.70	5.40	54.60	54.60	22.40	14.40	22.40		
18	42.70	16.80	17.40	9.40	9.80	4.70	5.40	121.80	80.80	21.70	14.40	21.70		
19	32.80	16.80	17.40	9.40	9.40	4.70	5.40	153.40	79.00	21.70	13.80	21.70		
20	31.60	15.00	16.80	9.00	8.70	4.50	5.80	371.20	62.10	21.10	13.20	21.10		
21	31.60	21.10	16.80	7.60	8.30	4.20	5.10	1558.20	50.80	21.10	13.20	21.10		
22	31.60	35.30	16.20	8.30	8.30	4.20	4.50	1596.30	60.20	21.10	12.60	21.10		
23	30.40	46.50	16.20	8.30	8.00	4.50	4.50	1070.30	60.20	20.50	12.00	21.10		
24	30.40	49.00	15.60	8.00	8.00	5.10	4.50	776.40	50.80	21.10	11.60	23.00		
25	29.10	50.80	15.60	8.00	8.00	4.70	6.20	367.60	49.00	23.60	12.00	26.70		
26	25.40	47.70	15.00	8.00	7.60	4.70	8.70	238.70	47.70	22.40	12.00	26.70		
27	25.40	44.00	15.00	7.60	8.00	5.10	6.50	206.80	45.20	22.40	12.00	24.20		
28	25.40	40.30	14.40	8.00	9.40	4.70	12.00	189.00	45.20	21.10	11.60	24.20		
29	25.40	36.50	13.80	7.60	11.60	4.50	222.10	381.80	47.70	21.10		24.20		
30	25.40	34.10	13.80	7.60	9.00	4.50	99.70	385.40	45.20	20.50		24.20		
31		27.90		7.20	9.80		45.20		42.70	19.90		24.20		
Total	1248.10	936.30	570.80	328.10	261.20	173.40	532.30	11266.50	2887.60	858.40	425.10	1006.80	20494.60	Ton
Mean	41.60	30.20	19.00	10.60	8.40	5.80	17.20	375.60	93.10	27.70	15.20	32.50		
Max	117.30	50.80	24.20	15.00	18.70	9.40	222.10	1596.30	257.90	52.70	19.30	65.80	1596.30	
Min	24.20	15.00	13.80	7.20	6.20	4.20	4.50	24.20	42.70	19.90	11.60	21.10	4.20	

WATER YEAR : 2009

THALE SAP SONGKHLA

Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)

Lat 06 - 59 - 03 N Long 100 - 19 - 44 E

Location : on right bank at the bridge.

	Ban Hu Rae	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	127 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	32		
R-Square	0.8446		
Remarks	Continued Sediment Station		

$$QS = 13.8250 QW^{1.27190}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.80	7.20	32.30	1.80	2.40	8.80	8.00	9.60	497.20	29.20	13.80	7.20		
2	14.70	6.50	24.10	1.20	1.80	6.50	3.60	8.80	445.90	28.20	13.00	7.20		
3	57.10	7.20	23.20	1.20	1.20	4.30	2.40	7.20	412.20	66.80	13.00	7.20		
4	28.20	7.20	20.30	0.70	1.20	4.30	3.60	7.20	235.10	63.10	12.10	6.50		
5	38.80	8.80	15.60	1.80	3.00	3.00	1.80	261.90	225.20	46.60	12.10	6.50		
6	32.30	14.70	13.80	1.20	8.00	35.50	5.70	16044.30	164.90	41.00	11.20	6.50		
7	27.20	9.60	12.10	0.70	2.40	143.70	3.00	10335.70	147.40	36.60	11.20	5.70		
8	79.30	8.00	10.40	11.20	3.00	136.50	1.80	672.40	140.20	32.30	11.20	5.70		
9	36.60	6.50	8.80	7.20	3.60	5.00	3.00	458.50	132.70	50.10	11.20	5.70		
10	141.90	6.50	8.00	11.20	3.00	4.30	1.80	341.70	127.10	32.30	11.20	5.70		
11	53.60	5.00	7.20	3.60	1.20	3.60	13.80	297.60	149.50	30.20	11.20	5.00		
12	35.50	4.30	6.50	57.10	1.20	2.40	10.40	362.80	162.80	27.20	11.20	5.00		
13	27.20	4.30	5.70	97.90	1.20	4.30	8.00	264.20	169.70	26.10	10.40	5.00		
14	23.20	14.70	5.00	23.20	1.20	2.40	4.30	239.60	160.40	23.20	10.40	4.30		
15	23.20	13.80	5.00	13.80	1.80	3.60	4.30	264.20	149.50	22.20	10.40	4.30		
16	25.10	30.20	8.00	10.40	5.70	1.80	3.60	218.20	136.50	17.40	10.40	4.30		
17	20.30	54.70	5.00	11.20	1.80	1.80	4.30	227.70	107.60	15.60	10.40	3.60		
18	23.20	125.40	4.30	8.80	1.80	9.60	1.80	320.90	94.70	19.30	9.60	3.60		
19	16.50	66.80	3.60	6.50	8.00	3.00	2.40	354.60	79.30	18.40	9.60	3.60		
20	17.40	36.60	3.60	5.70	2.40	2.40	1.80	10473.30	54.70	18.40	9.60	3.60		
21	24.10	642.30	3.00	5.70	6.50	1.20	7.20	11384.80	48.90	18.40	9.60	4.30		
22	13.80	54.70	2.40	4.30	1.80	0.70	1.80	11618.00	44.30	17.40	9.60	6.50		
23	13.00	34.40	1.80	8.80	1.20	0.70	1.20	5943.10	41.00	17.40	8.80	8.80		
24	12.10	32.30	1.80	5.00	17.40	0.30	1.20	1112.70	38.80	17.40	8.80	6.50		
25	11.20	23.20	1.80	3.60	22.20	2.40	0.70	471.20	37.70	16.50	8.80	6.50		
26	13.00	702.80	1.80	3.60	8.00	5.00	5.00	329.50	36.60	16.50	8.00	6.50		
27	9.60	58.30	1.80	3.00	8.00	12.10	2.40	338.50	34.40	16.50	8.00	6.50		
28	10.40	34.40	3.00	3.60	4.30	6.50	17.40	235.10	33.40	15.60	8.00	6.50		
29	8.00	27.20	2.40	8.80	22.20	1.80	64.30	354.60	32.30	15.60		6.50		
30	5.70	118.10	1.80	4.30	11.20	3.60	18.40	232.50	31.30	15.60		6.50		
31		54.70		3.00	8.80		13.80		30.20	15.60		6.50		
Total	856.00	2220.40	244.10	330.10	167.50	421.10	222.80	73190.40	4201.50	826.70	292.80	177.80	83151.20	Ton
Mean	28.50	71.60	8.10	10.60	5.40	14.00	7.20	2439.70	135.50	26.70	10.50	5.70		
Max	141.90	702.80	32.30	97.90	22.20	143.70	64.30	16044.30	497.20	66.80	13.80	8.80	16044.30	
Min	5.70	4.30	1.80	0.70	1.20	0.30	0.70	7.20	30.20	15.60	8.00	3.60	0.30	

WATER YEAR : 2009**THALE SAP SONGKHLA****Upper Khlong Tha at Ban Khao Pu , Phatthalung (X.276)**

Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

	Ban Khao Pu	Amphoe Si Banphot	Changwat Phatthalung
Drainage Area	47 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	35		
R-Square	0.8280		
Remarks	Continued Sediment Station		

$$QS = 12.0140 QW^{1.10020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.50	10.00	16.90	6.20	6.60	25.20	12.80	8.90	36.40	6.20	6.20	4.10		
2	23.50	10.80	16.00	6.20	6.20	19.30	11.60	9.30	142.20	5.90	5.90	4.10		
3	25.20	31.20	15.20	6.20	6.20	16.90	9.70	9.70	53.90	8.90	5.90	3.90		
4	21.00	25.20	13.60	6.20	6.20	14.40	7.40	215.00	44.40	43.00	5.90	3.90		
5	15.20	17.70	14.40	6.20	8.90	20.10	7.70	112.20	32.50	35.10	5.90	3.70		
6	14.40	15.20	12.80	6.20	7.00	31.20	10.40	681.70	26.00	31.20	5.50	3.40		
7	20.10	14.40	10.40	5.90	8.50	19.30	10.00	308.60	22.70	102.20	5.50	3.20		
8	25.20	11.60	10.00	5.90	8.90	16.00	9.70	157.20	20.10	41.70	5.10	3.20		
9	167.20	19.30	10.00	12.80	8.90	16.00	9.30	80.40	18.50	31.20	5.10	2.70		
10	82.30	12.00	9.70	15.20	8.90	16.90	15.20	41.70	16.90	27.70	5.10	2.70		
11	49.80	11.60	9.30	8.90	7.70	16.00	25.20	36.40	16.00	21.80	5.10	2.50		
12	31.20	16.00	8.90	45.70	6.60	14.40	15.20	32.50	14.40	16.90	4.40	2.50		
13	24.30	12.00	8.50	26.00	6.60	13.60	11.60	26.90	12.00	14.40	4.40	2.50		
14	21.00	12.00	8.50	18.50	6.60	19.30	10.40	21.80	12.00	12.80	4.40	2.50		
15	17.70	11.20	9.70	11.20	7.00	16.90	10.40	20.10	11.20	11.20	4.40	2.50		
16	32.50	53.90	10.80	11.20	6.60	15.20	10.40	17.70	10.40	10.80	4.40	2.50		
17	21.80	33.80	14.40	11.60	6.20	13.60	9.30	15.20	10.40	10.00	4.40	2.00		
18	17.70	45.70	10.00	10.00	5.90	15.20	9.30	254.70	9.30	10.00	4.10	2.00		
19	28.60	66.70	10.00	9.30	5.90	13.60	8.90	130.60	21.00	8.90	4.10	2.50		
20	21.80	40.40	9.70	8.50	5.50	12.00	8.10	486.70	20.10	8.50	3.90	2.70		
21	16.90	35.10	8.90	8.10	5.50	11.20	8.50	260.60	12.00	8.10	3.90	2.70		
22	16.00	26.00	8.50	8.90	5.90	10.80	8.10	110.30	11.60	7.70	3.90	2.70		
23	23.50	22.70	8.10	11.20	26.00	10.80	7.40	64.70	10.00	7.70	3.90	2.50		
24	19.30	20.10	7.70	11.60	22.70	10.80	7.00	49.80	9.30	7.40	3.70	2.50		
25	14.40	14.40	7.40	8.50	33.80	26.00	6.60	41.70	8.50	7.40	4.70	2.50		
26	14.40	21.00	7.40	8.10	15.20	18.50	7.40	32.50	8.10	7.00	7.00	2.00		
27	14.40	19.30	7.00	7.70	12.00	15.20	15.20	27.70	8.10	7.00	7.70	2.00		
28	14.40	40.40	6.60	7.70	12.80	12.00	40.40	24.30	7.70	7.40	5.50	2.70		
29	13.60	26.00	6.20	7.40	44.40	11.60	26.90	21.80	7.70	6.60		3.00		
30	12.80	25.20	6.20	7.00	86.30	12.80	16.00	17.70	7.40	6.20		2.30		
31		20.10		6.60	29.90		12.00		6.20	5.90		2.30		
Total	828.70	741.00	302.80	330.70	435.40	484.80	378.10	3318.40	647.00	536.80	140.00	86.30	8230.00	Ton
Mean	27.60	23.90	10.10	10.70	14.00	16.20	12.20	110.60	20.90	17.30	5.00	2.80		
Max	167.20	66.70	16.90	45.70	86.30	31.20	40.40	681.70	142.20	102.20	7.70	4.10	681.70	
Min	8.50	10.00	6.20	5.90	5.50	10.80	6.60	8.90	6.20	5.90	3.70	2.00	2.00	

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Tha Pradu , Trang (X.56)
 Lat 07 - 46 - 01 N Long 99 - 32 - 25 E

Location : on left bank at Ban Tha Pradu.

	Ban Tha Pradu	Amphoe Huai Yot	Changwat Trang
Drainage Area	1,801 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	33		
R-Square	0.7994		
Remarks	Continued Sediment Station		

$$QS = 4.8785 QW^{1.37730}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	48.50	30.50	310.50	24.00	31.20	381.70	237.60	878.20	293.80	36.40	15.10	23.20		
2	32.90	31.20	184.90	19.50	27.20	332.70	188.50	506.40	306.30	32.90	14.50	18.00		
3	54.90	51.00	136.80	18.00	26.30	233.70	160.80	361.90	396.90	35.20	14.50	15.80		
4	92.20	139.60	116.60	18.00	24.70	160.80	136.80	747.30	422.20	37.50	13.70	13.70		
5	133.80	233.70	102.90	57.50	24.00	154.70	157.60	4149.00	474.30	56.20	13.10	12.40		
6	71.90	376.80	84.50	29.60	23.20	660.70	245.50	7391.90	347.30	116.60	12.40	11.80		
7	49.80	192.20	59.80	69.30	27.20	707.60	417.20	9837.40	289.70	122.30	11.80	10.50		
8	62.20	108.40	49.80	47.30	29.60	323.10	522.50	11263.30	261.30	229.90	11.80	9.30		
9	102.90	89.70	42.30	131.00	35.20	184.90	540.30	11697.20	203.30	199.60	10.50	9.30		
10	192.20	59.80	37.50	277.40	32.90	289.70	500.90	11657.60	166.90	128.00	9.90	8.70		
11	564.80	49.80	35.20	285.60	29.60	1238.40	534.20	11106.60	142.70	89.70	8.70	7.50		
12	386.60	62.20	37.50	306.30	27.20	2102.40	747.30	9477.30	119.50	89.70	7.50	7.50		
13	241.50	57.50	35.20	878.20	21.60	1600.40	715.50	6184.50	108.40	59.80	7.00	7.50		
14	142.70	100.30	32.10	707.60	20.10	1085.00	558.70	3137.80	102.90	56.20	7.00	7.00		
15	89.70	184.90	30.50	269.40	23.20	1293.80	490.20	1740.00	94.90	53.60	7.00	5.90		
16	76.80	289.70	32.90	131.00	31.20	1473.70	371.80	1275.30	79.30	48.50	7.00	5.40		
17	174.00	1023.40	51.00	84.50	640.20	1349.90	261.30	1799.10	79.30	38.70	7.00	5.40		
18	151.60	1049.70	51.00	57.50	289.70	911.80	210.80	2259.80	76.80	36.40	7.50	4.90		
19	116.60	577.20	46.00	47.30	160.80	1006.00	203.30	2434.90	71.90	36.40	7.50	4.70		
20	125.20	490.20	38.70	39.90	342.40	1275.30	203.30	2568.50	71.90	32.90	9.30	4.50		
21	79.30	310.50	32.90	37.50	154.70	954.30	289.70	3517.10	84.50	31.20	6.40	4.50		
22	52.30	332.70	29.60	35.20	81.90	528.10	265.30	4021.60	97.50	28.80	8.70	4.50		
23	48.50	328.00	28.80	47.30	122.30	337.40	151.60	3245.00	94.90	27.90	7.50	4.30		
24	67.00	195.90	27.20	122.30	1728.20	257.30	108.40	1858.70	76.80	25.60	8.10	4.30		
25	53.60	125.20	24.70	163.70	2130.80	293.80	87.00	1102.70	64.50	24.00	8.10	4.20		
26	154.70	261.30	24.00	92.20	1425.80	787.60	381.70	739.30	57.50	23.20	9.90	4.20		
27	81.90	676.30	24.00	47.30	699.70	1032.20	2004.00	558.70	51.00	21.60	30.50	4.00		
28	49.80	787.60	22.50	62.20	406.80	640.20	2634.20	506.40	43.50	20.90	30.50	4.30		
29	43.50	571.00	22.50	69.30	314.70	422.20	2390.70	396.90	42.30	20.10		4.50		
30	37.50	463.80	27.90	47.30	314.70	306.30	2464.40	318.90	41.10	19.50		4.50		
31		463.80		38.70	422.20		1799.10		37.50	18.00		5.40		
Total	3578.90	9713.90	1779.80	4261.90	9669.30	22325.70	19980.20	116739.30	4800.70	1797.30	312.50	241.70	195201.20	Ton
Mean	119.30	313.40	59.30	137.50	311.90	744.20	644.50	3891.30	154.90	58.00	11.20	7.80		
Max	564.80	1049.70	310.50	878.20	2130.80	2102.40	2634.20	11697.20	474.30	229.90	30.50	23.20	11697.20	
Min	32.90	30.50	22.50	18.00	20.10	154.70	87.00	318.90	37.50	18.00	6.40	4.00	4.00	

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Langu at Ban Tha Khian , Satun (X.150)
 Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Tha Khian.

	Ban Tha Khian	Amphoe Langu	Changwat Satun
Drainage Area	480 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	28		
R-Square	0.7018		
Remarks	Continued Sediment Station		

$$QS = 19.6710 QW^{0.90580}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	84.50	81.50	120.60	59.60	111.70	942.10	814.70	272.70	289.30	107.20	76.80	65.90		
2	73.70	79.90	114.60	61.20	108.70	606.00	482.30	227.20	347.60	107.20	75.30	59.60		
3	78.40	195.20	113.20	59.60	111.70	402.40	530.60	193.10	420.60	113.20	75.30	56.40		
4	84.50	1814.90	134.80	50.00	111.70	378.90	392.00	182.60	329.00	319.70	75.30	58.00		
5	89.10	433.30	113.20	79.90	114.60	441.30	399.80	317.40	277.40	199.40	75.30	58.00		
6	73.70	451.60	102.70	65.90	163.70	1098.30	961.80	1672.90	246.50	169.80	75.30	58.00		
7	90.60	315.00	96.70	59.60	122.00	697.20	620.90	3327.30	227.20	142.10	73.70	58.00		
8	355.20	312.80	90.60	54.80	129.40	461.80	443.80	2205.90	207.80	174.10	73.70	58.00		
9	140.30	272.70	86.00	111.70	119.10	294.00	555.90	853.30	195.20	134.80	72.20	56.40		
10	272.70	357.90	84.50	397.20	113.20	248.80	420.60	454.10	188.90	123.50	70.60	54.80		
11	510.40	331.40	83.00	360.50	105.70	236.90	472.10	407.60	182.60	116.10	69.10	53.20		
12	253.60	199.40	78.40	2336.40	98.20	210.30	402.40	399.80	174.10	108.70	67.50	51.60		
13	149.30	167.60	76.80	3602.00	93.70	203.60	347.60	360.50	165.50	107.20	65.90	51.60		
14	147.60	151.20	73.70	2610.10	90.60	197.30	315.00	467.00	160.10	105.70	65.90	51.60		
15	182.60	224.90	75.30	879.70	90.60	239.40	303.40	484.90	154.80	102.70	64.30	50.00		
16	373.70	469.50	113.20	322.10	207.80	308.10	270.40	412.80	149.30	98.20	64.30	48.40		
17	191.00	661.20	101.20	258.40	308.10	275.10	224.90	333.70	145.70	95.20	62.80	46.70		
18	129.40	886.30	87.60	224.90	156.50	220.10	203.60	381.50	151.20	93.70	62.80	46.70		
19	113.20	608.50	81.50	184.70	171.90	343.00	201.50	620.90	163.70	92.10	62.80	46.70		
20	93.70	482.30	76.80	171.90	122.00	733.20	355.20	1111.20	149.30	93.70	69.10	46.70		
21	84.50	294.00	72.20	176.20	136.70	384.10	443.80	1525.20	140.30	93.70	61.20	45.10		
22	84.50	227.20	70.60	182.60	142.10	217.60	298.70	2610.10	134.80	90.60	64.30	45.10		
23	86.00	188.90	72.20	201.50	484.90	182.60	220.10	1884.90	133.00	90.60	62.80	43.50		
24	122.00	163.70	70.60	171.90	1545.60	160.10	191.00	1039.90	127.90	89.10	59.60	43.50		
25	191.00	154.80	69.10	165.50	1525.20	197.30	193.10	755.20	126.40	86.00	59.60	41.80		
26	184.70	163.70	65.90	160.10	738.70	464.40	873.10	606.00	123.50	86.00	65.90	43.50		
27	133.00	197.30	64.30	143.90	350.00	826.80	616.00	528.10	120.60	92.10	76.80	46.70		
28	108.70	145.70	67.50	127.90	446.40	571.00	766.10	384.10	117.60	93.70	69.10	45.10		
29	98.20	136.70	72.20	199.40	755.20	352.60	1304.70	340.70	114.60	84.50		46.70		
30	87.60	143.90	67.50	133.00	846.70	620.90	661.20	315.00	111.70	79.90		46.70		
31		147.60		122.00	713.90		336.10		110.20	78.40		50.00		
Total	4667.40	10460.60	2596.50	13734.20	10336.30	12515.20	14622.40	24675.60	5686.40	3568.90	1917.30	1574.00	106354.80	Ton
Mean	155.60	337.40	86.60	443.00	333.40	417.20	471.70	822.50	183.40	115.10	68.50	50.80		
Max	510.40	1814.90	134.80	3602.00	1545.60	1098.30	1304.70	3327.30	420.60	319.70	76.80	65.90	3602.00	
Min	73.70	79.90	64.30	50.00	90.60	160.10	191.00	182.60	110.20	78.40	59.60	41.80	41.80	

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)

Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

Location : on left bank at Ban Ket Ho.

	Ban Ket Ho	Amphoe Kathu	Changwat Phuket
Drainage Area	28	sq.km.	
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2006-Cont'd		
Actual Measurement	2006-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	34		
R-Square	0.7810		
Remarks	Continued Sediment Station		

$$QS = 10.6770 QW^{1.55830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.50	5.10	0.20	2.80	28.60	36.50	34.40	10.70	0.90	0.30	0.10		
2	0.50	0.60	7.00	0.20	1.60	45.40	41.00	138.10	54.90	0.80	0.30	0.10		
3	2.40	2.20	4.70	0.20	1.10	30.50	32.40	81.70	36.50	0.70	0.30	0.10		
4	2.50	21.60	4.30	0.30	0.90	12.00	21.30	49.90	36.50	24.60	0.20	0.10		
5	0.60	12.00	4.00	0.30	0.70	70.60	7.00	45.40	34.40	10.80	0.20	0.10		
6	8.60	1.20	0.40	0.30	0.80	60.10	81.70	36.50	30.50	5.60	0.20	0.10		
7	7.10	1.10	0.30	3.00	1.30	36.50	105.50	32.40	28.60	5.90	0.20	0.10		
8	20.10	0.90	0.30	7.00	2.60	30.50	111.60	32.40	26.70	14.60	0.20	0.10		
9	29.50	34.70	0.30	2.10	0.60	41.00	105.50	30.50	26.70	5.50	0.20	0.10		
10	23.10	27.80	0.30	1.30	0.70	280.20	93.30	30.50	24.90	2.70	0.20	0.10		
11	75.90	7.20	0.30	1.80	0.60	145.30	131.50	32.40	19.70	4.30	0.20	0.10		
12	24.60	4.80	0.30	427.80	0.40	87.30	87.30	65.10	18.00	2.40	0.10	0.10		
13	15.90	1.20	0.30	45.40	0.40	65.10	65.10	45.40	26.70	1.70	0.10	0.10		
14	12.00	81.70	0.30	18.60	0.30	45.40	45.40	34.40	24.90	2.20	0.10	0.10		
15	6.10	12.00	0.30	10.80	0.30	105.50	41.00	34.40	26.70	2.40	0.10	0.10		
16	6.10	15.90	75.90	26.20	0.40	99.20	36.50	34.40	23.10	1.70	0.10	0.10		
17	27.80	4.70	23.10	7.20	0.60	81.70	36.50	41.00	12.00	1.70	0.10	0.10		
18	24.60	23.10	5.60	3.90	0.40	70.60	65.10	54.90	3.70	2.00	0.10	0.00		
19	20.10	13.30	0.60	0.90	0.40	60.10	54.90	41.00	1.90	1.80	0.10	0.00		
20	18.60	2.10	0.40	0.60	0.40	54.90	87.30	45.40	1.90	1.80	0.10	0.00		
21	21.60	1.50	0.30	0.50	0.40	41.00	49.90	36.50	1.90	1.60	0.10	0.00		
22	18.60	1.70	0.30	0.60	0.70	26.70	45.40	36.50	1.60	0.90	0.10	0.00		
23	2.80	1.20	0.30	341.40	2.80	18.00	41.00	34.40	1.60	0.40	0.10	0.00		
24	1.50	2.10	0.30	105.50	65.10	54.90	34.40	32.40	1.40	0.40	0.10	0.00		
25	4.00	1.50	0.30	32.90	10.80	99.20	60.10	32.40	3.70	0.40	0.10	0.00		
26	2.40	1.10	0.30	20.10	3.50	93.30	45.40	30.50	4.40	0.30	0.10	0.00		
27	0.60	2.30	0.30	21.60	4.00	41.00	49.90	28.60	19.70	0.30	0.10	0.00		
28	0.70	99.20	0.30	10.80	427.80	32.40	60.10	19.70	7.50	0.30	0.10	0.00		
29	0.70	60.10	0.30	15.90	181.50	45.40	36.50	7.00	2.70	0.30		0.00		
30	0.50	32.90	0.30	12.00	118.30	65.10	54.90	14.90	0.90	0.30		6.30		
31		21.60		4.70	34.40		41.00		0.90	0.30		2.80		
Total	379.90	493.80	136.80	1124.10	866.60	1967.50	1805.00	1213.10	515.30	99.60	4.20	10.80	8616.70	Ton
Mean	12.70	15.90	4.60	36.30	28.00	65.60	58.20	40.40	16.60	3.20	0.10	0.30		
Max	75.90	99.20	75.90	427.80	427.80	280.20	131.50	138.10	54.90	24.60	0.30	6.30	427.80	
Min	0.40	0.50	0.30	0.20	0.30	12.00	7.00	7.00	0.90	0.30	0.10	0.00	0.00	

WATER YEAR : 2009**SOUTHERN PENINSULA WEST COAST****Khlong Had Sompan at Ban Hat Sompan , Ranong (X.204)**

Lat 09 - 56 - 57 N Long 98 - 41 - 46 E

Location : on right bank at Ban Hat Sompan.

	Ban Had Sompan	Amphoe Mueang	Changwat Ranong
Drainage Area	23 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	36		
R-Square	0.8843		
Remarks	Continued Sediment Station		

$$QS = 29.9980 QW^{1.24880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.50	98.90	118.30	80.30	169.40	223.90	246.40	71.30	19.60	12.90	0.10	2.10		
2	4.50	98.90	118.30	71.30	169.40	169.40	1546.30	54.00	19.60	12.90	0.10	0.20		
3	4.50	98.90	492.40	62.50	316.60	138.30	518.70	54.00	12.90	12.90	0.10	0.20		
4	4.50	71.30	1839.00	54.00	180.10	201.70	518.70	54.00	12.90	16.20	0.10	0.20		
5	4.50	62.50	738.20	54.00	180.10	710.00	492.40	54.00	12.90	14.50	0.10	0.20		
6	4.50	62.50	390.10	45.70	212.70	1086.90	269.40	24.50	12.90	14.50	0.10	0.20		
7	4.50	180.10	212.70	37.70	212.70	545.30	292.80	21.30	12.90	14.50	0.10	0.20		
8	4.50	190.80	190.80	30.00	390.10	390.10	246.40	28.10	12.90	14.50	0.10	0.20		
9	4.50	138.30	180.10	30.00	292.80	738.20	212.70	28.10	12.90	14.50	0.10	0.20		
10	4.50	128.20	169.40	28.10	340.80	572.10	201.70	28.10	12.90	14.50	0.10	0.20		
11	9.90	158.90	180.10	118.30	201.70	390.10	518.70	28.10	12.90	5.80	0.10	0.20		
12	19.60	158.90	180.10	1168.60	180.10	292.80	466.40	28.10	12.90	2.10	0.10	0.20		
13	19.60	158.90	180.10	1168.60	158.90	246.40	201.70	28.10	12.90	2.10	0.10	0.20		
14	19.60	158.90	180.10	572.10	148.50	212.70	190.80	24.50	12.90	2.10	0.10	0.20		
15	19.60	169.40	180.10	316.60	128.20	158.90	118.30	24.50	9.90	1.10	0.10	0.20		
16	19.60	80.30	269.40	440.70	138.30	128.20	62.50	24.50	8.40	1.10	0.10	0.20		
17	19.60	98.90	654.10	1375.70	138.30	98.90	62.50	24.50	3.30	1.10	0.10	0.20		
18	19.60	71.30	2515.70	1127.60	98.90	118.30	89.50	24.50	8.40	1.10	0.10	0.20		
19	19.60	71.30	599.20	681.90	108.50	89.50	89.50	24.50	8.40	0.20	0.10	0.20		
20	12.90	118.30	599.20	518.70	71.30	246.40	89.50	21.30	8.40	0.20	0.10	0.20		
21	80.30	118.30	599.20	466.40	37.70	89.50	89.50	21.30	9.90	0.20	0.10	0.20		
22	148.50	80.30	599.20	654.10	89.50	180.10	71.30	21.30	9.90	0.20	0.10	0.20		
23	169.40	71.30	599.20	572.10	292.80	158.90	62.50	21.30	9.90	0.20	0.10	0.20		
24	169.40	71.30	599.20	599.20	1086.90	390.10	62.50	21.30	9.90	0.10	0.10	0.20		
25	128.20	71.30	599.20	545.30	316.60	292.80	71.30	21.30	12.90	0.10	0.10	0.20		
26	98.90	138.30	599.20	365.20	190.80	365.20	71.30	21.30	12.90	0.10	0.10	0.20		
27	98.90	180.10	223.90	269.40	180.10	775.30	71.30	19.60	12.90	0.10	0.10	0.20		
28	71.30	169.40	190.80	223.90	138.30	365.20	54.00	19.60	12.90	0.10	0.10	0.20		
29	98.90	223.90	108.50	190.80	158.90	246.40	54.00	19.60	12.90	0.10		0.20		
30	98.90	223.90	80.30	169.40	169.40	316.60	54.00	19.60	12.90	0.10		0.20		
31		190.80		169.40	316.60		71.30		12.90	0.10		0.20		
Total	1387.30	3914.40	14186.10	12207.60	6815.00	9938.20	7167.90	876.20	370.70	160.20	2.80	8.10	57034.50	Ton
Mean	46.20	126.30	472.90	393.80	219.80	331.30	231.20	29.20	12.00	5.20	0.10	0.30		
Max	169.40	223.90	2515.70	1375.70	1086.90	1086.90	1546.30	71.30	19.60	16.20	0.10	2.10	2515.70	
Min	4.50	62.50	80.30	28.10	37.70	89.50	54.00	19.60	3.30	0.10	0.10	0.20	0.10	

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Nang Noi at Ban Khaow Sea (2) , Trang (X.229)
 Lat 07 - 32 - 53 N Long 99 - 44 - 40 E

Location : on left bank at Ban Khaow Sea 2.

	Ban Khaow Sea 2	Amphoe Na Yong	Changwat Trang
Drainage Area	158 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	29		
R-Square	0.7668		
Remarks	Continued Sediment Station		

$$QS = 7.5521 QW^{1.48720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.80	0.80	13.30	0.60	0.70	58.50	29.30	21.20	43.80	6.70	14.90	1.20		
2	4.50	0.70	10.90	0.30	0.70	39.70	23.40	10.90	65.60	6.70	16.60	1.00		
3	22.30	1.00	8.70	0.30	0.70	29.30	14.10	18.40	49.90	29.30	16.60	1.00		
4	14.90	1.00	5.40	0.50	0.70	26.90	9.40	139.60	45.20	23.40	19.30	0.80		
5	14.90	0.60	2.00	0.50	0.50	28.10	28.10	266.80	38.30	20.20	19.30	1.00		
6	4.80	1.20	1.80	0.30	1.20	53.30	63.80	975.70	35.70	17.50	14.90	0.70		
7	13.30	3.20	1.40	0.20	1.00	29.30	46.60	759.70	33.10	659.80	17.50	0.70		
8	5.10	2.70	1.40	0.20	1.40	22.30	63.80	309.00	29.30	69.30	14.10	0.50		
9	28.10	5.40	1.00	7.30	1.40	23.40	37.00	178.30	28.10	56.70	6.70	0.70		
10	22.30	9.40	1.00	0.60	1.20	25.70	28.10	76.90	24.60	30.60	6.00	0.60		
11	20.20	1.60	0.80	0.30	2.20	26.90	56.70	65.60	23.40	25.70	6.00	0.70		
12	5.40	1.00	0.70	29.30	1.40	20.20	38.30	56.70	22.30	22.30	4.80	1.40		
13	5.10	1.60	0.70	38.30	0.70	26.90	29.30	45.20	22.30	24.60	5.10	3.40		
14	3.70	2.00	0.50	14.10	0.50	26.90	28.10	41.00	21.20	22.30	4.30	5.10		
15	6.00	23.40	0.60	4.00	0.80	31.80	26.90	43.80	20.20	20.20	3.20	2.20		
16	10.90	10.20	0.80	1.40	8.70	34.40	22.30	38.30	24.60	20.20	3.20	0.70		
17	4.80	11.70	11.70	1.00	4.80	24.60	14.10	48.30	22.30	18.40	2.90	0.30		
18	3.40	8.70	13.30	0.70	1.20	23.40	15.80	185.00	15.80	17.50	2.90	0.50		
19	2.70	6.00	8.00	0.70	1.00	14.90	14.90	161.80	14.90	17.50	2.70	2.20		
20	2.20	3.40	2.20	0.60	2.20	21.20	14.10	453.50	14.90	17.50	2.50	0.50		
21	2.50	10.90	0.70	0.70	1.60	18.40	22.30	704.90	16.60	18.40	2.20	0.80		
22	2.70	4.80	0.60	1.20	1.20	24.60	16.60	304.90	14.10	17.50	2.00	0.40		
23	2.20	3.20	0.50	1.00	3.40	18.40	12.50	142.90	12.50	14.90	1.80	0.20		
24	2.00	2.50	0.40	21.20	63.80	25.70	11.70	96.30	12.50	15.80	1.20	0.20		
25	1.80	4.30	0.40	8.00	139.60	91.70	22.30	73.10	10.90	14.90	2.20	0.60		
26	2.00	17.50	0.40	1.80	31.80	60.20	39.70	62.00	10.20	16.60	1.80	0.30		
27	1.80	7.30	0.30	4.00	22.30	39.70	30.60	55.00	10.20	15.80	1.60	0.20		
28	1.80	38.30	0.50	13.30	39.70	29.30	69.30	51.60	9.40	14.90	1.40	0.80		
29	1.40	22.30	2.20	3.20	87.20	26.90	75.00	46.60	8.70	13.30		0.30		
30	1.00	25.70	1.80	1.20	152.40	41.00	41.00	43.80	8.00	14.10		0.50		
31		19.30		1.00	71.20		28.10		6.70	14.10		0.70		
Total	215.60	251.70	94.00	157.80	647.20	963.60	973.20	5476.80	715.30	1296.70	197.70	30.20	11019.80	Ton
Mean	7.20	8.10	3.10	5.10	20.90	32.10	31.40	182.60	23.10	41.80	7.10	1.00		
Max	28.10	38.30	13.30	38.30	152.40	91.70	75.00	975.70	65.60	659.80	19.30	5.10	975.70	
Min	1.00	0.60	0.30	0.20	0.50	14.90	9.40	10.90	6.70	6.70	1.20	0.20	0.20	

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

Lat 07 - 22 - 20 N Long 99 - 40 - 39 E

Location : on right bank at Ban Yan Ta Khaow.

	Ban Yan Ta Khaow	Amphoe Yan Ta Khaow	Changwat Trang
Drainage Area	587 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	30		
R-Square	7725		
Remarks	Continued Sediment Station		

$$QS = 4.8858 QW^{1.30240}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual		
1	83.00	144.90	230.00	135.20	195.60	2253.00	1129.00	679.10	586.60	173.50	214.60	68.60			
2	52.60	121.60	210.80	118.90	195.60	1518.80	851.80	553.00	1118.80	184.50	218.40	23.60			
3	68.60	423.40	214.60	113.60	207.00	1179.90	735.70	500.20	937.10	330.10	144.90	26.40			
4	85.50	2158.30	207.00	118.90	226.10	963.10	679.10	600.20	843.40	526.40	113.60	36.70			
5	98.00	945.80	203.20	127.00	273.70	835.00	768.40	1423.00	641.30	376.50	80.50	39.70			
6	100.60	641.30	210.80	124.30	335.10	1200.40	1567.20	2111.30	539.70	257.60	57.10	23.60			
7	121.60	663.10	218.40	141.40	330.10	868.70	1378.00	5387.90	455.00	493.70	39.70	50.40			
8	214.60	620.70	210.80	166.20	455.00	711.30	1159.50	3042.60	392.20	679.10	29.20	23.60			
9	269.70	539.70	195.60	241.80	366.00	620.70	1129.00	1615.90	345.40	330.10	50.40	26.40			
10	455.00	519.80	188.20	355.70	325.00	546.30	843.40	1118.80	304.90	233.90	70.90	38.20			
11	600.20	455.00	184.50	355.70	281.90	559.70	954.40	860.30	269.70	199.40	78.10	36.70			
12	474.20	381.70	173.50	1971.80	245.70	448.60	1028.70	727.50	257.60	177.10	92.90	36.70			
13	371.20	350.50	265.60	6584.70	207.00	448.60	760.20	671.10	253.60	173.50	105.80	17.00			
14	277.80	360.80	245.70	2729.00	173.50	546.30	679.10	613.80	249.70	177.10	111.00	4.30			
15	249.70	627.50	249.70	963.10	188.20	553.00	703.20	695.20	241.80	180.80	116.30	14.50			
16	404.60	1038.60	214.60	663.10	273.70	648.20	663.10	613.80	241.80	166.20	127.00	4.90			
17	253.60	1179.90	191.90	553.00	245.70	613.80	641.30	687.10	257.60	155.50	121.60	39.70			
18	199.40	1018.80	188.20	455.00	257.60	648.20	620.70	989.20	237.80	169.80	105.80	199.40			
19	169.80	760.20	180.80	381.70	273.70	902.80	586.60	1231.30	218.40	180.80	90.40	127.00			
20	169.80	566.40	195.60	325.00	290.00	2111.30	607.00	1210.70	226.10	177.10	75.70	127.00			
21	173.50	679.10	210.80	299.90	335.10	1423.00	776.70	2671.20	199.40	159.00	75.70	184.50			
22	177.10	573.10	207.00	436.00	376.50	980.50	663.10	5449.50	173.50	155.50	59.30	95.50			
23	203.20	461.40	233.90	539.70	607.00	719.40	546.30	3588.90	159.00	127.00	48.20	36.70			
24	245.70	410.80	233.90	526.40	4091.50	579.80	429.60	2002.60	141.40	105.80	66.20	18.20			
25	253.60	392.20	245.70	455.00	5326.50	999.10	376.50	1378.00	118.90	95.50	63.90	9.00			
26	265.60	461.40	237.80	381.70	2806.70	1819.40	1346.30	1028.70	138.00	95.50	87.90	36.70			
27	241.80	539.70	218.40	314.90	1603.70	1304.20	999.10	835.00	144.90	105.80	85.50	26.40			
28	226.10	429.60	222.30	295.00	1880.10	1018.80	1088.60	695.20	148.40	118.90	100.60	177.10			
29	207.00	355.70	340.20	261.60	3062.50	818.20	1356.80	607.00	138.00	132.50		203.20			
30	177.10	309.90	191.90	210.80	2826.20	851.80	971.80	566.40	113.60	162.60		113.60			
31		265.60		195.60	2033.50		809.90		159.00	199.40		155.50			
Total	6890.20	18396.50	6521.40	20541.70	30295.50	28691.90	26850.10	44154.50	10252.60	6800.20	2631.2	2	20.80	204046.60	Ton
Mean	229.70	593.40	217.40	662.60	977.30	956.40	866.10	1471.80	330.70	219.40	94.00	65.20			
Max	600.20	2158.30	340.20	6584.70	5326.50	2253.00	1567.20	5449.50	1118.80	679.10	218.40	203.20	6584.70		
Min	52.60	121.60	173.50	113.60	173.50	448.60	376.50	500.20	113.60	95.50	29.20	4.30	4.30		

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

Location : on right bank at Ban Bang Tong.

	Ban Bang Tong	Amphoe Mueang	Changwat Phangnga
Drainage Area	242 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	35		
R-Square	0.8220		
Remarks	Continued Sediment Station		

$$QS = 4.0267 QW^{1.45020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	173.60	162.40	558.60	185.00	255.60	1877.00	999.20	333.00	130.40	73.40	51.50	32.30		
2	156.90	173.60	416.40	173.60	224.50	1158.10	1849.60	255.60	130.40	73.40	51.50	32.30		
3	151.50	214.40	641.40	162.40	245.10	829.40	3950.50	234.70	120.20	73.40	49.00	32.30		
4	179.20	368.00	479.40	151.50	333.00	558.60	2303.80	234.70	120.20	70.50	49.00	32.30		
5	179.20	344.50	380.00	151.50	1822.20	2216.30	3666.30	224.50	120.20	70.50	46.50	32.30		
6	204.40	255.60	333.00	140.80	1453.00	2422.10	2303.80	234.70	120.20	70.50	46.50	30.10		
7	245.10	245.10	310.20	140.80	979.80	1453.00	2850.30	234.70	120.20	67.70	44.00	30.10		
8	333.00	288.00	288.00	130.40	1904.60	941.50	3990.20	224.50	120.20	67.70	44.00	30.10		
9	288.00	333.00	288.00	125.20	1932.30	655.50	2819.00	204.40	110.30	67.70	44.00	30.10		
10	518.50	453.90	288.00	125.20	1388.10	1431.30	1822.20	204.40	110.30	64.90	41.60	30.10		
11	404.10	333.00	224.50	125.20	941.50	1555.80	2158.50	194.60	100.60	64.90	41.60	30.10		
12	266.30	299.10	204.40	18339.00	669.70	1219.50	1366.60	194.60	100.60	62.20	39.20	34.50		
13	214.40	333.00	204.40	4271.60	518.50	1057.90	922.50	185.00	100.60	62.20	39.20	34.50		
14	356.20	321.60	194.60	922.50	416.40	922.50	811.10	288.00	110.30	62.20	39.20	34.50		
15	277.10	721.80	380.00	492.30	356.20	1529.90	757.10	234.70	100.60	59.40	36.80	34.50		
16	356.20	453.90	3464.70	599.50	321.60	11533.40	641.40	288.00	100.60	59.40	36.80	34.50		
17	245.10	505.40	6600.80	1409.60	277.10	2944.80	585.80	234.70	100.60	59.40	36.80	34.50		
18	204.40	572.10	2158.50	669.70	245.10	1555.80	558.60	333.00	100.60	59.40	34.50	34.50		
19	185.00	466.60	1158.10	404.10	245.10	1038.20	531.80	321.60	105.40	56.80	34.50	32.30		
20	185.00	428.80	757.10	277.10	224.50	775.00	505.40	224.50	105.40	56.80	34.50	32.30		
21	173.60	466.60	558.60	224.50	204.40	704.30	453.90	185.00	105.40	56.80	32.30	32.30		
22	173.60	811.10	428.80	299.10	204.40	518.50	428.80	173.60	105.40	56.80	32.30	32.30		
23	214.40	585.80	466.60	1581.90	585.80	479.40	404.10	162.40	105.40	56.80	32.30	30.10		
24	333.00	453.90	404.10	1117.70	757.10	1178.40	380.00	151.50	105.40	56.80	32.30	30.10		
25	310.20	380.00	310.20	960.60	704.30	5150.40	356.20	140.80	105.40	56.80	32.30	30.10		
26	214.40	979.80	245.10	739.40	333.00	3990.20	333.00	140.80	79.20	56.80	32.30	30.10		
27	185.00	941.50	224.50	585.80	245.10	2044.50	321.60	140.80	79.20	56.80	32.30	30.10		
28	185.00	1281.90	404.10	492.30	479.40	1504.20	404.10	140.80	79.20	56.80	32.30	30.10		
29	185.00	3871.40	288.00	380.00	5323.50	1077.70	479.40	130.40	79.20	56.80		30.10		
30	173.60	1932.30	214.40	333.00	2016.30	922.50	321.60	130.40	79.20	56.80		54.10		
31		793.00		288.00	2976.50		70.50		79.20	56.80		70.50		
Total	7271.00	19771.10	22874.50	35999.30	28583.70	55245.70	39346.90	6380.40	3230.10	1927.20	1099.1	48.10	222777.10	Ton
Mean	242.40	637.80	762.50	1161.30	922.10	1841.50	1269.30	212.70	104.20	62.20	39.30	33.80		
Max	518.50	3871.40	6600.80	18339.00	5323.50	11533.40	3990.20	333.00	130.40	73.40	51.50	70.50	18339.00	
Min	151.50	162.40	194.60	125.20	204.40	479.40	70.50	130.40	79.20	56.80	32.30	30.10	30.10	

WATER YEAR : 2009
SOUTHERN PENINSULA WEST COAST
Khlong Tha Prae at Ban Ta Lam , Satun (X.264)
 Lat 06 - 47 - 46 N Long 99 - 57 - 17 E

Location : on right bank at Ban Ta Lam.

	Ban Ta Lam	Amphoe Tha Pae	Changwat Satun
Drainage Area	223 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009		
Number of observation	33		
R-Square	0.8682		
Remarks	Continued Sediment Station		

$$QS = 4.7520 QW^{1.28740}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2009 to 31 March 2010

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.50	17.20	9.80	9.80	12.40	40.30	462.10	66.70	97.10	32.50	13.50	10.50		
2	14.30	24.70	10.10	9.40	11.60	51.30	141.50	51.30	91.90	39.40	41.20	10.90		
3	15.90	30.00	9.80	10.10	10.90	154.40	133.70	49.10	88.00	29.10	30.00	10.90		
4	21.20	61.90	14.30	15.90	10.90	80.30	95.80	91.90	85.40	26.10	16.60	11.20		
5	19.20	65.50	13.90	17.20	12.70	824.90	253.40	58.30	72.80	26.10	15.90	12.00		
6	24.70	94.50	15.90	5.20	14.70	692.10	976.80	621.30	66.70	25.40	13.90	11.20		
7	26.90	37.60	14.70	5.50	15.30	339.10	421.00	2626.00	66.70	24.70	13.50	10.90		
8	22.60	30.00	13.10	6.00	13.50	317.60	113.20	557.60	61.90	24.70	13.50	10.50		
9	19.90	29.10	9.10	6.30	12.40	288.00	325.20	373.70	52.50	24.00	13.50	10.10		
10	66.70	24.00	7.10	5.20	10.90	43.00	209.70	141.50	45.70	19.90	11.20	9.80		
11	59.50	20.60	21.20	18.50	10.90	41.20	227.00	154.40	42.10	18.50	11.20	12.40		
12	36.80	16.60	25.40	634.00	10.50	35.90	192.80	146.20	42.10	17.90	11.20	12.00		
13	31.60	19.90	19.20	2294.30	10.50	33.30	63.10	138.40	40.30	17.90	11.20	10.50		
14	27.60	14.30	21.90	503.30	10.50	19.20	63.10	140.00	37.60	17.90	11.20	9.10		
15	24.70	24.70	19.90	70.30	10.10	50.20	89.30	216.20	33.30	17.90	12.40	10.50		
16	18.50	22.60	58.30	40.30	11.60	75.30	86.70	120.10	32.50	17.90	12.00	10.50		
17	21.90	27.60	49.10	35.00	12.70	58.30	60.70	138.40	32.50	17.90	11.20	11.20		
18	20.60	224.80	32.50	26.90	16.60	49.10	56.00	173.30	32.50	17.20	10.50	11.20		
19	14.30	158.20	25.40	26.10	15.30	46.80	57.10	216.20	32.50	16.60	10.50	10.50		
20	10.50	89.30	23.30	25.40	10.50	222.60	57.10	297.80	29.10	15.30	10.10	9.80		
21	9.40	43.90	20.60	25.40	10.90	99.80	99.80	584.30	28.30	15.30	10.10	9.80		
22	9.10	25.40	29.10	42.10	59.50	95.80	107.80	1987.60	26.90	15.30	9.80	9.80		
23	10.90	26.90	27.60	61.90	1569.90	46.80	95.80	2771.20	30.80	14.70	9.80	9.80		
24	26.10	32.50	28.30	26.90	1275.10	43.90	93.20	539.90	51.30	14.70	10.10	9.80		
25	77.80	28.30	21.90	22.60	852.10	71.60	57.10	879.50	34.20	14.70	10.50	10.50		
26	37.60	26.90	30.80	21.20	503.30	79.00	283.10	264.60	32.50	14.30	13.50	10.50		
27	37.60	27.60	19.20	21.20	336.20	271.40	436.10	216.20	27.60	14.30	13.10	10.10		
28	43.00	22.60	16.60	19.90	65.50	197.00	242.30	186.80	23.30	13.90	12.40	10.10		
29	12.70	15.90	11.20	19.90	53.60	84.10	88.00	93.20	26.10	13.90		10.50		
30	9.10	22.60	5.20	20.60	207.60	141.50	111.90	107.80	25.40	13.90		10.50		
31		13.50		13.90	379.50		77.80		24.70	13.50		12.00		
Total	781.20	1319.20	624.50	4060.30	5557.70	4593.80	5778.20	14009.50	1414.30	605.40	383.60	329.10	39456.80	Ton
Mean	26.00	42.60	20.80	131.00	179.30	153.10	186.40	467.00	45.60	19.50	13.70	10.60		
Max	77.80	224.80	58.30	2294.30	1569.90	824.90	976.80	2771.20	97.10	39.40	41.20	12.40	2771.20	
Min	9.10	13.50	5.20	5.20	10.10	19.20	56.00	49.10	23.30	13.50	9.80	9.10	5.20	